



UNIVERSITY OF MINNESOTA

*March Commencement, 1968*

SATURDAY EVENING, MARCH 16, 7:30 P.M.

NORTHROP MEMORIAL AUDITORIUM

# *The Board of Regents*

The Honorable Lester A. Malkerson, Minneapolis  
First Vice President and Chairman

The Honorable Marjorie J. Howard (Mrs. C. Edward), Excelsior  
Second Vice President

The Honorable Elmer L. Andersen, St. Paul

The Honorable Daniel C. Gainey, Owatonna

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Herb L. Huffington, M.D., Waterville

The Honorable Fred J. Hughes, St. Cloud

The Honorable Charles W. Mayo, M.D., Rochester

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhorst, Olivia

The Honorable Otto A. Silha, Edina

The Honorable Herman F. Skyberg, Fisher

Dr. Malcolm Moos, President

Dr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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SMOKING AND USE OF CAMERAS AND RECORDERS—It is requested, by action of the Board of Regents, that in Northrop Memorial Auditorium smoking be confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms. The use of cameras or tape recorders in the auditorium by members of the audience is prohibited.

# *This Is Your University*

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and seventeenth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen—to name only some of the careers for which preparation is offered. Since its founding, the University has awarded more than 200,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to nearly 46,000 students annually on its Twin Cities, Duluth, Morris, Crookston, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H Club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

In the diversified research laboratories on the University's five campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

THE UNIVERSITY is acknowledged to be the cultural hub of the Northwest. It is the home of the University Artists Course, Radio Station KUOM, the University of Minnesota Television Hour, the University Theatre, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings renowned artists and lecturers to more than a million and a half persons living in the area it serves.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. Through the American Legion and its auxiliary

posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the bio-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

To enlarge the base of private support for the University, the University of Minnesota Foundation was established in 1962 as a nonprofit organization, independent of the University but with the University as its sole beneficiary. The Foundation gives alumni, other citizens, and corporate donors the opportunity to make gifts, bequests, grants, and other forms of tax-deductible voluntary contributions. These funds supplement tax support and make possible the enriched programs and expanded services which create a "margin of excellence" for the University. Direction and resources of the Foundation are under the management of a Board of Trustees of concerned and dedicated citizens.

As it meets the needs of present students, the University must also make plans for those of the future. The 46,088 students who enrolled at the University at the beginning of the 1967-1968 academic year represented nearly one half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits. In the fall of 1965, for the first time in its history, the University instituted an admissions policy based on controlled growth of total enrollment. This change in admissions requirements held the 1967-1968 enrollment to about 46,000 students. It reflects the University's need for more teachers, more land, and more buildings. And it makes plain the University's determination to maintain the educational quality that has made it one of America's leading educational institutions.

THE 1967 LEGISLATURE granted the University \$110,893,275 for general operations and maintenance during the 1967-1969 biennium. In addition, the University received \$9,401,100 for University Hospitals; \$9,883,460 for special appropriations, including special extension and research activities; \$22,739,346 for new buildings, land, and the rehabilitation of existing buildings; and \$955,000 for the University of Minnesota Technical Institute, Crookston.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request, as is a much more comprehensive and complete statement for those who wish to make a special study of the University's income and expenditures.

The summary financial statement of 1966-1967 showed that the University's current income and expenditures amounted to \$69,292,131.98. Of the total received, \$16,389,611.68 came from student tuition and fees; \$25,313,080.86 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts and the sale of bulletins and agricultural products; \$1,575,346.90 from intercol-

legiate athletics; \$24,117,422.96 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$9,107,000.99 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$40,897,023.16 came from the federal government for instruction, research, and agricultural extension. The state provided \$51,892,645.43 or 30.1 percent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings amounted to \$21,607,236.

COMMENCEMENT marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund, administered in the Alumni Office in Coffman Memorial Union, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds, administered by the Department of University Relations, Morrill Hall.

Alumni, their families, and their friends are always welcome here. The University hopes they will return frequently to visit the campus and to renew cherished ties.

# Order of Events

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Twin Cities Campus of the University this evening from 6:45 to 7:15 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. William J. Cermak, Graduate Student, University Carillonneur. Admission to the March Commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

**THE COMMENCEMENT ON TELEVISION:** The entire Commencement this evening is being televised, live, through the cooperation of the Minnesota Educational Television Network, and will be seen in the Twin Cities area over KTCA-TV, Channel 2; in the Duluth area over WDSE-TV, Channel 8; in Morris and West Central Minnesota over KWCM-TV, Channel 10; and in the Fargo-Moorhead area over KFME-TV, Channel 13.

**PRELUDE CONCERT:** From 7:00 to 7:30 p.m., the University Concert Band Ensemble, conducted by Associate Professor of Music and Bandmaster Frank P. A. Bencriscutto, A.Mus.D., will play:

- Sound of Music Selections* - - - - - Richard Rodgers
- Music Man Selections* - - - - - Meredith Willson
- Porgy and Bess Selections* - - - - - George Gershwin

**PROCESSION:** The audience is requested to remain seated so that all can see the procession. At 7:30 p.m., Professor Rodney C. Loehr, Ph.D., College of Liberal Arts, Faculty Marshal, will carry the Mace onto the stage, heralding the arrival of the academic procession of candidates for degrees. Marshal Loehr, as Mace-Bearer, will present the Mace at the center of the stage. When all of those marching have taken their seats, he will put the Mace in its cradle to signal the beginning of the ceremony. During the procession, the Concert Band Ensemble will play:

- Pomp and Circumstance* - - - - - Edward Elgar

**ON THE STAGE:** The curtain will be opened when the Mace-Bearer enters. Seated on the stage, from left to right, are Marshal Loehr; Professor Arnold Lazarow, Ph.D., College of Medical Sciences, Marshal; Captain David J. Martinson, U.S.A.F., Assistant Professor of Aerospace Studies; The Reverend J. Kenneth Huyck, B.D., Director of the Campus Baptist Student Fellowship; Colonel William D. Beard, U.S.A., Professor of Military Science; Professor La-Vell M. Henderson, Ph.D., College of Biological Sciences; Recorder W. Donald Beatty, Ph.D., Admissions and Records; Dean Lawrence C. Weaver, Ph.D., College of Pharmacy; Dean Robert J. Keller, Ph.D., College of Educa-

tion; Associate Dean Robert F. Lambert, Ph.D., Institute of Technology; The Honorable George W. Rauenhurst, Regent of the University of Minnesota; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Vice President Laurence R. Lunden, LL.D., Business Administration; The Honorable Elmer L. Andersen, Regent of the University of Minnesota; Vice President Stanley J. Wenberg, M.A., Educational Relationships and Development; The Reverend Colman J. Barry, O.S.B., Ph.D., President of St. John's University, Collegeville, Minnesota; Associate Vice President Donald K. Smith, Ph.D., University of Minnesota; Assistant Vice President Fred E. Lukermann, M.A., Academic Administration; The Honorable Fred J. Hughes, Regent of the University of Minnesota; Dean Bryce L. Crawford, Jr., Ph.D., Graduate School; The Honorable Albert V. Hartl, Regent of the University of Minnesota; Mr. Albert H. Heimbach, B.B.A., President of the Minnesota Alumni Association; Associate Dean H. Mead Cavert, M.D., Ph.D., College of Medical Sciences; Dean Alfred L. Vaughan, Ph.D., University College; Associate Dean George Seltzer, Ph.D., School of Business Administration; Professor G. Gordon Kingsley, Ph.D., General College; Assistant Dean Keith N. McFarland, Ph.D., College of Agriculture, Forestry, and Home Economics; Associate Professor Ferdinand P. Schoettle, Jr., LL.B., Law School; Commander Edward O. Dietrich, U.S.N., Associate Professor of Naval Science; Professor Roy A. Schuessler, M.M., College of Liberal Arts; Professor Herbert G. Heneman, Jr., Ph.D., College of Business Administration, Marshal; Professor Frank M. Whiting, Ph.D., College of Liberal Arts, Marshal.

**PRESENTATION OF COLORS:** As the color guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, enters the Auditorium, the audience will rise and will remain standing for the National Anthem and for the Invocation.

*Inaugural Fanfare* - - - - - Frank Bencriscutto

**THE NATIONAL ANTHEM:** The entire audience and Professor Schuessler.

O, say! can you see, by the dawn's early light,  
 What so proudly we hail'd at the twilight's last gleaming,  
 Whose broad stripes and bright stars, thro' the perilous fight,  
 O'er the ramparts we watch'd were so gallantly streaming?  
 And the rockets' red glare, the bombs bursting in air,  
 Gave proof thro' the night that our flag was still there.  
 O, say, does that star-spangled banner yet wave  
 O'er the land of the free and the home of the brave?

**INVOCATION:** Mr. Huyck.

**SPEAKING FOR THE UNIVERSITY:** Associate Vice President Smith.

**COMMENCEMENT ADDRESS:** Father Barry.

**CONFERRING OF ROTC CERTIFICATES:** Assistant Vice President Lukermann will introduce Colonel Beard, Commander Dietrich, and Captain Martinson, who will present the candidates for commissions in their respective services. Certificates of ROTC completion will be presented by Associate Vice President Smith.

**PRESENTATION OF CANDIDATES:** Assistant Vice President Lukermann will introduce the deans of the several colleges or their representatives, who will present to Associate Vice President Smith the candidates for certificates and degrees. They are, in order of their introduction: Professor Kingsley for the General College; Dean Ziebarth for the College of Liberal Arts; Dean Vaughan for the University College; Associate Dean Lambert for the Institute of Technology; Assistant Dean McFarland for the College of Agriculture, Forestry, and Home Economics; Dean Keller for the College of Education; Associate Dean Seltzer for the School of Business Administration; Associate Dean Cavert for the College of Medical Sciences; Dean Crawford for the Graduate School.

**CONFERRING OF DEGREES:** Associate Vice President Smith will confer certificates and degrees upon the members of this graduating class.

**SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION:** Mr. Heimbach.

**PRESENTATION OF DIPLOMAS:** With Assistant Vice President Lukermann presiding, members of the March graduating class will pass across the stage to receive their diplomas.

**CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY:** Associate Vice President Smith will confer the degrees upon the candidates. As each new Doctor of Philosophy is invested with his academic hood, he will be presented individually by Dean Crawford.

**HAIL! MINNESOTA:** The University's Alma Mater song, sung by the audience and Professor Schuessler.

Minnesota, hail to thee!	Like the stream that bends to sea,
Hail to thee, our college dear!	Like the pine that seeks the blue,
Thy light shall ever be	Minnesota, still for thee
A beacon bright and clear;	Thy sons are strong and true;
Thy sons and daughters true	From thy woods and waters fair,
Will proclaim thee near and far;	From thy prairies waving far,
They will guard thy fame	At thy call they throng
And adore thy name;	With their shout and song,
Thou shalt be their Northern Star.	Hailing thee their Northern Star.



RECESSIONAL: The Concert Band Ensemble will play:

*Symphony No. 3* - - - - - *Vittorio Giannini*  
*Allegro*

THE AUDIENCE is requested to remain seated until those in academic costume have left the Auditorium.

(Immediately following these exercises, all members of the audience are invited to attend the President's Reception, which is described on the back cover of this program.)

# *Candidates for Commissions*

Subject to the completion of all curriculum requirements at the close of the winter quarter, commissions will be presented to those listed below and to such others as may meet the requirements for the Reserve Officers in the Armed Services.

## **DEPARTMENT OF MILITARY SCIENCE**

### **Second Lieutenant, Artillery**

Allan M. Johnson, Hutchinson

### **Second Lieutenant, Corps of Engineers**

Gregory L. Edlefsen, Minneapolis

### **Second Lieutenant, Finance Corps**

Francis J. Taillefer, Minneapolis

### **Second Lieutenant, Transportation Corps**

Michael A. McFarlin, Blooming Prairie

## **DEPARTMENT OF NAVAL SCIENCE**

### **Ensign, USNR**

David A. Singer, St. Paul

## **DEPARTMENT OF AEROSPACE STUDIES**

### **Second Lieutenant, USAF Reserve**

Jeffrey R. Gaskell, Minneapolis  
Donald J. Karcewski, Le Center

Robert W. Ogren, Jr., Crystal

# *Candidates for Graduation*

Subject to the completion of all curriculum requirements at the close of the winter quarter, degrees will be conferred as indicated on those listed below and upon such others as may meet the graduation requirements.

## **GENERAL EXTENSION DIVISION**

### **Business Administration Certificate**

Evan H. Fie, LaGrange, Ill.

Lyle J. Franklin, St. Paul Park

### **Engineering Science Certificate**

James Norman Gehrking, Minneapolis

David Petrus Neston, St. Paul

### **Mechanical Engineering Technician Certificate**

Eugene Alvin Hawkinson, St. Paul

## **GENERAL COLLEGE**

### **Associate in Arts**

John R. Abbott, White Bear Lake  
Mathew LeRoy Albrecht, Minneapolis  
David Howard Algren, Richfield  
Maryam Aliabadi, Tehran, Iran  
Kenneth Roy Anakkala, Robbinsdale  
Michael David Anderson, Wayzata  
David Allen Balfanz, St. Paul  
Eugene John Barno, Minneapolis  
David Ray Baumchen, Richfield  
Michael John Becker, St. Louis Park  
Wendy Elizabeth Berg, St. Paul  
Ronald Harold Berry, St. Louis Park  
Thomas Frank Berry, Wyoming  
Robert William Beskar, Inver Grove Heights  
Martha Louise Bjorklund, Minneapolis

Gary John Bohnenstingel, Minneapolis  
Gregory John Bohrer, Minneapolis  
Leland James Boyd, Alexandria  
Dennis Vernon Carlson, Minneapolis  
Michael Kenneth Casey, St. Paul  
Donald Emerson Casto, St. Paul  
Craig Dennis Cervin, St. Paul  
Bruce Kenneth Chesin, St. Louis Park  
Frederick Allan Clark, Richfield  
Carl O. Clarke, Minneapolis  
Hugh William Conklin, Hartford, Conn.  
Keith Gregory Covart, Minneapolis  
Robert Thomas Cox, St. Paul  
Ronald Gene Crawford, South St. Paul

Richard William Curney, St. Paul  
 Candice Jean Danielson, St. Paul  
 Fred Russell Davis, St. Louis Park  
 Bonnie Kay Dietrich, Minneapolis  
 Mark Alan Dixon, Hopkins  
 Lawrence Nelson Dow, White Bear  
 Lake  
 Don Ray DuCharme, St. Paul  
 Robert William Eckstein, Minne-  
 apolis  
 Lee Stanton Elmquist, Minneapolis  
 Jeffrey Robert Erickson, St. Paul  
 Richard Clarence Ersbo, Excelsior  
 Marilyn Jean Forman, Jackson  
 George Richard Frey, St. Paul  
 David Daniel Gabrick, Minneapolis  
 Carmel Ann Giles, Minneapolis  
 Richard Allan Gill, Northfield  
 Robert Kenneth Glass, Edina  
 Nancy Goldman, Cincinnati, Ohio  
 Madeleine Ann Gorsen, Golden Val-  
 ley  
 Charles Frederick Green, Hackensack  
 James Philip Gunther, Richfield  
 Sharon Mae Haimes, St. Paul  
 David Allen Hall, Cloquet  
 Marrell Hall, Minneapolis  
 Gregory James Halldin, Long Lake  
 Gwyn Ann Hamel, St. Paul  
 John Stephen Haug, Minneapolis  
 Robert Gordon Heille, St. Paul  
 William Robert Heise, Bloomington  
 Terry Michael Henderson, Minne-  
 apolis  
 Richard Joseph Hentges, St. Paul  
 Rodney Warren Herman, St. Paul  
 William Kent Horlitz, Edina  
 Robert William Hostetler, Golden  
 Valley  
 Leon Theodore Houle, St. Paul  
 Patricia Ann Hove, Minneapolis  
 Gregory Paul Hovland, St. Paul  
 James Michael Hoy, Minneapolis  
 Walter Wess Huestis, Minneapolis  
 James Henry Illies, Minneapolis  
 Julie Ann Johnson, Hallock  
 Richard Clyde Kairies, St. Louis Park  
 LeiOLani ShuMei Kamano, Minne-  
 apolis  
 Valerie Irene Kaplan, St. Paul

George Andrew Kappas, White Bear  
 Lake  
 George Fredrick Kassin, South St.  
 Paul  
 Ronald Gene Kloempken, Arlington  
 William D. Koppang, Minneapolis  
 Ronald John Koski, St. Paul  
 Lindsay Nonman Krantz, Minneapolis  
 Donald Martin Kuppe, Jr., Richfield  
 Paul Herbert Ladwig, Robbinsdale  
 Gary Dale Lawrence, Golden Valley  
 George Edward LeRoux, St. Paul  
 Richard Joseph Lillie, Minneapolis  
 Thomas Evans Lindstrom, Manhattan  
 Beach, Calif.  
 Carole Diane Loe, Minneapolis  
 Jerome D. Lofstrom, St. Paul  
 Thomas Patrick Maday, Minneapolis  
 Bruce John Malmberg, Minneapolis  
 Thomas Allen Marsh, Minneapolis  
 Joseph Eugene May, Minneapolis  
 Bryan Russell Mead, Richfield  
 Joseph Arthur Moeller, St. Paul  
 William John Morhauser, St. Paul  
 James Francis Mossey, Mishawaka,  
 Ind.  
 George Albert Munchow, Jr., St. Paul  
 Howard James Myers, Jr., St. Paul  
 Bruce Irwin Nelson, Minneapolis  
 William Frank Neujahr, St. Paul  
 Dennis Martin O'Keefe, Minneapolis  
 Curtis Iver Olstad, Grygla  
 Gary Phillip Ostrin, St. Louis Park  
 Gregory Lee Paul, Hopkins  
 Ronald John Pearson, Minneapolis  
 Michael Lee Pelton, Minneapolis  
 William Harold Peters, Minneapolis  
 Craig Charles Peterson, St. Paul  
 Larry James Peterson, Bloomington  
 Sharon Marie Phipps, St. Paul  
 Regina Plinte, St. Paul  
 Craig Anthony Pomerleau, Minne-  
 apolis  
 Dianne Christine Quick, St. Paul  
 Ramona Ramirez, St. Paul  
 Joyce Michaeline Ratkay, Edina  
 William Bruce Roeske, Minneapolis  
 John Allan Rossi, Minneapolis  
 Daniel Bruce Rouzer, Edina  
 Karen Rose Sagedahl, Minneapolis

Thomas Theodore Scheiderich, Minneapolis  
 Steven Harvey Schouweiler, St. Paul  
 Jacqueline Jeanne Silbaugh, Pine River  
 Thomas Paul Slaby, Minneapolis  
 Thomas Littlepage Smith, Minneapolis  
 Robert Paul Spande, Minneapolis  
 Thomas Martin Stenhjem, Minneapolis  
 Kenneth Robert Svor, Benson  
 James Lewis Swartz, St. Paul  
 Elaine Sandra Tarshish, Golden Valley  
 Paula Bentley Thornquist, Iliion, N.Y.  
 Harry Ross Tittle, St. Paul

Martha Mary Towey, Rochester  
 Michael John Wagner, Benson  
 Robert Roy Walin, Wayzata  
 Miles Roy Walthour, Minneapolis  
 Dennis Dean Weed, St. Paul  
 James Charles Weninger, Prior Lake  
 Eileen Jane Whittendale, Oyster Bay, N.Y.  
 Robert Charles Wick, Minneapolis  
 Gerald John Wolinski, Minneapolis  
 Don Henry Wood, Mound  
 Sylvester Allen Young, Jr., Minneapolis  
 Michael Regis Yunker, Edina  
 Donald Shaker Zakeer II, Minneapolis  
 Deane Albert Zimmerman, Buffalo

## COLLEGE OF LIBERAL ARTS

### Associate in Liberal Arts

Richard Allen Bokovoy, Minneapolis  
 Donald Edward Brown, Minneapolis  
 Judy Ann Edlund, Bloomington  
 Lynn Marie Everson, Robbinsdale  
 Florence Geniveve Felix, Shakopee  
 Howard Linus Holm, Minneapolis  
 Richard Milo Huntley, Minneapolis  
 Kent Jerome Kircher, Olivia  
 Hans Jurgen Loeffler, St. Paul  
 Bruce Wayne Maxson, Marlboro, Mass.

Bonnie Louise Meyer, St. Paul  
 Roxy Faith Orenstein, St. Louis Park  
 Ludmilla Ostroushko, Minneapolis  
 George Marlin Pitlick, St. Paul  
 James Carl Robertson, Williams  
 Gary Michael Voltin, Mounds View  
 Mary Martha Wallin, St. Paul  
 Shirley Ruth Wedl, North St. Paul  
 Loretta Louise Weisbrich, Farmington

### Bachelor of Arts

*Honors citations are provisional and will not become final until all requirements are met for the level indicated*

Vernon Ivar Aas, Minneapolis  
 Patricia Ann Johnson Adams, Minneapolis  
 Denise Ann Anderson, St. Louis Park  
 Eunice Margaret White Anderson, Minneapolis  
 Kermit Wayne Anderson, B.S., Virginia  
 Augustus Fabara Andrew, Nigeria  
 Thomas Edward Arett, Austin  
 Harry Norman Ashley, Minneapolis

Michael Albert Axley, Havre, Mont.  
 Marlane Louise Ayers, St. Paul  
 Thomas Ansen Bachelder, Marine, SUMMA CUM LAUDE, English  
 Janet Ruth Meyer Backus, Robbinsdale  
 Marlene Ann Barrett, St. Paul  
 Roberta Lee Bast, Moorhead, MAGNA CUM LAUDE, Sociology  
 Carolyn Dorothy Bergerson, Minneapolis

Allen Robert Bergeson, Fertile  
 Harold Leighton Berglund, Minneapolis  
 Stephen Carl Bergmann, St. Paul  
 Barbara Joyce Black, Minneapolis  
 Janet Phyllis Boschee Blesener, Minneapolis  
 Wallace Eugene Bohach, Hopkins  
 Ronald Alfred Bolson, Minneapolis  
 Shelby Jean Boone, Minneapolis  
 William Charles Brambilla, Minneapolis  
*Sandra Elaine Hamilton Broderson, West St. Paul, MAGNA CUM LAUDE, Spanish*  
 Bruce Thomas Bronson, A.A., St. Paul  
 Madeline Jinx Bryant, Minneapolis  
 Elizabeth Laura Buchmeier, Hastings  
 Geruth Lynn Buetow, St. Paul  
 Robert Anthony Burns, Coon Rapids  
 Bonnie Lynne Mary Busch, Minneapolis  
 Elizabeth Mary Cammack, St. Paul  
 John Frederick Campbell, Minneapolis  
 Donald Burney Carlson, Minneapolis  
 Vincent Carlson, Minneapolis  
 Candace Lee Rygh Chambers, Glenwood  
 Weitung Alfred Chao, Shanghai, China  
 James McCullough Christenson, Crystal  
 Steve Rowe Clark, Minneapolis  
 Charlotte Christina Clarke, St. Paul  
 Andrea Louise Cohen, Minneapolis  
*Marsha Aileen Cohen, Golden Valley, SUMMA CUM LAUDE, English*  
 Nancy C. Whiting Comer, Winona  
 David Courtland Couper, Minneapolis  
 William James Cunningham, Rochester  
 Naomi Jeanne Dalbec, Minneapolis  
 Michael Henry Daniel, A.A., Minneapolis  
 Caroline Bromley Dean, Minneapolis  
 John Edward Decker, St. Paul  
 David James DeLay, A.A., Richfield  
 Marsha Ann Dmohowski, Minneapolis  
 Mary Ellen Donohue, St. Paul  
 William Louis Douville, St. Paul  
 Janis Carole Eckstrand, Moorhead  
 John Marshall Edlund, Minneapolis  
 Nicholas Richard Eian, Minneapolis  
 Janet Marie Erickson, Anoka  
 Monica Cavanagh Erler, Falcon Heights  
 Suzanne Lynn Estel, Minnetonka  
 Sharon Marrinson Farsht, St. Paul  
 Catherine Alice Fehr, St. Paul  
 Mary Katherine Horst Feilinger, South St. Paul  
 Robert L. Felt, Jr., Mt. Lebanon, Pa.  
 Sonja Kristin Fergestad, Minneapolis  
 Carolyn Alice Finstuen, Zumbrota  
 James Michael Fitzgerald, Bloomington  
 Kathleen Fleming, Austin  
 Sara Rachel Freier, Minneapolis  
 Phyllis Claire Gall, Minneapolis  
 James Hugh Gamble, Minneapolis  
 Mary Ellen Gardner, Minneapolis  
 Julie Charlotte Geisler, Lake City  
 Robert William Gibbs, Jr., Minneapolis  
 Charles Eugene Goldenman, Wayzata  
 Donald Lyle Goodman, Minneapolis  
 Richard Harold Graham, Minneapolis  
 James Arlo Greenwald, Minneapolis  
 Paula Zan Griffith, St. Paul  
 Richard Elwood Gruis, Hastings  
 Mary Jean Gustafson, Fergus Falls  
 Peter Waldemar Gustafson, Minneapolis  
 David John Guyot, Minneapolis  
 Gregory Carl Hall, Minneapolis  
 Nancy Lou Christopherson Hall, Delhi  
 Philip Joseph Hamer, St. Paul  
 Karen Lucile Hamilton, Anoka  
*Patricia Mary Hampl, St. Paul, CUM LAUDE, English*  
 Elinor Finkelman Handman, St. Paul  
 Gerald William Hanna, St. Paul  
 James Anthony Hansen, St. Paul  
 Karen Elizabeth Hansen, Milaca  
 Charles Robert Hanson, Mahtomedi  
 Richard Sheldon Hargesheimer, White Bear Lake  
 Francine Kay Hausmann, Detroit Lakes

Richard Alan Haynes, Minneapolis  
 Susan Jane Karin Hedine, Alexandria  
 Elizabeth Therese Heiman, Minneapolis  
 Thomas George Heinonen, Crystal  
 Ronald David Hendrickson, Minneapolis  
 Brian Eugene Holzer, Minneapolis  
 Marcia Evelyn Hoppes, Minneapolis  
 LaVerne Lundstrom Hornby, New  
 Brighton  
 David Albert Hornig, Minneapolis  
 Glenn Roy Horton, Jr., Rosemount  
 Leslie Ann Ingman, Minneapolis  
 Donald Bruce Jacobson, A.A., Minneapolis  
 Alison Claire Jarvis, West St. Paul  
 Narda Maxine Jensen, Rochester  
 Jeffrey Winston Johnson, St. Louis  
 Park  
 Julianne Clare Johnson, St. Cloud  
 Kathleen Sara Johnson, Hibbing  
 William Phillip Johnson, Anoka  
 Mark Leifur Josefson, Hopkins  
 Linda Sue Kabrick, Spencer, Iowa,  
 MAGNA CUM LAUDE, *Philosophy*  
 Donald Joseph Karcewski, Le Center  
 Patricia Helen Kennedy, Bloomington  
 Jeanne Thompson King, Minneapolis  
 Steven Hulbert Kingsbury, Minneapolis,  
 CUM LAUDE, *Psychology*  
 Gordon Joseph Kircher, St. Paul  
 Gloria Jean Kittelson, Minneapolis  
 Gary Bernhard Kleinert, Minneapolis  
 Terrence James Korupp, Winona  
 Eugene Peter Koshenina, New  
 Brighton  
 Nancy Helen Kruse, St. Paul, CUM  
 LAUDE, *Art*  
 Teresa Louise Kuehn, Minneapolis  
 Barbara Jean Lambesis, Minneapolis  
 John Ertel Lanning, A.A., Minneapolis  
 Barbara Ann Larson, Luverne  
 Michael Norman Laursen, Albert Lea  
 Mary Lynn Leach, Golden Valley  
 Thomas John Lebovsky, Fridley  
 James Price Leonard, Pierre, S.D.  
 Nancy Ann Lerohl, Virginia  
 Michael Lawrence Levine, St. Paul  
 John Edward Lindahl, Hopkins  
 Diana Marilyn Lindgren, Minneapolis  
 Kent Louis Lohse, A.A., St. Paul  
 Timothy Wayne Loomis, Minneapolis  
 Margaret Lorber, Minneapolis  
 Susan Ann Luetje, St. Paul  
 Connie Joyce MacAllister, Minneapolis  
 Mary Josephine Mahal, Wabasso  
 Thomas John Mahlum, Bloomington  
 Gary Alan Malkes, St. Paul  
 Timothy Eugene Maloney, Kennedy  
 Jean Elizabeth Manton, St. Paul  
 Lynn Margaret Brauch Marasco,  
 Minneapolis  
 Sally Mac Marshall, Minneapolis  
 Mary Margaret Mattison, Minneapolis  
 John Stephen McKeon, Minneapolis  
 Daniel Joseph Merrick, Minneapolis  
 John Edward Meusey, Storm Lake,  
 Iowa  
 Richard Krag Meyers, Rochester  
 Richard Lee Mielke, Hutchinson  
 Marraime M. Lueders Miller, Coon  
 Rapids  
 Rose Marie Mingo, White Bear Lake  
 Sally Sidney Silver Minter, Minneapolis  
 Leonard Thomas Mitsch, St. Paul  
 James Allen Mokres, Wayzata  
 Judith Ann Moll, St. Paul  
 Kathleen Helen Moore, Minneapolis  
 Barbara Elizabeth-Marie Mueller,  
 Richmond  
 Carole Jane Mustain, Minneapolis  
 Halyna Myroniuk, A.A., St. Paul  
 Wolfgang Franz Nauck, St. Paul  
 Jacqueline Kay Nesbitt, Bloomington  
 Harold Herbert Netkow, Minneapolis  
 Phillip Jon Nicolai, Hector  
 Barbara Jean Niles, Minneapolis,  
 CUM LAUDE, *Psychology*  
 John Thomas Nordeen, Mound  
 Richard Charles Oberg, Bloomington  
 Robert William Ogren, Jr., Robbinsdale  
 Linda Kay Oldefendt, Hope  
 David Lawrence Olson, Minneapolis  
 James Leonard Olson, St. Paul  
 James Wyman Olson, Minneapolis  
 Mary Evelyn Foster Olson, Robbinsdale

Francis Jude Olsrud, Graceville  
 Marcile Katherine Parent, St. Cloud  
 Thomas Hance Penn, Excelsior  
 Sandra Susan Peterson, Anoka  
 Patricia Susan Pinckney, Little Falls  
 Robert Clark Podewils, St. Paul  
 Janet Michaelle Polansky, Olivia  
 John Richard Potasnak, Minneapolis  
 Doris Emma Prairie, Marshall  
 Bente Raaen, St. Paul  
 June Alice Rамбоsek, St. Paul,  
 MAGNA CUM LAUDE, Psychology  
 Luz Mary Ramirez-Decamargo, Col-  
 ombia  
 Sharon Ann Ransom, Osseo  
 Neil Bennie Rasmussen, Minneapolis  
 Lucy Ellen Ramey Ray, Alexandria,  
 Va.  
 Robin Douglas Raygor, St. Paul, CUM  
 LAUDE, English  
 Douglas Lee Raymond, Fairmont  
 Jo Ann Walstedt Reid, Minneapolis  
 Marilyn Royetta Reid, New  
 Brighton  
 Daniel Thomas Reilly, Minneapolis  
 Sandra Sue Resner, Shafer  
 Martha Margaret Rice, Minneapolis,  
 SUMMA CUM LAUDE, Political Sci-  
 ence  
 Walter William Ritter, Jr., White  
 Bear Lake  
 Patricia Elizabeth Robertus, Minne-  
 apolis, MAGNA CUM LAUDE, Journal-  
 ism  
 Stephen Joseph Rood, Hopkins, CUM  
 LAUDE, Sociology  
 Coralyn Jane Roy, St. Paul  
 Phyllis Joanne Ryan, Minneapolis  
 Sheila Pauline Ryan, St. Paul  
 Brian Rockler Salita, St. Paul  
 Barbara Ann Saltzman, Minneapolis  
 Karen Christine Samuelson, Bloom-  
 ington  
 Thomas Benton Sanders, Minneapolis  
 John Russell Sandhoefner, Minne-  
 apolis  
 Barbara Jean Sather, Edina  
 Donald Sherman Sather, Mound  
 Michael Jon Sborov, Minneapolis  
 Mary Lucia Lufkin Scanlan, St. Paul  
 George Paul Schackel, A.A., Alexan-  
 dria, MAGNA CUM LAUDE, Zoology  
 Richard Henry Schema, Faribault  
 Mary Kathryn Schwartz, Minneapolis  
 Susan Evalyn Schwartz, St. Louis Park,  
 MAGNA CUM LAUDE, Sociology  
 Gerald Herbert Sevlie, St. Paul  
 Richard Raymond Shetler, Minne-  
 apolis  
 Sandra Jane West Sickler, White  
 Bear Lake  
 Rolf Norman Sigford, St. Paul  
 John M. Sisson, St. Paul  
 James Robert Sitton, Worthington  
 Nancy Ann Slocomb, Worthington  
 Wesley Roger Smith, Edina  
 Virginia Mary Stark, Edina  
 Stuart Steinman, St. Paul  
 Eva Ileana Stern, Minneapolis, CUM  
 LAUDE, English  
 Leslie Howard Stern, St. Louis Park  
 Donald Lee Stewart, Thief River Falls  
 Jean Frances Storm, Minneapolis  
 Paul Francis Sullivan, Minneapolis  
 Eleanore Deloris Swenson, Minne-  
 apolis  
 George Edward Thomas, Hopkins-  
 ville, Ky.  
 Elizabeth Ann Thompson, Mankato  
 Gerard Bixby Thompson, Minneapolis  
 Joseph Francis Timmers, Minne-  
 apolis  
 Ronald Neil Todd, West St. Paul  
 Donald Heinrich Tolzmann, Minne-  
 apolis  
 Mary Susan Tomcik, Niles, Ill.  
 Karen Marlene Tumborello, Chicago,  
 Ill., CUM LAUDE, Mathematics  
 William Andrew Velte, Minneapolis  
 Edmund Alan Vierzba, Brainerd  
 Robert Wayne Vockrodt, Minneapolis  
 Roberta Eunice Vogel, A.A., Sarasota,  
 Fla.  
 Harold Charles Von Rueden, St. Paul  
 Carole Jeanette Wahlquist, White  
 Bear Lake  
 William Edward Waldusky, Minne-  
 apolis  
 Mark Louis Walton, St. Paul  
 Susan Kaye Reynolds Wangaard, Ca-  
 ble, Wis.



Jeffrey Carl Wartchow, Minneapolis  
*John David Wilson, Minneapolis,*  
CUM LAUDE, *English*  
Barbara Lynn Wolner, St. Paul  
*Dinah Yessne, St. Paul,* MAGNA CUM  
LAUDE, *Psychology*

Barbara Nadia Kowalchuk Young,  
Minneapolis  
Robert Leonard Zimmerman, Still-  
water

## UNIVERSITY COLLEGE

### Bachelor of Arts

Lawrence Anthony Cable, Minne-  
apolis  
Spencer Peter Mack, Minneapolis

Renee Irene Korda Perkins, Pelican  
Rapids

### Bachelor of Science

Barbara Jean Hale, St. Paul

David Allen Singer, St. Paul

## INSTITUTE OF TECHNOLOGY

### Bachelor of Aeronautical Engineering

Corbett Loyd Alley, Minneapolis  
James Dale Haswell, Mahtomedi  
*LeRoy John Herbst, Glencoe,* WITH  
DISTINCTION

*Orville Dean Jordahl, Hartland,*  
WITH HIGH DISTINCTION  
Myles Thomas Lang, Le Center  
Jon Richard Peterson, Bayport

### Bachelor of Architecture

Richard P. Engan, Grove City  
Dennis LeRoy Kuchenmeister, Al-  
mena, Wis.

Arijs Pakalns, Minneapolis  
Robert Joseph Walsh, Jr., St. Paul

### Bachelor of Chemical Engineering

Dennis Gene Ordemann, Burnsville

### Bachelor of Chemistry

*Paul Robert Malchow, Minneapolis,*  
WITH DISTINCTION

David Eugene Sinclair, Minneapolis

## **Bachelor of Civil Engineering**

John Dwight Bartlett, St. Paul  
Robert James Benke, Thief River Falls  
Richard Albert DeWitt, Rochester  
Richard Allen Dick, Newport  
William Henry Hall, Massena, N.Y.  
Harold John Jacobson, Jr., Arlington Heights, Ill.  
John Alvin Korman, Alden  
Leonard John Kremer, Jr., Minneapolis

Gerald Jay Lindman, Minneapolis  
William George Pearson, Jr., St. Paul  
Robert Leroy Pletan, Wendell  
Roger Wayne Pocta, Pine City  
Steven Arlen Ronning, Boyd  
Richard John Stenstrom, Minneapolis  
Paul Vincent Michael Svercl, B.Ag.E.,  
Blooming Prairie

## **Bachelor of Electrical Engineering**

Thomas Allen Crewson, Cloquet

Robert Leon Folsom, Ogilvie

## **Bachelor of Geological Engineering**

Thomas John Malkovich, Gilbert

## **Bachelor of Mathematics**

Joseph Nickolas Schroeder, St. Paul

## **Bachelor of Mechanical Engineering**

Richard Jon Anderson, Hutchinson  
Alvin Charles Bruska, Buffalo  
Russell Clayton Devick, Breckenridge  
Gregory Lee Edlefsen, Richfield,  
WITH DISTINCTION  
Marvin Theodore Fabyanske, St. Paul,  
WITH HIGH DISTINCTION  
Chauncey Wright Griggs III, St. Paul  
Charles William Holt, Minneapolis  
Bruce Elroy Kallevig, Willmar  
Robert John King, Luverne  
Joel Elof Larson, Fergus Falls

Thomas Phillip Lentz, Minneapolis  
Harry LeRoy Martin, A.A., Rochester  
James Alan Martin, Minneapolis  
Howard Allan Nelson, Dawson  
Thomas James Ohman, Robbinsdale  
Paul Henry Plahn, St. Paul  
Jeffrey William Schmitt, St. Paul  
Wayne Alexander Spary, Fort William, Ontario, Canada  
Gary Alwin Vierling, Hopkins  
James Douglas Wilson, Orr

## **Bachelor of Mineral Engineering**

Lawrence Clifford Christenson, Windom

## **Bachelor of Science in Geology**

Christian Arthur Engen, White Bear Lake, WITH DISTINCTION

Gordon Russell Hess, Minneapolis

# COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

## Technical Certificate in Agriculture

Alan Lee Johnson, Gibbon

## Bachelor of Science

- Joan Carol Anderson, Minneapolis, Home Economics  
Roger Lyle Bultman, Fulda, Agriculture  
Michael John DeSanto, Duluth, Forestry  
Dwayne R. Diers, Waverly, Agriculture  
Douglas Richard Engebretson, Richfield, Agriculture  
Vernon Forsom Hansen, St. Paul, Agriculture, WITH DISTINCTION  
Gary Wayne Hareid, Albert Lea, Agriculture  
Daniel Boyd Holmberg, Vesta, Agriculture  
Larry Russell Hummer, Kiester, Agriculture, WITH DISTINCTION  
Ronald David Jenson, Hartland, Agriculture  
Ryon Claude Johnston, Buffalo, Agriculture, WITH DISTINCTION  
Robert William Jolly, Minneapolis, Agriculture, WITH DISTINCTION  
Leroy Charles Kohlmeyer, Caledonia, Agriculture  
Marie Ellen Kraft, Cannon Falls, Home Economics  
Arlan Ray Kuechenmeister, Wells, Agriculture  
Reino Wilfred Lahti, Cloquet, Agriculture  
Ronald Ernest Mattila, Minneapolis, Agriculture  
Michael Allan McFarlin, Blooming Prairie, Forestry  
Norman David Nelson, Cottonwood, Agriculture  
Allen Edward Novak, A.A., New Prague, Agriculture  
Judy Lee Parson, Elbow Lake, Home Economics  
Richard John Pearson, Gilbert, Forestry  
William Benidict Pesek, Minnesota, Agriculture  
John Charles Pokorney, Bertha, Agriculture  
Vaike Laine Radamus, Golden Valley, Home Economics, WITH HIGH DISTINCTION  
Barbara Louise Ryder, Minneapolis, Home Economics  
William John Schultz, Belle Plaine, Agriculture  
William Richard Scott, Augusta, Wis., Forestry  
Kenneth Charles Simons, West Allis, Wis., Agriculture, WITH HIGH DISTINCTION  
Robert Henry Spector, Minneapolis, Forestry, WITH DISTINCTION  
Howard Wayne Spinler, Rush City, Agriculture  
Paul David Stone, Minneapolis, Forestry  
Mary Loel Stroud, Braham, Home Economics  
John Arthur Williamson, A.A., Atwater, Agriculture, WITH DISTINCTION  
Peter Michael Zech, Maple Lake, Agriculture  
Jerry Leslie Zimmerman, Osseo, Agriculture

# COLLEGE OF EDUCATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

## Bachelor of Science

John Joseph Blissenbach, Tech. Cert. in Agr., Sauk Rapids, Agricultural Education	Paul F. Loomis, New Richland, Agri- cultural Education
Ronald Albert Erpelding, Watkins, Agricultural Education, WITH DIS- TINCTION	Susan Leona Meehan, Lake Elmo, Home Economics Education
Janice Elaine Erwin, North St. Paul, Home Economics Education	David Lee Morreim, Albert Lea, Ag- ricultural Education
James Alan Hofer, Wheaton, Agri- cultural Education	Sandra Lee Schuetz, Henderson, Home Economics Education

# SCHOOL OF BUSINESS ADMINISTRATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

## Bachelor of Agricultural Business Administration

Gary Charles Anderson, Rush City	James Stephen Mammen, Morton
Charles Victor Blastervold, Cannon Falls	Arthur John Otto, Winsted
Raymond Harold Davy, Brownsville	John Edward Vaubel, Mapleton

# COLLEGE OF EDUCATION

## Bachelor of Science

Janice Eleanor Abel, St. Paul	Jon Thomas Beske, Minneapolis
Jule Ceres Adams Adelsheim, Excel- sior	Betty Ann Brenner, Minneapolis, WITH DISTINCTION
Beverly Jean Anderson, Minneapolis, WITH DISTINCTION	Mary Louise Brooks, B.A., Minne- apolis
Neil Edward Anderson, A.A., Way- zata	Gerald Earl Broostin, Mora
Avis Swanson Archer, Minneapolis, WITH DISTINCTION	Gary Francis Browne, St. Paul
Christy Ann Bell, Minneapolis	Sharon Marie Burton, Minneapolis
Phyllis Mary Bergstedt, Anoka	Siu-Linn Chong, Minneapolis, WITH DISTINCTION
Helen Ruth Berry, St. Paul	Gordon Carl Christianson, Fridley
	Margaret Jean Davidson, Rochester

Diane Bridget Dehmer, St. Michael  
 Delphine Cecelia Denesen, St. Paul  
 Patrick Wayne Dolan, Minneapolis  
 Leona Mae Eckerman, Minneapolis  
*Judith Anne Egeland, Minneapolis,*  
 WITH DISTINCTION  
 Janet Kathleen Eian, Dalton  
 Edward Michael Feigh, Minneapolis  
 Gary Arnold Finch, West Bend, Wis.  
 Steven Arthur Fischer, Minneapolis  
 Janet Mary Forsberg, Minneapolis  
*Kathleen Marie McClellan Freiling,*  
 St. Paul, WITH DISTINCTION  
 Joanne Marjorie Fresk, Hadley  
 Nancy Ruth Frishe, Winter Haven,  
 Fla.  
 Harriet Toby Kohn Gallas, Minne-  
 apolis  
 Jeffrey Reid Gaskell, Minneapolis  
*Randa Lynn Radford Giles, Minne-*  
*apolis, WITH DISTINCTION*  
*Roberta Sue Stein Greengard, St.*  
*Paul, WITH DISTINCTION*  
*Jeanne Elizabeth Groh, St. Paul,*  
 WITH DISTINCTION  
 Joyce Ann Gross, Minneapolis  
 Joy M. Fernstrom Gustafson, Minne-  
 apolis  
 Nancy Ann Nei Gwiazdon, Goodhue  
 Donna Hawley Hagglund, B.F.A.,  
 Minneapolis  
 Diane Rae Hange, A.A., Austin  
 Judith Mary Healey, B.A., Minne-  
 apolis  
 Andrea Walling Hefty, B.A., Minne-  
 apolis  
*Paulette Diane Hoaglund, Minne-*  
*tonka, WITH DISTINCTION*  
 Adah Soshea Holman, Minneapolis  
 Anne Marie Homstad, B.A., Duluth  
*Carrolle Geurkink Hop, Baldwin,*  
 Wis., WITH HIGH DISTINCTION  
 Yvonne Sharon Israel, Minneapolis  
 Jean Elaine Lofstrand Jackman, Min-  
 neapolis  
 Linda Lou Jackson, Hopkins  
*Carol Louise Janson, Minneapolis,*  
 WITH DISTINCTION  
 Allan Mauritz Johnson, St. Cloud  
*Beverly Jean Johnson, Minneapolis,*  
 WITH HIGH DISTINCTION  
 Edda Marie Johnson, B.A., Hancock  
 Nancy Darlene Johnson, Cokato  
 Katherine Teresa Jungbauer, St. Paul  
*Mary June Ketcham, St. Paul, WITH*  
 DISTINCTION  
 Barbara McDevitt Kresoya, B.A.,  
 Edina  
 LynnNette Krieg, Minneapolis  
*Lois Kay Kulinsky, Chicago, Ill.,*  
 WITH HIGH DISTINCTION  
 Laurel Jolene Lapore, St. Paul  
 Ann Louise Larson, Hopkins  
 Jan Elin Larson, St. Paul  
 Sandra Jean Lommen, Coon Rapids  
 Michael Edward Lynch, A.A., Minne-  
 apolis  
*Velma Rebecca Manning, Minne-*  
*apolis, WITH HIGH DISTINCTION*  
 Linda Lee Manuel, St. Paul  
 Dianne Maureen Mattson, Minne-  
 apolis  
 James Andrew McCormack, Minne-  
 apolis  
 Bruce Henry Melander, Minneapolis  
 Barbara Jean Mihm, Hector  
 Rosemary Anne Miller, St. Paul  
*James David Montzka, A.A., St. Paul,*  
 WITH DISTINCTION  
 Edward Francis Moore, A.A., Buffalo  
 Vicky Lee Naas, Sherburn  
*Ann Tamminen Nachbar, Duluth,*  
 WITH DISTINCTION  
 Ann Rager Neher, Wabash, Ind.  
 Diane Roberta Nelson, Minneapolis  
*Bonnie Jo Newman, St. Paul, WITH*  
 DISTINCTION  
 Kristi Ruth Ann Olmanson, B.A., St.  
 Peter  
 Cheryl Ann Olson, St. Paul  
 Elizabeth Minna Olson, B.A., Still-  
 water  
*Phyllis Ann Olson, Minneapolis,*  
 WITH DISTINCTION  
 Barbara Jo Otteson, St. Paul  
 Jeanne Frances Palmer, Minneapolis  
 Gary Ronald Parsons, Minneapolis  
 Mary Jean Pearson, B.A., Hopkins  
 Theodora Bednarchuk Pearson, Min-  
 neapolis  
 Patricia Janet Peterson, Clear Lake  
 Nancy Kay Rapp, Cleveland

Betty Jean Recknor, Glenwood  
 Susan Ann Risvold, Edina  
 Barbara Christine Ryan, South St.  
 Paul  
 Judith Ann Sandberg, Minneapolis  
*Judith Anne Sandstrom, Minneapolis,*  
 WITH DISTINCTION  
*Richard Henry Schema, Faribault,*  
 WITH DISTINCTION  
 Steven James Silver, Minneapolis  
 Gayle Elizabeth Sommer, Owatonna  
 Carole Ann Stauff, St. Paul  
 Laurie Jane Tyson, B.A., Minne-  
 apolis  
 Mary Therese Vaidich, South St. Paul

Arlis Faye Vande Garde, Sioux Cen-  
 ter, Iowa  
 Nicholas Charles VanDuzee, Min-  
 neapolis  
 Glenda A. VerHoeven, Hull, Iowa  
 Estelle Kay Vollmers, Faribault  
 Shirley Irene Wahlberg, Minneapolis  
 Maribeth Wallden, St. Paul  
 Sue Ellen Whitman, White Bear  
 Lake, WITH HIGH DISTINCTION  
 Crystal Fae Wisen, St. Paul, WITH  
 DISTINCTION  
 Judith Ann Wojcik, Wayzata  
 Frank Michael Youso, International  
 Falls

### Master of Education

Clair Eugene Brunkow, B.A., Mah-  
 tomedi  
 Beryle M. Christesen, B.S., Edina

Nela Ann Haugen, B.S., Minne-  
 apolis

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Edward Robert Marshall, Brainerd

### Bachelor of Science in Business

*Richard Kabat Allendorf, Minneapolis,*  
 WITH DISTINCTION  
 James Ray Anderson, Minneapolis  
 Michael Howard Applebaum, St. Paul  
 Stephen Edward Arnold, Edina  
 Richard J. Barnes, Minneapolis  
 Harold Sidney Berman, Minneapolis  
 Curtis Bertsch, A.L.A., Minneapolis  
 John Orian Bjeldanes, Minneapolis  
 Thomas George Blexrud, Spring  
 Grove  
 Richard Ricketts Boyd, St. Paul  
 Phillip Coffing Bray, B.E.E., Minne-  
 apolis  
 Thomas James Cameron, Minneapolis  
 Max William Carlson, Minnetonka  
 David Leonard Christofferson, Min-  
 neapolis

Bruce Edward Clauson, Minneapolis  
 James Edward Cook, Minneapolis  
 James A. Corcoran, La Crescent  
 Jack Glover Davis, Minneapolis  
 James Joseph Doherty, St. Paul  
 Jeffrey James Dypwick, St. Louis Park  
 J. Michael Egan, Minneapolis  
 Keith Lowell Elliason, Isle  
 Jerry Lee Eskew, Birmingham, Mich.  
 William Joseph Fritz, New Ulm  
 Eugene Ira Gruenberg, B.E.E., Min-  
 neapolis  
 Donald Dwight Hanson, Cokato  
 Peter Joseph Herlofsky, Jr., Minne-  
 apolis  
 Thomas Richard Hughes, St. Paul  
 Donald Lee Jans, Arlington  
 Dennis Rae Klute, Minneapolis

Marvin Norman Thomas Lee, B.M.E.,  
M.S.M.E., St. Paul  
John Edward Lindahl, Hopkins  
Dale Richard Longfellow, Minne-  
apolis  
Henry Gilman Lykken III, Edina  
Jack Allen Makela, Virginia  
Richard Gary Mark, St. Louis Park  
William John Mason, South St. Paul  
William John Megarry, St. Cloud  
James Steven Miller, A.A., Minne-  
apolis  
Jerry Wayne Mulder, Bloomington  
Ronald Duane Munson, Minneapolis  
Richard Erick Noble, Minneapolis  
Thomas Robert Ondrey, Minneapolis  
David Stanley Otto, Redwood Falls  
David Wade Pehrson, Robbinsdale  
Thomas Vanhart Peterson, A.A., Bab-  
bitt  
Lyle Herbert Pichelman, Coon Rapids  
Richard Robert Reinhardt, Minne-  
apolis  
Curtis Gael Robinson, Minneapolis  
Dennis Michael Ross, A.A., St. Paul  
William Arthur Ross, Minneapolis  
Wallace Chester Schrade, Minneapolis  
Dean Gordon Schramm, B.A., Alex-  
andria  
Edward Francis Shelleny, St. Paul  
Rodger David Simonson, Benson  
Keith Bruce Sletten, Minneapolis  
Kenneth Lee Sorenson, Minneapolis  
Gary James Stava, Milroy  
Melvin Raymond Stolquist, Jr., Min-  
neapolis  
Richard Erland Swanson, Richfield  
Glenn Curtis Swenson, B.E.E., Min-  
neapolis  
Francis John Taillefer, Brooklyn Park  
Wendell Nels Truelson, Minneapolis  
Paige Van Vorst, Minneapolis  
Grant Tozer Waldref, Jr., Mahtomedi  
Arthur James Ward, Jr., St. Paul  
Alan Clay Westcott, Minneapolis  
Jack Leroy Wiebke, Bloomington

### **Bachelor of Science in Economics**

John Franklin Fiebiger, Blooming  
Prairie  
Gary Frank Krofchalk, A.A., Roch-  
ester, WITH DISTINCTION

## **COLLEGE OF MEDICAL SCIENCES**

### **Bachelor of Science in Nursing**

Sarah Hart Loofbourow, Minneapolis,  
WITH DISTINCTION  
Marilyn Ann Paquette, Glencoe, WITH  
DISTINCTION  
T. Elnore Slette, Minneapolis

### **Bachelor of Science**

Ingrid Birgitta Jonsson, St. Paul,  
Medical Technology\*  
Gary Lee Nystrom, B.A., Minneapolis,  
Medicine  
Jeanne Carolyn Olsen, Minneapolis,  
Medical Technology\*

### **Master of Public Health**

Robert William tenBensel, B.A., M.D., Minneapolis

\* These degrees are conferred subject to the completion of practical work prior to June 8, 1968.

# GRADUATE SCHOOL

## Master of Arts

Leonard Edgar Anderson, LaCrosse,  
Wis.

B.A. with highest honors '65, Wisconsin State College, LaCrosse. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

Wayne William Anderson, Fridley

B.S. '57, Indiana State Teachers College. Field of Concentration: History. Major Adviser: Prof. C. A. Chambers.

Thomas Royston Banks, St. Paul

B.A. '63, University of Minnesota. Field of Concentration: Classics. Major Adviser: Prof. D. C. Swanson.

Paul Edward Beckstrand, St. Paul

B.A. '48, University of Wisconsin; B.S. '59, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. N. P. Pearson.

Marlowe Jean Berg, Minneapolis

B.S. with distinction '60, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. E. T. Keach, Jr.

Carsten Olaf Bjornstad, Minneapolis

B.A. '60, Jamestown College. Field of Concentration: Music. Major Adviser: Prof. Johannes Riedel.

Peter Albert Bleed, Minneapolis

B.A. '65, University of Minnesota. Major: Anthropology. Minor: History. Thesis: The Archaeology of Petaga Point. The Pre-Ceramic Component. Major Adviser: Prof. O. E. Johnson.

Richard Wallace Blood, St. Paul

B.S. in Econ. with distinction '65, University of Minnesota. Field of Concentration: Geography. Major Adviser: Prof. W. J. Barrett.

Louise Claire Boedeker, Minneapolis

B.S. '62, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. G. R. Firth.

Charles Townley Brown, Barstow,  
Calif.

B.A. '66, University of California, Riverside. Field of Concentration: Music. Major Adviser: Prof. Johannes Riedel.

James Donnell Brown, Minneapolis

B.A. '55, Central Bible Institute. Field of Concentration: Speech, Communication and Theatre Arts. Major Adviser: Prof. W. S. Howell.

Antonio Carelli, São Paulo, Brazil

B. of Pedagogy '57, Lic. '57, Spec. in Ed.Psy. '64, Universidade de São Paulo. Field of Concentration: Psychology. Major Adviser: Prof. L. H. Lofquist.

Mary Kathryn Corrigan, Minneapolis

B.A. '64, University of Minnesota. Field of Concentration: Speech, Communication and Theatre Arts. Major Adviser: Prof. D. W. Thompson.

Harold Andrew Dahlgren, St. Paul

B.S. '50, Hamline University. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. N. P. Pearson.

Nanette Trexler Davis, St. Cloud

B.S. '62, St. Cloud State College. Major: Sociology. Minor: Anthropology. Thesis: Prostitution and Social Control: An Empirical Inquiry into the Socialization Process of Deviant Behavior. Major Adviser: Prof. D. A. Ward.

Craig Robb Ducat, Rochester, N.Y.

B.A. '66, Syracuse University. Major: Political Science. Minor: History. Thesis: An Inquiry into Judicial Decision Making. A Case Study in the Application of Obscenity Standards. Major Adviser: Prof. H. W. Chase.

Ralph Ernest Ehrenberg, Waconia

B.A. '63, University of Minnesota. Field of Concentration: Geography. Major Adviser: Prof. F. E. Lukermann.

Gerald Robert Elliott, Minneapolis

B.A. '53, Beloit College. Major: Political Science. Minor: History. Thesis: Financing Congressional Campaigns. Major Adviser: Prof. F. J. Sorauf.

Lloyd Erbaugh, Dayton, Ohio

B.A. '65, Manchester College. Field of Concentration: History. Major Adviser: Prof. O. P. Pfanze.



Engebret Grieg Erichsen, Bergen,  
Norway

NHH '64, Norwegian School of Economics and  
Business Administration. Field of Concentra-  
tion: Economics. Major Adviser: Prof. Herbert  
Mohring.

Judith Bowen Erickson, Minneapolis

B.A. '55, Wheaton College. Major: Sociology.  
Minor: Social Work. Thesis: American Youth  
Organizations: An Etiological Approach. Major  
Adviser: Prof. S. G. McNall.

Carolyn Frances Etheridge, Birming-  
ham, England

B.A. '66, University of Liverpool. Field of  
Concentration: Sociology. Major Adviser: Prof.  
Edward Gross.

Maureen Bell Farrell, Minneapolis

B.A. *cum laude* '63, University of Minnesota.  
Field of Concentration: Library Science. Major  
Adviser: Prof. L. E. Olson.

Mary Markham Faucett, Rochester

B.M.E. '39, University of Kansas. Field of  
Concentration: Educational Psychology. Major  
Adviser: Prof. W. W. Tennyson.

Philip Luverne Foster, Sauk Centre

B.S. '58, University of Minnesota. Field of  
Concentration: Educational Administration.  
Major Adviser: Prof. O. E. Domian.

Robert Joseph Frank, Minneapolis

B.A. *cum laude* '62, St. John's University.  
Field of Concentration: English. Major Ad-  
viser: Prof. J. C. Levenson.

James Gorden Fritzell, Minneapolis

B.A. *magna cum laude* '66, University of Min-  
nesota. Field of Concentration: Mass Com-  
munication. Major Adviser: Prof. R. B. Nixon.

Helen Johnson Gladwin, Minneapolis

B.A. *magna cum laude* '55, University of Min-  
nesota. Major: Speech Science, Pathology and  
Audiology. Minor: Psychology. Thesis: An  
Imitation-Correction Technique for Assessing  
Syntactic Skill of Kindergarten Children. Major  
Adviser: Prof. J. B. Chaiklin.

Roger Deen Haagenson, Minneapolis

B.A. '64, University of Minnesota. Field of  
Concentration: Industrial Relations. Major  
Adviser: Prof. H. G. Heneman, Jr.

Laurel Kristine Hansen, Park Ridge,  
Ill.

B.A. '58, St. Olaf College. Field of Concen-  
tration: Home Economics. Major Adviser:  
Prof. Gertrude Esteros.

Sister Helaine Harrer, St. Paul

B.A. '40, College of St. Benedict. Field of  
Concentration: Latin. Major Adviser: Prof.  
R. P. Sonkowsky.

Nancy Louise Haynes, Minneapolis

B.A. '66, St. Louis University. Field of Con-  
centration: English. Major Adviser: Prof. J. C.  
Levenson.

Mary Jeanne Heiges, Minneapolis

B.A. '62, College of St. Catherine. Major:  
Library Science. Minor: History. Thesis: A  
Study of the Use of Journals in the Bio-  
Medical Library of the University of Minne-  
sota. Major Adviser: Prof. Wesley Simonton.

John Rowland Higgins, London, Eng-  
land

B.Sc. '62, University of London. Field of Con-  
centration: Mathematics. Major Adviser: Prof.  
Edgar Reich.

L. Denis Hlynka, Winnipeg, Mani-  
toba, Canada

B.S. '63, Cert. in Ed. '64, University of Mani-  
toba. Field of Concentration: Curriculum and  
Instruction. Major Adviser: Prof. N. P. Pearson.

Ola Belle Humphries, Tuscaloosa, Ala.

B.A. '61, University of Alabama. Field of Con-  
centration: English. Major Adviser: Prof. C.  
H. Foster.

Sigrid Aino Maria Lepistö Husen, St.  
Louis Park

B.S. '51, University of Minnesota. Field of  
Concentration: Educational Psychology. Major  
Adviser: Prof. J. C. Manning.

Donald Robert Johnson, Minneapolis

B.A. *cum laude* '57, B.S. '65, University of  
Minnesota. Field of Concentration: Library  
Science. Major Adviser: Prof. Yvonne Van  
der Boom.

Stephen M. Johnson, Minneapolis

B.A. '65, University of Minnesota. Major:  
Economics. Minor: Psychology. Thesis: De-  
terminants of Occupational Earnings Differen-  
tials. Major Adviser: Prof. N. J. Simler.

James Roy Jordan, Fort Collins, Colo.  
Field of Concentration: History. Major Adviser: Prof. T. B. Jones.

Daniel Alexander Kelly, Jr., Minneapolis

B.S. '58, St. Mary's College. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. W. Tennyson.

Robert Dean Kendall, Minneapolis

B.A. '54, University of Denver. Field of Concentration: Speech, Communication and Theatre Arts. Major Adviser: Prof. K. L. Graham.

Alvin Kienetz, Winnipeg, Manitoba, Canada

B.A. '64, University of Manitoba. Field of Concentration: Geography. Major Adviser: Prof. J. W. Webb.

Martha Jean Kim, Kansas City, Mo.

B.A. *cum laude* '61, Webster College. Field of Concentration: Speech, Communication and Theatre Arts. Major Adviser: Prof. F. M. Whiting.

Harvey Lee Klevar, Angleton, Tex.

B.A. '59, University of St. Thomas. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Robert William Korpi, Aurora

B.S. '64, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. H. C. Johnson.

Martha Bell Laxson, Hilo, Hawaii

B.A. '62, College of William and Mary in Virginia. Field of Concentration: Library Science. Major Adviser: Prof. D. K. Berninghausen.

Thomas Henry Leinfelder, Minneapolis

B.A. '65, University of Minnesota. Major: Mass Communication. Minor: Psychology. Thesis: A Comparison of Newspaper Editors' Estimates of Consumer Attitudes Toward Direct Mail Advertising: With the 1964 Nielsen Survey of Consumer Attitudes. Major Adviser: Prof. R. L. Jones.

Kathe Louise Lemmerman, Austin

B.A. '66, American University. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Roy Conrad Lepak, St. Paul

B.A. '58, M.A. '62, St. Paul Seminary. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. W. Tennyson.

Robert Allan Lorfald, Clarissa

B.S. '63, University of Minnesota. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Marion Barr Lindblad, Cuyahoga Falls, Ohio

B.A. '65, Ohio Wesleyan University. Field of Concentration: Psychology. Major Adviser: Prof. R. D. Wirt.

Rolando Lopez, Cochabamba, Bolivia

B.H. '54, Universidad Técnica de Oruro, Bolivia; Cert. Law, S.S. and Pol. '62, Universidad Mayor de San Simón, Bolivia. Field of Concentration: Sociology. Major Adviser: Prof. G. A. Donohue.

Tatjana Bujas Lorkovic, Beograd, Yugoslavia

B.A. '57, University of Zagreb, Yugoslavia. Field of Concentration: Library Science. Major Adviser: Prof. D. K. Berninghausen.

John Kenneth Luoma, Minneapolis

B.A. *summa cum laude* '65, Augsburg College. Field of Concentration: History. Major Adviser: Prof. B. K. Marshall.

Sara Margaret Matson, Libertyville, Ill.

B.A. '65, Carleton College. Field of Concentration: Comparative Literature. Major Adviser: Prof. G. H. Weiss.

Charles Richard McCabe, Virginia

B.A. *summa cum laude* '64, Moorhead State College. Field of Concentration: English. Major Adviser: Prof. J. C. Levenson.

William Plough McLain, Minnetonka

B.S. '51, University of Minnesota. Field of Concentration: Industrial Education. Major Adviser: Prof. H. F. Nelson.

John Rodney Meyer, Morrison, Colo.

B.A. '60, Brown University. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

George Lee Mitchell, Decatur, Ga.

B.A. '66, Emory University. Field of Concentration: Mass Communication. Major Adviser: Prof. M. V. Chamley.

**Leonard Elmer Munstermann, Correll**  
B.A. '64, University of Minnesota. Field of Concentration: Zoology. Major Adviser: Prof. F. G. Wallace.

**Carol Ann Cobb Nettleton, New Brighton**

B.A. '63, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. B. E. Balow.

**Winston Garland Newbury, King's Point, Green Bay, Newfoundland, Canada**

B.A. (Ed.) '63, Memorial University of Newfoundland. Field of Concentration: Industrial Education. Major Adviser: Prof. H. F. Nelson.

**Lilia Roasa Oblepias, Luisiana, Laguna, Philippines**

B.A. '52, Philippine Christian Colleges. Field of Concentration: Industrial Relations. Major Adviser: Prof. H. G. Heneman, Jr.

**Sister M. Cecilia O'Connor, St. Paul**

B.A. '65, College of St. Catherine. Field of Concentration: English. Major Adviser: Prof. J. C. Levenson.

**Mary Catherine O'Keeffe, Cambria Heights, N.Y.**

B.S. '59, State University of New York. Field of Concentration: Geography. Major Adviser: Prof. F. E. Lukermann.

**James Sheldon Omdal, Minneapolis**

B.S. with distinction '62, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. D. Hall.

**Ruth Warren Orensteen, St. Paul**

B.A. '41, Hamline University; B.S. '55, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. B. E. Balow.

**Maia Pank, Minneapolis**

B.S. '64, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. S. B. Kessler.

**Daniel Frank Paskewitz, St. Paul**

B.A. '65, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. L. Snoke.

**Ronald Gordon Perrier, Stillwater**

B.S. '62, Wisconsin State University, River Falls. Field of Concentration: Speech, Communication and Theatre Arts. Major Adviser: Prof. D. W. Thompson.

**Karen Larson Poné, Braham**

B.S. '57, University of Minnesota. Major: Music. Minor: History. Thesis: Piano Music of Max Reger. Major Adviser: Prof. Johannes Riedel.

**Frances Kaye Pullen, Memphis, Tenn.**

B.S. '66, Memphis State University. Major: Mass Communication. Minor: History. Thesis: Changing Dimensions of Press Freedom: A Study of *New York Times Co. v. Sullivan* and Its Impact. Major Adviser: Prof. J. E. Gerald.

**Rosalind Itzkowitz Reiss, New York, N.Y.**

B.S. '64, Skidmore College. Field of Concentration: Educational Psychology. Major Adviser: Prof. F. B. Wilderson.

**Bruce Edward Richardson, Austin**

B.A. '58, Bethel College. Field of Concentration: History. Major Adviser: Prof. D. W. Noble.

**Leslie Harris Romer, Minneapolis**

B.A. '65, Mt. Holyoke College. Field of Concentration: Library Science. Major Adviser: Prof. R. H. Shove.

**Eleanore Marie Saari, Minneapolis**

B.A. *summa cum laude* '65, University of Minnesota. Field of Concentration: Geography. Major Adviser: Prof. F. E. Lukermann.

**Donald Lloyd Scherfenberg, Mendota Heights**

B.S. '62, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. D. A. Crawford.

**Mary Margaret Schoeneberger, Perham**

B.A. '63, College of St. Catherine. Field of Concentration: Education. Major Adviser: Prof. C. H. Boeck.

**Yung-Cheng Shang-Kuan, Taiwan, China**

B.A. '64, National Taiwan University. Field of Concentration: Economics. Major Adviser: Prof. Edward Coen.

Sister Bonnie Lou Skell, Racine, Wis.  
B.A. '66, Dominican College. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

Norman Timothy Slade, Winona  
B.A. '61, Amherst College. Field of Concentration: Classics. Major Adviser: Prof. D. C. Swanson.

Gene Arnold Smith, Minneapolis  
B.A. '58, Valparaiso University. Field of Concentration: Educational Psychology. Major Adviser: Prof. D. H. Blocher.

Charles Theodore Stephens, Detroit, Mich.  
B.A. *cum laude* '60, B.S. '62, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. S. B. Kegler.

L. Card Suplick, Minneapolis  
B.A. '65, University of Minnesota. Field of Concentration: History. Major Adviser: Prof. R. C. Loehr.

Kathleen Roberta Taylor, Bismarck, N.D.  
B.S. in Ed. '63, University of North Dakota. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. C. Reynolds.

Kerry Arnold Trask, Orillia, Ontario, Canada  
B.A. *cum laude* '65, Hamline University. Major: History. Minor: Political Science. Thesis: A Revolution in the Northern Mind: A Study of the Changing Interpretation of Political Authority in Revolutionary Vermont and New Hampshire. Major Adviser: Prof. J. R. Howe, Jr.

Donna Schut Vander Slik, Duluth  
B.A. '62, Calvin College. Field of Concentration: English. Major Adviser: Prof. W. P. Glick.

Christina Broberg von Seggern, St. Louis Park  
B.A. '65, Purdue University. Field of Concentration: History. Major Adviser: Prof. O. P. Pflanze.

Arnold Weisman Walker, Minneapolis  
B.A. *cum laude* '62, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. N. P. Pearson.

Charles Rudolph Watrall, New York, N.Y.  
B.A. '65, Hunter College. Major: Anthropology. Minor: Geology. Thesis: An Analysis of Bone, Stone and Shell Materials of the Cambria Focus. Major Adviser: Prof. O. E. Johnson.

Sister Mary Brian Weber, LaCrosse, Wis.  
B.S. in Ed. '66, Viterbo College. Field of Concentration: Sociology. Major Adviser: Prof. D. A. Martindale.

Carol Elizabeth Woehrer, Minneapolis  
B.A. *magna cum laude* '64, University of Minnesota. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Charles John Zander, Berwyn, Ill.  
B.A. '64, Washington University, St. Louis. Field of Concentration: Speech, Communication and Theatre Arts. Major Adviser: Prof. R. D. Moulton.

## Master of Business Administration

Ronald Newell Bagley, Salt Lake City, Utah  
B.S. with honors '62, University of Utah. Field of Concentration: Business Administration. Major Adviser: Prof. R. G. Berryman.

Ronald Gene Decker, Bloomington  
B.S. '55, Iowa State College. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Paul Richard Havig, St. Paul  
B.S. in Ch.E., B.S. in B.A. '63, University of North Dakota. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Robert Edward Hendrix, Little Rock, Ark.  
B.S. '66, Northern Michigan University. Field of Concentration: Business Administration. Major Adviser: Prof. R. K. Gaumnitz.

Francis Craig Jilk, Winona

B.S.B. '61, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Kenneth Bruce Lippin, Eau Claire, Wis.

B.A. *cum laude* '61, Northland College. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Michael Francis Mee, Brighton, Mass.

B.S.A. with high honors '66, Bentley College. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Henry Eugene Menzel, Aitkin

B.B.A. '58, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Thomas Edward Oram, Minneapolis

B.A. '66, Gustavus Adolphus College. Field of Concentration: Business Administration. Major Adviser: Prof. D. C. Hastings.

Steven Noel Sorensen, Minneapolis

B.A. with honors '66, St. Cloud State College. Field of Concentration: Business Administration. Major Adviser: Prof. R. L. Kozelka.

Joseph Peter Vogel, Springfield

B.S. '58, South Dakota State College of Agriculture and Mechanic Arts. Field of Concentration: Business Administration. Major Adviser: Prof. C. A. Williams, Jr.

## Master of Fine Arts

Nicholas Frank DeJoria, Jr., New York, N.Y.

B.A. '65, Hofstra College. Field of Concentration: Theatre Arts. Major Adviser: Prof. Theodore Herstand.

Jan Robert Pearce, North Tonawanda, N.Y.

B.A. '64, University of Redlands. Field of Concentration: Theatre Arts. Major Adviser: Prof. M. M. Klein.

Janet Rae Pearce, North Platte, Neb.

B.A. '64, Midland College. Field of Concentration: Theatre Arts. Major Adviser: Prof. M. M. Klein.

## Master of Science

Edwina May Anderson, Warren, Pa.

B.S. in N. *cum laude* '66, St. Olaf College. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Frances Brink Berg, Hettinger, N.D.

B.S. in Home Economics '54, Montana State College. Major: Home Economics. Minor: Anthropology. Thesis: Orientation and Marital Satisfaction of Wives of University Students. Major Adviser: Prof. Irving Tallman.

Pierre Albert Beynet, Nantes, France

Ingenieur '66, University of Nantes, France. Field of Concentration: Mechanics and Materials. Major Adviser: Prof. Robert Plunkett.

Ann Louise Bluhm, Altoona, Pa.

B.S. in N. '53, The Catholic University of America. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Harry John Bredfeldt, Jr., Lombard, Ill.

B.S. in For. *cum laude* '66, University of Missouri. Field of Concentration: Forestry. Major Adviser: Prof. H. L. Hansen.

Shirley Frances Cadman, Evansville, Wis.

B.S.(Ag.) '64, University of Wisconsin. Major: Biochemistry. Minor: Veterinary Physiology and Pharmacology. Thesis: An Investigation of Mink Milk. Major Adviser: Prof. Robert Jenness.

Alain Cardou, Nantes, France

Ingenieur '66, École Nationale Supérieure de Mécanique, France. Field of Concentration: Mechanics and Materials. Major Adviser: Prof. W. H. Warner.

Teh-ning Chu, Süchow, Kiangsu,  
China

B.S. '64, National Taiwan University. Field of Concentration: Botany. Major Adviser: Prof. T. K. Soulen.

Patricia Anne Crerar, Leamington,  
Ontario, Canada

B.Sc. in N. '63, University of Western Ontario. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. G. K. Lewis.

Bobby Dean Cutler, Boise, Idaho

B.B.A. '66, Idaho State University. Field of Concentration: Business Administration. Major Adviser: Prof. E. H. Lewis.

John Julius Dallman, White Bear  
Lake

B.A. '66, University of Minnesota. Field of Concentration: Biometry. Major Adviser: Prof. G. E. Bartsch.

Joseph Thornton Eastman, Minne-  
apolis

B.A. '66, University of Minnesota. Major: Zoology. Minor: Anatomy. Thesis: Cardiovascular Senescence in the Carp *Cyprinus carpio* (Linn.). Major Adviser: Prof. W. S. Herman.

Charles Thomas Feig, Minneapolis

B.A. *magna cum laude* '65, Augsburg College. Field of Concentration: Physics. Major Adviser: Prof. C. J. Waddington.

Paul Tillman Fuchs, Fairmont

B.S. with distinction '66, University of Minnesota. Field of Concentration: Forestry. Major Advisers: Profs. R. A. Skok and R. D. Thompson.

Farouk Habib Gharib, Baghdad, Iraq

B.Sc. '61, University of Baghdad, Iraq. Field of Concentration: Animal Husbandry. Major Adviser: Prof. L. E. Hanson.

Kerstin Olsson Griffin, Ornö, Sweden

Filosofie Magister '63, University of Stockholm, Sweden. Field of Concentration: Botany. Major Adviser: Prof. H. E. Wright, Jr.

Jerry Dean Hawton, Redwood Falls

B.S. '64, University of Minnesota. Field of Concentration: Animal Husbandry. Major Adviser: Prof. R. J. Meade.

Joan DeMuth Healy, Los Angeles,  
Calif.

B.S. '64, Long Beach State College. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. M. I. Harris.

James Drynan Henderson, Jr., Water-  
loo, Iowa

D.V.M. '65, Iowa State University. Major: Pathology. Minor: Microbiology. Thesis: A Comparative Study of Growth Rates, Hematologic and Serum Protein Values and Morphologic Features Between Germfree and Conventional Mice. Major Adviser: Dr. J. L. Titus.

David Matthew Hoppe, Pine Island

B.A. '64, University of Minnesota. Field of Concentration: Zoology. Major Adviser: Prof. N. T. Spratt, Jr.

Leland Stuart Jahnke, Minneapolis

B.A. '61, University of Minnesota. Field of Concentration: Botany. Major Adviser: Prof. T. K. Soulen.

James Robert Johnson, Isanti

B.S. in Pharm. '62, University of Minnesota. Major: Pharmaceutics. Minor: Physical Chemistry. Thesis: Regulation of Dissolution Rate by Particulate Shape. Major Adviser: Prof. E. G. Rippie.

Phillip Marlo C. Johnson, Palo Alto,  
Calif.

B.A.(Chem.) '66, University of California, Santa Barbara. Major: Physical Chemistry. Minor: Physics. Thesis: The Analysis of the  $\nu_3$ ,  $\nu_4$  and  $2\nu_4$  Vibration-Rotational Bands of Monofluoroacetylene. Major Adviser: Prof. R. W. Lumry.

Richard Dwight Kilby, Minneapolis

B.S. '62, University of Minnesota. Major: Dairy Husbandry. Minor: Biometry. Thesis: The Effect of Starch Source on Organic Acid Production in the Ruminant. Major Adviser: Prof. C. L. Cole.

Paula Beth Knuth, Menomonee Falls,  
Wis.

B.S.(H.E.) '63, University of Wisconsin. Major: Home Economics. Minor: Biometry. Thesis: Effect of Blanching Methods and Frozen Storage on Chlorophyll Retention in Green Beans. Major Adviser: Prof. I. T. Noble.

Louise Katherine Lemke, Cadott, Wis.

B.S. in N. *cum laude* '48, Marquette University. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. G. K. Lewis.

William Clarke Maguire, Ellicott  
City, Md.

B.A. '64, Harvard College. Major: Physics.  
Minor: Mathematics. Thesis: Elastic Scattering  
of 16-MeV Protons from Zn<sup>64</sup>, Cu<sup>65</sup> and Zr<sup>90</sup>.  
Major Adviser: Prof. G. W. Greenlees.

Leslie Howard Milstein, Minneapolis

B.S. with high distinction '63, University of  
Minnesota. Field of Concentration: Speech  
Science, Pathology and Audiology. Major Ad-  
viser: Prof. C. D. Starr.

Barbara Carol Minchin, Haddon  
Heights, N.J.

B.S.(Nursing) '60, University of Bridgeport.  
Field of Concentration: Psychiatric Nursing.  
Major Adviser: Prof. G. K. Lewis.

Richard Harold Morrison, Van Nuys,  
Calif.

B.S. '65, California State Polytechnic College.  
Major: Plant Pathology. Minor: Entomology.  
Thesis: Relationships of *Cylindrocodium flori-  
danum* and *C. scoparium* to Soil and Host  
Plants. Major Adviser: Prof. D. W. French.

Damodar Ganapu Naik, Mysore, India

B.Sc.(Agri.) '65, Karnatak University, India.  
Field of Concentration: Nutrition. Major Ad-  
viser: Prof. J. D. Donker.

Harold Decantillon Nathan, Minne-  
apolis

B.A.(Geol.) '64, University of California. Field  
of Concentration: Geology. Major Adviser:  
Prof. J. A. Grant.

Janice Margaret Olsen, Robbinsdale

B.A. *magna cum laude* '65, University of  
Minnesota. Major: Biochemistry. Minor: Ge-  
netics. Thesis: Host DNA Breakdown in  
*Escherichia coli* B Infected with T 4 Bac-  
teriophage Mutant amN122. Major Adviser:  
Prof. H. R. Warner.

David Theodore Olson, Edina

B.A. '63, University of Minnesota. Field of  
Concentration: Business Administration. Major  
Adviser: Prof. John Neter.

Yaungja Park, Suwon, Korea

B.S. in Home Econ. '64, Seoul National Uni-  
versity, Korea. Major: Home Economics.  
Minor: Biochemistry. Thesis: Gas-Liquid  
Chromatographic Determination of Amino  
Acids in Typical Korean Foods. Major Adviser:  
Prof. R. J. Simy.

Joseph Corbin Parker, Jr., Rochester

B.A. '58, Virginia Military Institute; M.D.  
'62, Medical College of Virginia. Major: Pa-  
thology. Minor: Hematology. Thesis: Clinico-  
pathologic Study of Pulmonary Hemorrhages  
in the Newborn. Major Adviser: Dr. A. L.  
Brown, Jr.

Ira Phillips, Minneapolis

B.A. '59, University of Minnesota. Field of  
Concentration: Library Science. Major Adviser:  
Prof. Wesley Simonton.

Richard Neumann Pierson, Minne-  
apolis

B.S. '63, University of Minnesota. Field of  
Concentration: Forestry. Major Adviser: Prof.  
J. M. Hughes.

Gordon Roy Pryor, Mendota Heights

B.S. '60, St. Cloud State College. Major: Ge-  
netics. Minor: Plant Physiology. Thesis: In-  
vestigation of Differential Accumulation of Cal-  
cium, Potassium and Phosphorus in Barley.  
Major Adviser: Prof. D. C. Rasmussen.

Gyles Wade Randall, Wanamingo

B.S. '63, University of Minnesota. Major: Soil  
Science. Minor: Agricultural Economics. The-  
sis: An Investigation of the Variability in Fer-  
tility of Various Fertilized Minnesota Soils.  
Major Adviser: Prof. Janis Grava.

Peter Dexter Rosenow, Minneapolis

B.S.B. '66, University of Minnesota. Field of  
Concentration: Business Administration. Major  
Adviser: Prof. G. W. Dickson.

H. Gerritt Rosenthal, Milwaukee,  
Wis.

B.A. '65, Reed College. Major: Biochemistry.  
Minor: Organic Chemistry. Thesis: Infrared  
Analysis of Corticosteroidyl C-21 Glucuron-  
sides. Major Adviser: Prof. Frank Ungar.

Mary Goehle Rowe, Tyler

B.S. with high distinction '65, University of  
Minnesota. Major: Nutrition. Minor: Biom-  
etry. Thesis: Some Basic Parameters of a  
Teratogen Induced Folic Acid Deficiency in  
Pregnant Rats. Major Adviser: Prof. L. M.  
Morse.

Daryl John Sauer, St. Paul

B.S. '66, University of Minnesota. Major:  
Forestry. Minor: Civil Engineering. Thesis:  
The Effects of Moisture, Temperature, and  
Stress Level of the Flexural Creep Behavior  
of Hardboard. Major Adviser: Prof. J. G.  
Haygreen.

Robert Earl Schneider, Minneapolis

B.A. '65, University of Minnesota. Field of Concentration: Public Health. Major Adviser: Prof. B. W. Brown, Jr.

Jerry Albert Sievers, Farmington

B.A. with honor '63, Mankato State College. Major: Physics. Minor: Mathematics. Thesis: A Source of Polarized Protons for the Minnesota Proton Linear Accelerator. Major Adviser: Prof. G. W. Greenlees.

Emily Ann McKean Smith, St. Paul

B.S.(Nursing) '56, Oklahoma Baptist University. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. G. M. Sarosi.

Rex Joseph Smith, Bryan, Ohio

B.S. in Agri. '65, Ohio State University. Field of Concentration: Agricultural Economics. Major Adviser: Prof. T. R. Nodland.

Sara Lyons Zeece Sudo, Minneapolis

B.A. *summa cum laude* '65, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Extracellular Cell Wall Lytic Enzyme System From *Myxococcus xanthus*. Major Adviser: Prof. Martin Dworkin.

Franklin Hugh Tainter, Guttenberg,  
Iowa

B.S. in For. with honors '64, Montana State University. Major: Plant Pathology. Minor: Botany. Thesis: The Biology of Eastern Dwarf Mistletoe (*Arceuthobium pusillum* Peck). Major Adviser: Prof. D. W. French.

Armand Ronald Tjong-A-Hung,  
Paramaribo, Surinam

B.S. '65, University of Minnesota. Field of Concentration: Animal Husbandry. Major Adviser: Prof. L. E. Hanson.

Gary Arlen Volz, Rockville, Md.

B.S.(G.E.) '66, Agricultural and Mechanical College of Texas. Major: Geophysics. Minor: Physics. Thesis: Seismic Investigation of the River Falls Basin in Western Wisconsin and Part of the St. Croix Horst in Southeastern Minnesota. Major Adviser: Prof. H. M. Mooney.

Richard Alex Wallen, Fort Dodge,  
Iowa

B.S. '64, Iowa State University. Major: Physics. Minor: Electrical Engineering. Thesis: Pair Spectrometer Detection System. Major Adviser: Prof. N. M. Hintz.

Stephen Gerald Weiss, Minneapolis

B.S. '65, University of Wisconsin. Major: Organic Chemistry. Minor: Biochemistry. Thesis: The Biogenesis of the Lycopodium Alkaloids. Major Adviser: Prof. Edward Leete.

Jane Idell Wenger, Halifax, Pa.

B.S. *cum laude distinctione* '65, Elizabethtown College. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Purification and Properties of Skeletal Muscle UDPG:  $\alpha$ -1,4-Glucan  $\alpha$ -4-Glucosyl Transferase I Kinase: Characterization of Two Different Activity Forms of the Enzyme. Major Adviser: Prof. Joseph Lerner.

Sister Mary Rosalie Whalen, Du-  
buque, Iowa

B.A. '53, Loras College. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. G. K. Lewis.

Jorge Mario Yáñez, Concepción, Chile

Chem.Eng. '62, Universidad de Concepción, Chile. Major: Physics. Minor: Mathematics. Thesis: Nuclear Magnetic Resonance in Terbium Metal in the Ferromagnetic State. Major Adviser: Prof. W. V. Weyhmann.

## Master of Science in Chemical Engineering

Yolanda Elena Shirley, Panama, Re-  
public of Panama

B.Ch.E. '65, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Facilitated Transport of Carbon Dioxide. Major Adviser: Prof. K. H. Keller.



## Master of Science in Civil Engineering

Robert Eldon Knudson, St. Louis Park  
B.C.E. '63, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. W. T. Graves.

Pin-Hsun Kuo, Taiwan, Republic  
of China

B.Sc. '59, Taiwan Provincial Cheng Kung University. Field of Concentration: Civil Engineering. Major Adviser: Prof. W. T. Graves.

Byung-Hai Lee, Seoul, Korea

B.S.Arch.E. '59, M.S. '61, Han Yang University, Korea. Field of Concentration: Civil Engineering. Major Adviser: Prof. L. E. Goodman.

Larry Allen Muller, Mankato

B.C.E. '66, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. C. E. Bowers.

## Master of Science in Dentistry

Richard Gayus Ogle, Marshall

B.S. '62, D.D.S. '64, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: The Dynamics of Wound Healing in Oral Mucoperiosteal Flaps in Relation to Saliva. Major Adviser: Dr. D. E. Waite.

## Master of Science in Electrical Engineering

Frederick Roggeman Faxvog, Minneapolis

B.S. with distinction '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Self Locking in HeNe (Helium-Neon) Lasers. Major Adviser: Prof. J. A. Carruthers.

Harry Anthony Hennen, Jr., Morris

B.E.E. with high distinction '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Miniature Piezoelectric Transducers for Broadband Noise Measurements. Major Adviser: Prof. R. F. Lambert.

Nelson Ray Zagalsky, Minneapolis

B.S.E.(Physics) '62, University of Manitoba. Major: Electrical Engineering. Minor: Mathematics. Thesis: A New Formation of a Classification Procedure. Major Adviser: Prof. J. H. Park, Jr.

## Master of Science in Industrial Engineering

Ananthaiah Hebbbar, Coondapoor,  
India

B.Sc. '58, University of Madras, India; B.E. in E.T. '61, M.E. in E.E. '63, Indian Institute of Science. Field of Concentration: Industrial Engineering. Major Adviser: Prof. R. S. Nyquist.

Kunal Chandra Kamran, New Delhi,  
India

B.E. with honors '64, University of Jabalpur, India. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Luis Manuel Pellerano, Santo Domingo, Dominican Republic

Ing. '64, Universidad de Santo Domingo, Dominican Republic. Field of Concentration: Industrial Engineering. Major Adviser: Prof. R. S. Nyquist.

Natarajan Viswanath, Bangalore,  
India

B.E.(Mech.) '63, University of Mysore, India. Field of Concentration: Industrial Engineering. Major Adviser: Prof. R. S. Nyquist.

## Master of Science in Mechanical Engineering

Sidharta Das-Mukerji, Calcutta, India  
B.Tech. with honors '62, Indian Institute of  
Technology, India. Field of Concentration:  
Mechanical Engineering. Major Adviser: Prof.  
J. L. Threlkeld.

Duane Allen Perrin, Albert Lea  
B.M.E. with distinction '66, University of  
Minnesota. Field of Concentration: Mechanical  
Engineering. Major Adviser: Prof. D. A.  
Frohrib.

## Master of Science in Medicine (Internal)

George Walcott, Milwaukee, Wis.  
B.A. '54, Harvard College; M.D. '62, Boston  
University. Major: Medicine (Internal). Minor:  
Pathology. Thesis: Primary Pulmonary Hyper-  
tension. Major Adviser: Dr. L. G. Bartholo-  
mew.

## Master of Science in Metallurgical Engineering

Fernando Jorge Dick, Oruro, Bolivia  
Min.Eng. '62, Universidad Técnica de Oruro,  
Bolivia. Major: Metallurgical Engineering.  
Minor: Mineral Engineering. Thesis: Sulpha-  
dization and Separation of Sulphadized Cas-  
siterite and Iron Minerals. Major Adviser: Prof.  
A. C. Dorenfeld.

Katuyuki Takahashi, Chiba, Japan  
B.S.E. '59, Kyoto University, Japan. Field of  
Concentration: Metallurgical Engineering. Ma-  
jor Adviser: Prof. J. E. Lawver.

## Master of Science in Mineral Engineering

Thomas Earl Cherrier, Lancaster,  
Wis.  
B.S.Min.E. '60, Wisconsin State University.  
Field of Concentration: Mineral Engineering.  
Major Adviser: Prof. E. P. Pfeider.

Abbasali Daneshy, Tehran, Iran  
M.S. '64, University of Tehran, Iran. Field of  
Concentration: Mineral Engineering. Major  
Adviser: Prof. D. H. Yardley.

Robert Gary Lundquist, Denver,  
Colo.  
E.M. '64, Colorado School of Mines. Major:  
Mineral Engineering. Minor: Mechanical Engi-  
neering. Thesis: Rock Drilling Characteristics  
of Hemispherical Insert Bits. Major Adviser:  
Prof. Charles Fairhurst.

Naaman Peleg, Haifa, Israel  
B.S. in Min.E. '65, Israel Institute of Tech-  
nology. Major: Mineral Engineering. Minor:  
Civil Engineering. Thesis: The Use of High  
Modulus Inclusion for In-Situ Stress Determi-  
nation in Visco-Elastic Rocks. Major Adviser:  
Prof. Charles Fairhurst.

## Master of Science in Neurosurgery

Thomas Patrick Kenefick, St. Paul

B.S. '58, M.D. '60, University of Minnesota. Major: Neurosurgery. Minor: Basic Neurological Sciences. Thesis: An Evaluation of the Organization of the Vagus Nerve by Ultrastructural Techniques with Special Reference to Unmyelinated Fibers. Major Adviser: Dr. C. S. MacCarty.

## Master of Science in Orthopedic Surgery

James MacDonald Burkhart, Augusta, Ga.

M.D. '58, University of Tennessee. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Hormones in Immobilization Osteoporosis. Major Adviser: Dr. P. J. Kelly.

Julio Taleisnik, Buenos Aires, Argentina

M.D. '57, University of Buenos Aires, Argentina. Major: Orthopedic Surgery. Minor: Pathology. Thesis: The Blood Supply of the Carpal Navicular Bone. Major Adviser: Dr. P. J. Kelly.

## Master of Science in Otolaryngology

Kenneth Haskell Brookler, Winnipeg, Manitoba, Canada

M.D. '62, University of Manitoba. Major: Otolaryngology. Minor: Anatomy. Thesis: The Auditory Tube: Alteration of Auditory Tube Resistance Following Peritubal Injection of PFFE Paste in Dogs. Major Adviser: Dr. K. M. Simonton.

## Master of Science in Surgery

Joaquin S. Aldrete, Mexico City, Mexico

B.S. '52, Central University, Mexico; M.D. '59, University of Mexico. Major: Surgery. Minor: Pathology. Thesis: Effect of Portal Ligation and of Eck Fistula on the Hepatic Blood Flow, Concentrations of Blood Ammonia and Hepatic Histology. Major Adviser: Dr. G. A. Hallenbeck.

Robert M. Gasior, Chicago, Ill.

B.S. '57, St. Joseph's College; M.D. '61, Loyola University, Chicago. Major: Surgery. Minor: Pathology. Thesis: Isotopic Blood Volume Estimations and their Clinical Application in the Care of the Surgical Patient: The True Value of Blood Volume Determinations in the Care of the Immediate and Early Pre- and Post-operative Problem is Questioned. Major Adviser: Dr. P. E. Bernatz.

Laurence Perrin Sterns, Edmonton, Alberta, Canada

M.D. '55, Queen's University, Canada. Major: Surgery. Minor: Pathology. Thesis: Selective Cardiac Hypothermia. Major Adviser: Dr. C. W. Lillehei.

David Bernard Todd, Jr., Nashville, Tenn.

B.S. with honor '51, Morehouse College; M.D. '56, Meharry Medical College. Major: Surgery. Minor: Pathology. Thesis: A Comparative Study of Renal Function Following Extracorporeal Circulation Utilizing Hemodilution with Different Perfusates With and Without Adrenolytic Agents. Major Adviser: Dr. C. W. Lillehei.

## Master of Science in Urology

Peter McLean, Murree, Ireland

M.D. '58, Royal College of Surgeons, Ireland.  
Major: Urology. Minor: Pathology. Thesis:  
The Effects of Erythropoietin on the Juxta-  
Glomerular Apparatus. Major Adviser: Dr. D.  
C. Utz.

## Specialist in Education

Corinna Rita Moncada, Minneapolis

B.S. '58, College of St. Teresa; M.A. '63,  
University of Minnesota. Field of Concentra-  
tion: Educational Psychology. Major Adviser:  
Prof. F. B. Wilderson, Jr.

Lucia A. Pozzi, Minneapolis

B.A. '53, College of Misericordia; M.A. '60,  
University of Minnesota. Field of Concen-  
tration: Educational Psychology. Major Adviser:  
Prof. W. W. Tennyson.

Betty Ruth Raygor, St. Paul

B.Ed. '44, University of Toledo; M.A. '64,  
University of Minnesota. Field of Concen-  
tration: Educational Psychology. Major Adviser:  
Prof. D. G. Force, Jr.

## Doctor of Philosophy

Faruk Said Abuzzahab, Sr., Beirut,  
Lebanon

B.S. '55, M.D. '59, American University of  
Beirut, Lebanon. Major: Pharmacology. Minor:  
Psychology. Thesis: Norepinephrine in the De-  
veloping and the Newly Hatched Chicken  
Brain. Major Adviser: Dr. F. E. Shideman.

Evelyn Antonsen Albinson, Minne-  
apolis

B.A. *cum laude* '41, M.A. '45, University of  
Minnesota. Major: German. Minor: Linguis-  
tics and Comparative Philology. Thesis: George  
Buchner and Wolfgang Borchert: A Compar-  
ative Study. Major Adviser: Prof. F. H. Wood.

Lawrence Lacy Ambs, St. Paul

B.M.E. '60, M.S. in M.E. '63, University of  
Minnesota. Major: Mechanical Engineering.  
Minor: Physical Chemistry. Thesis: Chlorine-  
Fluorine Flame Studies. Major Adviser: Prof.  
E. A. Fletcher.

I. Russell D. Anderson, St. Paul

B.A. '42, Gustavus Adolphus College; M.A.  
'51, Ed.Spec. '57, University of Minnesota.  
Major: Education. Minor: Curriculum and  
Instruction. Thesis: Relationships Between  
Minnesota School System Characteristics and  
the Structures and Processes for Improving  
Curriculum and Instruction. Major Advisers:  
Prof. O. E. Domian and G. R. Firth.

Lorna McLeod Anderson, Minneapolis

B.A. with highest honors '51, University of  
Rochester. Major: Psychology. Minor: Child  
Psychology. Thesis: Personality Characteristics  
of Parents of Neurotic, Aggressive and Normal  
Pre-Adolescent Boys. Major Adviser: Prof. J.  
N. Butcher.

Abir Arbel, Tel Aviv, Israel

B.S. in M.E. '60, Technion, Israel Institute  
of Technology; M.S. in M.E. '63, University  
of Minnesota. Major: Mechanical Engineering.  
Minor: Metallurgical Engineering. Thesis:  
Some Mechanical Properties of Electron Beam  
Welds Which Have Unconventional Geom-  
etrics. Major Adviser: Prof. Fulton Holtby.

Floyd William Ayers, Owego, N.Y.

B.A. '55, Cornell University; M.A. '56, Syra-  
cuse University. Major: Psychology. Minor:  
Child Psychology. Thesis: Central Nervous  
System Function in Children With Reading  
Problems. Major Adviser: Prof. A. J. Hafner.

Martha Thomson Barclay, Mason  
City, Iowa

B.S. in Speech with distinction '41, North-  
western University; M.A. '42, State University  
of Iowa. Major: Speech, Communication and  
Theatre Arts. Minor: Supporting Program.  
Thesis: Major American Emphases in Theories  
of Oral Interpretation from 1890 to 1950.  
Major Adviser: Prof. D. W. Thompson.

William Allan Bardeen, Champaign, Ill.

B.A. '62, Cornell University. Major: Physics. Minor: Mathematics. Thesis: A Covariant Formulation of Spin and Representations of the Local Current Algebra. Major Adviser: Prof. S. G. Gasiorowicz.

Raymond Barros, Talca, Chile

Licence en Theologie la grande distinction '53, St. Albert de Louvain, France; M.A. '61, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: The "Teaching State" in Early Chilean Legislation: The Age of Consensus (1810-1833). Major Adviser: Prof. R. H. Beck.

Wadim Batorewicz, St. Paul

B.Ch. with distinction '60, University of Minnesota. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Structure of the 2:1 Indole: Methone Product. Major Adviser: Prof. W. E. Noland.

Jacqueline Hanratty Bernard, Winona

B.A. *magna cum laude* '46, University of Minnesota. Major: Psychology. Minor: Neurology. Thesis: Response Communalities of Specific Reference Groups as a Basis for Scoring Psychological Tests. Major Adviser: Prof. R. D. Wirt.

Abraham Besrat, Adigrat, Ethiopia

B.S. '58, Imperial Ethiopian College of Agricultural and Mechanical Arts; M.S. '61, Oklahoma State University of Agriculture and Applied Science. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Mammalian Metabolism of Glutaric Acid. Major Adviser: Prof. L. M. Henderson.

Alfred Linn Bogle, Philadelphia, Pa.

B.S. '58, M.S. '60, University of Washington. Major: Biology. Minor: Zoology. Thesis: Floral Vascular Anatomy and the Nature of the Hamamelidaceous Flower. Major Adviser: Prof. E. C. Abbe.

William Clarence Bonifield, Crawfordsville, Ind.

B.S. '58, Bradley University. Major: Economics. Minor: History. Thesis: The Economics of the Ministry: An Analysis of Demand and Supply of Protestant Clergy. Major Adviser: Prof. J. G. Turnbull.

Jean L. Bradford, Baltimore, Md.

B.A. '56, University of Minnesota. Major: Psychology. Minor: Child Psychology. Thesis: Sex Differences in Anxiety. Major Adviser: Prof. R. D. Wirt.

William Roger Bradley, Minneapolis

B.Music Ed. '57, Westmar College; M.A. '65, Northern Illinois University. Major: Education. Minor: Art. Thesis: An Experimental Study of the Effect of Three Evaluation Techniques and Personal Orientation on Aesthetic Preference. Major Adviser: Prof. C. A. Gayne.

Edward Brooks, Jr., St. Paul

B.A. '44, Harvard College; M.A. '62, University of Minnesota. Major: Latin. Minor: Greek. Thesis: P. Rutilii Lupi—De Figuris Sententiarum et Elocutionis An Editio Minor with Prolegomena and Commentary. Major Adviser: Prof. R. A. Swanson.

William Zoltán Brust, Northfield

B.A. *cum laude* '44, B.S. '53, M.A. '53, University of Minnesota. Major: German. Minor: French. Thesis: Art and the Activist: Social Themes in the Dramas of Heinrich Mann. Major Advisers: Profs. E. F. Menze, W. F. Taraba and G. H. Weiss.

Cecil Curtis Cable, Jr., Tucson, Ariz.

B.S. '48, M.S. '49, Oklahoma A. and M. College. Major: Agricultural Economics. Minor: Economics. Thesis: Economic Models for a Cotton Ginning-Warehousing Complex. Major Adviser: Prof. L. R. Martin.

Jar-Mo Chen, Fukien, China

B.S. '59, National Taiwan University; M.S. in E.E. '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Effects of Alkali Overlayers on Low Index Surfaces of Germanium. Major Adviser: Prof. W. T. Peria.

Bruce Arnold Christensen, Minneapolis

B.S. with high distinction '59, M.S. in E.E. '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: AC Losses in Thin Film Hard Superconductors. Major Adviser: Prof. D. E. Anderson.

Richard Ellis Collingham, Seattle, Wash.

B.S. in M.E. *magna cum laude* '59, M.S. in E. (Nuclear) '60, University of Washington. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Mass Transfer in Flowing Suspensions. Major Advisers: Profs. P. L. Blackshear, Jr., and E. R. G. Eckert.

Peter Bertram Corbin, London,  
England

B.S. '59, London University; M.A. '63, University of Minnesota. Major: Geography. Minor: Economics. Thesis: An Analysis of a Residential Field. Major Adviser: Prof. J. W. Webb.

Adelbert Garr Cranney, Jr., Belmont,  
Mass.

B.A. '55, Harvard College; M.A. '61, Brigham Young University. Major: Education. Minor: Curriculum and Instruction. Thesis: A Comparison of a Free Response and Multiple Choice Cloze Reading Test. Major Adviser: Prof. A. L. Raygor.

Robert Miles Desmond, North Haven,  
Conn.

B.S. with distinction '63, Worcester Polytechnic Institute; M.S. in M.E. '65, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Measurement of the Thermal Conductivity of Gases at High Temperatures with a Hot Wire Cell. Major Adviser: Prof. W. E. Ibele.

Richard Austin Donovan, Rochester,  
N.Y.

B.A. '59, M.A. '61, University of Notre Dame. Major: English. Minor: Speech, Communication and Theatre Arts. Thesis: Shakespeare and the Game of Evil: A Study of Role-Playing Among his Villains. Major Adviser: Prof. J. D. Hurrell.

Gerald Doyle, Fords, N.J.

B.S. with honors '61, Rutgers University. Major: Inorganic Chemistry. Minor: Organic Chemistry. Thesis: A Study of Some Chelates of the Bis(cyclopentadienyl) Titanium (IV) and Bis(cyclopentadienyl) Vanadium (IV) Moieties. Major Adviser: Prof. R. S. Tobias.

Kenneth Edwin Dunkelgod, Hot  
Springs, Ark.

B.S. '53, M.S. '58, Oklahoma A. and M. College. Major: Poultry Science. Minor: Biochemistry. Thesis: Relationship of Free Amino Acids in the Plasma to Dietary Requirements of the Turkey. Major Adviser: Prof. P. E. Waibel.

James Allen Dunlop, Minneapolis

B.A. '59, Carleton College; M.A. '63, University of Minnesota. Major: Spanish. Minor: French. Thesis: Local Color in Spanish Romantic Dramas, 1834-1837. Major Adviser: Prof. W. T. Pattison.

Robert Walter Eliason, St. Paul

B.S. '63, Hamline University. Major: Organic Chemistry. Minor: Supporting Program. Thesis: Acid Catalyzed Hydrolysis of Ethyl Vinyl Ether. Major Adviser: Prof. M. M. Kreevoy.

John Christopher English, Norwich,  
England

B.Sc. (Agri.) with honors '62, University of London; Dip.Ag.Ec. '63, University of Oxford; M.S. '66, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: The Impact of Land Use Patterns on Public Service Expenditures in the Twin Cities Metropolitan Area. Major Adviser: Prof. P. M. Raup.

Gerald Meyer Erickson, Amery, Wis.

B.S. with distinction '54, M.A. '56, University of Minnesota. Major: Classics. Minor: Supporting Program. Thesis: A Multi-Sensory Approach to a Classical Curriculum: Rationale, Structure, and Design for Application in the Classroom. Major Adviser: Prof. W. A. McDonald.

Harvey Alan Farberman, New York,  
N.Y.

B.A. '61, Brooklyn College. Major: Sociology. Minor: Supporting Program. Thesis: A Study of Personalization in Low Income Consumer Interactions and Its Relationship to Identification with Residential Community. Major Adviser: Prof. G. P. Stone.

Roger Edward Frech, Arlington, Tex.

B.S. (Chem.) '63, Massachusetts Institute of Technology. Major: Physical Chemistry. Minor: Physics. Thesis: Optical Constants of Crystals and Aqueous Solutions by A.T.R. Techniques. Major Adviser: Prof. B. L. Crawford, Jr.

Terry Joel Gilbertson, LaCrosse, Wis.

B.S. with honor '62, Wisconsin State College, LaCrosse. Major: Organic Chemistry. Minor: Biochemistry. Thesis: The Biosynthesis of the Pyrrolidine Ring of Nicotine. Major Adviser: Prof. Edward Leete.

Gary Edward Glass, Duluth

B.A. '62, University of Minnesota. Major: Inorganic Chemistry. Minor: Analytical Chemistry. Thesis: Oxygen-17 and Proton Nuclear Magnetic Resonance Studies on Selected Organometallic Complexes: Structure, Hydration and Lability of Aquo Cations. Major Adviser: Prof. R. S. Tobias.

### Roy Hugo Hammerstedt, Duluth

B.A. *cum laude* '63, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Metabolism of Hydroxylsine and Its Stereoisomers. Major Adviser: Prof. L. M. Henderson.

### Allen Streeter Heagle, Buffalo

B.S. '60, Hamline University; M.S. '63, St. Cloud State College. Major: Plant Pathology. Minor: Entomology. Thesis: The Nature and Effect of Adult Plant Resistance to Crown Rust in Several Commercial Oat Varieties. Major Adviser: Prof. M. F. Kernkamp.

### Royce Armand Hinton, Champaign, Ill.

B.S. (Agri.) with highest honors '49, M.S. (Ag.Ec.) '50, University of Illinois. Major: Agricultural Economics. Minor: Economics. Thesis: The Economics of Labor and Choice of Swine Housing. Major Adviser: Prof. S. A. Engene.

### Hildegard Inga Hof, Minot, N.D.

B.S. '54, North Dakota Agricultural College; M.S. '63, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Nuclear RNA of Rat Liver and Morris Hepatoma 5123 D. Major Adviser: Prof. W. D. Armstrong.

### Kenneth Eric Fabian Hokanson, Robbinsdale

B.S. with distinction '63, University of Minnesota. Major: Fisheries and Wildlife. Minor: Supporting Program. Thesis: The Effects of Synthetic Detergents on the Early Life History of the Bluegill, *Lepomis macrochirus* (Rafinesque), in the Upper Mississippi River. Major Adviser: Prof. L. L. Smith, Jr.

### Richard Horberg, Minneapolis

B.S. '49, M.A. '51, University of Minnesota. Major: American Studies. Thesis: To the Twentieth Century and Back: A Round Trip with Floyd Dell. Major Adviser: Prof. C. A. Chambers.

### Elmar Harry Jancis, Naugatuck, Conn.

B.S. '56, Yale College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: A Nuclear Magnetic Resonance Study of 2,4-Diphenylthietanes and their Oxides and Some Aspects of the Reaction of Sulfones with Grignard Reagents. Major Adviser: Prof. R. M. Dodson.

### Gordon Phillip Johnson, Stillwater

B.A. *magna cum laude* '52, Augsburg College; M.A. '58, University of Minnesota; M.S. '61, University of Wisconsin. Major: Education. Minor: Chemistry. Thesis: An Integrated Two-Year Chemistry-Physics Course Compared with Consecutively Taught Separate Courses. Major Adviser: Prof. C. H. Boeck.

### Morris Kagan, Houston, Tex.

B.S.Ed. '50, Bucknell University; M.S.W. '52, University of Pittsburgh. Major: Social Work. Minor: Public Health. Thesis: A Study of Selected Dimensions of the Field Instructor-Student Relationship. Major Adviser: Prof. L. N. Scott.

### Sylvia Joann Kerr, Minneapolis

B.A. '63, Carleton College; M.S. '66, University of Minnesota. Major: Zoology. Minor: Supporting Program. Thesis: Cytological Observations on Plasmodial Differentiation in the True Slime Mold, *Didymium nigripes*. Major Adviser: Prof. N. T. Spratt, Jr.

### Ralph Ernest Kliesch, Athens, Ohio

B.S.J. with high honor '56, M.S. '61, Ohio University. Major: Mass Communication. Minors: Anthropology and Sociology. Thesis: History and Operations of the McGraw-Hill World News Service. Major Advisers: Profs. R. B. Nixon and W. E. Emery.

### Richard Ralph Knight, Great Falls, Mont.

B.S. in F. & WL. Mgm't. '56, M.S. in F. & WL. Mgm't. '60, Montana State University. Major: Fisheries and Wildlife. Minor: Forestry. Thesis: A Population Analysis of the Sun River Elk Herd, Montana. Major Adviser: Prof. W. H. Marshall.

### Shih-Jung Lan, Kwangtung, China

B.S. '60, Tunghai University, Taiwan; M.S. '64, Oklahoma State University. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Metabolism of Pyridinium Precursors of Pyridine Nucleotides by Perfused Rat Liver and Erythrocytes. Major Adviser: Prof. L. M. Henderson.

### Vaughn LeRoy Larson, Mondovi, Wis.

B.S. '58, D.V.M. '60, University of Minnesota. Major: Veterinary Medicine. Minor: Pathology. Thesis: Bovine Leukemia: A Clinical, Epidemiological and Experimental Study. Major Adviser: Prof. D. K. Sorensen.

**Kwang Woo Lee, Taegu, Korea**

B.S. '60, Seoul National University, Korea; M.S. '64, University of Minnesota. Major: Soil Science. Minor: Biochemistry. Thesis: Phosphorus Fractions and Growth of Soybean Plant as Affected by Phosphorus Supply. Major Adviser: Prof. A. C. Caldwell.

**John Alvord Little, Sandusky, Ohio**

B.S. '60, Yale College; M.S. '64, Stanford University. Major: Mathematics. Minor: Philosophy. Thesis: On Singularities of Submanifolds of Higher Dimensional Euclidean Spaces. Major Adviser: Prof. W. L. Pohl.

**Munime Kocayusufpasaoglu Lundeen, Istanbul, Turkey**

B.A. *cum laude* '60, Macalester College. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Determination of Thermodynamic Functions for Silver-Ammonia and Scandium-Fluoride Complexes in Aqueous Solution. Major Adviser: Prof. Z Z. Hugus, Jr.

**Berard Lawrence Marthaler, Washington, D.C.**

D.D. '53, Pontificia Facultas Theologica, Italy; M.A. '56, University of Minnesota. Major: History. Minor: Classical Area Studies. Thesis: Two Studies In the Greek Imperial Coinage of Asia Minor. Major Adviser: Prof. T. B. Jones.

**Olli Sakari Miettinen, Helsinki, Finland**

M.D. '62, University of Helsinki, Finland; M.P.H. '65, M.S. '66, University of Minnesota. Major: Biometry. Minor: Epidemiology. Thesis: Some Basic Theory for Matching Designs in Nonexperimental Research on Causation. Major Adviser: Prof. R. B. McHugh.

**Halbert Louis Mork, Edina**

B.S. with high distinction '60, M.S. in M.E. '61, University of Minnesota. Major: Control Sciences. Thesis: Simplification of Linear, Constant, Dynamical Systems. Major Adviser: Prof. E. B. Lee.

**William Albert Myers, Lancaster, Pa.**

B.A. '62, Franklin and Marshall College. Major: Psychology. Minor: Philosophy. Thesis: An Experimental Study of Syntactic and Semantic Interaction. Major Advisers: Profs. M. A. Trapold and J. J. Jenkins.

**Chull Park, Seoul, Korea**

B.S. '59, Seoul National University, Korea; M.S. '64, Southern Illinois University. Major: Mathematics. Minor: Aeronautical Engineering. Thesis: Generalized Riemann-Stieltjes Integral Over the K.Y.W. Space of Functions of Two Variables. Major Adviser: Prof. R. H. Cameron.

**Roland Manley Peek, St. Paul Park**

B.S. '42, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: A Comparison of Four Scaling Techniques in the Development of a Behavior Rating Scale. Major Adviser: Prof. P. E. Meehl.

**Frank A. Petroni, Everett, Mass.**

B.S. in Sp. '61, Emerson College; M.A. '63, University of Arizona. Major: Sociology. Minor: Supporting Program. Thesis: Variations in Perceived Legitimacy to the Sick Role: The Influence of Significant Others, Chronicity, Sex and Generational Factors. Major Adviser: Prof. M. A. Straus.

**Robert Nash Pierce, Baton Rouge, La.**

B.A. '51, Arkansas State College; M. J. '55, University of Texas. Major: Mass Communication. Minor: Area Studies. Thesis: Public Opinion and Press Opinion in Four Latin American Cities. Major Adviser: Prof. R. E. Carter, Jr.

**Lewis Jarrette Poteet, Montreal, Quebec, Canada**

B.A. *summa cum laude* '61, Bethany Nazarene College; M.A. '62, University of Oklahoma. Major: English. Minor: Art History. Thesis: Romantic Aesthetics in Oscar Wilde's Prose. Major Adviser: Prof. G. R. Stange.

**Mary Jane Rachner, St. Paul**

B.A. '44, Rockford College; M.A. '45, Mt. Holyoke College; B.S. '51, University of Minnesota. Major: Education. Minor: Psychology. Thesis: Philosophical Analysis as Applicable to Criticism and Concept Reconstruction in Modern Educational Theory. Major Adviser: Prof. R. H. Beck.

**Sister M. Sheila Rausch, St. Joseph**

B.A. '48, College of St. Benedict; M.A. '61, Marquette University. Major: English. Minor: History. Thesis: Mary Russell Mitford and Regional Realism. Major Adviser: Prof. G. R. Stange.



John George Russell, Manila, Philippines

B.S. '63, Purdue University. Major: Organic Chemistry. Minors: Physical Chemistry and Inorganic Chemistry. Thesis: Directions of Enolizations of Some  $\alpha$ -Formyl Ketones. Major Adviser: Prof. E. W. Garbisch.

Virginia Bryan Rychnovsky, La Porte City, Iowa

B.A. '60, State College of Iowa. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: The Structures of Some Cyano Compounds of Group VI and VII Elements and the Structure of 2,3-Dibromocyclohex-5-ene-1,4-dione. Major Adviser: Prof. J. D. Britton.

Fred E. H. Schroeder, Duluth

B.S. '60, University of Wisconsin, Milwaukee; M.A. '63, University of Minnesota. Major: American Studies. Thesis: Nothing If Not Critical: A Biography of Richard Grant White. Major Adviser: Prof. J. C. Levenson.

George William Shardlow, St. Paul

B.A. '62, Marquette University. Major: Psychology. Minor: Neurology. Thesis: The Whitehorn-Betz A-B Scale as Related to Differential Motivational Effectiveness and Interpersonal Perception. Major Adviser: Prof. R. D. Wirt.

Kwang-Tien Shih, Taipei, Taiwan, China

B.S.E. '56, National Taiwan University; M.S. in M.E. '62, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Electrode Heat Transfer Study in a Magneto-Plasma-Dynamic Arc. Major Advisers: Profs. W. E. Ibele and Emil Pfender.

Everett Charles Short, Jr., St. Paul

B.S. *summa cum laude* '58, Kent State University; D.V.M. with high distinction '62, Colorado State University. Major: Physiological Chemistry. Minor: Veterinary Physiology and Pharmacology. Thesis: Deoxyribonucleases Induced by Infection of *Escherichia coli* with Bacteriophage T2. Major Adviser: Prof. J. F. Koerner.

Avtar Singh, Ludhiana, India

B.A. '55, Panjab University, India; B.Tech. with honors '59, Indian Institute of Technology; M.S. in M.E. '66, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Thermal Conductivity of Stationary and Flowing Suspensions. Major Adviser: Prof. P. L. Blackshear, Jr.

Donald Arthur Smith, Hudson, Wis.

B.S. with distinction '57, M.S. in E.E. '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Frequency Shift Keying Method of Digital Modulation of Lasers Using Anisotropic Crystals. Major Adviser: Prof. J. E. Holte.

Roger Carl Splinter, Stillwater

B.S. '59, Hamline University; M.S. '64, University of Minnesota. Major: Inorganic Chemistry. Minors: Physical Chemistry and Analytical Chemistry. Thesis: Studies of the Equilibrium Isotope Effect on the Acid Dissociation Constant of the Aquopentaamminecobalt (III) Cation: Kinetics of Dimerization of Monohydroxodimethyltin (IV) Aquo Cation by the Flow Method. Major Adviser: Prof. R. S. Tobias.

Michael Christopher Stratford, Staten Island, N.Y.

B.A. '62, State University of New York; M.A. '64, University of Minnesota. Major: Political Science. Minor: Philosophy. Thesis: Political Thought and the Morality of War: A Critical Examination. Major Adviser: Prof. M. Q. Sibley.

Roy V. Sturgeon, Jr., Stillwater, Okla.

B.S. '61, M.S. '64, Oklahoma A. and M. College. Major: Plant Pathology. Minor: Botany. Thesis: An Investigation of Certain Factors in the Host-Pathogen Relationship of *Cercospora arachidicola* on the Peanut Plant *Arachis hypogaea* var. Argentine. Major Adviser: Prof. M. F. Kernkamp.

Chandra Mohan Varma, Hyderabad, India

B.E. with honors '63, Osmania University; M.S. in E.E. '65, University of Minnesota. Major: Physics. Minor: Electrical Engineering. Thesis: Spin Hamiltonian, Exchange and Nuclear Relaxation in Crystalline  $^3\text{He}$ . Major Adviser: Prof. L. H. Nosanow.

Walter Gregson Vaux, Seattle, Wash.

B.S. (Chem.E.) '59, University of Washington; M.S. in Chem.E. '61, University of Minnesota. Major: Chemical Engineering. Minor: Supporting Program. Thesis: The Motion and Collection of Suspended Particles Within Streambed Gravel. Major Adviser: Prof. W. E. Ranz.

Hannah Kristine Walseth, Minneapolis

B.S. '42, M.A. '59, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Repression-Sensitization and Reactions to Surgery. Major Adviser: Prof. Jan Duker.

David George Weetman, Fishkill, N.Y.

B.S. '59, Pennsylvania State University. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Synthesis and Reactions of Dihalocyclopropanes Derived From 2- and 3-Methyl Substituted 4-Ethoxy-2H-1-Benzothio-pyrans. Major Adviser: Prof. W. E. Parham.

Carl Fitzherbert Wells, Kingston, Jamaica, West Indies

M.R.C.V.S. '50, Liverpool University, England; M.S. '54, Cornell University. Major: Animal Husbandry. Minor: Biochemistry. Thesis: The Effects of Balancing and Imbalancing Safflower Protein on Food Consumption, Body Weight Gain and Concentrations of Plasma Free Amino Acids in the Young Rat. Major Adviser: Prof. L. E. Hanson.

Francis Christopher Wessling, Jr., St. Louis, Mo.

B.S.M.E. '61, Washington University; M.S. '63, University of New Mexico. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Effect of Gases on the Freezing of Blood. Major Advisers: Profs. P. L. Blackshear, Jr., and E. R. G. Eckert.

Anthony Gabriel Zacchei, Philadelphia, Pa.

B.S. in Chem. '61, M.S. in Chem. '64, Villanova University. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Chemical Synthesis of Two Methylated Sterols and Demonstration of Their Conversion to Cholestanol. Major Adviser: Prof. I. D. Frantz, Jr.

Philip Heinz Zoldester, Vienna, Austria

Dr.rer.pol. '48, University of Vienna, Austria. Major: German. Minor: French. Thesis: Adalbert Stifters Weltanschauung. Major Adviser: Prof. W. F. Taraba.

## Doctor of Philosophy in Medicine (Internal)

Jorge E. Maldonado, Bogotá, Colombia, South America

M.D. '58, Javeriana University, Colombia. Major: Medicine (Internal). Minor: Anatomy. Thesis: The Ultrastructure of the Myeloma Cell. Major Adviser: Dr. E. D. Bayrd.

# Academic Costume

On appropriate occasions, anyone with a college or university degree may wear academic costume consisting of a gown, a hood, and a cap. By observing the kind of academic costume a person wears, it is possible to know the name of the university from which he graduated, as well as the degree which he holds, and, in some cases, the field of his major interest.

The long, pointed sleeve of the gown indicates a bachelor's degree; the long, closed sleeve with a slit for the arm indicates a master's degree; and the open sleeve marks a doctor's degree. Bachelor's and master's gowns are black in color and are without any trimming. Generally, the doctor's gown is black also, but some universities, particularly those abroad, prescribe such festive colors as red, crimson, or green. All doctor's gowns have velvet trimming on the front facings and crossbars on the sleeves. This trimming may be black, or it may match the color of the edging of the hood and thus identify the profession or field of major interest of the wearer.

At a commencement it is quite proper to wear the gown—but not the hood—appropriate for the degree *which is to be received*. The only hoods worn at commencements are for degrees which have already been received. Thus only those students and faculty members who have already received college or university degrees wear hoods. Anyone who has a degree from the University of Minnesota may wear a hood decorated with a maroon chevron on gold background. The length and shape of the hood indicate whether the wearer has earned a bachelor's, a master's, or a doctor's degree. The velvet edging on the hood indicates the field in which the degree was granted. For example, dark blue signifies Philosophy; light blue, Education; green, Medicine; lilac, Dentistry; orange, Engineering; russet, Forestry; drab, Business; olive green, Pharmacy; purple, Law; gray, Veterinary Medicine; golden yellow, Science; and white, Arts and Letters.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidates are honor students.

Caps, generally mortarboards with tassels, have significance, too. The doctor's tassel may be black or gold. Master's and bachelor's tassels are black; but at University of Minnesota commencements—upon the authority of the University Senate Committee on Functions—candidates for the bachelor's and associate's degrees wear tassels which indicate their schools or colleges by color as follows:

(In the order of march)

General College .....	crimson and white
College of Liberal Arts .....	white
University College .....	old gold and white
Institute of Technology .....	orange
College of Agriculture, Forestry, and Home Economics .....	maize

College of Education .....	light blue
School of Business Administration .....	drab
College of Medical Sciences .....	green
Graduate School .....	black

But once the bachelor's degree has been received and the commencement is over, the graduate, should he wear academic costume again, will wear only the black tassel as does the holder of the master's degree. Similarly, he will not in the future wear the shoulder insignia as a part of his academic dress even if he is an honor graduate. All graduates of the University should remember that the academic dress at this University conforms to the rules of the Inter-collegiate Bureau of Academic Costume. This means that Minnesota academic costume may be secured easily anywhere in the world. And it is always worn proudly and with distinction—for ours is a great University.

# *President's Reception*

**MARCH, 1968**

- The members of the graduating class, their families, and friends are invited to attend the President's Reception immediately after the commencement exercises. The Reception will be held in the Main Ballroom of the Coffman Memorial Union. Refreshments will be served.
- Those in the receiving line will be Associate Vice President and Mrs. Smith; Father Barry; Mr. and Mrs. Heimbach; Mr. William C. Newell, President of the Minnesota Student Association; and Mr. Gregory H. Ritter, President of the Union Board of Governors.
- Assisting in the Reception are students and staff members, including those from the University Senate Committee on Functions, Gamma Sigma Sigma Service Sorority, the Army ROTC, and the Department of University Relations.



UNIVERSITY OF MINNESOTA

*June Commencement, 1968*

SATURDAY EVENING, JUNE 8, 7:30 P.M.

MEMORIAL STADIUM

# *The Board of Regents*

The Honorable Lester A. Malkerson, Minneapolis  
First Vice-President and Chairman

The Honorable Marjorie J. Howard (Mrs. C. Edward), Excelsior  
Second Vice-President

The Honorable Elmer L. Andersen, St. Paul

The Honorable Daniel C. Gainey, Owatonna

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Herb L. Huffington, M.D., Waterville

The Honorable Fred J. Hughes, St. Cloud

The Honorable Charles W. Mayo, M.D., Rochester

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhurst, Olivia

The Honorable Otto A. Silha, Edina

The Honorable Herman F. Skyberg, Fisher

Dr. Malcolm Moos, President

Dr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

# *This Is Your University*

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and seventeenth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen—to name only some of the careers for which preparation is offered. Since its founding, the University has awarded more than 201,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to nearly 46,000 students annually on its Twin Cities, Duluth, Morris, Crookston, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H Club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

In the diversified research laboratories on the University's five campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

THE UNIVERSITY is acknowledged to be the cultural hub of the Northwest. It is the home of the University Artists Course, Radio Station KUOM, the University of Minnesota Television Hour, the University Theatre, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings renowned artists and lecturers to more than a million and a half persons living in the area it serves.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign



Wars Cancer Research Center, and Diehl Hall (which houses the bio-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

To enlarge the base of private support for the University, the University of Minnesota Foundation was established in 1962 as a nonprofit organization, independent of the University but with the University as its sole beneficiary. The Foundation gives alumni, other citizens, and corporate donors the opportunity to make gifts, bequests, grants, and other forms of tax-deductible voluntary contributions. These funds supplement tax support and make possible the enriched programs and expanded services which create a "margin of excellence" for the University. Direction and resources of the Foundation are under the management of a Board of Trustees of concerned and dedicated citizens.

As it meets the needs of present students, the University must also make plans for those of the future. The 46,088 students who enrolled at the University at the beginning of the 1967-1968 academic year represented nearly one half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits. In the fall of 1965, for the first time in its history, the University instituted an admissions policy based on controlled growth of total enrollment. This change in admissions requirements held the 1967-1968 enrollment to about 46,000 students. It reflects the University's need for more teachers, more land, and more buildings. And it makes plain the University's determination to maintain the educational quality that has made it one of America's leading educational institutions.

THE 1967 LEGISLATURE granted the University \$110,893,275 for general operations and maintenance during the 1967-1969 biennium. In addition, the University received \$9,401,100 for University Hospitals; \$9,883,460 for special appropriations, including special extension and research activities; \$22,739,346 for new buildings, land, and the rehabilitation of existing buildings; and \$955,000 for the University of Minnesota Technical Institute, Crookston.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request, as is a much more comprehensive and complete statement for those who wish to make a special study of the University's income and expenditures.

The summary financial statement of 1966-1967 showed that the University's current income and expenditures amounted to \$69,292,131.98. Of the total received, \$16,389,611.68 came from student tuition and fees; \$25,313,080.86 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts and the sale of bulletins and agricultural products; \$1,575,346.90 from intercollegiate athletics; \$24,117,422.96 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$9,107,-

000.99 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$40,897,023.16 came from the federal government for instruction, research, and agricultural extension. The state provided \$51,892,645.43 or 30.1 percent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings amounted to \$21,607,236.

COMMENCEMENT marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund, administered in the Alumni Office in Coffman Memorial Union, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds, administered by the Department of University Relations, Morrill Hall.

Alumni, their families, and their friends are always welcome here. The University hopes they will return frequently to visit the campus and to renew cherished ties.

# Order of Events\*

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their families and friends reach the Twin Cities Campus of the University this evening from 6:30 to 7:00 p.m., they will hear the Frances Miller Brown Memorial Bells played from Northrop Memorial Auditorium by Mr. Dennis Johnson, University Carillonneur. The Commencement Exercises in Memorial Stadium are open to all; guest cards are not necessary. All open entrances on the east and south sides of the Stadium may be used.

**PRELUDE CONCERT:** From 7:00 to 7:30 p.m., the University Concert and Symphony Bands, conducted by Associate Professor Frank P. A. Bencriscutto, A.Mus.D., Bandmaster, will play:

- The King and I* - - - - - Richard Rodgers
- Rodgers and Hart Medley* - - - - - arr. Alfred Reed
- Medley from Mr. Lucky* - - - - - Henry Mancini
- The Days of Wine and Roses* - - - - - Henry Mancini

**PLACEMENT OF FLAGS:** During the Prelude Concert, students carrying the flags of eighty-seven countries will enter the Stadium through the processional entrance. The International Student Council has arranged for foreign students to carry the flags of their respective nations. These flags, which will be placed on either side of the platform, represent the countries of some 1,300 foreign students who are at the University. The United States flag and the flag of the State of Minnesota, as is customary, will be presented as a part of the Commencement ceremony itself. The number of students from foreign lands who are taking courses at the University and their presence on the campus today illustrate the extent to which our nation and our major universities are involved in international relationships. The flags which will be placed this evening represent the following countries:

- |             |                          |                    |
|-------------|--------------------------|--------------------|
| Afghanistan | Bulgaria                 | Cyprus             |
| Argentina   | Burma                    | Czechoslovakia     |
| Australia   | Cameroon                 | Denmark            |
| Austria     | Canada                   | Dominican Republic |
| Barbados    | Central African Republic | Ecuador            |
| Belgium     | Ceylon                   | El Salvador        |
| Bolivia     | Chile                    | Ethiopia           |
| Botswana    | Colombia                 | Finland            |
| Brazil      | Costa Rica               | France             |

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\* In the event of heavy rain, Commencement Exercises will be held in Northrop Memorial Auditorium. However, only the members of the graduating class will be in the Auditorium. Each graduate has been issued two rain guest cards. Guests holding these cards may go to the location designated on their cards where they can listen to the Exercises. All our guests should know that the Commencement Exercises will be carried live on KUOM, beginning at 7:30 p.m., and may be listened to from any radio that is available.

Germany	Liberia	Somalia
Ghana	Libya	South Africa
Greece	Malaysia	Spain
Guyana	Mexico	Sudan
Haiti	Morocco	Sweden
Hungary	Netherlands	Switzerland
Iceland	New Zealand	Syria
India	Nicaragua	Tanzania
Indonesia	Nigeria	Thailand
Iran	Norway	Trinidad and Tobago
Iraq	Pakistan	Tunisia
Ireland	Panama	Turkey
Israel	Peru	Uganda
Italy	Philippines	United Arab Republic
Jamaica	Poland	United Kingdom
Japan	Portugal	Upper Volta
Jordan	Republic of China	Uruguay
Kenya	Republic of the Congo	Venezuela
Korea	Rumania	Vietnam
Kuwait	Saudi Arabia	Yugoslavia
Lebanon	Singapore	Zambia

**PROCESSION:** At 7:30 p.m., the Mace-Bearer, Professor Rodney C. Loehr, Ph.D., College of Liberal Arts, will climb the stairs of the platform, thus heralding the beginning of the academic procession. The procession includes candidates for degrees, marching by colleges, the faculty, distinguished guests, and the Regents. The line of march for degree candidates is as follows: Department of Military Science; Department of Naval Science; Department of Aerospace Studies; General Extension Division; General College; College of Liberal Arts; University College; Institute of Technology; College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; College of Education; School of Business Administration; College of Pharmacy; Law School; College of Veterinary Medicine; School of Dentistry; College of Medical Sciences; and Graduate School. Faculty Marshals are Professor Loehr; Professor Orrin C. Turnquist, Ph.D., College of Agriculture, Forestry, and Home Economics; Professor Milo J. Peterson, Ph.D., College of Education; and Professor James R. Jensen, D.D.S., School of Dentistry. During the procession the Bands will play:

*Pomp and Circumstance* - - - - - Edward Elgar  
*Crown Imperial* - - - - - William Walton

**PRESENTATION OF COLORS:** Following the procession, the Color Guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, will present the colors. The audience will rise for the colors and will remain standing for the national Anthem and the Invocation.

THE NATIONAL ANTHEM: The entire audience, standing, and Professor Roy A. Schuessler, M.M., Department of Music:

O, say! can you see, by the dawn's early light,  
    What so proudly we hail'd at the twilight's last gleaming,  
Whose broad stripes and bright stars, thro' the perilous fight,  
    O'er the ramparts we watch'd were so gallantly streaming?  
And the rockets' red glare, the bombs bursting in air,  
    Gave proof thro' the night that our flag was still there.  
O, say, does that star-spangled banner yet wave  
    O'er the land of the free and the home of the brave?

INVOCATION (the audience still standing): The Reverend Gordon Dahl, Campus Pastor of the St. Paul Student Association.

SPEAKING FOR THE UNIVERSITY OF MINNESOTA: President Malcolm Moos, Ph.D.

CONFERRING OF ROTC CERTIFICATES: Vice-President William G. Shepherd, Ph.D., Academic Administration, will introduce Colonel William D. Beard, USA, Professor of Military Science; Commander Edward O. Dietrich, USN, Professor of Naval Science; and Lt. Colonel James Suttie, USAF, Professor of Aerospace Studies, who will present the candidates for commissions in their respective services. The certificates of ROTC completion will be presented by President Moos.

PRESENTATION OF CANDIDATES: Vice-President Shepherd will introduce the deans of the several colleges or their representatives, who will present to President Moos the candidates for certificates and degrees. They are, in order of their introduction, Dean Willard L. Thompson, Ph.D., General Extension Division; Dean Alfred L. Vaughan, Ph.D., General College; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Associate Professor John A. Goodding, Ph.D., University College; Dean Richard S. Caldecott, Ph.D., College of Biological Sciences; Dean Warren B. Cheston, Ph.D., Institute of Technology; Dean Sherwood O. Berg, Ph.D., Institute of Agriculture; Dean Robert J. Keller, Ph.D., College of Education; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Dean Lawrence C. Weaver, Ph.D., College of Pharmacy; Dean William B. Lockhart, S.J.D., Law School; Dean William T. S. Thorp, D.V.M., College of Veterinary Medicine; Dean Erwin M. Schaffer, D.D.S., School of Dentistry; Dean Robert B. Howard, M.D., College of Medical Sciences; and Dean Bryce Crawford, Jr., Ph.D., Graduate School.

CONFERRING OF DEGREES: President Moos will confer certificates and degrees upon the members of this graduating class.

**A FAREWELL FROM THE OUTGOING PRESIDENT OF THE MINNESOTA STUDENT ASSOCIATION:** Mr. William C. Newell, '68, College of Liberal Arts.

**A WELCOME FROM THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION:** Professor Edwin L. Haislet, Ed.D., Executive Director of the Minnesota Alumni Association and Director of the Department of Alumni Relations.

**PRESENTATION OF DIPLOMAS:** With Vice-President-Designate Paul H. Cashman, Ph.D., Student Affairs, presiding, all members of the June graduating class will move to the stage to receive their diplomas. Assisting the deans of the several colleges in the presentation of diplomas are Professor Robert C. Slater, B. S., General Extension Division; Professor G. Gordon Kingsley, Ed.D., General College; Associate Dean John G. Turnbull, Ph.D., College of Liberal Arts; Professor William A. Stockdale, M.A., University College; Assistant Dean Norman S. Kerr, Ph.D., College of Biological Sciences; Assistant Dean Paul A. Cartwright, M.S., Institute of Technology; Assistant Dean Keith N. McFarland, Ph.D., Institute of Agriculture; Associate Dean Stanley B. Kegler, Ph.D., College of Education; Associate Dean Nicholas A. Glaskowsky, Ph.D., School of Business Administration; Professor Frank E. DiGangi, Ph.D., College of Pharmacy; Assistant Dean Robert F. Grabb, LL.B., Law School; Associate Dean Robert K. Anderson, D.V.M., College of Veterinary Medicine; Assistant Dean Mellor R. Holland, M.S.D., School of Dentistry; Associate Dean H. Mead Cavert, M.D., College of Medical Sciences; and Associate Dean Francis M. Boddy, Ph.D., Graduate School.

**CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY:** President Moos will confer the degrees upon the candidates. As each new Doctor of Philosophy is invested with his academic hood, he will be presented individually by Dean Crawford.

**HAIL! MINNESOTA:** The University's Alma Mater song, sung by the audience and Professor Schuessler:

Minnesota, hail to thee!	Like the stream that bends to sea,
Hail to thee, our college dear!	Like the pine that seeks the blue,
Thy light shall ever be	Minnesota, still for thee
A beacon bright and clear;	Thy sons are strong and true;
Thy sons and daughters true	From thy woods and waters fair,
Will proclaim thee near and far;	From thy prairies waving far,
They will guard thy fame	At thy call they throng
And adore thy name;	With their shout and song,
Thou shalt be their Northern Star.	Hailing thee their Northern Star.

**AULD LANG SYNE:** The Frances Miller Brown Memorial Bells.  
(There will be no Recessional)

# *Candidates for Commissions*

Subject to the completion of all curriculum requirements at the close of the spring quarter, commissions will be presented to those listed below and to such others as may meet the requirements for the Reserve Officers in the Armed Services.

## **DEPARTMENT OF MILITARY SCIENCE**

### **Second Lieutenant, Adjutant General Corps**

Thomas P. Costello, Minneapolis

Herbert P. Linder, St. Paul

Richard J. Digatono, Minneapolis

Greg F. Strobl, Wayzata

### **Second Lieutenant, Armor**

Leslie M. Fieldman, Park Rapids

Lawrence P. Larson, Minneapolis

Craig W. Johnson, Owatonna

Gayhart F. Qualley, Maplewood

### **Second Lieutenant, Army Intelligence and Security**

Charles F. Aling, Edina

### **Second Lieutenant, Artillery**

Robert L. Childress, Mora

Joel H. Nelson, Mound

Henry S. Conroy, Minneapolis

William A. Norberg, Battle Lake

Jeffrey M. Hunter, Wayzata

James S. Seck, Edina

Albert F. Lanick, Minneapolis

Michael J. Shaughnessy, Robbinsdale

### **Second Lieutenant, Chemical Corps**

James A. Davies, St. Paul

### **Second Lieutenant, Corps of Engineers**

Gary J. Boos, Minneapolis

Philip E. Miller, Waseca

Charles W. Miller, St. Paul

### **Second Lieutenant, Infantry**

David O. Naugle, New Hope

Kirby L. Smith, Minneapolis

### **Second Lieutenant, Medical Service Corps**

Patrick M. Doyle, St. Louis Park

### **Second Lieutenant, Military Police Corps**

Michael D. Johnson, Owatonna

### **Second Lieutenant, Quartermaster Corps**

Duane A. Huckell, St. Paul

Stephen J. Wilmes, Minneapolis

### **Second Lieutenant, Signal Corps**

Leon C. Boehland, Bertha

Marshall D. Frank, St. Louis Park

John P. Connelly, Minneapolis

Peter M. Solstad, Mound

William M. Decker, Minneapolis

Robert W. Vockrodt, Minneapolis

## DEPARTMENT OF NAVAL SCIENCE

### Ensign, USN

David L. Bardal, Starbuck	Vincent J. McCarthy, Massena, N.Y.
David E. Cyrus, Grand Rapids	Bruce Parizek, Deering, N.D.
Ronald J. Dusa, Delano	Michael E. Perrault, St. Paul
Michael L. Fedie, Mondovi, Wis.	Jeffrey R. Pier, Avon, S.D.
Larry R. Fetterly, Austin	Robert G. Stender, San Antonio, Tex.
Kirk A. Long, Great Falls, Mont.	James M. Valkevich, Lynnfield, Mass.

### Ensign, USNR

Norman W. Anderson, St. Paul	Michael P. Wraneshay, St. Paul
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### Ensign, CEC, USN

David H. Pankow, Faribault

### Ensign, SC, USN

Robert E. Faussner, Chicago, Ill.	John D. Overhouse, East Lansing, Mich.
Delmont S. Johnson, Browerville	

### Ensign, SC, USNR

Steven J. Odegard, Princeton	John R. Trueman, Delano
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### Second Lieutenant, USMC

Donald A. Beaufait, Grosse Pointe, Mich.	Ross T. Petersen, Minneapolis
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## DEPARTMENT OF AEROSPACE STUDIES

### Second Lieutenant, USAF Reserve

Paul S. Arneson, Minneapolis	Lowell T. McCoy, Byron
William A. Carter, St. Paul	Gregory D. Nastrom, Minneapolis
Paul C. Ciernia, St. Paul	David L. Neu, New Brighton
Gary J. Eifert, Wadena	Frederick V. Novak, Virginia
Neal M. Gendler, Albert Lea	James T. O'Brien, St. Louis Park
Ronald K. Hanson, Center City	James M. Pierce, Minneapolis
Lawrence J. Haselberger, Jr., St. Paul	Dale M. Rucker, Minneapolis
Neil L. Hawkins, Minneapolis	Stephen J. Sweeney, Minneapolis
Richard V. Hickman, Grand Rapids	David M. Wang, Minneapolis
Robert J. Kermes, Roseville	Randall N. Winterer, Minneapolis
Joseph M. Labat, Crystal	Thomas R. Yechout, St. Paul
Scott W. Madole, St. Paul	



# Candidates for Graduation

Subject to the completion of all curriculum requirements at the close of the spring quarter, degrees will be conferred as indicated on those listed below and upon such others as may meet the graduation requirements.

## GENERAL EXTENSION DIVISION

### Accounting Certificate

Egil Almaas, St. Louis Park

### Business Administration Certificate

David Charles Henderson, Minneapolis

James Richard Nelson, Superior, Wis.

Daniel George Strub, St. Paul

Kent Phillip Swanson, Edina

Frank Joseph Vanyo, White Bear Lake

### Civil Engineering Technician Certificate

William Francis Brown, St. Louis Park

John LeRoy Davidson, St. Paul Park

### Electrical Engineering Technician Certificate

Darryl Alison Thayer, St. Paul

### Engineering Science Certificate

Thomas Andre Brasseur, Minneapolis

Louis James Esterby, Coon Rapids

Gerald Fern Ostroot, St. Cloud

Thomas Anthony Peters, New

Brighton

### General Engineering Certificate

Earl Waldo Johnson, Minneapolis

### Associate in Mortuary Science

Gerald Robert Anderson, Northfield

Richard Conrad Beinhauer, Pittsburgh, Pa.

Louis James Bortolon, Jr., A.A., Rochester

Richard Joseph Brenny, Little Falls

Robert Harry Brockberg, Ihlen

Alberic Baptiste Cardinal, Maplewood

Kathleen Mae Carmody, Butte, Mont.

Timothy Joe Crouch, Cleveland, Ohio

Morton William Dahl, Spooner, Wis.

Robert D'Angelo, Middle Village, N.Y.

Bruce G. Driscoll, Flandreau, S.D.

Gail Lawrence Duerr, Louisville, Neb.

Ronald Ray Fillmer, Norfolk, Neb.

Timothy John Flanagan, Minneapolis

Andrew James Fortune, Jr., Saranac Lake, N.Y.

Richard Arthur Frank, Olivia

Glenn David Goetz, B.S.Econ., Hazen, N.D.

William Scott Haglund, St. Paul

Robert Eric Hamilton, Omaha, Neb.

Charles Wesley Harris, York, Neb.

Jerry A. Hegstrom, Montevideo

Douglas Ignatius Hoialmen, Fosston

Robert Arthur Hosman, B.A., Minneapolis

Kent Albee Lapham, Anoka

Donald Frederick Masching, Breda, Iowa

Carol Lee Miller, Edina

Joel Thomas Miller, White Bear Lake

Dennis Wade Moody, Jr., Mount  
 Airy, N.C.  
 Steven Patrick Myers, Seymour, Ind.  
 Richard Britt Myre, Richfield  
 Michael Clarke Patterson, Gothen-  
 burg, Neb.  
 Craig Algene Peterson, Willmar  
 Joel Eugene Pilgrim, St. Paul  
 Harley LeRoy Prell, Stillwater  
 Lloyd Dean Quesenberry, Redwood  
 Falls  
 Keith Delman Rasmussen, A.A.,  
 Jefferson, Iowa

William Howard Schmidt, Hope,  
 N.D.  
 Douglas Darryl Schultz, Kiron, Iowa  
 Stuart Erick Sinding, Thief River Falls  
 Robert Joseph Talian, Hobart, Ind.  
 Edward Michael Tracy, St. Paul  
 Ronald E. Troyer, Elkhart, Ind.  
 Daniel B. Tschida, St. Paul  
 Richard Laurence Turner, Golden  
 Valley  
 Thomas Joseph Weber, Melrose  
 William Frank Welke, St. Paul  
 James Heinzen Zastrow, Minnetonka

## GENERAL COLLEGE

### Associate in Arts

Tom Robert Abbott, Minneapolis  
 Robert Michael Abram, Fairmont  
 Steven Herbert Adams, Minneapolis  
 Warren Elliott Ajax, Minneapolis  
 Andrea Evelyn Alger, Minneapolis  
 Anita Marie Alle, St. Paul  
 Mary Ann Andrescik, Minneapolis  
 Patricia Susan Andrescik, Minneapolis  
 Mary Jo Josephine Anitzberger, St.  
 Paul  
 Susan Theodora Applebaum, St. Paul  
 Eugene Michael Arnal, North St. Paul  
 Lowell Floyd Arnold, Minnetonka  
 Burton Benjamin Backus, Winner,  
 S.D.  
 John Allen Bergquist, Minneapolis  
 Melanie Beth Berkey, St. Paul  
 Joseph Miles Bick, St. Paul  
 Galen William Bindewald, Sebeka  
 Ronald LeRoy Bird, St. Louis Park  
 Genavieve Mary Blomgren, Minne-  
 apolis  
 Martin Steven Boas, South St. Paul  
 Daniel Bruce Bowers, Excelsior  
 Patricia Anne Bozonie, Minneapolis  
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 Nord Bjarne Brekke, Golden Valley  
 Carolyn Faye Brewer, Minneapolis  
 Vicki Anne Buckman, St. Paul  
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 Susan Ann Byers, Minneapolis  
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Robert John Clarno, St. Louis Park  
 Theodore Russell Coey, Minneapolis  
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 Hugh William Conklin, Hartford,  
 Conn.  
 William Ralph Cook, Elko  
 Bonita Grace Cooper, St. Louis Park  
 Dwight William Cravens, Minneapolis  
 Candice Jean Danielson, St. Paul  
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 John Roman Dehmer, St. Michael  
 Carl Wayne Diem, Minneapolis  
 Sharon Darlene Drown, Salem, Mo.  
 Robert Alvin DuCharme, Minneapolis  
 James Robert Eardley, Stillwater  
 Steven William Edholm, Bloom-  
 ington  
 Bruce Michael Edwards, Minneapolis  
 George Wilfred Edwards, Bloom-  
 ington  
 Alan Donald Emory, White Bear Lake  
 Thomas Vernon Engfer, Bloomington  
 Lillie Evangeline Englin, Butterfield  
 Jeffrey Lynn Erickson, St. Louis Park  
 William David Esensten, Minneapolis  
 Jim Henry Fagerstrom, Bloomington  
 Stephen Nicholas Fecht, Minneapolis  
 Marion Marlys Finke, Robbinsdale  
 Marilyn Jean Forman, Jackson  
 Jon Robert Fuhrman, St. Paul  
 Christina Sarkiss Garabitan, Iraq  
 Helen Sarkiss Garabitan, Iraq  
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 John Paul Hoca, St. Paul  
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     Burnsville  
 John Richard Horowitz, St. Paul  
 Searle Seymour Horowitz, Minneapolis  
 Dean Zephaniah Horton, Minneapolis  
 Edward Martin Huble, Huntington  
     Park, Calif.  
 Suzanne Victoria Hubman, Mahto-  
     medi  
 Donald Raymond Hunt, St. Paul  
 Jack Arthur Ignatowicz, Minneapolis  
 James Michael Israelson, Edina  
 Bernard Oswal Jacobson, Minneapolis  
 Katherine Margaret Jenkinson, Way-  
     zata  
 Michael Howard Jiran, Minneapolis  
 David Ralph Johnson, Minneapolis  
 Duane Ernest Johnson, Long Lake  
 James Vincent Johnson, Slayton  
 Pamela Rae Johnson, Crookston  
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 Gary Lee Kelley, Minneapolis  
 Timothy William Kelly, Minneapolis  
 Steven John Ketz, Minneapolis  
 Frank Richard Klick, Minneapolis  
 Timothy O'Rourke Kohl, Bayport  
 Michael Joseph Kruchowski, South St.  
     Paul  
 David Robert Krupich, St. Paul  
 Leilani Emele Kunz, St. Paul  
 Donald Michael Lagoon, South St.  
     Paul  
 Richard Benjamin Lang, Coon Rapids  
 Marilyn Janet Langman, St. Louis  
     Park  
 Loretta Marie Larson, St. Paul  
 Mitzi Billie Latts, St. Paul  
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 Dennis George Radtke, Minneapolis  
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John Allen Rossi, Minneapolis	Mary Suzanne Tomlinson, Minneapolis
Monty Allen Rudoy, St. Louis Park	Kathleen Louise Tosier, Minneapolis
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Craig Nicholas Sicard, Minneapolis	Roger Cole Wilbur, Excelsior
John Gilbert Simonson, St. Paul	Douglas Joseph Williams, Minneapolis
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George Wayne Smith, New Richland	Leslie Virginia Yeo, St. Paul
Dawna Jean Solomonson, Minneapolis	Sandra Lea Youngquist, Richfield
Louise Helen Sorenson, Hopkins	William Zawislak, Minneapolis
Loren Ellsworth Stevens, Minneapolis	Gregory Vernon Zook, Minneapolis
Gary Wallace Suhl, Minneapolis	Terry Allen Zumberge, Minneapolis
William Nels Swanberg, Anoka	
Margaret E. Swanson, Cosmos	
Beverly Marcia Swerling, St. Paul	
Gregory Lewis Sycks, Minneapolis	

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### Associate in Liberal Arts

Carol Ann Hanson Arvig, Brainerd	Florence Olivia Johnson, St. Paul
Curtis G. Bennyhoff, Minneapolis	Eugene Lawrence Kelzer, Bellingham
Paul Arthur Berg, Minneapolis	Linda Diane Koltos, New Hope
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Judith Ann Wallner Burdick, Minneapolis	Terence Maynard LeMay, Crystal
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Deborah Jo Diessner, Minneapolis	Pearl Margaret Morgan, Minneapolis
Elvera Mae Erickson, Minneapolis	Dorothy Eileen O'Brien, Minneapolis
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	Martha Jane Struxness, Minneapolis

Harold Easterlin Todd, Minneapolis  
Lawrence Hubert Toering, Minneapolis  
Randall David Wehler, Brewster

Charles Douglas Wilcox, St. Paul  
Cynthia Ann Smith Williams, St. Paul  
Cecilia Anne Wirth, Minneapolis  
Jean Alden Yob, Bloomington

## Bachelor of Arts

*Honors citations are provisional and will not become final until  
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Thomas Leonard Aarestad, Minneapolis  
Christine Ann Abrahamsen, Aurora  
Ronald Gary Abrahamson, Bloomington, *CUM LAUDE, Economics*  
Ricki M. Abrams, Minneapolis  
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Dick Waldemar Aften, Brooklyn Park  
Charles Thomas Agan, Minneapolis  
Kathy Michelle Albers, Minneapolis  
Merry Lynn Albert, Minneapolis, *SUMMA CUM LAUDE, American Studies*  
James Steven Alcorn, Walnut Grove  
Lorry Patricia Alexander, Wayzata  
Charles Frederick Aling, Edina  
Judith Helene Allard, St. Paul  
Donna Wycoff Alvarado, Minneapolis  
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Ann Lee Anderson, Austin  
Gary Cornel Anderson, Minneapolis  
Jane Margaret Brady Anderson, Minneapolis  
Janet Kathleen Anderson, Minneapolis  
Jennifer Susan Cotton Anderson, Minneapolis  
John Lawrence Anderson, St. Paul  
Lorenelle Lee Anderson, A.A., Worthington  
Merril Thomas Anderson, Aitkin  
Michael Hugh Anderson, *International Falls, MAGNA CUM LAUDE, Journalism*  
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Rowland Leigh Angvall, Minneapolis  
Robert Miller Applebaum, St. Paul  
Michael Avron Appleman, Minneapolis  
Susan Carol Armstrong, Winnebago  
Paul Stephen Arneson, Minneapolis  
Jeffrey Robert Arnold, Minneapolis, *CUM LAUDE, Economics*

Mary Lou Rosen Arnold, Minnetonka  
Marjorie Ruth Dalquist Asheim, Edina  
Patricia Lee Johnston Askerman, St. Paul  
Elaine Mary Asper, Clifton, N.J.  
David Roger Asplin, Minnetonka  
Anthony Stanford Aspnes, Edina  
Ronald Duane Attlesey, Lyle  
Merrily Diane Auerbach, Minneapolis, *SUMMA CUM LAUDE, English*  
Kay Anne Aufderheide, New Ulm  
Ann Katherine Aurelius, St. Paul  
Suzanne Claire Austgen, Calumet City, Ill.  
Thomas Nelson Awsumb, Edina  
Robert William Babbitt, Minneapolis, *MAGNA CUM LAUDE, Psychology*  
Diane Margaretha Bachaus, LeSueur  
Linda Lee Bachel, A.A., Hibbing  
Carol Ann Bacon, Minneapolis  
Harold Wesley Baichtal, Jr., Freeport, Tex.  
Brent Alan Baker, Chaska  
Gordon Frederic Ballman, Mankato  
Ina Marie Duncan Banks, Faribault  
Charles Bans, St. Paul, *MAGNA CUM LAUDE, Mathematics*  
Judith Anne Barnes, St. Paul  
Norman Joseph Barrett, Jr., St. Paul  
Paul Vincent Barrow, Jr., Minneapolis  
Wayne Edward Barry, Milwaukee, Wis.  
Robert Paul Barsness, St. Paul  
Thomas Joseph Bartoletti, Minneapolis  
Caroline Barton, Minneapolis  
Merrily Jan Van Valkenburg Bartsh, Robbinsdale  
Lauren Leroy Bast, Hopkins  
Nancy Jean Bathrick, Hastings  
MaryBeth Bauries, St. Paul

Stephen Henry Baxter III, Minneapolis  
 Nancy Joyce Beardslee, Minneapolis  
 William Richard Beasley, Grand Rapids  
 Donald Allen Beaufait, Grosse Pointe Woods, Mich.  
 Peter Ernest Joseph Becker, Minneapolis, CUM LAUDE, German  
 Jeffrey St. Clair Beeman, Minneapolis  
 Ronald Lee Bell, Minneapolis  
 Lyle Walfred Belling, Minnesota Lake  
 Roberta Lee Benike, Roseville  
 Maxine Susan Benjamin, St. Louis Park  
 Barbara Ann Berg, Bloomington  
 Patricia Ann Berg, Duluth  
 Marie Christine Bergh, St. Charles  
 James Alan Berlin, A.A., Buhl  
 John Edward Berglund, Virginia  
 Alan Reuben Bergman, Minneapolis  
 Alice Marie-Antoinette Bernard, Woodbury  
 Nancy Mackintosh Berner, Minneapolis  
 Bruce Arthur Berntson, Fridley  
 Gary Glen Berntson, Minneapolis  
 George Prescott Berry, Minneapolis  
 Mary Catherine Bertch, St. Paul  
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 Ellyn Corinne Beugen, Minneapolis, CUM LAUDE, Sociology  
 John Bigalke, Little Falls  
 Susan Marie Biorn, Minneapolis  
 Michael Robert Bjork, Minneapolis  
 Karen Frances Bjorklund, A.L.A., St. Paul  
 Randi Elizabeth Bjorklund, Hopkins  
 Ronald James Bjornberg, St. Paul  
 Helga Bjarney Bjornson, Minneapolis, CUM LAUDE, Scandinavian  
 Paul M. Blad, Hector  
 Bonita Ann Bleedorn, Richfield  
 Meredith Ann Blehert, St. Paul, MAGNA CUM LAUDE, Zoology  
 David L. Bloch, Maplewood, N.J.  
 Anthony Douglas Blons, St. Paul  
 Archie Edward Boklep, Franklin  
 Bruce McCarron Bomier, Edina  
 Kathleen Ann Borst, Rochester  
 Sharon Lee Bouma, Stillwater  
 Larry Wayne Boutelle, Rochester  
 Katherine Ann Boyle, St. Paul  
 Warren Chapman Bradbury, Crane Lake  
 Barbara Joan Bradish, A.A., Virginia  
 James Richard Brandenburg, Bloomington, MAGNA CUM LAUDE, Economics  
 Diane M. Bratter, St. Paul  
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 Stephen Cyril Brawerman, Minneapolis  
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 Leonard E. Brovold, St. Louis Park  
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 Douglas Alan Bruce, Jr., Minneapolis  
 William James Brudvik, Mohall, N.D.  
 Jeremiah Lee Brunnette, Rochester  
 Carolyn Jeanne Buck, St. Paul  
 Frederick Rossi Buck, Fairmont  
 Lynda Kathryn Bundtzen, Minneapolis, SUMMA CUM LAUDE, English  
 Constance Gay Bundy, Alexandria  
 Beth Garlid Burkhardt, Wabasha  
 Edward Donald Burns, Minneapolis  
 Robert Philip Burt, Minneapolis  
 Evelyn Lorene Busch, B.S., St. Paul  
 Kenneth David Butler, Cloquet  
 Thomas Clayton Butsch, Albert Lea

Richard Arthur Byrne, Minneapolis  
 Roy Lee Caldwell II, Lake Wales,  
 Fla.  
 Robert Gaylord Callaway, A.L.A.,  
 Willmar  
 Alan Fredrick Calof, Minneapolis  
 Lee Price Campbell, Lake Crystal  
 Sharon Roxanne Cannon, St. Paul  
 Curtis LeRoy Carlson, Minneapolis,  
 CUM LAUDE, Philosophy  
 Dennis Lee Carlson, A.A., Orr  
 George Eugene Carlson, Jr., Fridley  
 James Richard Carlson, Minnetonka  
 Pamela Ann Carlson, Edina, CUM  
 LAUDE, Premedicine  
 Dale Leslie Carlton, Minneapolis  
 Jay Joseph Carpenter, Green Bay, Wis.  
 Milton James Carr, St. Paul  
 Georgia Ann Gese Carter, St. Paul,  
 SUMMA CUM LAUDE, Sociology  
 Christopher Paul Ceman, Minneapolis  
 William James Cermak, Jr., Hopkins,  
 SUMMA CUM LAUDE, Music  
 Patricia O'Neal Chaffin, Washington,  
 D.C.  
 Mary Sue Challas, St. Paul, MAGNA  
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 John Willard Champine, Fairmont  
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 apolis  
 Ann Ellen Chesterman, Albert Lea  
 Dennis Lee Chez, Hibbing  
 Robert Lloyd Childress, Mora  
 Cheryl JoAnne Christensen, Hutchin-  
 son, SUMMA CUM LAUDE, Political  
 Science  
 Diane Faye Christensen, Minneapolis,  
 MAGNA CUM LAUDE, Psychology  
 James Harold Christianson, Minne-  
 apolis  
 Raymond Earl Christianson, Fairmont  
 Robert Craig Christianson, Minne-  
 apolis  
 Paul Charles Ciernia, St. Paul  
 Stephen Douglas Clover, Minneapolis  
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 Susan Mary Cole, Bismarck, N.D.  
 Terry Stuart Coleman, Minneapolis,  
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 Pamela Joy Comstock, St. Paul  
 John Patrick Connelly, Minneapolis  
 Henry Stephen Conroy, St. Paul  
 Donna Marie Cook, Winnebago  
 Judd Stuart Copeland, Minneapolis  
 Sandra Kaye Cornelius, Minneapolis  
 Gerald Wayne Cortright, Marshall,  
 MAGNA CUM LAUDE, Anthropology  
 Thomas Paul Costello, Minneapolis  
 Paul Francis Courteau, St. Paul  
 Richard Patrick Cox, Minneapolis,  
 SUMMA CUM LAUDE, Russian  
 Kathleen Dell Crane, Minneapolis  
 Peggy Reimann Creider, New York,  
 N.Y., SUMMA CUM LAUDE, History  
 John Lyle Crivits, Minneapolis  
 Marnie Ann Cummings, Minneapolis  
 Donald Thomas Cundy, Jr., Minne-  
 apolis  
 James William Curran, Waseca  
 Joseph Richard Custer, St. Louis Park  
 Daniel Bruce Cybyske, Minneapolis  
 David Eugene Cyrus, Grand Rapids,  
 CUM LAUDE, Geography  
 Anthony John Dahl, St. Paul  
 Jennifer Ann Dahlby, St. Paul  
 Julie Ann Dahle, St. Louis Park  
 Terry Wayne Dahlquist, Minneapolis  
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 Gary Alan Dallmann, Dassel  
 Paul Sherwood Daniels, Winnetka, Ill.  
 Sage Ann D'Aquila, Wayzata  
 Fred Richard Davis, Minneapolis,  
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 Susan Carolyn Defoe, St. Paul  
 Russell Gene Degerstedt, St. Paul  
 Judith Lowell DeLaittre, Hopkins  
 Robert Wayne Delastrada, St. Paul,  
 CUM LAUDE, Child Psychology  
 Natalie Ann DeLue, Hopkins  
 Kandi Sedate Demaray, Mankato  
 Steven Dan DeRuyter, Sunburg,  
 MAGNA CUM LAUDE, Political  
 Science  
 Stephen Lawrence Desnick, Minne-  
 apolis  
 John William Deverell, St. Paul  
 William Louis DeWinter, Wayzata  
 Katherine Edith DeWitt, St. Paul  
 John Daniel Diamond, North St. Paul

Mary Angela Diercks, Minnetrista  
 Village  
 Richard Joseph Digatono, Robbinsdale  
 David Warner Doerr, Wayzata  
 Dorothy Inez Donaldson, Baton  
 Rouge, La.  
 Wilbur Fred Dorn, Jr., Minneapolis  
 John Louis Dosen, A.A., Chisholm  
 John Alfred Dougherty, Jr., Charlton,  
 Mass.  
 James Robert Downham, Minneapolis  
 Patrick Michael Doyle, St. Louis Park  
 David Demetrius Dragotis, Hopkins  
 Joy Lynne Dudley, Excelsior  
 Judith Ellen Dupre, Columbia  
 Heights  
 Yuan Ming Chu Durley, Lexington,  
 Mass., *SUMMA CUM LAUDE*, Chinese  
 Beatrice Helen Earl, Sioux Falls, S.D.  
 Newell Kent Eaton, Wheaton, Md.,  
*CUM LAUDE*, Psychology  
 Brian Terry Ebeling, Minneapolis,  
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 Nancy Hewitt Ebeltoft, Fargo, N.D.  
 Milton Leonard Edgren, Minneapolis  
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 Mass.  
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 Donald Carl Ekstrom, Minneapolis  
 Bertil William Ekstrom, Jr., Rochester  
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 Theodore Gordon Elmquist, St. Paul  
 Judy Lynne Emmings, St. Paul  
 Elwood August Enerson, St. Paul  
 Harry Engel, Minneapolis  
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 Patrick James Eppel, Bloomington  
 John Lawrence Erickson, New Ulm  
 Jon Thomas Erickson, White Bear  
 Lake  
 Thomas Edward Erland, Golden  
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 Ronelle Kathleen Ewing, Minneapolis  
 Jeanne Lynette Ewy, St. Paul  
 Florence Elizabeth Fadell, Minne-  
 apolis  
 Sally Lauren Fagerlie, Baudette  
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 querque, N.M.  
 Darrell Joseph Fasching, Minneapolis  
 Robert Eugene Faussner, Chicago, Ill.,  
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 Paul  
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 LAUDE*, *Mathematics*  
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 Park  
 Faith Evangeline Franks, Pine City  
 Linda Louise Franzen, Minneapolis  
 Charles William Freeburg, Owatonna  
 Mary Alice Freeman, Minneapolis  
 Dennis Royal Freidig, Willmar  
 Jane Claire Freiermuth, St. Paul  
 Marc William Freimuth, Minneapolis  
 Frederick Elden French, Minneapolis  
 Mary Louise Frentz, Minneapolis,  
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 Thomas Philip Fulton, St. Louis Park  
 Shirley Louise Sween Furber, Granite  
 Falls  
 Robert Bellows Gage, Minneapolis  
 Edward Patrick Gallagher, Faribault  
 William Fred Garber, St. Louis Park



Steven Robert Garfin, Minneapolis,  
 CUM LAUDE, *Mathematics*  
 Lindsay Raeburn Gauthier, Hopkins  
 Vicki Lynn Gedosch, Waseca, MAGNA  
 CUM LAUDE, *Studio Arts*  
 Vance Fred Gellert, West St. Paul  
 Jeffry Jay Gepner, Winona  
 Susanne Marie Gerszewski, Wadena  
 Donald Raymond Gerten, Inver Grove  
 Heights  
 Keith Dean Gilbertson, Minneapolis  
 Jean Lorraine Gilfillan, Edina  
 Audrey Karen Gilman, Willmar  
 Susan Kay Gimmetad, Robbinsdale  
 Richard Charles Ginnaty, St. Paul  
 Wayne Gordon Gisslen, Red Wing,  
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 Michael Jefferey Goedert, St. Paul  
 Park  
 Elaine Janice Goldberg, St. Louis Park  
 Larry Sheneha Goodlund, Minneapolis  
 Ronald David Goodman, St. Louis  
 Park  
 Marjorie Ann Gottschalk, Edina  
 Richard Walter Gozola, Minneapolis  
 Donald Ernest Grambsch, A.A., Min-  
 neapolis  
 Marilyn Neuman Gray, Carleton,  
 Mich.  
 Paula Kay Green, Rochester  
 Richard Charles Green, Minneapolis  
 James Ted Greenwell, St. Paul, CUM  
 LAUDE, *Italian*  
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 N.M.  
 John Andrew Gregg, Richfield  
 Stephen Charles Gretz, Faribault  
 Richard Iver Gribstad, Minneapolis  
 Linda Jean Kelsey Grivna, St. Paul  
 James Charles Grochowski, A.A., St.  
 Paul  
 Janet Sue Gross, Dexter  
 Douglas Delmer Grove, Bigfork  
 Angelina Marie Guggenberger, St.  
 Cloud  
 Michael David Gunlogson, Clarkfield  
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Franklin Samuel Lange, St. Louis Park, WITH DISTINCTION  
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Michael Philip Miller, St. Paul  
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 Todd Lloyd Bachman, Minneapolis, Agriculture  
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 Larry Byron Bunge, Eitzen, Forestry, WITH DISTINCTION  
 Duane August Burau, Fergus Falls, Agriculture  
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 Gail Marie Christensen, Ceylon, Home Economics  
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 Gary Peter Ewert, Mountain Lake, Forestry  
 Eugene Joseph Fischer, Rosemount, Agriculture, WITH DISTINCTION  
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 Kent Franklin Hall, Lindstrom, Forestry  
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 Duane John Hanson, St. Paul, Forestry  
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 Bruce William Hawkinson, A.A., Minneapolis, Agriculture  
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 Vicki Malissie Heckerson, Spring Valley, Home Economics  
 Judith Marie Hempel, Fridley, Home Economics

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 Richard Stuart Holm, Rose Creek, Agriculture  
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 Timothy John Kennedy, Murdock, Agriculture  
 Dorothea Marie Knutson, Magnolia, Home Economics  
 Francis Gilbert Koenig, Cudahy, Wis., Forestry  
 Richard Peder Kvols, Madison, Agriculture  
 Robert Forest Lamprecht, Plainview, Agriculture  
 David Herbert Larson, Mabel, Agriculture, WITH DISTINCTION  
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 Warren Edward Larson, St. James, Agriculture  
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 Arleen Gloege Leslie, Canby, Home Economics  
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 Lewis Richard Lohn, Fosston, Forestry  
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 Sandra Adeline Miller, Montgomery, Home Economics  
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 John Robert Muhvich, Ely, Forestry  
 Ward Elliot Nefstead, Hendricks, Agriculture, WITH DISTINCTION  
 Veronica Josephine Netteberg, Bethel, Home Economics

- Gary Frank Neuman, Dover, Agriculture
- Nolan Henry Noren, Chisago City, Forestry
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- Thomas Charles Osborn, Cloquet, Agriculture
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- Jennifer Jo Person, Minneapolis, Home Economics, WITH HIGH DISTINCTION*
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- Elizabeth Lucy St. Louis, Odenton, Md., Home Economics
- Gregory Edmund St. Onge, Superior, Wis., Forestry
- Charles John Sartell, A.A., Wadena, Agriculture
- Patricia Mary Schaack, Hastings, Home Economics
- Burton John Schafer, Buffalo Lake, Agriculture
- Charles Henry Schmidt, Marietta, Agriculture
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- Lydon Olander Sletto, Brandon, Agriculture
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- Paul Erik Stake, Cambridge, Agriculture
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- Spencer Ralph Stone, Minneapolis, Forestry
- Joe Robert Stransky, Owatonna, Agriculture
- Lydell Keith Struck, St. Peter, Agriculture
- Dennis Leroy Swanson, New York, N.Y., Agriculture
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- Marlys Ann Totushek, Minnetonka, Home Economics
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- Arnold Nicholas Vagle, Biwabik, Forestry, WITH DISTINCTION*
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- Allan Clarence Vergin, Rockford, Agriculture
- James William Wain, Floodwood, Agriculture
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Daniel Michael Watry, A.A., Adrian, Agriculture  
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 Kathryn Marie Wels, Lewisville, Home Economics, WITH DISTINCTION  
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 Ardys Ann Bakken, Reading, Home Economics Education  
 Gary Ronald Banick, Pierz, Agricultural Education  
 Larry LeRoy Baumgardt, A.A., Buffalo Lake, Agricultural Education  
 Donald Albert Berger, Dent, Agricultural Education  
 Norene Ann Botz, Long Prairie, Home Economics Education  
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 Constance Joanne Burnside, Minneapolis, Home Economics Education, WITH DISTINCTION  
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 Richard Lee Finger, Springfield, Agricultural Education  
 Sharon Anne Fruetel, Bemidji, Home Economics Education, WITH DISTINCTION  
 Jean Ann Geiser, Bluffton, Home Economics Education, WITH DISTINCTION  
 Roger Glen Gilbertson, Battle Lake, Agricultural Education  
 Alice Cecilia Gregory, Belle Plaine, Home Economics Education  
 Gwenyth Kathryn Griffith, Caledonia, Home Economics Education  
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 Francine Renae Holm, Halma, Home Economics Education  
 Patricia Lynn Huckell, Hopkins, Home Economics Education

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- Colleen Kay Jolly, Tracy, Home Economics Education, WITH DISTINCTION
- Larry James Klingbeil, A.A., Slayton, Agricultural Education
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- Colleen Helen LeBlanc, Little Falls, Home Economics Education
- Donald Allen Lee, Fairfax, Agricultural Education
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- Katherine Margaret Lohmann, Zumbrota, Home Economics Education
- Loretta Charlotte Reid Lothner, Red Wing, Home Economics Education, WITH HIGH DISTINCTION
- Roselyn Ann Lucas, Browerville, Home Economics Education
- Janice Sue McKenney, Madison, Home Economics Education, WITH DISTINCTION
- Susan Lee Mecklenburg, South St. Paul, Home Economics Education, WITH DISTINCTION
- Kerry Lee Menge, Eden Prairie, Home Economics Education, WITH DISTINCTION
- William Marvin Miller, Waseca, Agricultural Education
- Rita Putnam Mix, North St. Paul, Home Economics Education, WITH DISTINCTION
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- Sue Ellen Oyster, Hewitt, Home Economics Education
- Jerelyn Leslie Peterson, Minneapolis, Home Economics Education
- Mary Jane Pribyl, Maple Lake, Home Economics Education, WITH DISTINCTION
- Gene Ordell Quale, Sunburg, Agricultural Education, WITH DISTINCTION
- Paulene Clare Richter, Wadena, Home Economics Education
- Barbara Jean Rollins, Weaver, Home Economics Education
- Janet Marie Rumpza, Delano, Home Economics Education
- David Edward Schroeder, Janesville, Agricultural Education
- Laurel Jean Severson, St. Paul, Home Economics Education
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- Kenneth Reuben Stark, Kensington, Agricultural Education
- David Werner Stegemann, Wabasha, Agricultural Education
- Lyle Duane Talley, Delavan, Agricultural Education
- James Michael Taylor, Austin, Agricultural Education
- Edward Chester Terry, Northfield, Agricultural Education
- Karen Louise Troolin, Esko, Home Economics Education, WITH DISTINCTION
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- Roger Wayne Weness, Adams, Agricultural Education
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Russell Charles Borgendale, Dawson  
Kent Robert Harder, Mountain Lake  
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Richard Allen Larson, Northfield  
Wayne Stuart Larson, Slayton  
Charles Louis Nisse, Hutchinson,  
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Mo.  
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Dean Francis Anderson, North Man-  
kato  
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Mark Lloyd Anderson, Minneapolis,  
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Roger Wendell Anderson, Minne-  
apolis  
Ronald Warren Anderson, B.A., Min-  
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Roys David Andrews, South St. Paul

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WITH DISTINCTION  
Sandra Lee Barton, Minneapolis  
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Jean Lorraine Beck, St. James, WITH  
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Gretchen Louise Becker, Minneapolis  
Nancy Jeanne Becker, Minneapolis,  
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 Gerald Walter Berglin, Minneapolis  
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 Diane Christine Berthiaume, St. Paul  
 Laurel Marie Berthiaume, Hamel  
 Genelle Ann Bethke, New Richland  
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 Wash., WITH DISTINCTION  
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 watin  
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 Jeanne Beverly Johnson, Robbinsdale, WITH DISTINCTION  
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 Mary Jane Johnson, South St. Paul  
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 Paul, WITH DISTINCTION  
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 wood, WITH DISTINCTION  
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 Miland LaVerne Lathrop, Minneapo-  
 lis, WITH HIGH DISTINCTION  
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 apolis, WITH DISTINCTION  
 Brian Robert Lensink, Crystal, WITH  
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 Roberta Marie Lepore, Minneapolis  
 Philip Keith Leverentz, Robbinsdale  
 Daniel James Lewandowski, Minne-  
 apolis  
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 lis, WITH DISTINCTION  
 Samuel Joel Lichterman, Minneapolis  
 Ruth Anne Lien, Minneapolis  
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 Susan Burling Lilja, St. Paul  
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 lis, WITH DISTINCTION  
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 Brighton, WITH DISTINCTION  
 Jean Elizabeth Lindell, St. Paul  
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 DISTINCTION  
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 Dag William Grudem, B.A., Jackson  
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 Conrad Alexander Hansen, B.E.E., West St. Paul  
 Howard Ernest Hanson, B.C.E., Hayward, Wis.  
 Larry A. Hanson, B.A., Appleton, CUM LAUDE  
 Daniel Weir Hardy, Galesburg, Ill.  
 Robert J. Hauer, Jr., B.A., St. Paul  
 Robert Alan Heiberg, B.A., Minneapolis, SUMMA CUM LAUDE  
 Joan Lawrence Heim, B.A., Minneapolis, CUM LAUDE  
 Robert John Hennessey, B.S.Econ., St. Paul  
 William Rexford Hibbs, B.S., Billings, Mont., CUM LAUDE  
 Gary Warren Hoch, B.A., Duluth  
 Dennis Ray Homerin, B.A., Albia, Iowa  
 Richard Wayne Huffman, B.A., Edina  
 Clark Myron Iverson, B.B.A., Vermillion, S.D.  
 Gordon Lloyd Jensen, B.A., Minneapolis  
 G. Robert Johnson, B.A., Minneapolis  
 Robert Maurice Allen Johnson, B.S.B., Anoka  
 Roger Allen Johnson, B.A., Duluth, CUM LAUDE  
 William James Jones, B.A., Sioux Falls, S.D.  
 Kenneth I. Jonson II, B.A., Minneapolis, MAGNA CUM LAUDE  
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 Patrick Thomas Kelly, B.A., Montrose  
 Thomas Michael Kelly, B.A., Minneapolis  
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 Lewis Michael Koss, B.A., New York, N.Y.  
 Frank Ronald Krohn, B.A., St. Paul  
 William Arthur Kutzke, B.S., Madison, Wis.  
 James Chris Ladegaard, B.S., Spirit Lake, Iowa  
 Ronald Lee Laumbach, B.M.E., Lake City, Iowa, CUM LAUDE  
 Jeannie Jo Lavorato, B.A., White Bear Lake  
 John Harry Lewis, B.A., Minneapolis  
 James William Licke, B.A., Deer River, CUM LAUDE  
 Harry Shalit Lippman, B.A., Minneapolis  
 Robert Louis Lowe, B.A., Duluth, CUM LAUDE  
 Richard Charles Lundell, B.B.A., Granite Falls  
 James Stuart Lynden, B.A., Edina  
 Gary Francis Lyons, B.S., LaCrosse, Wis.  
 Reed King Mackenzie, B.A., Eau Claire, Wis.  
 John Arthur MacMaster, B.A., Minneapolis  
 Robert Harrison Magie, B.A., Duluth  
 Wilfred Russell Mann, B.S., Okmulgee, Okla.  
 Stephen H. Marcus, B.A., New York, N.Y.

Harry Stratton Martin III, Edina  
 Gary Donald McDowell, B.S., Rapid  
 City, S.D.  
 David F. McElroy, Jr., B.A., Minne-  
 apolis, CUM LAUDE  
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 Robert James McNish, Jr., B.A.,  
 Rochester  
 Freddy Sol Meinfelder, B.A., Minne-  
 apolis  
 Gale Robert Mellum, B.A., Hibbing,  
 MAGNA CUM LAUDE  
 Robert George Mitchell, Jr., B.A.,  
 Wayzata  
 Dennis John Neeser, B.A., Lewiston  
 David George Nelson, B.A., Juneau,  
 Alaska  
 Charles Loomis Norton, B.B.A., St.  
 Paul  
 Forrest Dickerson Nowlin, Jr., B.A.,  
 Minneapolis  
 Michael John O'Loughlin, B.M.E.,  
 Rochester  
 Stephen Hayes Parsons, B.A., Naper-  
 ville, Ill.  
 James Harold Paulsen, Mankato  
 Douglas James Peterson, B.A., Duluth  
 Pierre Norman Regnier, B.A., St. Paul  
 John Joseph Ribnick, B.A., Minne-  
 apolis  
 Stephen Donald Richards, B.A., Way-  
 zata, MAGNA CUM LAUDE  
 Patrick James Roche, Jr., B.S., Inter-  
 national Falls  
 John Charles Rosholt, B.A., Minne-  
 apolis  
 Morry Newell Rothstein, B.A., St.  
 Paul  
 Douglas L. Ruth, B.A., Canby  
 James Paul Sandberg, B.A., Owatonna  
 Robert Allan Schmelzer, B.A.,  
 Rochester  
 Larry M. Schmidhuber, B.A., St. Paul  
 Raymond Francis Schmitz, B.A.,  
 Austin  
 James Albert Schultz, B.A., Minneiska  
 Marvin Lance Schurke, Oak Lawn, Ill.  
 Michael L. Schwab, B.A., St. Paul  
 James Robert Schwebel, B.A., Minne-  
 apolis  
 Ronald Duane Selander, B.A., Minne-  
 apolis  
 David Clark Sellergren, B.A., Red  
 Oak, Iowa  
 David Arthur Shulman, B.A., B.S.,  
 Rochester  
 Harry Albert Sieben, Jr., B.A.,  
 Hastings  
 Mark Tinkham Signorelli, B.A.,  
 Duluth  
 Michael Douglas Sommerville, B.A.,  
 Minneapolis, CUM LAUDE  
 John Michael Steele, B.A., Minne-  
 apolis  
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 Robert Joseph Tansey, Jr., B.A., St.  
 Paul  
 William Reese Tempest, Gresham,  
 Ore., CUM LAUDE  
 Robert Joseph Tennesen, B.A., Lis-  
 more  
 John William Thiel, B.A., Minneapo-  
 lis, MAGNA CUM LAUDE  
 Reynolds Brown Thomas, Jr., B.A.,  
 Fort Dodge, Iowa  
 Peter Jeffrey Thompson, B.Met.E.,  
 Minneapolis  
 Paul Reginald Trigg III, B.A., Min-  
 neapolis  
 James Linden Tucker, B.A., Minne-  
 apolis, CUM LAUDE  
 Robert Marshman Wattson, B.A.,  
 Minneapolis, CUM LAUDE  
 Alan William Weinblatt, B.A., St.  
 Paul, CUM LAUDE  
 David William Welty, B.A., West  
 Concord  
 Richard Austin Wexler, Beach Haven,  
 N.J.  
 Andrew Franklin Whitman, B.S.,  
 M.B.A., Ph.D., Minneapolis  
 Edward Raymond Wholl, B.A., Flush-  
 ing, N.Y.  
 Thomas Edward Whyatt, B.A., St.  
 Paul  
 Edward L. Winer, B.A., Minneapolis,  
 CUM LAUDE  
 John Brooks Winston, B.S., Minne-  
 apolis  
 John David Wise, B.A., Minneapolis  
 Thomas Laird Yaeger, B.A., Rochester

# COLLEGE OF VETERINARY MEDICINE

## Bachelor of Science

- Maitama Yusuf Ahmed, Kano, Nigeria  
Philip Henry Berends, Clarkfield  
Stephen Leonard Berg, Shoreview  
David Ludger Bourget, Cadott, Wis.  
Terry James Buchli, Arcadia, Wis.,  
WITH DISTINCTION  
Mark Gregory Burns, Madison, Wis.,  
WITH DISTINCTION  
Gary Donovan Daniels, Eyota  
David Monroe Ennis, B.S., Mt. Kisco,  
N.Y., WITH DISTINCTION  
Arleen June Freeman, Richfield  
Keith Alvar Joseph Friendshuh, Monticello  
Linda Ruth Gandrud, B.S., Owatonna  
Jeffrey William Gaver, Dousman,  
Wis.  
Dennis Carl Geisler, Exeland, Wis.  
Steven R. Gilbertson, Bloomington  
Daniel Albert Goller, Cornell, Wis.  
John Charles Gramith, Richfield,  
WITH DISTINCTION  
Leland John Gross, Ellsworth, Wis.  
Jerry Allen Henke, Buffalo Lake  
Gerald Thomas Hoffman, Annandale  
Thomas Daniel Huhnerkoch, Nevis  
R. Bruce Johnson, St. James  
Rodney George Johnson, Roseau  
Arnold Gervas Jostock, Lake City,  
WITH DISTINCTION  
Curtis L. Krieg, Alberta
- Donn Arthur Moll, Sleepy Eye  
Donald Eugene Nelson, Eau Claire,  
Wis.  
Diane Sue Trennepohl Newell, Minneapolis  
Elliott Bernard Nudell, Minneapolis  
Marvin Joseph O'Connell, Waverly  
Jerry Dean Olson, Dassel, WITH HIGH  
DISTINCTION  
Michael Edward Orman, B.A., Duluth  
Arlan Peary Paulson, Jackson  
Jon Jeremy Paulson, Hills  
Arthur John Posch, St. James  
Larry Dale Russell, Montevideo  
Kenneth Paul Sarauer, St. Paul  
Rodger D. Schneck, Ortonville  
Patricia Nadmi Schultz, Faribault,  
WITH HIGH DISTINCTION  
Arlynn Walter Schwanke, Westfield,  
Wis.  
Bradley Edson Seguin II, Alma Center, Wis.  
Larry Martin Slinden, Atwater  
Larry Norman Swenberg, Red Wing,  
WITH DISTINCTION  
Larry James Tischer, Clara City  
Joseph G. Valenta, B.S., St. Paul  
Helmuth Von Bluecher, Wayzata  
Jerrold Lee Woods, New Richmond,  
Wis.  
John Scott Wright, St. Louis Park

## Doctor of Veterinary Medicine

- Douglas Harry Anderson, B.S.,  
Braham  
Charles Eric Arntson, B.S., Crystal  
George Louis Benesh, B.S., Elk River  
Daryl Dean Buss, B.S., A.A., Rushmore  
Douglas Wayne Carlson, B.S., Sandstone  
Gary Carrol Cassel, B.S., Dover  
Alvina Carol Cook, B.S., Lyle  
Dennis David Copeland, B.S., Badger  
Gary William Dehne, B.S., Holloway
- Robert Victor Engebretsen, B.S.,  
West DePere, Wis.  
George Carl Engstrom, B.S., Duluth  
William Carl Fynboh, B.S., Montgomery  
Robert S. Gehrman, B.S., Minnetonka  
Bonnie Veryle Gustafson, B.S., Maple Plain  
Lyle Edward Hansen, B.S., Fond du Lac, Wis.  
Daniel Craig Hartnett, B.S., St. Paul Park

Jay A. Heezen, B.S., Plankinton, S.D.  
 Wayne Martin Jacobs, B.S., Fergus Falls  
 Gerald Wayne Jacobson, B.S., Grand Meadow  
 Keith Averill Johnson, B.S., Minneapolis  
 Thomas Lloyd Johnson, B.S., Minneapolis  
 Thomas F. Kurtin, B.S., Cudahy, Wis.  
 James Franklin Larson, B.S., Benson  
 Henry Edward Lawston, B.S., Canton  
 Gary Robert Leff, B.S., Hector  
 Morris Allen Link, B.A., B.S., Glenhaven, Wis.  
 Bruce Herbert Liveringhouse, B.S., Crystal  
 Marvin Ray Maas, B.S., Jamestown, N.D.  
 Patrick Joseph McKeever, B.S., Oak Island  
 John Joseph Melancon, B.S., St. Paul  
 Christ Vernon Richard Mueller, B.S., Marshfield, Wis.  
 Gene William Nagel, B.S., Belle Plaine  
 Dale Thomas Neirby, B.A., Moorhead  
 Dennis Leland Nelson, B.S., Blue Earth  
 Charles David Newton, B.S., Minneapolis  
 Edward Osterman, B.S., Brooklyn, N.Y.

A. Andrew Overby, B.S., Wolverton  
 Robert Darwin Peters, B.A., B.S., St. Ansgar, Iowa  
 John Fredric Petersen, B.S., Minneapolis  
 Allan Carl Peterson, B.A., B.S., Brandon  
 Charles Melvin Pieper, B.S., Henning  
 Kent Martin Rosenblum, B.S., St. Paul  
 William Alexander Rotenberger, B.S., Lisbon, N.D.  
 Thomas Arthur Rutz, B.S., Brussels, Wis.  
 George Joseph Schamber, B.S., Milwaukee, Wis.  
 Ronald John Scheuring, B.S., Iona  
 Jerald David Spray, B.S., Elkton  
 James Ray Tripp, B.S., Sparta, Wis.  
 Adrian Fred Van Dellen, B.S., Crookston  
 Robert James Velure, B.S., Kathryn, N.D.  
 De Wayne Harold Walker, B.S., Minneapolis  
 Richard Herbert Watkins, B.S., St. Paul  
 James Lewis Wilkus, B.A., B.S., West St. Paul  
 Bradford Cassius Yoho, B.S., Duluth  
 Glen LeRoy Zebarth, B.S., Brandon

## SCHOOL OF DENTISTRY

### Graduate Dental Hygienist

Mary Ellen Abrahamson, Minneapolis  
 Louraine Marjorie Bakke, Minneapolis  
 Joan Lu Boelter, Valley City, N.D.  
 Patricia Ann Bryan, St. Paul  
 Kathryn Kaye Bull, Kalispell, Mont.  
 Catherine Billings Cline, Minneapolis  
 Carla Ruth Cornelison, Minneapolis  
 Ann Marie Finnegan, New Prague  
 Marianne June Fratzke, Watertown  
 Katherine Theresa Golden, Menomonee, Wis.  
 Kathryn Townsend Gragg, St. Paul  
 Ann Rachel Hanson, Faribault

Christine Linda Heath, Minneapolis  
 Pamela Suzette Junes, Bloomington  
 Carol Clark Kelman, Minneapolis  
 Joanne Marian Kemp, Duluth  
 Carol Ann Klein, Minneapolis  
 Katherine Jane Klinkenberg, Winnetka, Ill.  
 Paula Deane Koetke, Rapid City, S.D.  
 Glenda Kay Kroschel, Sandstone  
 Janie Laiderman, St. Louis Park  
 Norma Jane Larson, St. Paul  
 Lynnae Hartson LeBarron, Minneapolis

Patricia Lee Lindberg, South St. Paul  
 Diane R. Lindgren, St. Paul  
 Sheryl Diane Meyer, St. Paul  
 Elva Joan Money, Wolf Point, Mont.  
 Kathleen Jane Newell, Wadena  
 Mary Kathryn Nuebel, St. Paul  
 Leslee Ann Peterson, Minneapolis  
 Barbara Ann Reuvers, Northfield  
 Barbara Ann Riles, Robbinsdale

Jacqueline Elizabeth Skule, Ely  
 Judith Katherine Stangl, St. Paul  
 Mary Frances Stapleton, St. Paul  
 Cynthia Jean Stoerzinger, South St. Paul  
 Charlotte Jane Vansickle, Warren  
 Cynthia Ann Windfeldt, Austin  
 Julie Marie Yackel, Minneapolis

## Bachelor of Science

Leonard Victor Ackermann, Northfield, WITH HIGH DISTINCTION  
 Frederick Michael Allis, Minneapolis  
 Clennan C. Anderson, North Branch  
 John Mark Anderson, Excelsior  
 Thomas Anthony Aulwes, Richfield  
 James Russell Bartlett, Edina  
 Thomas Peter Barton, La Crescent  
 William Richard Beasley, Grand Rapids, WITH DISTINCTION  
 Thomas Joseph Began, Chisholm  
 Frank James Belinsky, Milnor, N.D., WITH DISTINCTION  
 Thomas M. Bell, Livingston, Mont.  
 Lyle Walfred Belling, Minnesota Lake  
 Donavon Dean Berge, Mankato  
 Karl Heinz Biewald, St. Louis Park  
 Thomas Lowell Boyum, Harvey, N.D.  
 Robert Mayo Brandjord, Minneapolis  
 Ronald Lee Broman, Minneapolis, WITH DISTINCTION  
 Dwight Griffith Buller, St. Paul  
 Douglas Wilford Burgess, Kasson  
 Allen Dale Clausen, Medford, Wis., WITH DISTINCTION  
 Charles Henry Colby, B.B.A., Minneapolis  
 Judd Stuart Copeland, Minneapolis, WITH DISTINCTION  
 Stephen Harold Danielson, Minnetonka  
 Michael George Davies, Winona  
 Thomas Peter Dimich, Bovey  
 Ronald Leonard Dvorak, Hopkins  
 Harold Rolf Eberhardt, Minneapolis  
 Gerald Ross Egge, B.A., Willmar, WITH DISTINCTION  
 David Allan Elrod, B.A., St. Paul  
 Phillip Steven Fitch, A.A., Rochester

Albert David Flor, New Richland  
 Dale Arvid Gibson, St. Cloud  
 Steven Michael Gurstelle, St. Paul  
 Thomas McKenna Harrison, B.A., Minneapolis  
 Byron Theodore Hildahl, Staples  
 James Robert Hockin, Edina  
 Steven Eugene Jacobson, St. Louis Park  
 Cameron Joseph Jayson, Jr., Virginia  
 Orris Jon Raymond Johnson, Willmar  
 Richard Mathias Johnson, Grand Marais  
 George Victor Kajala, A.A., Biwabik, WITH DISTINCTION  
 John Stephen Kanyusik, St. Cloud, WITH HIGH DISTINCTION  
 Douglas John Knudson, Hopkins, WITH HIGH DISTINCTION  
 David Russell Lang, Rochester  
 Donald Norman Larson, B.A., Denver, Colo., WITH DISTINCTION  
 Thomas D. Larson, B.A., St. Paul  
 William Gregory Lawton, Loretto  
 Lee Corson Lerberg, Minneapolis  
 Nolen Leib Levine, Chicago, Ill.  
 David Harris Lipschultz, B.A., St. Paul  
 Don John Lundrigan, Pine River  
 Peter Jule MacLeod, Moorhead  
 Gerald Edward Maher, Cloquet  
 Michael Steven March, A.A., Slayton  
 Harold Joseph Mason, Jr., St. Paul  
 Robert James Michelich, Keewatin, WITH DISTINCTION  
 Peter Herman Mielke, St. Paul  
 Roger Alan Mondale, St. Paul, WITH DISTINCTION  
 Bruce George Myers, Northfield  
 Richard Lawrence Nelson, St. Paul



Adrian Martin Nielsen, Northfield  
 Roger Alan Novak, St. Paul, WITH  
 DISTINCTION  
 Gary Theodore Pederson, Minneapo-  
 lis, WITH DISTINCTION  
 Dale Robert Peterson, Minneapolis  
 James Homer Plets, Meadowlands,  
 WITH DISTINCTION  
 William Rogers Powell, B.A., Marshall  
 Richard Joseph Prokosch, White Bear  
 Lake  
 William Fredrick Pucel, Ely  
 Gerald Kenneth Rasmusson, Emmons  
 Marlin Francis Rekow, Minneapolis  
 John Carl Remien II, Beresford, S.D.,  
 WITH DISTINCTION  
 Roman Walter Rossmeisl, B.S., Eden  
 Valley  
 Bruce Leland Schulz, Golden Valley  
 Richard Henry Schwartz, Melrose

Barry McGill Schweim, Pipestone  
 Jack Edward Shepard, St. Paul  
 Raymond Lee Simmons, Blackduck  
 Richard Alan Sorenson, Duluth  
 Charles Edward Surface, St. Vincent,  
 WITH DISTINCTION  
 Byron Robert Torgerson, Stillwater  
 Peter Louis Walman, B.A., St. Louis  
 Park  
 Bruce Dale Waterman, B.A., Albert  
 Lea, WITH DISTINCTION  
 David Charles Wilcox, Albert Lea  
 Jay Alan Wilcox, Richfield  
 Michael Thomas Winter, A.A., Vir-  
 ginia  
 Gerald Nicholas Wintheiser, Minne-  
 apolis  
 Thomas James Zehren, Sheboygan,  
 Wis.

### Doctor of Dental Surgery

Edward Frank Abbott, B.S., Great  
 Falls, Mont.  
 Leonard Victor Ackermann, North-  
 field  
 Clennan C. Anderson, North Branch  
 Thomas Anthony Aulwes, Richfield  
 Ronald Raymond Axel, B.S., Hopkins  
 James Russell Bartlett, Edina  
 Thomas Joseph Began, B.S., Chisholm  
 Karl Heinz Biewald, St. Louis Park  
 David John Blaska, B.S., Anoka  
 Daniel Allen Boedigheimer, Perham  
 John Harvey Brekke, B.S., Minne-  
 apolis  
 Richard Eugene Brimacombe, B.A.,  
 Austin  
 Allen Dale Clausen, Medford, Wis.  
 Charles Henry Colby, B.B.A., Minne-  
 apolis  
 Douglas R. Daehlin, B.S., Great Falls,  
 Mont.  
 Kenneth Edward DeLap, Thief River  
 Falls  
 Paul Robert Dumke, B.S., Wheat  
 Ridge, Colo.  
 Harold Rolf Eberhardt, Minneapolis  
 Philip Forest Fabel, B.A., St. Paul  
 Richard Louis Ferguson, B.S., Milaca

Michael Kenneth Frisch, B.S., Vir-  
 ginia  
 Colin Campbell Frykman, B.A., Min-  
 neapolis  
 Stanley Lawrence Furber, Jr., B.S.,  
 Minneapolis  
 Richard John Galuska, Minneapolis  
 Patrick Allen Gaspard, B.S., Richfield  
 William Andrew Gavin, B.S., Minne-  
 apolis  
 Barry Richard Godes, B.S., Bloom-  
 ington  
 Robert Henry Grossman, B.S., St.  
 Paul  
 Michael Arthur Grotheim, Minne-  
 apolis  
 George Albert Hankerson, B.S., Thief  
 River Falls  
 Thomas McKenna Harrison, B.A.,  
 Minneapolis  
 Gerald August Heim, B.S., St. Cloud  
 Byron Theodore Hildahl, Staples  
 John Haakon Hinding, B.S., St. Paul  
 Randahl Burgess Hoghaug, B.S., De-  
 troit Lakes  
 Mark Theodore Jaspers, B.A.,  
 Shakopee

Brian Robert Johnson, B.S., Minneapolis  
 James Howard Johnson, B.S., Red Wing  
 Marshall Kent Kittelson, A.M.S., Minneapolis  
 John Dayton Lafferty, Jr., Austin  
 David Russell Lang, Rochester  
 John David Larsen III, B.A., Crookston  
 Joyce Heckenlaible LeFebvre, B.A., M.S., White Bear Lake  
 Lennard Richard Lindquist, B.S., Minneapolis  
 Thomas Byron Lyke, B.S., Rochester  
 Gerald Edward Maher, Cloquet  
 Harold Joseph Mason, Jr., St. Paul  
 Douglas Ray Maxson, B.S., St. Peter  
 Noel James Messelt, B.S., Winger  
 Peter Herman Mielke, St. Paul  
 David Edwin Milbrath, B.S., Duluth  
 Horace George Miller II, B.A., B.S., Burnsville  
 Thomas Arvid Molin, B.S., Montevideo  
 David Earl Nelson, B.S., St. Paul  
 Adrian Martin Nielsen, Northfield  
 Richard Russell Nyman, B.S., Duluth  
 Eduardo E. Odio, Havana, Cuba  
 E. Fernando Odio, Havana, Cuba  
 Robert James Olson, B.S., Litchfield  
 Jerry Vance Overman, Neillsville, Wis.  
 Michael George Path, B.S., South St. Paul  
 Gary Theodore Pederson, Minneapolis  
 Dale Robert Peterson, Minneapolis  
 Sherwood Robert Pomeroy, B.S., St. Paul  
 William Rogers Powell, B.A., Marshall  
 Richard Joseph Prokosch, White Bear Lake  
 Richard James Provinzino, B.S., Melrose  
 William Miller Ramsey, B.A., St. Cloud  
 Gerald Kenneth Rasmusson, Emmons  
 Richard Floyd Riemenschneider, B.S., St. Paul  
 Roman Walter Rossmeaisl, B.S., Eden Valley  
 Richard Walter Rother, B.A., Minneapolis  
 Larry Myles Saliterman, B.A., B.S., Minneapolis  
 Richard Avery Sanford, B.S., Sidney, Mont.  
 Richard Henry Schwartz, Melrose  
 Russell Roman Sieben, B.S., Melrose  
 Robert Barrett Simeral, B.S., Denver, Colo.  
 Robert John Spencer, B.S., Brooklyn Center  
 James Edward Spitzmueller, B.S., St. Paul  
 Francis Charles Steyaert, B.S., Marshall  
 Donald LeRoy Storm, B.S., Ortonville  
 Richard Jon Sundberg, B.S., St. Cloud  
 James Timothy Swanson, B.S., Willmar  
 Paul Roland Thompson, B.A., Madison  
 Robert Duane Thompson, B.S., South St. Paul  
 Byron Robert Torgerson, Stillwater  
 Marvin Lewis Ugland, B.S., Grand Forks, N.D.  
 John David Wainio, B.S., Duluth  
 Douglas Glen Walesheck, B.S., St. Paul  
 Lloyd Anthony Wallin, B.S., St. Paul  
 Greg Thomas Walling, B.S., Minneapolis  
 Peter Louis Walman, B.A., St. Louis Park  
 Gerald Nicholas Wintheiser, Excelsior

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science in Nursing

Dianne Carolyn Adair, St. Paul  
 Jacqueline Louise Ahlquist, Crystal

Carol Marie Anderson, Minneapolis,  
 WITH DISTINCTION

Doris Elaine Anderson, Cambridge  
 Meredith Ann Babin, Minneapolis  
 Julie Carolin Ramstad Baldwin, Minneapolis, WITH DISTINCTION  
 Stephanie Lynn Blair, Minneapolis  
 Eileen Kathryn Cleveland, Watson  
 Margaret Louise Cleveland, Cambridge  
 Jennifer Ann Dahlby, St. Paul  
 Barbara Ann Duffield, Browns Valley  
 Sally Anne Dunn, Minneapolis, WITH DISTINCTION  
 Maureen Joy Eastlund, Cambridge, WITH DISTINCTION  
 Susan Jane Eggebrecht, Elgin, Ill., WITH DISTINCTION  
 Marilyn Ann Elfstrand, Minneapolis  
 Janice Ann Everett, Duluth  
 Mary Florence Fagerstrom, Minneapolis, WITH DISTINCTION  
 Kathleen Elaine Ferrel, Austin  
 Joanne Louise Foss, Franklin  
 Mary Louise Frederick, Minneapolis  
 Jane Ann Fritsche, New Ulm  
 Charlotte Karen Green, Minneapolis, WITH HIGH DISTINCTION  
 Alice Susan Marie Guintier, Linden, Pa.  
 Mary Ann Hahn, Jordan, WITH DISTINCTION  
 Joanne Carol Hansen, Minneapolis  
 Marilyn Ann Hansen, St. Paul  
 Glenda Joyce Haversack, Minneapolis  
 Joan Elizabeth Hempstead, Roseville  
 Carol Kae Henriksen, Armstrong, Iowa  
 Bonnie Braisted Hill, North St. Paul, WITH DISTINCTION  
 Mary Claire Horns, Minneapolis  
 Eileen Ruby Jacobson, Minneapolis  
 Kathie Ann Jensen, Edina  
 Donna Mae Johnson, Mora  
 Judith Marie Johnson, South St. Paul  
 Pamela Jeanne Kappa, St. Louis Park  
 Anita Marie Keller, Winona, WITH DISTINCTION  
 Joyce Etsuko Kometani, Honolulu, Hawaii  
 Susan May Krogh, B.A., Cromwell, WITH DISTINCTION  
 Janet Marie LaClair, Austin  
 Judith Ann Laegeler, Minneapolis  
 Susan Ellen Larson, Moose Lake, WITH DISTINCTION  
 Thea Marie Larson, St. Peter  
 Gail Marie Lee, St. Louis Park, WITH DISTINCTION  
 Mary Margaret Lindberg, New Brighton  
 Karen Ellen Lindelin, Minneapolis  
 Eileen Gail London, St. Louis Park, WITH HIGH DISTINCTION  
 Josephine Ann Lorenz, Waseca  
 Carolyn Ann Marie Martin, Wayzata, WITH DISTINCTION  
 Ruth Elaine Mattox, Minneapolis  
 Darla Rae Mattson, Mora, WITH DISTINCTION  
 Karen Joann Mero, Minneapolis  
 Margaret Suzanne Merriman, Golden Valley, WITH DISTINCTION  
 Kathryn Thetis Milanovich, Aliquippa, Pa., WITH DISTINCTION  
 Nancy Arlene Miller, White Bear Lake  
 Patricia Swartz Mitchell, Fairmont  
 Charlotte Lee Molm, Minneapolis  
 Sandra Jean Monk, St. Paul  
 Susan Lee Murray, Park Rapids, WITH DISTINCTION  
 Theresa Kay Nyberg, Minneapolis  
 Elizabeth Ann Ojala, St. Paul  
 Judith Marilyn Ottoson, Minneapolis  
 Sally Morley Owens, A.A., St. Paul  
 Gloria Gene Peterson, Minneapolis  
 Martha Pierpont Prell, White Pine, Mich., WITH DISTINCTION  
 Helen Elizabeth Priessler, Stillwater, WITH DISTINCTION  
 Kathleen Ann Riley, St. Paul  
 Beverly Lynn Robinson, Balaton, WITH DISTINCTION  
 Eva Jeanne Schander, Minneapolis  
 Janice Rae Schmidt, Minneapolis  
 Donna Mae Sorensen, St. Paul, WITH DISTINCTION  
 Beverlee Ann Stancer, Redwood Falls, WITH DISTINCTION  
 Susan Helen Strohschein, Isanti, WITH DISTINCTION  
 Evilo M. Swigart, Cosmos  
 Eleanor Ann Tibbs, Hamilton, Mont.

Nancy Lou Torfin, Villard  
Merry Carol Towle, Lonsdale  
Karen Joan Tucker, Kasson  
Mavis M. Turpeinen, Alston, Mich.  
Patricia Ann West, Edina

Betty Jane Wicklem, St. Paul, WITH  
DISTINCTION  
Mary Margaret Zinn, Hartley, Iowa,  
WITH DISTINCTION

### Bachelor of Science

Gerald Wayne Aasen, A.A., Thief  
River Falls, Physical Therapy  
Barbara Nan Arnold, St. Paul, Physical  
Therapy, WITH HIGH DISTINCTION  
Bernard Charles Baier, Minneapolis,  
Medicine  
Ruth Ann Benjamin, Hutchinson, Oc-  
cupational Therapy, WITH DISTINC-  
TION  
William David Berg, Grand Rapids,  
Medicine  
William A. Bevan, Jr., Chisago City,  
Medicine  
Paul Mitchell Blum, B.A., St. Louis  
Park, Medicine  
Susan Rose Braun, Grand Rapids,  
Physical Therapy  
David Raoul Brown, A.L.A., B.A.,  
M.S., Edina, Medicine  
Linnea Frederiksen Brown, St. Louis  
Park, Physical Therapy  
Robert Michael Bruce, St. Louis, Mo.,  
Medicine  
Katherine Mary Charlton, Minneapo-  
lis, Medical Technology, WITH HIGH  
DISTINCTION\*  
Ann Deis Claesgens, Minneapolis,  
Medical Technology\*  
Marjorie Ann Conroy, Coleraine,  
Physical Therapy, WITH DISTINC-  
TION  
Kent Bertram Crossley, B.A., Fari-  
bault, Medicine  
Marilyn Dolores Dahmen, Excelsior,  
Physical Therapy  
Teresa Anne Dale, Hastings, Physical  
Therapy  
Ellen Rae Dorshow, St. Paul, Medical  
Technology\*  
David Charles Elskamp, A.A., Fulda,  
Occupational Therapy

Joyce Elaine Engelhardt, Joliet, Ill.,  
Physical Therapy, WITH DISTINC-  
TION  
Joyce Ardell Englund, Alexandria,  
Medical Technology\*  
Nancy Dean Enselein, Minneapolis,  
Occupational Therapy, WITH DIS-  
TINCTION  
Carol Marie Erickson, Richfield, Oc-  
cupational Therapy  
Patricia Gayle Erickson, Cambridge,  
Physical Therapy, WITH DISTINC-  
TION  
Susan Marie Flor, Excelsior, Medical  
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Mary Kirsten Fredricks, Duluth, Medi-  
cal Technology\*  
Allan Larry Goldman, B.A., Hopkins,  
Medicine  
Jeanne Marie Graves, Minneapolis,  
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TION\*  
Margaret Mary Hackbarth, Minong,  
Wis., Physical Therapy, WITH DIS-  
TINCTION  
Teresa Jane Hagen, Zumbrota, Physi-  
cal Therapy  
David Lee Hanson, Glenville, Physi-  
cal Therapy  
Hildegard Gertrude Hartmann, Blue  
Earth, Physical Therapy, WITH DIS-  
TINCTION  
Sarah B. Hastings, Minneapolis, Medi-  
cal Technology\*  
Patricia May Hess, Lockhart, Medical  
Technology\*  
Margo Belle Holm, St. Paul, Occupa-  
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Stephen Michael Hughes, Fairview,  
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\* These degrees are conferred subject to the completion of practical work prior to December 14, 1968.

- Carol Kathryn Johnson, Minneapolis, Medical Technology\*
- Claudia Marie Johnson, St. Paul, Occupational Therapy, WITH DISTINCTION
- Linda Margaret Johnson, Wayzata, Occupational Therapy, WITH DISTINCTION
- Lorna Marie Johnson, North Branch, Physical Therapy
- Dyann Marie Jorgens, Owatonna, Occupational Therapy
- William John Kane, St. Paul, Medicine
- Patrick Aloysius Keenan, St. Paul, Medicine
- Marilyn Maureen Klein, B.A., St. Cloud, Medical Technology, WITH DISTINCTION\*
- Jeannie Margaret Kogl, Rosemount, Physical Therapy, WITH DISTINCTION
- Cheryl Ann Krause, St. Paul, Occupational Therapy, WITH DISTINCTION
- Stephen Michael Larkin, Minnetonka, Medicine
- Linda Jean Larsen, Robbinsdale, Medical Technology\*
- Doris Margaret Latvala, Tamarack, Physical Therapy, WITH DISTINCTION
- Jeffrey Stuart Lava, B.A., Minneapolis, Medicine
- Sharon Louise Lehto, Orland, Calif., Physical Therapy, WITH DISTINCTION
- Jeffrey Stephen Leibo, St. Louis Park, Medicine
- Mary Elizabeth Lunzer, Minneapolis, Medical Technology, WITH DISTINCTION\*
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- Lynne LeRae Martineau, West St. Paul, Physical Therapy
- Jeanne Marie Maun, St. Paul, Occupational Therapy, WITH HIGH DISTINCTION
- Nancy Katherine McCulley, A.L.A., St. Paul, Occupational Therapy
- Suzanne Brown McVey, Topeka, Kan., Occupational Therapy, WITH DISTINCTION
- Sharon Kay Miller, Outlook, Mont., Medical Technology, WITH DISTINCTION\*
- Jean Elizabeth Nelson, Litchfield, Physical Therapy
- Phyllis Eva Nelson, Randolph, Medical Technology, WITH DISTINCTION\*
- Lynn Nora Nimmo, Cheyenne, Wyo., Medical Technology, WITH DISTINCTION\*
- Koren Yukiko Nishida, Honolulu, Hawaii, Occupational Therapy, WITH DISTINCTION
- Toni Denise Okada, Minneapolis, Medical Technology, WITH HIGH DISTINCTION\*
- Mark Alan Olson, Minneapolis, Medicine
- Richard H. Olson, Minneapolis, Medicine
- Robert Carl Martin Olson, B.A., Minneapolis, Medicine
- Marit Osland, Minneapolis, Occupational Therapy, WITH HIGH DISTINCTION
- Patricia Ann Paskvan, Chisholm, Occupational Therapy
- Merrilee Pederson, Robbinsdale, Occupational Therapy
- George Michael Pope, Silver Bay, Medicine
- Arnold Samuel Potek, Minneapolis, Medicine
- Lowell Russell Quenemoen, B.A., Clarkfield, Medicine
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- John James Regan, Jr., Minneapolis, Medicine
- Margery Ann Roberts, Hibbing, Physical Therapy, WITH HIGH DISTINCTION
- Kathryn Ione Rolfe, New Brighton, Medical Technology\*

\* These degrees are conferred subject to the completion of practical work prior to December 14, 1968.

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- Nancy Jane Sahr, Hutchinson, Medical Technology, WITH DISTINCTION\*
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- Dana LaBelle Scanlan, Minneapolis, Physical Therapy
- Timothy Beach Schmitt, Austin, Medicine
- Richard Walter Schoewe, St. Paul, Medicine
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- Susan Dorothy Short, Minneapolis, Physical Therapy, WITH DISTINCTION
- Joanne Sara Sinaiko, St. Paul, Medical Technology\*
- Joseph Ivan Skow, Mound, Medicine
- Linda Anne Smith, Minneapolis, Medical Technology, WITH DISTINCTION\*
- Paulette Christine Smutka, Richfield, Medical Technology, WITH DISTINCTION\*
- Ann Marie Sorenson, Pipestone, Occupational Therapy
- Mary Sue Stanton, St. Paul, Occupational Therapy
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- William Bennett Stewart, B.A., Minneapolis, Medicine
- Thomas Raymond Strand, Cloquet, Physical Therapy
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- Nancy Thorvig, Sandstone, Physical Therapy, WITH DISTINCTION
- Nancy Elizabeth Tofte, Grand Rapids, Medical Technology\*
- Barbara Katherine Turnquist, St. Paul, Occupational Therapy, WITH DISTINCTION
- Virginia Lee Vowles, St. Paul, Medical Technology\*
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- Judith Ann White, Urbana, Ill., Physical Therapy, WITH DISTINCTION
- Lois Gail Winter, Detroit Lakes, Physical Therapy, WITH DISTINCTION
- Kay Helen Wolfe, Golden Valley, Medical Technology\*
- Suzanne Wood, Lockport, Ill., Physical Therapy, WITH DISTINCTION
- John Frederic Zurek, B.A., Minneapolis, Medicine

### Master of Hospital Administration

- James Gerard Anderson, B.A., Bloomington
- James Martin Armbrust, B.S., Omaha, Neb.
- Peter Gaskill Booth, B.B.A., Danbury, Conn.
- Leroy Canady, B.S., Kinston, N.C.
- John David Cochrane, B.A., Parkers Prairie
- Jerome Allen Crest, B.S.B., Minneapolis
- James Howard Douglas, B.A., Minneapolis
- Robert Lawrence Downs, B.S.B., Oak Park, Ill.
- Fredrick Roy Eaton, B.S., Tacoma, Wash.
- Archie John Givens, Jr., B.A., Minneapolis
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### Master of Public Health

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 Margaret Ellen Wright Rick, B.A., B.S., St. Paul  
 Michael John Rietbrock, B.S., Oconomowoc, Wis.  
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- Joel Bernhard Sigdestad, Jr., B.A., Moorhead
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- David Luverne Sorley, B.S., Minneapolis
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## GRADUATE SCHOOL

### Master of Architecture

- Mohinder Singh Datta, New Delhi, India
- B. of Arch. with honors '65, Indian Institute of Technology. Field of Concentration: Architecture. Major Adviser: Prof. W. K. Vivrett.
- Ravinder Kumar Madan, New Delhi, India
- B. of Arch. '64, University of Delhi, India. Major: Architecture. Thesis: Urban Housing for the Tropics of India (With Special Reference to Delhi Region-North India). Major Adviser: Prof. W. K. Vivrett.

### Master of Arts

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B.S. in Nursing '47, Marquette University. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. G. K. Lewis.

Robert Joel Garrison, Edina

B.A. '66, University of Minnesota. Field of Concentration: Biometry. Major Adviser: Prof. J. E. Bearman.

Douglas Odos Gause, Pelham, N.Y.

B.S. '65, Bucknell University. Field of Concentration: Biometry. Major Adviser: Prof. R. B. McHugh.

Warren W. Gulko, San Diego, Calif.  
B.A. with distinction '65, San Diego State College. Field of Concentration: Business Administration. Major Adviser: Prof. John Neter.

Ashok Kumar Gumbhir, Chandigarh,  
India

Bachelor of Pharmacy '60, Panjab University. Field of Concentration: Pharmaceutics. Major Adviser: Prof. R. H. Miller.

Gloria Mae Heffelfinger, St. Paul  
B.S. '57, College of St. Catherine. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. G. M. Sarosi.

Donald William Hegeman, Rochester  
B.S.M.E. '58, Iowa State College. Field of Concentration: Mathematics. Major Adviser: Prof. Daniel Pedoe.

Margaret Ruth Holdaway, St. Paul  
B.A. *summa cum laude* '65, Hamline University. Field of Concentration: Biometry. Major Adviser: Prof. R. B. McHugh.

Clarence Gilbert Jacobs, Jr.,  
Iowa City, Iowa  
B.A. '64, Concordia College. Major: Physics. Minor: Mathematics. Thesis: He<sup>3</sup>-He<sup>4</sup> Elastic Scattering at Center-of-Mass Energies Between 10.1 and 17.1. MeV. Major Adviser: Prof. R. E. Brown.

Teow Khian Koh, Singapore,  
Republic of Singapore  
B.A. '65, Nanyang University. Field of Concentration: Genetics. Major Adviser: Prof. W. E. Rempel.

Ronald James Kuzma, Grand Rapids,  
Mich.  
B.S. '65, Aquinas College. Field of Concentration: Biometry. Major Adviser: Prof. J. R. Boen.

Wing-Yan Lau, Hong Kong  
B.Sc. with distinction '64, Chung Chi College, Hong Kong. Field of Concentration: Physics. Major Adviser: Prof. Hiroshi Suura.

Lawrence John Libhardt, St. Paul  
B.S. '64, University of Minnesota. Field of Concentration: Mechanics and Materials. Major Adviser: Prof. Robert Plunkett.

William James Neville, Ardfinnan,  
Ireland  
B.Agr.Sc. '64, Dublin University. Major: Dairy Husbandry. Minor: Biometrics. Thesis: Relationship of Bovine Seminal Constituents to Semen Quality. Major Adviser: Prof. E. F. Graham.

James F. Nixon, Minneapolis  
B.S.B. with distinction '63, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. G. Berryman.

David Kurt Olsen, St. Paul  
B.S. '64, Hamline University. Major: Physics. Minor: Mathematics. Thesis: Search for Unbound States in He<sup>3</sup> through Li<sup>6</sup> (p,He<sup>4</sup>). Major Adviser: Prof. R. E. Brown.

Nancy Suzanne Gullickson Olson,  
Edina  
B.A. '60, Concordia College. Field of Concentration: Home Economics. Major Adviser: Prof. Suzanne Davison.

Peter Tosan Onesirosan, Sapele,  
Nigeria  
B.S. '66, University of Minnesota. Major: Plant Pathology. Minor: Agronomy. Thesis: Factors that Influence the Sporulation of *Helminthosporium Teres* in Culture. Major Adviser: Prof. E. E. Banttari.

Richard Paul Peiserich, Bettendorf,  
Iowa  
B.S. '65, Parsons College. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Photometric Determination of Antimony with Rhodamine B after Benzene Extraction of Antimony (III) Iodide. Major Adviser: Prof. E. B. Sandell.

Robert Allen Peterson, Fridley  
B.S.B. with high distinction '66, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. J. Holloway.

Leonard Robertson, Northport, N.Y.  
B. of Aero.Eng. with distinction '66, University of Minnesota. Field of Concentration: Mechanics and Materials. Major Adviser: Prof. Robert Plunkett.

Ronald Herbert Schmidt, Darwin  
B.S. '65, University of Minnesota. Major: Food Science and Industries. Minor: Analytical Chemistry. Thesis: The Effect of Hydrogen Peroxide Treatment on Milk Proteins. Major Adviser: Prof. H. A. Morris.

Sister Virginia Schmitt, Janesville,  
Wis.  
B.S. '62, St. Xavier College. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. G. M. Sarosi.

Jerald Robert Schweiger, Superior,  
Wis.

B.A. '65, Wisconsin State University. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Synthetic and NMR Studies with Cobalt (III) and the Cyclohexanediaminetetraacetate Ion. Major Adviser: Prof. S. T. Spees, Jr.

Velta Ligita Sparnins, St. Anthony

B.Chem. with high distinction '65, University of Minnesota. Major: Biochemistry. Minor: Microbiology. Thesis: Purification of Deoxyribonucleases of *Escherichia coli*. Major Adviser: Prof. J. F. Koerner.

Han-Wan Tan, Kuala Lumpur,  
Malaysia

B.S. '64, Nanyang University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Hydrobromination of Unsaturated Bicyclic Ketones. Major Adviser: Prof. Ronald Caple.

Selma Lydia Taxis, Minneapolis

B.A. '44, Augsburg College. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. G. K. Lewis.

Lawrence Arthur Tomboulian, Ithaca,  
N.Y.

B.A. '63, Cornell University. Major: Mathematics. Minor: Physical Chemistry. Thesis: Invariant Integrals on Locally Compact Groups and Quotient Spaces. Major Adviser: Prof. L. N. Argabright.

S. Viswanathan, Madras, India

B.S. '53, M.A. '55, University of Madras, India. Field of Concentration: Mineralogy and Petrology. Major Adviser: Prof. W. C. Phinney.

Jean Constance Bassett Waddington,  
London, England

B.S. '56, University of Bristol, England. Major: Botany. Minors: Geology and Zoology. Thesis: The Postglacial Vegetation History of the Big Woods Area of Minnesota. Major Adviser: Prof. E. J. Cushing.

Lyndon Charles Weberg, Ellsworth,  
Wis.

B.S. '65, Wisconsin State University. Field of Concentration: Public Health. Major Adviser: Prof. B. W. Brown, Jr.

Robert Owen Webster, Minneapolis

B.S. '65, Purdue University. Major: Biochemistry. Minor: Microbiology. Thesis: Isolation and Partial Characterization of Transferrin from the Sea Lamprey, *Petromyzon Marinus*. Major Adviser: Prof. Bernard Pollara.

Joann Phoebe Wessman, Minneapolis

B.S. '65, Columbia University. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. G. M. Sarosi.

Norma J. Wirthman, Maryknoll, N.Y.

B.S. '66, St. Xavier College. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. G. K. Lewis.

Michael Ernest Wise, Brainerd

B.S. '66, St. John's University. Field of Concentration: Business Administration. Major Adviser: Prof. J. R. Nelson.

Paulen Emrich Wrigley, Oshkosh,  
Wis.

B.S. (Nursing) '65, University of Wisconsin. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. G. K. Lewis.

Kathryn Loseth Zimmerman, Fargo,  
N.D.

B.S. with honor '65, North Dakota State University. Field of Concentration: Organic Chemistry. Major Adviser: Prof. W. E. Parham.

## Master of Science in Aeronautical Engineering

Mohan Narasingarao Amberker,  
Davangere, India

M.E. '65, Indian Institute of Science. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. G. S. Beavers.

Harvey Frank Berg, Columbia Heights

B. of Aero.Eng. '66, University of Minnesota. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. D. D. Joseph.

Richard James Hartman, Anchorage,  
Alaska

B.S. '67, Harvey Mudd College. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. A. S. Berman.

Liang Ying Hung, Tsao-Tun Nan  
Tou, Taiwan, China

B.S. '63, Taiwan University. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Stability of Couette Flow by the Method of Energy. Major Adviser: Prof. D. D. Joseph.

Michael Thomas Madden, Mechanicsville, Md.

B.S. '66, Loyola College. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. G. S. Beavers.

Arthur Omer St. Hilaire, Lewiston,  
Me.

B.S. with high distinction '66, University of Maine. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. G. S. Beavers.

## Master of Science in Agricultural Engineering

John William Reinke, Belle Plaine

B. of Ag.Eng. '65, University of Minnesota. Major: Agricultural Engineering. Minor: Civil Engineering. Thesis: The Hydrology of a Typical Ice Block Glacial Lake. Major Adviser: Prof. P. W. Manson.

## Master of Science in Chemical Engineering

Vincent Arthur Rasper, Davenport,  
Iowa

B.S.Ch.E. '66, University of Cincinnati. Major: Chemical Engineering. Minor: Mathematics. Thesis: Mass Transfer in an Agitated Solid-liquid System. Major Adviser: Prof. A. J. Madden.

Robert Alan Rosenzweig, Linden, N.J.

B.S. in Ch.E. *magna cum laude* '66, Newark College of Engineering. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Influence of Oxygen on Hydrogen Absorption of Tungsten. Major Adviser: Prof. L. D. Schmidt.

Dennis Leroy Strenge, Kent, Wash.

B.S. in Ch.E. *magna cum laude* '66, University of Washington. Major: Chemical Engineering. Minor: Organic Chemistry. Thesis: Studies of Droplet Sizes in Liquid-Liquid Systems. Major Adviser: Prof. A. J. Madden.

## Master of Science in Civil Engineering

James Joseph Anderson, St. Paul

B.C.E. '57, University of Minnesota. Major: Civil Engineering. Minor: Public Administration. Thesis: Analysis of Operating Data from a Full Scale Primary Sedimentation Plant at the Minneapolis-St. Paul Sanitary District. Major Adviser: Prof. G. J. Schroefer.

Robert Arthur Paschke, Faribault

B.C.E. with distinction '66, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. G. J. Schroefer.

David Lee Pederson, Minneapolis

B.Arch.E. '64, Iowa State University. Major: Civil Engineering. Minor: Mathematics. Thesis: Analysis of a Radial Hexagonal Rigid Frame. Major Adviser: Prof. J. T. Hanley.

## Master of Science in Dentistry

Robert Armand Arnold, Hazel, S.D.

B.S. with high distinction '64, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Laminographic Evaluation of Cervical Extra-Oral Force. Major Adviser: Dr. R. J. Isaacson.

Carl Christian Caspersen, Minneapolis

D.D.S. '64, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Cephalometric and Laminographic Study of Skeletal and Dental Changes Occurring in Prognathic Patients Treated by a Combined Orthodontic Oral Surgical Approach. Major Adviser: Dr. R. J. Isaacson.

Aida Abdel-Aziz Chohayeb, Cairo,  
Egypt, United Arab Republic

B.D.S. '57, School of Dentistry, Egypt. Major: Dentistry. Minor: Anatomy. Thesis: The Effect of Application of Some Intra Canal Medications on the Periapical Tissues of Rhesus Monkeys. Major Adviser: Dr. J. R. Jensen.

Melvin Eugene Dale, Mora

B.S., D.D.S. '64, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Cephalometric Laminographic Appraisal of the Anterior Retraction Phase of Orthodontic Treatment. Major Adviser: Dr. R. J. Isaacson.

Robert Chapin Dolven, Willmar

B.S. with high distinction '64, D.D.S. '66, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Effects of Short Term Utilization of the Tooth Positioning Appliance Evaluated by Cephalometric Laminagraphy and Direct Measurement. Major Adviser: Dr. R. J. Isaacson.

Millard Julian Kimery, Sr., Neoga, Ill.

B.S. '58, University of Illinois; B.S. with distinction '64, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Effect of Various Toothbrushing Devices on the Gingival Epithelium. Major Adviser: Dr. R. E. Stallard.

Gary Douglas Lunstad, Fergus Falls

B.S., D.D.S. '66, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: An Evaluation of Some Skeletal and Dental Adjustments During Clinical Rapid Maxillary Expansion. Major Adviser: Dr. R. J. Isaacson.

James Emil Orban, Colorado Springs,  
Colo.

D.D.S. '66, Georgetown University. Major: Dentistry. Minor: Anatomy. Thesis: Assessment of the Relationship Between Periodontal Epidemiological Indices and Periodontal Health. Major Adviser: Dr. R. E. Stallard.

Hussein Abbas Zaki, Cairo, Egypt,  
United Arab Republic

B.Ch.D. '55, Cairo University; M.P.H. '67, University of Minnesota. Major: Dentistry. Minor: Public Health. Thesis: An Evaluation of the Effectiveness of Preventative Periodontal Education. Major Adviser: Dr. R. E. Stallard.

## Master of Science in Electrical Engineering

Leon Roger Barrett, St. Cloud

B.S. with high distinction '62, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. L. C. Caverley.

Rolf Sverre Bergman, Two Harbors

B.E.E. with distinction '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Experimental Studies in Longitudinal Pressure Gradients in Gaseous Plasmas. Major Adviser: Prof. L. M. Chanin.

Dimitrios Nickolaos Bougalis, Athens,  
Greece

B.E.E. '63, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. Aldert Van der Ziel.

Lance Arling Christie, Duluth

B.E.E. with high distinction '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Sensitivity of Filtered Linear Digital Control Systems. Major Adviser: Prof. S. J. Kahne.



Gerald Wallace Coutts, Detroit,  
Mich.

B.S. '66, University of Wisconsin. Major: Electrical Engineering. Minor: Mathematics. Thesis: Spectral Narrowing of Non-Q-Switched Ruby Laser. Major Adviser: Prof. J. A. Carruthers.

Richard Jay Grommes, Paw Paw, Ill.

B.S. '66, University of Minnesota. Major: Electrical Engineering. Minor: Statistics. Thesis: Biquadratic RC Transfer Function Synthesis for Optimum Multi Parameter Sensitivity. Major Adviser: Prof. B. A. Shenoi.

Stephen Arnold Haglund, St. Louis  
Park

B.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Solid State Micro Miniature Inductors. Major Adviser: Prof. B. A. Shenoi.

Carroll Ray Hall, Shawnee, Okla.

B.S. '65, Oklahoma State University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Automated Scaling for Hybrid Computers. Major Adviser: Prof. S. J. Kahne.

Lanny Lee Harklau, Minneapolis

B.A. '59, Luther College. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

David Lee Machart, Pine City

B.S. in E.E. with high distinction '66, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. F. M. Waltz.

Steven Alois Schmitt, Forest Lake

B.E.E. with distinction '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Low Frequency Noise Characteristics of a Multimode Laser. Major Adviser: Prof. J. A. Carruthers.

Philip Arthur Schultz, Holloway

B.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Coupled Cavity Laser. Major Adviser: Prof. J. A. Carruthers.

Stephen Chung-Wen Su, Taipei,  
Taiwan, China

B.S. '65, National Taiwan University. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Mechanism Predicting the Transient Disappearance of the Earth Bow-Shockwave in the Interplanetary Space. Major Adviser: Prof. S. C. Lee.

Jacob Tal, Haifa, Israel

B.S. in E.E. '66, Technion, Israel Institute of Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: Low Sensitivity Design of Systems with Time Lag. Major Adviser: Prof. S. J. Kahne.

Emmet Jack Wier, Jr., New Brighton

B.S. in E.E. '57, University of Nebraska. Field of Concentration: Electrical Engineering. Major Adviser: Prof. K. S. P. Kumar.

## Master of Science in Industrial Engineering

William Richard Bunker, Richfield

B.S. in M.E. with distinction '66, University of Minnesota. Field of Concentration: Industrial Engineering. Major Adviser: Prof. R. S. Nyquist.

Seshadri Rajagopal Velamoor,  
Hyderabad, India

B.E. '65, Osmania University, India. Field of Concentration: Industrial Engineering. Major Adviser: Prof. R. S. Nyquist.

## Master of Science in Mechanical Engineering

Vernon Lee Eriksen, Blue Earth

B.S. with distinction '65, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Experimental Investigation of the Laminar Flow of Air over a Downstream-Facing Step. Major Adviser: Prof. R. J. Goldstein.

Kanwal Nain Singh, New Delhi, India

B.E. (Mech.) with honors '65, Regional Engineering College, Warangal, India. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. J. L. Threlkeld.

**Avtar Chand Verma, Tarn Taran,  
Punjab, India**

B.S. in Eng. (Mech.) '64, Punjab Engineering College, India. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. R. C. Jordan.

**Ralph Hugo Willgohs, Indianapolis,  
Ind.**

B.M.E. '65, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Thesis: The Temperature Distribution in the Porus Constrictor Wall of a Transpiration-Cooled Electric Arc. Major Adviser: Prof. Emil Pfender.

## **Master of Science in Medicine (Internal)**

**Myung Hee Chung, Suwon, Korea**

B.S. '57, M.D. '61, Yonsei University, Korea. Major: Medicine (Internal). Minor: Pathology. Thesis: Review of Jejunal Biopsies: Histopathological and Clinical Correlation. Major Adviser: Dr. J. A. Higgins.

**Vahab Fatourechi, Tehran, Iran**

M.S. '62, University of Tehran. Major: Medicine (Internal). Minor: Biochemistry. Thesis: Growth Hormone in Diabetic Instability. Major Adviser: Dr. G. D. Molnar.

**Peter Paul Frohnert, Berlin, Germany**

M.D. '61, Free University of Berlin. Major: Medicine (Internal). Minor: Physiology. Thesis: Studies of Potassium Metabolism in Chronic Renal Failure. Major Adviser: Dr. W. N. Tauxe.

**John Wesley Heaton, Jr., Palo Alto,  
Calif.**

B.A. '53, Baker University, Kansas; M.D. '56, University of Kansas. Major: Medicine (Internal). Minor: Physiology. Thesis: Sodium-Glucose Relationships During Intestinal Sorption in Dogs. Major Adviser: Dr. R. J. Reitmeier.

**Donald Solomon Silverberg, Saska-  
toon, Saskatchewan, Canada**

M.D. '61, University of Manitoba. Major: Medicine (Internal). Minor: Physiology. Thesis: A Study on the Role of Low Protein Diet in Chronic Renal Insufficiency. Major Adviser: Dr. C. F. Gastineau.

## **Master of Science in Mineral Engineering**

**Claus Colmsan Freyberger,  
Moenchen, Gladbach, Germany**

Diplom Ingenieurs '67, Technische Hochschule Clausthal. Field of Concentration: Mineral Engineering. Major Adviser: Prof. E. P. Pfeider.

**Reichel Abelis Tenbergen, Tavistock,  
Ontario, Canada**

B.A.Sc. '66, University of Toronto. Field of Concentration: Mineral Engineering. Major Adviser: Prof. A. C. Dorenfeld.

**Jon Frederic Voedisch, Minneapolis**

B. of Mineral Eng. '65, University of Minnesota. Field of Concentration: Mineral Engineering. Major Adviser: Prof. E. P. Pfeider.

## **Master of Science in Ophthalmology**

**Stephan Shane Morgan, St. Louis,  
Mo.**

B.A. '60, DePauw University; M.D. '64, St. Louis University. Major: Ophthalmology. Minor: Physiologic Optics. Thesis: The Effects of Certain Autonomic Drug on the Speed of the Pupillary Response to Light. Major Adviser: Dr. R. W. Hollenhorst.

## Master of Science in Orthopedic Surgery

Edward Herbert Boseker, Newport  
Beach, Calif.

B.S. '58, University of Michigan; M.D. '62,  
Indiana University. Major: Orthopedic Sur-  
gery. Minor: Pathology. Thesis: Simple (Uni-  
cameral) Bone Cysts: A Clinical-Pathologic  
Study. Major Adviser: Dr. W. H. Bickel.

## Master of Science in Surgery

Gholam Hossein Mahour, Shiraz, Iran  
M.D. '59, University of Shiraz, Iran. Major:  
Surgery. Minor: Pathology. Thesis: Influence  
of Cholecystectomy on the Structure of the  
Biliary Duct System. Major Adviser: Dr. D. O.  
Ferris.

David Warren Todd, Kearny, N.J.

B.A. '59, Johns Hopkins University; M.D. '63,  
Tufts University. Major: Surgery. Minor: Pa-  
thology. Thesis: Sarcomas of the Breast—Ex-  
clusive of Cystosarcoma Phylloides: A Clinical-  
Pathological Study of Fifty-Seven Cases. Major  
Adviser: Dr. W. S. Payne.

## Master of Social Work

Sandra Johnson Alberg, Annandale  
B.A. *magna cum laude* '66, Augsburg College.  
Field of Concentration: Social Work. Major  
Adviser: Prof. L. F. Merl.

David Dwight Dillingham, Salt Lake  
City, Utah

B.A. *cum laude* '65, University of Utah. Field  
of Concentration: Social Work. Major Adviser:  
Prof. E. W. Francel.

Gayle Margo Bock, Spring Valley  
B.A. '66, University of Minnesota. Field of  
Concentration: Social Work. Major Adviser:  
Prof. Annalee Stewart.

Joan Claudette Brock Dorman,  
St. Paul

B.A. '66, Drake University. Field of Concen-  
tration: Social Work. Major Adviser: Prof.  
D. A. Whitmore.

Deolinda Bebiana Boubacar, Luanda,  
Angola, Africa  
B.A. '66, Albion College. Field of Concen-  
tration: Social Work. Major Adviser: Prof. Gisela  
Konopka.

Susan Dunbar, Minneapolis

B.A. '64, University of Minnesota. Field of  
Concentration: Social Work. Major Adviser:  
Prof. I. G. Rapoport.

Frederick Peter Burke, Minneapolis  
B.S. '61, University of Minnesota. Field of  
Concentration: Social Work. Major Adviser:  
Prof. L. F. Merl.

Pauline Rosalind Durocher,  
Minneapolis

B.A. '61, College of St. Scholastica. Field of  
Concentration: Social Work. Major Adviser:  
Prof. Gisela Konopka.

Ann Marie Chartrand, Marinette,  
Wis.  
B.A. *cum laude* '64, Augsburg College. Field  
of Concentration: Social Work. Major Ad-  
viser: Prof. L. F. Merl.

Beatrice Kay Dwyer, Reno, Nev.

B.A. '64, Mills College. Field of Concen-  
tration: Social Work. Major Adviser: Prof. E. W.  
Francel.

B. Lee Clark, Washington, D.C.  
B.A. '66, Gettysburg College. Field of Con-  
centration: Social Work. Major Adviser: Prof.  
Alpha Adkins.

Karen Ann Gengenbach, Columbus,  
Neb.

B.A. '66, Midland College. Field of Concen-  
tration: Social Work. Major Adviser: Prof.  
D. A. Whitmore.

Donald Everett Crannell, Minneapolis  
University of Chicago. Field of Concentration:  
Social Work. Major Adviser: Prof. F. X.  
Kamps.

Judith Hartwell Conn Green,  
Minneapolis

B.A. with distinction '65, Stanford University.  
Field of Concentration: Social Work. Major  
Adviser: Prof. C. L. Bower.

Mary Elizabeth Hoopman, Madison,  
Wis.

B.A. '66, Wisconsin State College, Oshkosh.  
Field of Concentration: Social Work. Major  
Adviser: Prof. Gisela Konopka.

David John Huberty, LeSueur

B.A. cum laude '66, College of St. Thomas.  
Field of Concentration: Social Work. Major  
Adviser: Prof. L. N. Scott.

Charlotte Jean Ipsen, Minneapolis

B.A. '66, University of Minnesota. Field of  
Concentration: Social Work. Major Adviser:  
Prof. H. J. Yesner.

Lawrence William Keegan,  
Minneapolis

B.A. magna cum laude '51, University of Min-  
nesota. Field of Concentration: Social Work.  
Major Adviser: Prof. C. L. Bower.

Rose Ann Lundborg, Marshall

B.A. cum laude '65, Augustana College. Field  
of Concentration: Social Work. Major Adviser:  
Prof. L. N. Scott.

Stephen James Lynott, Marquette,  
Mich.

B.A. '66, College of St. Thomas. Field of  
Concentration: Social Work. Major Adviser:  
Prof. Gisela Konopka.

Ray Justin McGee, Ree Heights, S.D.

B.S. '60, South Dakota State College. Field of  
Concentration: Social Work. Major Adviser:  
Prof. E. W. Francel.

Larry Harold Modcan, Duluth

B.A. '66, University of Minnesota. Field of  
Concentration: Social Work. Major Adviser:  
Prof. F. X. Kamps.

Elizabeth Irene Moore, St. Paul

B.A. '66, College of St. Catherine. Field of  
Concentration: Social Work. Major Adviser:  
Prof. M. R. Cohn.

Olga Olavs Nagobads, Minneapolis

B.A. '66, University of Minnesota. Field of  
Concentration: Social Work. Major Adviser:  
Prof. Eleanor Felker.

Joseph Dennis Nemecek, Ashland, Wis.

B.A. '56, Northland College. Field of Concen-  
tration: Social Work. Major Adviser: Prof.  
T. H. Walz.

Sharone Zabrok Ormerod, St. Paul

B.A. '63, University of Minnesota. Field of  
Concentration: Social Work. Major Adviser:  
Prof. C. L. Bower.

Eric Carl Oxelson, Paradise, Calif.

B.A. cum laude '66, Harvard College. Field of  
Concentration: Social Work. Major Adviser:  
Prof. Susan Goldman.

Sharon Kay Patten, Waseca

B.A. cum laude '66, St. Olaf College. Field  
of Concentration: Social Work. Major Adviser:  
Prof. A. W. Oren.

Alan Woodward Peabody, Wagon  
Landing, Wis.

B.S. '51, State Teachers College, River Falls.  
Field of Concentration: Social Work. Major  
Adviser: Prof. C. L. Bower.

Marilyn Ruth Peterson, Kansas City,  
Mo.

B.A. '65, Bard College. Field of Concentration:  
Social Work. Major Adviser: Prof. A. W.  
Oren.

Sister Mary Andrew Peterson, St. Paul

B.A. '64, College of St. Thomas. Field of Con-  
centration: Social Work. Major Adviser: Prof.  
Gisela Konopka.

Margaret Ann Raedeke, Young  
America

B.A. magna cum laude '66, Gustavus Adolphus  
College. Field of Concentration: Social Work.  
Major Adviser: Prof. Gisela Konopka.

Tamara Ruth Rusoff, Minneapolis

B.A. '66, University of Minnesota. Field of  
Concentration: Social Work. Major Adviser:  
Prof. Gisela Konopka.

Kenneth Fred Schoen, Sauk Centre

B.A. '54, University of Minnesota. Field of  
Concentration: Social Work. Major Adviser:  
Prof. Susan Goldman.

Gretchen Stewart Shafer, Excelsior

B.A. '66, Wellesley College. Field of Concen-  
tration: Social Work. Major Adviser: Prof.  
H. J. Yesner.

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B.A. *summa cum laude* '66, Augsburg College. Field of Concentration: Social Work. Major Adviser: Prof. E. W. Francel.

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B.A. '66, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. M. R. Cohn.

**Kenneth Clarence Storkson, Spokane,  
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**Agnete C. Temali, St. Paul**

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**Marie Jeanne Weigum, Mobridge,  
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**Mary J. Zgodzinski, Grand Forks,  
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B.A. *cum laude* '60, University of North Dakota. Field of Concentration: Social Work. Major Adviser: Prof. L. F. Merl.

## **Certificate of Specialist in Education**

**Marian Espach Cordiner, St. Paul**

B.A. '49, University of Wyoming; M.S. '65, University of Utah. Field of Concentration: Child Psychology. Major Adviser: Prof. M. D. Hall.

**Cliff Elvin Helling, Minneapolis**

B.S. '61, M.A. '63, University of Minnesota. Field of Concentration: Educational Psychology. Major Advisers: Profs. D. H. Blocher and W. W. Tennyson.

**Nicholas Andrew Olsen, Roseville**

B.A. '57, St. Olaf College; M.A. '64, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. O. E. Domian.

## **Doctor of Philosophy**

**Antonio Alfonso-Faus, Valencia,  
Spain**

Ingenieros Aeronauticos '64, Escuela Tecnica Superior De Ingenieros Aeronauticos. Major: Physics. Minor: Mathematics. Thesis: The Solar Wind and its Interaction with Planetary Bodies. Major Adviser: Prof. P. J. Kellogg.

**Charles Milton Anderson,  
Minneapolis**

B.C.E. with high distinction '65, M.S. in C.E. '66, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: A Complete Matrix Computer and Experimental Analysis of Framed Folded Plate Roof Structures. Major Adviser: Prof. Paul Andersen.

**Donald Edwin Anderson, Fargo, N.D.**

B.S. '53, M.S. '57, North Dakota State University. Major: Agricultural Economics. Minor: Economics. Thesis: The Impact of the Commodity Credit Corporation on the Structure of Grain Markets in the North Central Region. Major Adviser: Prof. D. C. Dahl.

**Frances Jean Anderson, Lauderdale**

B.S. '59, South Dakota State College of Agriculture and Mechanic Arts. Major: Physics. Minor: Mathematics. Thesis: The Interaction Between Small Water Droplets and their Liquid-Vapor Phase Changes in Strong Electric Fields. Major Adviser: Prof. G. D. Freier.

Neil Vincent Melvin Anderson,

St. James

B.S. with honor '53, Mankato State College; D.V.M. '61, University of Minnesota. Major: Veterinary Pathology. Minor: Biochemistry. Thesis: The Gross and Microscopic Changes in Sublethal Staphylococcal Alpha-Toxin Pancreatitis in Dogs. Major Advisers: Profs. Victor Perman and D. G. Low.

Sam Elliott Baden, Wadena

B.A. *magna cum laude* '42, M.A. '44, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: An Exploratory Attempt to Purify the Psychasthenia and Depression Scales of the Minnesota Multiphasic Personality Inventory. Major Adviser: Prof. P. E. Meehl.

Richard Lee Bednar, San Leandro,  
Calif.

B.S. '61, M.S. '63, Brigham Young University. Major: Educational Psychology. Minor: Psychology. Thesis: The Role of Persuasability, Expectations for Improvement and Treatment Methods in the Process of Behavior Changes. Major Adviser: Prof. C. A. Parker.

Rurel Roger Bell, Bryan, Tex.

D.V.M. '52, University of Georgia; M.S. '55, Texas A. & M. University. Major: Veterinary Parasitology. Minor: Microbiology. Thesis: A Study of Immunological Reactions in Bovine Fascioloidiasis (*Fascioloides magna*). Major Adviser: Prof. H. J. Griffiths.

Ellen Lagenbacher Betz, White Bear  
Lake

B.J. '47, University of Missouri. Major: Psychology. Minor: Educational Psychology. Thesis: Occupational Reinforcer Patterns and Need-Reinforcer Correspondence in the Prediction of Job Satisfaction. Major Adviser: Prof. R. G. Warnken.

Howard Frank Bird, Eugene, Ore.

B.S. '53, Brigham Young University; M. of Education '55, Wayne University. Major: Educational Psychology. Minor: Education. Thesis: A Three-Dimensional Approach to the Teaching of Beginning Word Recognition Skills. Major Adviser: Prof. Bjorn Karlsen.

Mary Lorraine Boesen, Des Moines,  
Iowa

B.A. '63, Clarke College; M.A. '64, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Contextual Incidence of Verb Forms in the Speech of Selected Sixth Grade Minneapolis-Born Children. Major Adviser: Prof. N. C. Chase.

Bill Bonnichsen, Minneapolis

B.S. (Geol.Eng.) '60, University of Idaho. Major: Geology. Minor: Supporting Program. Thesis: General Geology and Petrology of the Metamorphosed Biwabik Iron Formation, Dunka River Area, Minnesota. Major Adviser: Prof. P. K. Sims.

Stuart Lee Braun, Baltimore, Md.

B.E.S. '57, Johns Hopkins University. Major: Biometry. Minors: Statistics and Mathematics. Thesis: Robustness of a Mathematical Model for Urinary Bladder Infection. Major Adviser: Prof. J. R. Boen.

Marianne Budke-Daeg, Goslar,  
Germany

Diplom Physiker '59, Die Technische Hochschule Stuttgart. Major: Metallurgical Engineering. Minor: Physics. Thesis: The Effect of Pressure on the Radial Distribution of Liquid Sodium. Major Adviser: Prof. J. M. Sivertsen.

David Russell Chabot, Bristol, Conn.

B.A. *magna cum laude* '62, Fordham University; M.A. '64, University of Minnesota. Major: Psychology. Minor: Child Psychology. Thesis: An Investigation of the Effects of an Increased Emotional State on the Reliability of the MMPI in an Adolescent Population. Major Adviser: Prof. R. D. Wirt.

John Jungshick Chai, Syracuse, N.Y.

B.S. '59, University of Denver; M.S. '62, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: A Study of Effects of Correlated Measurement Errors and Grouping on the Ordinary Least-Squares Estimator for the Regression Coefficient and Ordinary Estimator of the Product-Moment Correlation Coefficient of a Finite Bivariate Population. Major Adviser: Prof. John Neter.

Peter Yuen San Chen, Pingtung,  
Taiwan

B.S. in Ag. '56, National Taiwan University; M.S. '64, University of Minnesota. Major: Forestry. Minor: Supporting Program. Thesis: The Effects of Cations on the Permeability of Wood to Aqueous Solution. Major Adviser: Prof. R. L. Hossfeld.

Fernando Jorge Concha, Concepción,  
Chile

Ingeniero Quimico '62, Universidad De Concepción. Major: Metallurgical Engineering. Minor: Chemical Engineering. Thesis: Application of Transport Phenomena to Mineral Dressing. Major Adviser: Prof. S. R. B. Cooke.

James Patrick Cooney, Jr., Wilmette, Ill.

B.A. '55, M.A. '57, State University of Iowa. Major: Hospital Administration. Minor: Sociology. Thesis: Physicians and Outpatients. Major Adviser: Dr. T. J. Litman.

James Collier Crewe, Minneapolis

B.A. '61, M.A. '63, Cert. of Spec. in Ed. '65, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effect of Study Strategies on the Retention of College Text Material. Major Adviser: Prof. A. L. Raygor.

Reverend Harry Cornelius Cronin, Denver, Colo.

B.A. '58, University of Notre Dame; M.F.A. '63, Catholic University of America. Major: Speech, Communication, and Theatre Arts. Minor: English. Thesis: The Plays of Eugene O'Neill in the Cultural Context of Irish American Catholicism. Major Advisers: Profs. K. L. Graham and J. D. Hurrell.

Donald Arthur Dahlin, Minneapolis

B.A. '52, M.A. '59, M.A. '62, University of Minnesota. Major: Music. Minor: Art History. Thesis: Concerto for Violin and Orchestra. Major Adviser: Prof. Paul Fetler.

Hari Narayan Dam, Calcutta, India

M.A. '47, University of Calcutta; M.A. '61, University of Minnesota. Major: Mass Communication. Minors: Political Science and History. Thesis: Walter Lippmann: A Study of His Changing Views. Major Adviser: Prof. W. E. Emery.

E. Richard Dustin, St. Paul

B.A. '58, Grinnell College; M.A. '62, University of Iowa. Major: Educational Psychology. Minor: Psychology. Thesis: The Client as a Source of Reinforcement in the Counseling Interview. Major Adviser: Prof. D. H. Blocher.

Ezzat Sayed El-Alfi, Cairo, Egypt

B.S. in Econ. '64, M.A. '64, University of Minnesota. Major: Economics. Minor: Geography. Thesis: Production, Distribution, and Exchange in Khaldun's Writing. Major Adviser: Prof. H. D. Mohring.

Richard Wood Faunce, Philadelphia, Pa.

B.A. '53, Temple University; M.A. '55, University of Minnesota. Major: Psychology. Minors: Educational Psychology and Industrial Relations. Thesis: An Investigation of the Biographical and Attitudinal Characteristics of Effective Elementary School Teachers of Culturally Disadvantaged Children. Major Adviser: Prof. M. D. Dunnette.

Dennis Glendon Fisher, St. Paul

B.Phys. '61, M.S. in E.E. '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Photoemission Studies of the Growth of  $Na_2S$  Thin Films. Major Adviser: Prof. W. T. Peria.

David Paul Fleming, Minneapolis

B.S. with high distinction '61, M.S. '62, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Laminar Flow in the Hydrodynamic Entrance Region of Non-Circular Ducts. Major Adviser: Prof. E. M. Sparrow.

Lawrence Dyer Frank, Williamstown, Mass.

B.A. '55, Williams College; M.A. '60, University of Michigan. Major: English. Minor: Philosophy. Thesis: The Enigmatic Hero: Atonement and the Urban Man in the Later Novels of Charles Dickens. Major Adviser: Prof. G. R. Stange.

Bruce Lee Gildseth, Hoffman

B.A. cum laude '62, Augsburg College; M.A. '66, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: An Empirical Study of the Effectiveness of a University Extracurricular Program. Major Adviser: Prof. C. A. Parker.

Robert Victor Gliner, Altadena, Calif.

B.A. '64, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: A Comparison of French and American Avant Garde Literature: A Study in the Sociology of Knowledge. Major Adviser: Prof. D. A. Martindale.

David Francis Grigal, Virginia

B.S. with high distinction '63, M.S. '65, University of Minnesota. Major: Soil Science. Minor: Forestry. Thesis: The Relationship Between Plant Communities and Soils in North-eastern Minnesota. Major Adviser: Prof. H. F. Arneinan.

Richard Arlo Grimsrud, Minneapolis

B.S. '57, South Dakota State College of Agriculture and Mechanic Arts. Major: Educational Psychology. Minor: Psychology. Thesis: A Method for Predicting Success in a Counselor Education Training Program. Major Adviser: Prof. D. H. Blocher.

Bruce Richard Halgren, Wayzata

B.A. '59, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: Administrative Perceptions of Selected Data Considered in Secondary Teacher Selection. Major Adviser: Prof. N. C. Nickerson.

Wayne Conrad Harris, Wyoming

B.S. with distinction '60, University of Minnesota. Major: Psychology. Minor: Pharmacology. Thesis: The Effect of Estrus and Estradiol on a Food-Reinforced Response in the Rat. Major Adviser: Prof. G. T. Heistad.

Nathaniel Irwin Hart, Morris

B.A. '52, Tulane University; M.A. '54, University of Connecticut. Major: English. Minor: History. Thesis: The Nature of the Grotesque in Robert Browning's Poetry. Major Adviser: Prof. G. R. Stange.

Sulo Havumaki, Bemidji

B.S. '48, M.A. '53, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: An Experimental Study of the Effects of Self Reward and Self Punishment on Learning. Major Adviser: Prof. C. J. Hoyt.

Darrol Wayne Heggen, Des Moines,  
Iowa

B.S. '60, Iowa State University. Major: Biometry. Minor: Statistics. Thesis: A Demographic Study of the Variability in Mortality Rates in Time. Major Adviser: Prof. B. W. Brown, Jr.

Andrew Watson Hepburn, Duluth

B.A. '59, M.A. '61, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: The Performance of Normal Children of Differing Reading Ability on the Illinois Test of Psycholinguistic Abilities. Major Adviser: Prof. Jan Duker.

Eugene Gerhardt Heyerdahl, St. Paul

B.A. '62, Luther College. Major: Fisheries and Wildlife. Minor: Supporting Program. Thesis: The Effect of Growth and Exploitation Rate on the Catch of Yellow Perch in Red Lakes, Minnesota. Major Adviser: Prof. L. L. Smith, Jr.

Meredith Safely Hill, Cedar Rapids,  
Iowa

B.A. '58, Coe College. Major: Genetics. Minor: Psychology. Thesis: Familial Trends in Personality Traits as Measured by the MMPI: Prospective Assortative Mating Patterns and Pedigree Analysis. Major Adviser: Prof. S. C. Reed.

Richard Norman Hill, Sonora, Calif.

B.A. '59, Johns Hopkins University. Major: Genetics. Minor: Microbiology. Thesis: X-Chromosome DNA Replication Patterns during Mammalian Development. Major Adviser: Prof. S. C. Reed.

James Robert Johnson, Isanti

B.S. in Phar. '62, University of Minnesota. Major: Pharmaceutics. Minor: Physical Chemistry. Thesis: Certain Aspects of Segregation Effects in Particulate Solid Systems. Major Adviser: Prof. E. G. Rippie.

Miles Franklin Johnson, Frederic,  
Wis.

B.S. '58, Wisconsin State College, River Falls; M.S. '62, University of Wisconsin. Major: Botany. Minor: Zoology. Thesis: A Monograph of the Genus *Ageratum* L. (Compositae-Eupatoriaceae). Major Adviser: Prof. G. B. Ownbey.

Robert Ed Johnson, Evanston, Ill.

B.S. Chem. '64, University of Wisconsin. Major: Organic Chemistry. Minors: Physical and Inorganic Chemistry. Thesis: Some Claisen Rearrangements in Systems Containing Nitrogen. Major Adviser: Prof. C. F. Koelsch.

James Watkins Kalb, Allentown, Pa.

B.A., B.S. in Ch.E. '62, Lehigh University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Recoil Phenomena in Viscoelastic Fluids. Major Adviser: Prof. A. G. Fredrickson.

Oya Kaynar, Istanbul, Turkey

B.A. with honors '55, American College for Girls, Istanbul; M.A. '58, University of Illinois. Major: Speech, Communication, and Theatre Arts. Minor: English. Thesis: Muhsin Ertugrul: The Leader of the Turkish Theatre. Major Adviser: Prof. F. M. Whiting.

Thomas Ervin Kieren, Gilbert

B.A. '62, Carleton College; M.A. '66, Northwestern University. Major: Education. Minor: Mathematics. Thesis: The Computer as a Teaching Aid for Eleventh Grade Mathematics; A Comparison Study. Major Adviser: Prof. D. A. Johnson.

Barbara Lagerstedt Knudson,  
Montevideo

B.A. *magna cum laude* '48, M.A. '58, University of Minnesota. Major: Sociology. Minor: Social Work. Thesis: Career Patterns of Female Misdemeanant Offenders. Major Adviser: Prof. E. D. Monachesi.

Richard Alfred Landholm, Crosby

B.S. *magna cum laude* '64, Hamline University. Major: Organic Chemistry. Minor: Supporting Program. Thesis: The Acid Cleavage of Isobutenylmercuric Bromide. Major Adviser: Prof. M. M. Kreevoy.



Kuo-Hsiung Lee, Kaohsiung, Taiwan,  
Republic of China

B.S. '61, Kaohsiung Medical College; M.S. '65, Kyoto University. Major: Medicinal Chemistry. Minor: Organic Chemistry. Thesis: Investigations of Selected Plant Constituents with Potential Physiological Activity. Major Adviser: Prof. T. O. Soine.

Vera Janet Likins, St. Paul

B.B.A. '39, M.A.P.A. '56, University of Minnesota. Major: Political Science. Minor: Industrial Relations. Thesis: Dismissal Experience and Appeal Procedures in State and Local Civil Service Jurisdictions in the United States. Major Adviser: Prof. G. A. Warp.

Ruth Brandenburger Loewenson,  
Minneapolis

B.S. '59, M.S. '61, University of Minnesota. Major: Biometry. Minor: Public Health. Thesis: Some Biometric Aspects of Neurological Research with Special Reference to Studies of Occlusive Cerebrovascular Disease. Major Adviser: Prof. J. E. Bearman.

Chun Kyu Loh, Seoul, Korea

B.A. *cum laude* '61, B.S. '64, University of Minnesota. Major: Physiology. Minor: Inorganic Chemistry. Thesis: Potassium Exchange Kinetics in Amphibian Arterial Myocardium. Major Adviser: Prof. Victor Lorber.

Gerald Hugh Lunney, Amherst, Mass.

B.A. '57, College of St. Thomas. Major: Educational Psychology. Minors: Curriculum and Instruction and Child Psychology. Thesis: A Monte Carlo Investigation of Basic Analysis of Variance Models when the Dependent Variable is a Bernoulli Variable. Major Adviser: Prof. R. O. Collier, Jr.

Fort Philip Manno, Wayne, N.J.

B.A. '53, Bates College; M.A. '55, University of Connecticut. Major: English. Minor: Art History. Thesis: The Anti-Hero and the Anti-Heroic Mode. Major Adviser: Prof. G. R. Stange.

Raymond Harland Merritt, Water-  
town, S.D.

B.A. '58, St. Olaf College; M.A. '63, University of Minnesota. Major: History. Minor: American Studies. Thesis: Engineering and American Culture, 1850-1875. Major Adviser: Prof. T. L. Smith.

Donald Andrew Mills, Minneapolis

B.Chem. '58, M.S. '63, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Chemical Characterization of the C-Chain of Human Fibrinogen. Major Adviser: Prof. I. E. Liener.

Barbara E. Moely, Prairie du Sac, Wis.

B.A. '62, M.A. '64, University of Wisconsin. Major: Child Psychology. Minor: Psychology. Thesis: Children's Retention of Conceptually Related Items Under Varying Presentation and Recall Conditions. Major Adviser: Prof. J. H. Flavell.

William Edward Moore, Rye, N.Y.

B.S. '56, D.V.M. '58, Cornell University. Major: Veterinary Medicine. Minor: Biochemistry. Thesis: Congenital Bovine Porphyria: Studies of Acid-Base Balance in the Neonatal Period and of Porphyrin Synthesis in Erythrocytes. Major Adviser: Prof. D. K. Sorensen.

Thomas Alvin Morehouse,  
Minneapolis

B.A. *magna cum laude* '60, Harvard College; M.A. '61, University of Minnesota. Major: Political Science. Minor: Sociology. Thesis: The Determinants of Federal Policy for Urban Transportation Planning under the Federal-Aid Highway Act of 1962. Major Adviser: Prof. G. A. Warp.

Gretchen Holm Nadeau, Chester  
Heights, Pa.

B.A. *cum laude* '60, Augustana College; M.A. '64, University of Minnesota. Major: Child Psychology. Minor: Supporting Program. Thesis: Cognitive Style in Preschool Children: A Factor Analytic Study. Major Advisers: Profs. S. G. Moore and J. C. Wright.

Terry Frederick Nelson, Minneapolis

B.A. '63, Hamline University; M.A. '65, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effects of Training in Attention Deployment on Observing Behavior in Reflective and Impulsive Children. Major Adviser: Prof. Jan Duker.

James Laurence Newman,  
Minneapolis

B.A. *magna cum laude* '61, M.A. '63, University of Minnesota. Major: Geography. Minor: Anthropology. Thesis: Geography and Subsistence Change Among the Sandawe. Major Adviser: Prof. P. W. Porter.

**Joanne Protheroe Olson, Winnipeg,  
Manitoba, Canada**

B.A. '60, B. of Education '62, University of Manitoba; M.A. '65, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: Performance on a Learning Task Under Differing Conditions Following Incorrect Responses. Major Adviser: Prof. B. E. Balow.

**Arland Wayne Otte, Northfield**

B.A. '61, St. Olaf College; M.A. '65, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: Relationships Between Selected Personal and Professional Characteristics of School Principals and Propensities Toward Group Decision Making. Major Adviser: Prof. C. P. Hooker.

**P. R. Perumalswami, Madras, India**

B. of Eng. with honors '63, University of Madras, India; M.S. in C.E. '66, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Interaction Between Dam and Foundation During Earthquakes. Major Adviser: Prof. J. T. Hanley.

**Donald Gordon Peterson, Isanti**

B.S. with distinction '46, M.A. '49, University of Minnesota. Major: Education. Minor: Zoology. Thesis: An Experimental Comparison of Case Histories with Conventional Materials in Teaching a College General Education Course in Science. Major Adviser: Prof. C. H. Boeck.

**John Carlyle Peterson, Ontonagon,  
Mich.**

B.A. *cum laude* '61, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: An Investigation of the Relationships of Two Putative Arousal Indicators with some Arousal-Related Functions and Clinical Correlates. Major Adviser: Prof. D. T. Lykken.

**Gary Lee Phillips, Minneapolis**

B.S. *cum laude* '61, Hamline University; M.A. '64, University of Kansas. Major: Zoology. Minor: Supporting Program. Thesis: Chromosom Erythrogastr and C.Eos (Osteichthyes: Cyprinidae): Taxonomy, Distribution, Ecology. Major Adviser: Prof. J. C. Underhill.

**John Joseph Poggie, Jr., Stafford  
Springs, Conn.**

B.A. with honors '59, University of Connecticut; M.A. '61, Louisiana State University. Major: Anthropology. Minor: Supporting Program. Thesis: The Impact of Industrialization on a Mexican Intervillage Network. Major Adviser: Prof. F. C. Miller.

**Alan Roger Price, Rochester, Mich.**

B.S. *summa cum laude* '64, Florida State University. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Purification and Properties of T4 Bacteriophage-Induced Deoxycytidine Triphosphate-Deoxyuridine Triphosphate Nucleotidohydrolase. Major Adviser: Prof. H. R. Warner.

**James Joseph Rakowski, South Bend,  
Ind.**

B.A. *summa cum laude* '63, Creighton University. Major: Economics. Minor: Supporting Program. Thesis: The Relationships Between Tariffs on Goods and Taxes on Capital Returns. Major Adviser: Prof. J. S. Chipman.

**Donald Porter Richardson, Sioux  
Falls, S.D.**

B.A. '54, Bethel College; M.A. '57, University of Minnesota. Major: Speech, Communication, and Theatre Arts. Minor: English. Thesis: The Pulpit Discourse of the Baptist General Conference in the Greater Minneapolis-St. Paul Area: A Study of Role. Major Adviser: Prof. W. S. Howell.

**John Martin Richardson, Jr.,  
Minneapolis**

B.A. '60, Dartmouth College. Major: Political Science. Minor: Supporting Program. Thesis: An Analysis of AID-University Relations 1950-1965 (With Special Reference to Rural Development Contracts). Major Adviser: Prof. R. T. Holt.

**G. Paul Richter, Buckhannon, W.Va.**

B.A. '59, Grinnell College. Major: Inorganic Chemistry. Minor: Organic Chemistry. Thesis: The Solvolysis of Cycloheptasulfurimide. Major Adviser: Prof. R. C. Brasted.

**Michael Aaron Rockland, Bronx, N.Y.**

B.A. '55, Hunter College; M.A. '60, University of Minnesota. Major: American Studies. Thesis: Domingo Faustino Sarmiento and the United States. Major Adviser: Prof. B. R. Bowron, Jr.

**Henrik Rosenmeier, Boston, Mass.**

B.A. '54, Carleton College; M.A. '63, University of Minnesota. Major: English. Minor: German. Thesis: Tobias Smollett: A Study in Popular Taste at Mid-Century. Major Adviser: Prof. R. E. Moore.

**Ashok Sahni, Lucknow, India**

B.Sc. with honors '62, M.Sc. '63, University of Lucknow. Major: Geology. Minor: Botany. Thesis: The Vertebrate Fauna of the Judith River Formation, Montana. Major Adviser: Prof. R. E. Sloan.

**Hamdy Ibrahim Sayed, Cairo,  
United Arab Republic**

B.V.Sc. '62, University of Cairo; M.S. '67, University of Minnesota. Major: Veterinary Bacteriology. Minor: Public Health. Thesis: A Complement Fixation Inhibition Test for Infectious Bronchitis Virus in Chickens. Major Adviser: Prof. B. S. Pomeroy.

**Charles Francis Schachtele, Jr.,  
Minneapolis**

B.A. '63, Macalester College; M.S. '66, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: The Mechanism of Canavanine Death in *Escherichia coli*. Major Adviser: Prof. Palmer Rogers.

**John Herbert Schultz, Racine, Wis.**

B.S. '58, Valparaiso University; M.S. '61, University of Illinois. Major: Education. Minor: Political Science. Thesis: State and Municipal Government Tort Liability for Parks and Recreation Services in the United States. Major Adviser: Prof. R. J. Donnelly.

**Donald Peter Schwab, Winona**

B.B.A. with high distinction '60, M.A. '64, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: Job Seekers' Perceptions in the Choice of a Minimum Acceptable Wage. Major Adviser: Prof. H. G. Heneman.

**Judith Sloman, Brooklyn, N.Y.**

B.A. *cum laude* '61, Radcliffe College; M.A. '62, Tufts University. Major: English. Minor: Comparative Literature. Thesis: The Structure of Dryden's *Fables*. Major Adviser: Prof. S. H. Monk.

**Daniel William Smothergill, Syosset,  
N.Y.**

B.S.S. '63, Fairfield University; M.A. '64, University of Toledo. Major: Child Psychology. Minor: Psychology. Thesis: A Developmental Study of the Influence of Memory for Proprioceptive and Visual Cues on the Visual Capture Phenomenon. Major Adviser: Prof. H. L. Pick, Jr.

**Richard Francis Sprecher, Spearfish,  
S.D.**

B.S. in Chem. with honors '63, South Dakota School of Mines and Technology. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Synthesis and Reactivity of Some Alkylated Cyclopentadienones and Their Ketals. Major Adviser: Prof. E. W. Garbisch.

**Karl Frederick Swingle, St. Paul**

B.A. '58, University of Wisconsin. Major: Pharmacology. Minor: Biochemistry. Thesis: Phases of the Inflammatory Response to Cotton Pellet Implantation and their Modification by Certain Anti-Inflammatory Agents. Major Adviser: Dr. F. E. Shideman.

**Kenneth Howard Thomas, Remsen,  
N.Y.**

B.S. '50, M.S. '56, Cornell University. Major: Agricultural Economics. Minor: Economics. Thesis: A Poly-Period Analysis of the Impact of Selected Variables Upon the Growth Process of Beginning Farm Firms, South Central Minnesota. Major Adviser: Prof. H. R. Jensen.

**Roine Hunt Thorup, Covina, Calif.**

B.S. '39, Utah State Agricultural College; M.A. '56, University of Minnesota. Major: Education. Minor: Home Economics. Thesis: A Study of the Relationship of Certain Attitudes and Characteristics of Home Economics Student-Teacher Candidates and Their Subsequent Effectiveness as Secondary School Teachers. Major Adviser: Prof. R. R. Ford.

**Edward Andrew Timsans,  
Washington, D.C.**

B.S. '61, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: On Automorphic Functions Defined on Locally Compact Groups. Major Adviser: Prof. S. A. Gaal.

**Leo Dean Vermedahl, Emmons**

B.S. with distinction '64, University of Minnesota. Major: Nutrition. Minor: Biochemistry. Thesis: Effects of Stunting Pigs in Utero or During the Neonatal Period on Subsequent Development and on Carcass Characteristics. Major Adviser: Prof. R. J. Meade.

Sung-Chu Wang, Taiwan

B.S. in Eng. '63, National Taiwan University;  
M.S. in E.E. '66, University of Minnesota. Major:  
Electrical Engineering. Minor: Mathematics. Thesis:  
On the Direct Implementation of Algorithmic Scientific  
Computer Languages. Major Adviser: Prof. R. P. Halver-  
son.

James Harris White, San Leandro,  
Calif.

B.A. '61, M.A. '65, University of California,  
Berkeley. Major: Mathematics. Minor: Lin-  
guistics and Comparative Philology. Thesis:  
Self-Linking and the Gauss Integral in Higher  
Dimensions. Major Adviser: Prof. W. F. Pohl.

### Summary of Degrees Conferred by the University During the Academic Year, 1967-1968

Conferred July, August, and December, 1967; and March, 1968 .....	4060
Conferred June, 1968 (subject to completion of requirements) .....	4687
	<hr/>
Total degrees conferred 1967-1968 .....	8747*

\* Includes 705 conferred at Duluth, 157 at Morris.

# Academic Costume

On appropriate occasions, anyone with a college or university degree may wear academic costume consisting of a gown, a hood, and a cap. By observing the kind of academic costume a person wears, it is possible to know the name of the university from which he graduated, as well as the degree which he holds, and, in some cases, the field of his major interest.

The long, pointed sleeve of the gown indicates a bachelor's degree; the long, closed sleeve with a slit for the arm indicates a master's degree; and the open sleeve marks a doctor's degree. Bachelor's and master's gowns are black in color and are without any trimming. Generally, the doctor's gown is also black, but some universities, particularly those abroad, prescribe such festive colors as red, crimson, or green. All doctor's gowns have velvet trimming on the front facings and crossbars on the sleeves. This trimming may be black, or it may match the color of the edging of the hood and thus identify the profession or field of major interest of the wearer.

At a commencement it is quite proper to wear the gown — but not the hood — appropriate for the degree which is to be received. The only hoods worn at commencements are for degrees which have already been received. Thus only those students and faculty members who have already received college or university degrees wear hoods. Anyone who has a degree from the University of Minnesota may wear a hood decorated with a maroon chevron on gold background. The length and shape of the hood indicate whether the wearer has earned a bachelor's, a master's, or a doctor's degree. The velvet edging on the hood indicates the field in which the degree was granted. For example, dark blue signifies Philosophy; light blue, Education; green, Medicine; lilac, Dentistry; orange, Engineering; russet, Forestry; drab, Business; olive green, Pharmacy; purple, Law; gray, Veterinary Medicine; golden yellow, Science; and white, Arts and Letters.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidates are honor students.

Caps, generally mortarboards with tassels, have significance, too. The doctor's tassel may be black or gold. Master's and bachelor's tassels are black; but at University of Minnesota commencements — upon the authority of the University Senate Committee on Functions — candidates for the bachelor's and associate's degrees wear tassels which indicate their schools or colleges by color as follows:

(In the order of march)

General Extension Division .....	orange and drab
General College .....	crimson and white
College of Liberal Arts .....	white
University College .....	old gold and white
College of Biological Sciences .....	golden yellow

Institute of Technology .....	orange
College of Agriculture, Forestry, and Home Economics .....	maize
College of Education .....	light blue
School of Business Administration .....	drab
College of Pharmacy .....	olive
Law School .....	purple
College of Veterinary Medicine .....	gray
School of Dentistry .....	lilac
College of Medical Sciences .....	green
Graduate School .....	black

But once the bachelor's degree has been received and the commencement is over, the graduate, should he wear academic costume again, will wear only the black tassel as does the holder of the master's degree. Similarly, he will not in the future wear the shoulder insignia as a part of his academic dress even if he is an honor graduate. All graduates of the University should remember that the academic dress at this University conforms to the rules of the Inter-collegiate Bureau of Academic Costume. This means that the Minnesota academic costume may be secured easily anywhere in the world. And it is always worn proudly and with distinction — for ours is a great University.



UNIVERSITY OF MINNESOTA

*July Commencement, 1968*

FRIDAY AFTERNOON, JULY 19, 4:00 P.M.

NORTHROP MEMORIAL AUDITORIUM

# *The Board of Regents*

The Honorable Lester A. Malkerson, Minncapolis  
First Vice-President and Chairman

The Honorable Marjorie J. Howard (Mrs. C. Edward), Excelsior  
Second Vice-President

The Honorable Elmer L. Andersen, St. Paul

The Honorable Daniel C. Gaincy, Owatonna

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Herb L. Huffington, M.D., Waterville

The Honorable Fred J. Hughes, St. Cloud

The Honorable Charles W. Mayo, M.D., Rochester

The Honorable William K. Montague, Duluth

The Honorable George W. Rauchenhorst, Olivia

The Honorable Otto A. Silha, Edina

The Honorable Herman F. Skyberg, Fisher

Dr. Malcolm Moos, President

Dr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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SMOKING AND USE OF CAMERAS AND RECORDERS — It is requested, by action of the Board of Regents, that in Northrop Memorial Auditorium smoking be confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms. The use of cameras or tape recorders in the auditorium by members of the audience is prohibited.



# *This Is Your University*

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and seventeenth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen — to name only some of the careers for which preparation is offered. Since its founding, the University has awarded more than 205,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to nearly 46,000 students annually on its Twin Cities, Duluth, Morris, Crookston, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H Club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

In the diversified research laboratories on the University's five campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

THE UNIVERSITY is acknowledged to be the cultural hub of the Northwest. It is the home of the University Artists Course, Radio Station KUOM, the University of Minnesota Television Hour, the University Theatre, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings renowned artists and lecturers to more than a million and a half persons living in the area it serves.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. Through the American Legion and its auxiliary posts all

over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the bio-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

To enlarge the base of private support for the University, the University of Minnesota Foundation was established in 1962 as a nonprofit organization, independent of the University but with the University as its sole beneficiary. The Foundation gives alumni, other citizens, and corporate donors the opportunity to make gifts, bequests, grants, and other forms of tax-deductible voluntary contributions. These funds supplement tax support and make possible the enriched programs and expanded services which create a "margin of excellence" for the University. Direction and resources of the Foundation are under the management of a Board of Trustees of concerned and dedicated citizens.

As it meets the needs of present students, the University must also make plans for those of the future. The 46,088 students who enrolled at the University at the beginning of the 1967-1968 academic year represented nearly one half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits. In the fall of 1965, for the first time in its history, the University instituted an admissions policy based on controlled growth of total enrollment. This change in admissions requirements held the 1967-1968 enrollment to about 46,000 students. It reflects the University's need for more teachers, more land, and more buildings. And it makes plain the University's determination to maintain the educational quality that has made it one of America's leading educational institutions.

THE 1967 LEGISLATURE granted the University \$110,893,275 for general operations and maintenance during the 1967-1969 biennium. In addition, the University received \$9,401,100 for University Hospitals; \$9,883,460 for special appropriations, including special extension and research activities; \$22,739,346 for new buildings, land, and the rehabilitation of existing buildings; and \$955,000 for the University of Minnesota Technical Institute, Crookston.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request, as is a much more comprehensive and complete statement for those who wish to make a special study of the University's income and expenditures.

The summary financial statement of 1966-1967 showed that the University's current income and expenditures amounted to \$69,292,131.98. Of the total received, \$16,389,611.68 came from student tuition and fees; \$25,313,080.86 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts

and the sale of bulletins and agricultural products; \$1,575,346.90 from inter-collegiate athletics; \$24,117,422.96 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$9,107,000.99 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$40,897,023.16 came from the federal government for instruction, research, and agricultural extension. The state provided \$51,892,645.43 or 30.1 percent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings amounted to \$21,607,236.

COMMENCEMENT marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund, administered in the Alumni Office in Coffman Memorial Union, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds, administered by the Department of University Relations, Morrill Hall.

Alumni, their families, and their friends are always welcome here. The University hopes they will return frequently to visit the campus and to renew cherished ties.

# Order of Events

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Minneapolis Campus of the University this afternoon from 3:15 to 3:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. William Cermak, Jr., University Carillonneur. Admission to the July Commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

**PRELUDE CONCERT:** From 3:30 to 4:00 Professor Heinrich R. Fleischer, University Organist, will play an organ concert.

**PROCESSION:** The audience is requested to remain seated so that all can see the procession. At 4:00 p.m., Professor Howard F. Nelson, Industrial Education, Faculty Marshal, will carry the Mace into the auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Nelson, as Mace-Bearer, will present the Mace at the center of the stage. When all those marching have taken their seats, he will put the Mace into its cradle to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

*Festival March* ..... Gluck

**ON THE STAGE:** The curtain will be opened when the Mace-Bearer enters. Seated in the first row, from left to right, are Marshal Nelson; Professor Wayland E. Noland, Ph.D., Institute of Technology, Marshal; Recorder W. Donald Beatty, Ph.D., Admissions and Records; The Reverend George G. Garrelts, Director of the Newman Center; Assistant Dean N. W. Moen, Ph.D., General College; Colonel William D. Beard, U.S.A., Professor of Military Science; Dean A. L. Vaughan, Ph.D., University College; The Honorable George W. Rauenhorst, Regent of the University of Minnesota; Professor Frank H. Kaufert, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Paul V. Grambsch, Ph.D., Business Administration; Associate Dean H. Mead Cavert, Ph.D., College of Medical Sciences; Dean Willard Thompson, Ph.D., Summer Session; The Honorable Arthur Naftalin, Mayor of Minneapolis, Commencement Speaker; Vice-President Donald K. Smith, Ph.D.; Dean of Students Edmund G. Williamson, Ph.D.; Dean Bryce L. Crawford, Jr., Ph.D., Graduate School; Dean Warren B. Cheston, Ph.D., Institute of Technology; Mr. Alan Heimbach, Past President of University of Minnesota Alumni Association; Dean Robert J. Keller, Ph.D., College of Education; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Assistant Professor Harvey J. Kupferberg, Ph.D., Pharmacy; Captain Harold K. Lawler, U.S.A.F., Assistant Professor of Aerospace Studies; Professor Roy A. Schuessler, M.S., College of Liberal Arts; Professor Heinrich R. Fleischer, University Organist; Associate Professor Fredric R. Steinhauser, Ph.D., General College,

**Marshal;** and Professor Robert L. Jones, Ph.D., Director, School of Journalism, Marshal.

**PRESENTATION OF COLORS:** As the color guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, enters the Auditorium, the audience will rise and will remain standing for the National Anthem and for the Invocation. Professor Fleischer will play.

**THE NATIONAL ANTHEM:** The entire audience and Professor Schuessler.

O, say! can you see, by the dawn's early light,  
    What so proudly we hail'd at the twilight's last gleaming,  
Whose broad stripes and bright stars, thro' the perilous fight,  
    O'er the ramparts we watch'd were so gallantly streaming?  
And the rockets' red glare, the bombs bursting in air,  
    Gave proof thro' the night that our flag was still there.  
O, say, does that star-spangled banner yet wave  
    O'er the land of the free and the home of the brave?

**INVOCATION:** Father Garrelts.

**SPEAKING FOR THE UNIVERSITY:** Vice-President Smith.

**COMMENCEMENT ADDRESS:** Mayor Naftalin.

**CONFERRING OF ROTC CERTIFICATES:** Vice-President Smith will introduce Colonel Beard and Captain Lawler, who will present the candidates for commissions in their respective services. Certificates of ROTC completion will be presented by Dean Thompson.

**PRESENTATION OF CANDIDATES:** Dean Thompson will introduce the deans of the several colleges or their representatives who will present to Vice-President Smith the candidates for certificates and degrees. They are, in order of their introduction, Dean Moen for the General College; Dean Ziebarth for the College of Liberal Arts; Dean Vaughan for the University College; Dean Cheston for the Institute of Technology; Professor Kaufert for the Institute of Agriculture; Dean Grambsch for the School of Business Administration; Dean Keller for the College of Education; Assistant Professor Kupferberg for the College of Pharmacy; Associate Dean Cavert for the College of Medical Sciences; and Dean Crawford for the Graduate School.

**CONFERRING OF DEGREES:** Vice-President Smith will confer certificates and degrees upon the members of this graduating class.

**SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION:** Mr. Heimbach.

**PRESENTATION OF DIPLOMAS:** With Dean Thompson presiding, members of the July graduating class will pass across the stage to receive their diplomas.

**CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY:** Vice-President Smith will confer the degrees upon the candidates. As each new Doctor of Philosophy is invested with his academic hood, he will be presented individually by Dean Crawford.

**HAIL! MINNESOTA:** The University's Alma Mater song, sung by the audience and Professor Schuessler.

Minnesota, hail to thee!	Like the stream that bends to sea,
Hail to thee, our college dear!	Like the pine that seeks the blue,
Thy light shall ever be	Minnesota, still for thee
A beacon bright and clear;	Thy sons are strong and true;
Thy sons and daughters true	From thy woods and waters fair,
Will proclaim thee near and far;	From thy prairies waving far,
They will guard thy fame	At thy call they throng
And adore thy name;	With their shout and song,
Thou shalt be their Northern Star.	Hailing thee their Northern Star.

**RECESSIONAL:** Professor Fleischer.

**THE AUDIENCE** is requested to remain seated until those in academic costume have left the Auditorium.

(Immediately following these exercises, all members of the audience are invited to attend the President's Reception, which is described on the back cover of this program.)

# *Candidates for Commissions*

Subject to the completion of all curriculum requirements at the close of the first term of the Summer Session, commissions will be presented to those listed below and to such others as may meet the requirements for the Reserve Officers in the Armed Services.

## **DEPARTMENT OF MILITARY SCIENCE**

### **Second Lieutenant, Corps of Engineers**

Kenneth J. Tyler, Minneapolis

## **DEPARTMENT OF AEROSPACE STUDIES**

### **Second Lieutenant, USAF Reserve**

Dennis R. Freidig, Willmar

Dennis R. Rossbach, St. Paul

# Candidates for Graduation

Subject to the completion of all curriculum requirements at the close of the first term of the Summer Session, degrees will be conferred as indicated on those listed below and upon such others as may meet the graduation requirements.

## GENERAL COLLEGE

### Associate in Arts

Judith Allene Anderson, Minneapolis	John Edward Lewis, Mound
Gorden James Benike, Inver Grove Heights	David Mark Lindahl, Minneapolis
Lee Allyn Bilderback, Newport	Richard James Mesjak, Minneapolis
Lee George Christiansen, Robbinsdale	Thomas Leo Moellerman, St. Paul
Diana Lea Daniels, St. Paul	Wilbert Michael Nordin, Minneapolis
Floyd Earl Doyle, St. Paul	Stephen James Quayle, St. Paul
Ronald Hugh Farrow, Anoka	Reginald Thomas Rettinger, Long Lake
Gayle Clayton Godfrey, Minneapolis	Earl John Rymer, Roseville
Dale Patrick Hennessy, Minneapolis	Carol Ann Schultz, Minneapolis
Kenneth Joseph Hoxmeier, St. Paul	Mark Stepnick, Minneapolis
Allen Javinsky, Minneapolis	Manuel T. Woods, Minneapolis
Ida Doll Klein, Minneapolis	

## COLLEGE OF LIBERAL ARTS

### Associate in Liberal Arts

Elizabeth Lois Gibson, Minneapolis	Gloria Jean Marget, Minneapolis
Carol Sue Harter, St. Paul	Linda Marie Mattila, Hastings
Rita Ann Kujawa, St. Paul	Janet Marie Moser, Minneapolis
Kathleen Ann Keating Lynard, Minneapolis	Thomas Edward Moser, St. Paul
	Gregory Hugh Ritter, St. Paul

### Bachelor of Arts

*Honors citations are provisional and will not become final until all requirements are met for the level indicated.*

Frederick Charles Adair, St. Paul	Ellen Marie Archer, Minneapolis
Sharon Kay Ahlbrecht, Hector	Richard Paul Arf, Minneapolis
Craig Keller Anderson, Detroit Lakes	Thomas George Arneson, Chaska,
Jeanne Deborah Anderson, St. Paul	MAGNA CUM LAUDE, Classics



Mary Gilford Atwood, Spring Valley  
 Deborah Jane Ballinger, Minnetonka  
 Richard Gregory Barbeau, Golden Valley  
 James Allan Barnett, Austin  
 Patrick Thomas Barnett, Minneapolis  
 Mary Katherine Sally Bell, Minneapolis  
 Scott Bradley Bentson, Minneapolis, CUM LAUDE, *Psychology*  
 John Biebel, West St. Paul  
 Jeannine Beatrice Bitz, Minneapolis, MAGNA CUM LAUDE, *French*  
 Shirlee Di-Ann Borell, Farmington  
 John Herbert Borg, Pelican Rapids  
 Jane Heiene Demulling Boyd, Minneapolis  
 Lois Ruth Bratrud, La Porte City, Iowa  
 Arthur Charles Bredesen III, Edina  
 Joseph Michael Breidel, St. Paul  
 Elizabeth Marie Brekke, Minneapolis  
 Kathleen Marcia Brom, Minneapolis  
 Robert Richard Brown, Minneapolis  
 Peter Buchanan Brownlie, Minneapolis, SUMMA CUM LAUDE, *Child Psychology*  
 James Charles Bugonian, Rochester  
 Thomas John Buysse, A.A., Worthington  
 Michael Lee Render Cagley, Hopkins  
 David Cline Canfield, Minneapolis  
 Jenny Elisabeth Chambers, St. Paul  
 Mary Ellen Cline, Minneapolis  
 Dennis Michael Coakley, St. Paul  
 William Terence Cole, St. Louis Park  
 Catherine Jane Cooper, St. Paul, SUMMA CUM LAUDE, *French*  
 William James Crockett, St. Paul Park  
 John Thomas Daniel, St. Louis Park  
 Mary Margaret Davis, Austin  
 James Edward DeWall, Morris  
 Mary Caroline Dircks, Minneapolis  
 George Reynold Domstrand, Minneapolis  
 Hartley Joseph Drannen, Minneapolis  
 James Langley Dunlap, A.L.A., Tuscumbia, Ala.  
 Klaus Hermann Dunst, Hamburg, Germany, SUMMA CUM LAUDE, *Economics*  
 Robert Joseph Egan, West St. Paul  
 Phanael Fanny Egejuru, Owerri, Nigeria, MAGNA CUM LAUDE, *French*  
 Sally Ann Egersdorf, St. Paul  
 Edward Kurt Ehlmann, St. Paul  
 Scott Charles Elkerton, Minneapolis  
 Gregory Scott Erickson, Minneapolis  
 Charles Albert Fiedler, Jr., Minneapolis  
 Donald Alan Fishman, Minneapolis  
 Jane Frishberg, Des Moines, Iowa  
 Lee Carl Gack, Minneapolis  
 Rita Jean Eichten Garvey, St. Paul  
 Joanne Avon Gatzlaff, Springfield  
 Judith Ann Gelina, Bloomington  
 Linda Lou Gerde, Sacred Heart  
 Sydney Eugene Getsug, A.L.A., St. Paul  
 Dale Lee Gilmore, Minneapolis  
 Mary Kathleen Gondek, Minneapolis  
 Charles Jerome Gregory, A.A., Minneapolis  
 Katharine Owen Grieshaber, Stillwater, SUMMA CUM LAUDE, *Music*  
 Kent Ernest Gustafson, Windom  
 John Albert Haluska, Minneapolis  
 Margaret Lenore Hanlon, Minneapolis  
 Stephen Bruce Harris, St. Louis Park  
 Joyce G. Harwood, Minneapolis  
 Daniel Louis Hawthorne, St. Paul, MAGNA CUM LAUDE, *Psychology*  
 Eric Johnson Heller, St. Paul, MAGNA CUM LAUDE, *Chemistry*, CUM LAUDE, *Mathematics*  
 Lynn Andre Henrickson, Guthrie  
 Robert Waddell Hollinshead, St. Paul  
 Judith Marie Hirsch Holtan, Minneapolis, SUMMA CUM LAUDE, *Art History*  
 Dorothy May House, Mahtomedi  
 Carl Alfred Ingerson, St. Paul  
 Susan Carol Isgrigg, Minneapolis  
 Diane Marie Iverson, Minneapolis  
 Jonathan Bren Jensen, Hopkins, SUMMA CUM LAUDE, *Psychology*  
 Jo Ann Jertson, Granite Falls  
 Freddie Lewis Johnson, St. Paul  
 John Anthony Johnson, Waseca  
 Joyce Alvina Johnson, Minneapolis  
 Kristin Ruth Johnson, St. Paul  
 Mary Johanna Johnson, Minneapolis

Sharon Lee Johnson, Minneapolis  
 Elaine Marie Jorgenson, Minneapolis  
 Ellen Ann Kean, Grand Rapids  
 Carol Jean Kincheloe, St. Paul, *MAGNA CUM LAUDE, German*  
 Barry John Kirchmeier, Windom  
 Sarah Ann Kilmer Kissock, Bloomington  
 Marilyn Mary Klinkner, Minneapolis  
 Roberta Marie Klock, Austin  
 Patricia Louise Knox, Toronto, Ontario, Canada, *CUM LAUDE, French*  
 Roger William Koechel, Minneapolis  
 Thomas Michael Kollen, Minneapolis  
 James John Kriz, St. Paul  
 Lynn Suzanne La Froth, Duluth  
 Mark Albert Landergan, St. Paul  
 Rita Wendeline Larson, Minneapolis, *SUMMA CUM LAUDE, Psychology*  
 Lee James Levitan, St. Paul  
 Lola Ann Lewison, Granite Falls, *CUM LAUDE, Journalism*  
 Geraldine Dorann LiaBraaten, A.A., Minneapolis, *SUMMA CUM LAUDE, Anthropology*  
 Jeanette Marie Lorenz, Waterville  
 James Bruce Majerus, Bellechester  
 Michael Lorin Mann, Excelsior, *CUM LAUDE, English and Philosophy*  
 Kathleen Frances Berens Manteuffel, St. Paul  
 John William Martin, Saratoga, Calif.  
 Peter James Maxwell, Minneapolis  
 Glen Benner Medbery, Browns Valley  
 Lee Alan Metzelaar, Minneapolis  
 Larry Gene Miller, A.A., Minneapolis  
 Lynnea Solviog Olson Miller, New Brighton, *CUM LAUDE, English*  
 John Joseph Morgenthaler, Minneapolis  
 Larry Allan Muenchow, Tracy  
 Harold Norman Nast, Jr., White Bear Lake  
 Anthony George Nicklow, Minneapolis  
 Robert Allen Ogdahl, Glenwood  
 Randall Willard Olsen, St. Paul  
 Ann K. Syrdal O'Malley, Minneapolis, *SUMMA CUM LAUDE, Psychology*  
 Ardyce Olga Holmen Pangrac, Minnetonka  
 Jerome Fredrick Paquin, St. Paul  
 Linda Diane Past, Minneapolis  
 Joel Murray Paul, A.A., St. Paul  
 Roger Frank Paulson, St. Paul  
 Robert Alan Peters, St. Paul  
 Darcy Richard Peterson, Minneapolis  
 George Bennet Peterson, Minneapolis  
 Todd Omer Peterson, Montevideo  
 Vida Ronne Brodie Peterson, St. Paul  
 John Gregory Porter, St. Paul  
 Valerie Annet Vaux Pranica, Minneapolis  
 William Chris Preisler, Jr., Minneapolis  
 Thomas Bates Punch, Minneapolis  
 Lesya Pundyk, A.L.A., Hibbing  
 Jill Dianne Ramsell, Palo Alto, Calif.  
 Kathleen Louise Rantala, Minneapolis  
 Kathleen Cecile Reynolds, Minneapolis  
 Jeffrey Blair Rice, A.A., Richfield  
 Richard Allen Rislove, Preston  
 Patricia Lee Beckstrom Ritchie, St. Paul  
 James Allen Rodin, Minneapolis  
 Kenwood Merlyn Rund, Minneapolis  
 John James Ryan III, St. Paul  
 John William Ryan, Minneapolis  
 Ely Chisholm Salyards, Eveleth  
 Richard John Schreier, Marshall  
 Janet Muriel Anderson Schuffenhauer, Minneapolis  
 Jane Marie Fredrickson Schulz, Minneapolis  
 Wilford Glenn Schulz, Minneapolis  
 Joan Margaret Seamens, Rochester  
 Joan Elizabeth Seashore, Edina  
 David John Shama, Minneapolis  
 Richard George Simmons, St. Paul  
 Jacqueline Martin Snyder, Minneapolis, *SUMMA CUM LAUDE, Anthropology*  
 Susan Spiegel, Evanston, Ill., *CUM LAUDE, Journalism*  
 Robert Holmes Stafford, Minneapolis  
 Bernard Wendlin Steele, North Oaks, *MAGNA CUM LAUDE, Premedicine*  
 Neil Arnold Stein, St. Paul

Michael Jon Steinberg, St. Louis Park  
Helen Halvorson Stevens, Brainerd  
Sandra Lea Stoeckel, Bethel  
Susan Kay Stubblebine, Eveleth  
Richard Julian Studer, West St. Paul  
Arlene Timmerman Swanson, Minneapolis, MAGNA CUM LAUDE, Sociology  
Gary Lee Swanson, Hopkins, CUM LAUDE, Psychology  
Dorothy Patricia Tether, A.A., Bloomington, MAGNA CUM LAUDE, Geography

Richard John Theis, Watkins  
Jean Tulloch-Reid, Kingston, Jamaica  
David William Turner, Mexico City, Mexico  
Robert Burton Van Horn, Minneapolis  
Nancy Jane Van Hoven, St. Paul  
Mary Katherine Volk, St. Paul  
Margaret Mary Walters, Minneapolis  
Janet Lea Wangerin, Superior, Wis.  
Juris Andris Zankevics, Excelsior

## UNIVERSITY COLLEGE

### Bachelor of Arts

Sharon Rae Iverson, St. Paul

## INSTITUTE OF TECHNOLOGY

### Bachelor of Aeronautical Engineering

Eugene Richard Danielson, Minneapolis, WITH DISTINCTION  
David Earl Godfrey, Minneapolis  
Michael Lee Ludwig, Joplin, Mo., WITH DISTINCTION

David Peter Skogman, Cambridge  
Steven James Snackenberg, Robbinsdale  
Stephen Nicholas Zender, St. Paul

### Bachelor of Agricultural Engineering

William Warren Jerzak, Ivanhoe

### Bachelor of Chemical Engineering

Dean David Dworak, Ivanhoe, WITH DISTINCTION

Andrew Wilson Stirrat, Edina

### Bachelor of Chemistry

Clifford James Anderson, St. Paul

### Bachelor of Civil Engineering

Delbert Walter Gerdes, Howard Lake, WITH DISTINCTION  
Edwin Osmund Johnson, Minneapolis

## Bachelor of Electrical Engineering

Douglas John Abrahamson, Robbinsdale

Juan Cornelius Balli, Minneapolis

John Payzant Cooke, Minneapolis

Norbert M. Ewald, B.S.B., Hopkins

Arpad Pocza, Sydney, Australia

Douglas Martin Risch, Aitkin

John Albert Ryerse, Manistique,

Mich., WITH DISTINCTION

Allen Mark Stolee, Kenyon

## Bachelor of Mathematics

*James Scott Seck, Edina, WITH HIGH DISTINCTION*

## Bachelor of Mechanical Engineering

Rolf David Anderson, Minneapolis,

WITH DISTINCTION

Dagfinn Bondevik, Norway, WITH

DISTINCTION

Bernard Francis Brom, Anoka

Stephen Albert Erickson, Virginia

Thomas Patrick Kelley, Minneapolis

John Joseph Kerwin, St. Paul

Gary Keith Kuhn, St. Paul

Michael Patrick Lynch, Stillwater

Robert Eugene Sirany, Minneapolis

Craig Thomas Tekse, Robbinsdale,

WITH DISTINCTION

Bhupinder Nath Wahi, Bombay,

India, WITH DISTINCTION

## Bachelor of Physics

James Carl Kish, Minneapolis

Dennis Roger Rossbach, St. Paul,

WITH DISTINCTION

# COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

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Amy Swanson Buckingham,

McIntosh, Home Economics

Maureen Gail Burniece, Minneapolis,

Home Economics

Sheila Roxanne Chin, St. Paul, Home Economics

Anthony Peter Chos, Eveleth, Forestry, WITH DISTINCTION

Jean Eileen Ellery, St. Paul, Agriculture, WITH HIGH DISTINCTION

Nancy Carol Jacobsen, Richfield, Home Economics

Mary Katherine Jordan, St. Paul, Agriculture

Carolyn Elaine Kingsley, St. Paul, Home Economics

Angeliki G. Marinou, Athens, Greece, Home Economics

Stephen John Maxson, St. Paul, Agriculture

Dean Henry Schutte, Osseo, Agriculture

Yvonne Jeanne Steinbring, Isanti,  
Home Economics  
Kathleen Ann Verant, Bloomington,  
Home Economics

Haydn Eugene Widtfeldt, Jr., A.A.,  
Minneapolis, Agriculture  
Miles Wiegand, Winthrop, Forestry

## COLLEGE OF EDUCATION

### Bachelor of Science

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Mary Ann Brock, Lakeville  
Emilie Kay Algaard, Fosston  
Robert John Anderson, Mahtomedi  
Robert Alfons Andrews, Bloomington  
Bonnie Louise Benson, Hopkins  
Arlona Violet Bergman, Russell  
Carol Rae Brown, Minneapolis  
Barbara Jean Buzicky, St. Paul  
Helen Jeanne Byan, St. Louis, Mo.  
Anne Fowler Carlson, B.A., Water-  
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Carolyn Janice Carlson, Pipestone  
Susan Maria Carlson, Minneapolis  
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Wis., WITH DISTINCTION  
Carolyn May Cheese, St. Louis Park,  
WITH DISTINCTION  
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Anita Ruth Clark, Minneapolis  
Dorothy June Cook, St. Paul, WITH  
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Joan Patricia Crooks, Minneapolis  
Martha Maria Davis, Des Moines,  
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OttoLee Macomber Davis, Minne-  
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Judith Carole Devin, Minneapolis  
Marian Faith Dewey, Muskegon  
Heights, Mich., WITH DISTINCTION  
Ruth Lilly Du Clos, Coon Rapids,  
WITH DISTINCTION  
Karla Bahe Duff, Farmington  
Donald Vern Eckels, Jr., Bloomington  
Marilynn Louise Eidsmore, St. Louis  
Park, WITH DISTINCTION  
Barbara Jean Evenson, Richfield  
Ina Vollegraaf Fetzek, Crystal  
Kathe Ann Grossman, B.A., Hopkins  
Diane Marie Hanson, Houston

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Helen Adams Henslin, Brooksville,  
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Mary Alice Hoaas, Minneapolis, WITH  
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Garland Lynn Holley, Minneapolis  
Janice Ann Hvistendahl, Worthington,  
WITH DISTINCTION  
Carol Ann Johnson, Minneapolis  
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WITH DISTINCTION  
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Marilyn Ann Koich, South St. Paul  
Linda Maxine Kuehnast, Lanesboro  
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Robert Owen Lorfald, Minneapolis  
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Beth Marie Loken, Carlisle, WITH DIS-  
TINCTION  
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Ray Alva Lucas, A.A., Hugo  
Rosalyn Rita Mac Donald, Richfield,  
WITH DISTINCTION  
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Joann Delores Malaske, New Brighton  
Carol Jean Malkovich, Minneapolis  
Dan Stewart Marsh, St. Paul, WITH  
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Diana May Martens, Minneapolis  
Donald Ivan Martinson, A.A., Minne-  
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Pamela Mold Meissner, Rush City

Kathleen Kraemer Miller, Minneapolis  
*Lynnea Solvig Olson Miller, New Brighton, WITH HIGH DISTINCTION*  
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 Thomas Gerald Morrow, St. Paul  
 Dennis Richard Mortenson, B.A., St. Paul  
 Nora Lee Moss, Wayzata  
 Mary Demmer Mullen, St. Louis Park  
 Paul Robert Nielsen, St. Paul  
 Douglas Matthew Niska, North St. Paul  
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 Cheryl Louise Norquist, Minneapolis  
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 Cynthia Marie Odland, Granite Falls  
 Karen Genevieve Olson, Minneapolis  
 Herbert Parmet, St. Louis Park  
 Lois Doreen Roffers Pearson, Cannon Falls, WITH DISTINCTION  
 Jill Carol Pelham, Minneapolis  
 Corrine Beckman Petersen, Cottage Grove  
 Barbara Marie Peterson, Minneapolis  
 Craig Alan Peterson, Minnetonka  
 Valerie Vaux Pranic, Minneapolis  
 Katherine Ragsdale, Minneapolis  
 William Charles Raymond, Hamel  
 Robert Wayne Reinke, Minneapolis, WITH DISTINCTION  
 Luther Henry Reitan, Waubun  
 Susan Joan Rogness, St. Louis Park  
 Kathleen Marie Schmitt, St. Paul  
 Mary Susan Schneider, Minneapolis  
 Joaquenia Virginia Shaw, Minneapolis  
 Thomas Leonard Siebold, St. Paul, WITH DISTINCTION  
 Linda Margaret Siegmund, Robbinsdale  
 Sharon Ann Rumpza Slettehaugh, Minneapolis, WITH HIGH DISTINCTION  
 Mary Catherine Stire, Minneapolis  
 Irene Elizabeth Studer, Albert Lea  
 Carol June Swendra, Savage  
 Joyce A. Lill Thomas, Kenosha, Wis., WITH DISTINCTION  
 Shirley Ann H. Thompson, Minneapolis, WITH DISTINCTION  
 David Allen Thorpe, Minneapolis  
 Sheldon Lee Tornquist, Kerkhoven  
 Kathryn Mary Tscholl, Minneapolis  
 Donna Halle Wanous, Minneapolis, WITH DISTINCTION  
 Bonnie Gay Warner, Maple Plain  
 Walter Dwight Weaver, White Bear Lake  
 Lorretta Winifred Westby, St. Paul, WITH DISTINCTION  
 Beverly Jean Wilson, White Bear Lake  
 Peter John Whiteneck, New Brighton  
 Adelaide Irene Williams, White Bear Lake  
 Frederick E. Witt, Minneapolis  
 Pamela Kaye Wood, St. Louis Park  
 Janice Kay Worrell, Minneapolis, WITH DISTINCTION

## Master of Education

James Carl Anderson, B.S., Minneapolis  
 James Lyn Bannister, B.A., Saskatoon, Saskatchewan, Canada  
 Robert Eugene Greenhalgh, B.S., Beatrice, Neb.  
 Kenneth Marvin Johnson, B.S., Detroit, Mich.  
 Roger Rene Johnson, Minneapolis  
 Roger Arthur Kuhn, B.S., Minneapolis  
 Mary Joan Mero, B.S., St. Paul  
 Michael Florenz Montano, B.A., Sterling, Colo.

# COLLEGE OF EDUCATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

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Wesley Charles Fausch, Morristown,  
Agricultural Education  
Patricia Lynn Huckell, Hopkins,  
Home Economics Education, WITH  
DISTINCTION

Sharon Elaine Jallen, A. A., Biwabik,  
Home Economics Education  
Pamela Jane Larson, Minneapolis,  
Home Economics Education

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Science in Business

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James Richard Anderson, Minneapolis  
Arthur Gene Andrew, A.A., Rochester  
Gary Allen Bauer, St. Paul, WITH DIS-  
TINCTION  
Robert George Borgeson, Anoka  
Richard Lee Brown, Minneapolis  
Jon William Dresel, North Branch  
Robert Hjalmar Elfstrum, Mora, WITH  
DISTINCTION  
James Arthur Engstrom, Minneapolis  
David Carlyle Fulton, Crystal, WITH  
DISTINCTION  
Thomas Dunlap Hays III, Edina  
Richard Dennis Hendrickson, Minne-  
apolis, WITH DISTINCTION

Charles Dwight Hildebrandt, Fridley  
Tom Alvin Holtman, Minneapolis  
Robert Starr Horeck, A.A., Rochester  
Robert William Janke, Wentworth,  
S.D.  
Mitchell Allen Kamon, Pittsburgh, Pa.  
Bernard Andrew Klein, Jr., St. Paul  
James August Mogen, Dodge Center  
Randy Charles Moskalik, Minneapolis,  
WITH DISTINCTION  
Larry LeRoy Muller, Bloomington  
Morgan Kent Nelson, Minneapolis  
John Frederick White, Chanhassen  
Timothy Hughes Zweig, Stillwater

## SCHOOL OF BUSINESS ADMINISTRATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

### Bachelor of Agricultural Business Administration

Daniel Francis Griffin, New Albin, Iowa

# COLLEGE OF MEDICAL SCIENCES

## Bachelor of Science

Mary Margaret Herrmann, Minneapolis, Medical Technology\*

## Master of Public Health

Richard Ramond Brusuelas, B. S.,  
St. Paul

Mary Elizabeth Darling, B.S., Minne-  
apolis

Virginia L. Felch, B.S., Phoenix, Ariz.

Annette Kosko, B.S., Philadelphia, Pa.  
Patricia Louise Kratky, B.S., Fargo,  
N.D.

LeLand D. Schultz, B.S., New  
Brighton

## GRADUATE SCHOOL

### Master of Architecture

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### Master of Arts

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Major Adviser: Prof. M. V. Chamley.

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John Stephen Benson, Minneapolis

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\* This degree is conferred subject to the completion of practical work prior to December 14, 1968.



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B.S.E.E. '59, University of California. Field of Concentration: Statistics. Major Adviser: Prof. B. W. Lindgren.

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B.A. '51, Syracuse University. Field of Concentration: Library Science. Major Adviser: Prof. R. H. Shove.

William L. Warner, St. Paul

B.S. '65, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. W. G. Meyer.

Cynthia Merritt Watters, Minneapolis

B.A. '66, Oberlin College. Field of Concentration: Library Science. Major Adviser: Prof. N. J. Freeman.

John Leslie Westin, St. Paul

B.A. '64, Macalester College. Field of Concentration: Theatre. Major Adviser: Prof. F. M. Whiting.

Clair Duane Wilcoxon, New Brighton

B.A. *cum laude* '55, Hamline University. Field of Concentration: Library Science. Major Adviser: Prof. Patricia Turner.

Timothy DeWitt Williams, St. Paul

B.A. '66, Bethel College. Major: Speech, Communication, and Theatre Arts. Minor: Sociology. Thesis: A Rereading of Lincoln's First Inaugural Address in Light of its Contemporary Rhetorical Context. Major Adviser: Prof. R. L. Scott.

Jessica Redway Wirth, Ossining, N.Y.

B.A. '65, University of Wisconsin. Field of Concentration: Linguistics and Comparative Philology. Major Adviser: Prof. Walter Lehn.

Sister John Christine Wolkerstorfer, St. Paul

B.A. '61, College of Saint Catherine. Major: History. Minor: Political Science. Thesis: Anti-German Nativism in Ramsey County 1850-1918. Major Adviser: Prof. R. C. Loehr.

Larry Dean Yore, Delavan

B.S. '64, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. C. H. Boeck.

## Master of Arts in Public Administration

Winston Wendell Borden, Brainerd

B.A. with honors '65, St. Cloud State College. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Archie Donald Chelseth, St. Paul

B.A. *cum laude* '63, University of Minnesota. Major: Public Administration. Thesis: "An Investigation of the Public Policy Implications of Severed Mineral Interests in Minnesota." Major Adviser: Prof. G. A. Warp.

## Master of Business Administration

Richard John Bouquet, Wabasha  
B.S.B.A. '64, Marquette University. Field of Concentration: Business Administration. Major Adviser: Prof. A. K. Wickesberg.

Arthur Fredrick Braun, Hudson, Iowa  
B.S. '55, United States Naval Academy. Field of Concentration: Business Administration. Major Adviser: Prof. R. K. Gaumnitz.

Robert LaVerne Howell, Rockport, Mo.

B.S.E.E. '64, Iowa State University. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Robert Henry Kleemeier, Ogdensburg, N.Y.

B.Ch.E. '59, Clarkson College of Technology. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Michael Joseph Leary, St. Paul

B.S. '61, St. Mary's College. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Klaus-Peter E. Lohaus, Düsseldorf, Germany

Diplomprüfung '65, Freie University, Berlin. Field of Concentration: Business Administration. Major Adviser: Prof. A. K. Wickesberg.

Dennis Alvin Meyer, Minneapolis

B.A. '57, B.S.B. '60, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

James Sylvester Murphy, Mankato

B.S. '66, St. John's University. Field of Concentration: Business Administration. Major Adviser: Prof. C. A. Williams, Jr.

Richard Arthur Shea, Faribault

B.S. '59, St. John's University. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

## Master of Fine Arts

Gary Edward Dartt, Wall, S.D.

B.S. '64, Augustana College. Field of Concentration: Theatre. Major Adviser: Prof. W. J. Josal.

James Harry Knipe, Seattle, Wash.

B.A. '66, Western Washington State College. Field of Concentration: Studio Arts. Major Adviser: Prof. Katherine Nash.

Janice Larrison Knipe, San Francisco, Calif.

B.A. '66, Western Washington State College. Field of Concentration: Studio Arts. Major Adviser: Prof. Warren MacKenzie.

## Master of Science

Theodore Darrell Allen, Minneapolis

B.A. '66, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: The Characterization of an Inhibitor of Cell Free Protein Synthesis. Major Adviser: Prof. S. G. Bradley.

Dixalene Catherine Bahleda, Wausau, Wis.

B.S. with high distinction '64, University of Minnesota. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. G. M. Sarosi.

Jerome Vincent Bambenek, Arcadia, Wis.

B.S. '61, Wisconsin State University. Field of Concentration: Agricultural Economics. Major Adviser: Prof. T. R. Nodland.

Peter Y. Bengtson, Greenwich, Conn.

B.S.M.E. '61, Duke University. Field of Concentration: Environmental Health. Major Adviser: Prof. R. G. Bond.

Richard Craig Borden, Minneapolis  
B.A. '62, University of Minnesota. Field of Concentration: Biometry. Major Adviser: Prof. J. E. Bearman.

Yolande Marie-Thérèse Brodeur,  
Quebec, Quebec, Canada  
B.S. '59, Université Laval. Field of Concentration: Home Economics. Major Adviser: Prof. Isabel Noble.

Charles Edward Carson, Detroit,  
Mich.  
B.A. '61, University of Michigan. Field of Concentration: Biometry. Major Adviser: Prof. B. W. Brown, Jr.

Yee-Foong Chen, Malaysia  
B.S. '64, Nanyang University, Singapore. Field of Concentration: Animal Science. Major Adviser: Prof. R. J. Meade.

Francis Jerome Cobian, Minneapolis  
B.S. '59, Wisconsin State University. Field of Concentration: Dairy Industries. Major Adviser: Prof. E. L. Thomas.

Wen-Shiew Dai, Hsinchu, Taiwan,  
China  
B. of Commerce '64, National Chengchi University, Taiwan. Field of Concentration: Business Administration. Major Adviser: Prof. Jay Smith.

Thelma Anne Grant, Minneapolis  
B.A. '61, University of Wisconsin. Major: Home Economics. Minor: Biometrics. Thesis: Effects of Short-Term Cold Storage on the Preservation of Ascorbic Acid in Cabbage Extracts. Major Adviser: Prof. Isabel Noble.

Ross Carter Grotbeck, Minneapolis  
B.S. '66, University of Minnesota. Major: Agronomy. Minor: Biometrics. Thesis: Influence of a Uniculum Character on Zinc Accumulation in Barley. Major Adviser: Prof. L. H. Smith.

Dennis Eugene Hacker, Canby  
B.S. '66, University of Minnesota. Major: Animal Science. Minor: Genetics. Thesis: An Evaluation of Breeds of Swine on the Basis of their Crossbred Performance. Major Adviser: Prof. W. E. Rempel.

Helen Scott Hughes, Hudson, Wis.  
B.A. summa cum laude '27, Carleton College. Major: Astronomy. Minor: Curriculum and Instruction. Thesis: The Distribution of the Motions of very Faint Stars near the North Galactic Pole. Major Adviser: Prof. W. J. Luyten.

Kenneth Walter Jeddelloh, Minneapolis  
B.S. '64, University of Minnesota. Field of Concentration: Zoology. Major Adviser: Prof. A. B. Hooper.

Richard Dale Karp, Minneapolis  
B.A. '65, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Immune Response in the Mouse: Studies on the Origin of Normal Antibody. Major Adviser: Prof. S. G. Bradley.

Leo Richard Lake, Kalamazoo, Mich.  
B.S. '65, Massachusetts Institute of Technology. Field of Concentration: Physics. Major Adviser: Prof. H. W. Courant.

Gregorio Adan Oestemer, Santiago,  
Chile  
Tecnico Agrario '64, Universidad Catolica de Valparaiso, Chile. Field of Concentration: Animal Science. Major Adviser: Prof. L. E. Hanson.

Theodore John Pepin, St. Paul  
B. of Physics '62, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Measurements of the Brightness and Polarization of the Outer Corona During the May 30th, 1965 Total Solar Eclipse. Major Adviser: Prof. E. P. Ney.

Frank William Perpich, Crosby  
B.S. cum laude '54, M.A. '56, University of Minnesota. Field of Concentration: Botany. Major Adviser: Prof. G. B. Ownbey.

James Edward Potton, Hudson, Wis.  
B.S. '63, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. L. C. Merriam, Jr.

Alton Harry Seid, L'Anse, Mich.  
B.S. '52, Michigan State University. Field of Concentration: Plant Pathology. Major Adviser: Prof. R. D. Wilcoxson.

Marlyn Siders, Macy, Ind.  
B.S. cum laude '63, Indiana State Teachers College. Field of Concentration: Botany. Major Adviser: Prof. E. C. Abbe.

**Richard Allan Tripp, Minneapolis**

B.A. '65, Mankato State College. Field of Concentration: Biostatistics. Major Adviser: Prof. G. E. Bartsch.

**Daryl Ray Tweeton, Pelican Rapids**

B.A. *cum laude* '64, Macalester College. Major: Physics. Minor: Mathematics. Thesis: Elastic Scattering of K Mesons in Hydrogen at 594Mev/c. Major Adviser: Prof. H. W. Courant.

**David Keith Wildung, Marshalltown, Iowa**

B.A. '63, Iowa State College. Major: Horticulture. Minor: Plant Physiology. Thesis: Cold Resistance of East Malling VII Rootstock. Major Adviser: Prof. E. T. Andersen.

**Gary Lee Witzman, Biwabik**

B.A. *cum laude* '66, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

## **Master of Science in Aeronautical Engineering**

**Sulaiman Owolabi Talabi, Epe, Nigeria**

B.Aero.E. '66, University of Minnesota. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. D. D. Joseph.

## **Master of Science in Civil Engineering**

**David John Anderson, St. Paul**

B. of C.E. with distinction '66, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Air Entrainment and Velocity Profile Characteristics upon Impact of a Free Fluid Jet into a Similar Fluid. Major Adviser: Prof. A. G. Anderson.

**Gary J. Boos, Minneapolis**

B. of C.E. '66, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. L. E. Goodman.

**Ashok Kumar Chugh, Amritsar, India**

B.Sc.Eng. '63, Punjab Engineering College, Chandigarh. Field of Concentration: Civil Engineering. Major Adviser: Prof. W. T. Graves.

**John Thomas Davenport, Fergus Falls**

B.S.C.E. '66, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: The Effect of Submerged Long Constrictions on the Dynamic Equilibrium Depth of Scour in Open Channels. Major Adviser: Prof. J. W. Hayden.

**Charles Gorman Gilbert, Minneapolis**

B.S.C.E. with honors '66, University of Cincinnati. Major: Civil Engineering. Minor: Mathematics. Thesis: The Effects of Long-Chain Polymer Additives on the Flow Around an Enclosed Rotating Disk. Major Adviser: Prof. J. F. Ripken.

**James Arthur Haugen, Huron, S.D.**

B.S. '64, United States Naval Academy. Field of Concentration: Civil Engineering. Major Adviser: Prof. J. T. Hanley.

## **Master of Science in Dentistry**

**Leroy Edwin Albjerg, St. Paul**

B.S. '58, D.D.S. '60, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: Comparison of Antibiotic Sensitivity on Pure Strains of Bacteroides Melaninogenicus. Major Adviser: Dr. N. O. Holte.

**Issam Aldin Awwa, Damascus, Syria**

D.D.S. '64, Damascus University. Major: Dentistry. Minor: Public Health. Thesis: Justification of Dental Plaque as an Indicator in Epidemiological Indices for Periodontal Disease. Major Adviser: Dr. R. E. Stallard.



## Master of Science in Electrical Engineering

Gerald Richard Arneson, Duluth

B.S. '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Design Automation by Computerized Parameter Optimization. Major Adviser: Prof. F. N. Bailey.

Edward Wygant Ashford, Minneapolis

B.S. '62, Louisiana State University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. K. S. P. Kumar.

Robert Neil Bateson, Brooklyn Center

B.M.E. with high distinction '54, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. K. S. P. Kumar.

Randall Steven Brown, Hayward

B.S.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Medical Biochemistry. Thesis: Electroencephalogram Analyzer Optimization. Major Adviser: Prof. F. M. Waltz.

James Barton Dietel, Minneapolis

B.E.E. '58 with distinction, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

Harry William Lienke, Minneapolis

B.S. '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Nucleation and Growth Studies of Gold on Anodically Formed Aluminum Oxide. Major Adviser: Prof. D. E. Anderson.

Roger Theodore Olson, White Bear Lake

B.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Comparison of Loss-Formula, Phase-Angle and Exact Methods for Economic Dispatch of an Electric Power System. Major Adviser: Prof. V. D. Albertson.

Robert Franklin Troemel, Minneapolis

B.S. in E.E. '59, South Dakota State College. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

## Master of Science in Industrial Engineering

Bruce William Wehrle, St. Paul

B.M.E. '66, University of Minnesota. Field of Concentration: Industrial Engineering. Major Adviser: Prof. R. S. Nyquist.

## Master of Science in Mechanical Engineering

Roy Robert Brannon, Jr., Waynesboro, Va.

B. of M.E. with honors '63, Georgia Institute of Technology. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Variation of Total Normal Emittance and Total Directional Emittance as a Function of Dielectric Film Thickness on a Metal Substrate. Major Adviser: Prof. R. J. Goldstein.

Kenneth Wert French, Jr., Aiken, S.C.

B.S.M.E. '63, Purdue University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Initial Convections of a Horizontal Liquid Layer with Heating from Below or Within. Major Adviser: Prof. R. J. Goldstein.

Layne Eugene Fuller, San Mateo, Calif.

B.S. '66, University of California at Santa Barbara. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Simple Fundamental Flame Speed Measurements: A Flat Flame Deflagration Tube. Major Adviser: Prof. E. A. Fletcher.

Donald James Parks, Denver, Colo.

B.S. '66, Colorado State University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Combustion Studies of Trifluoromethyl Halides with Fluorine. Major Adviser: Prof. E. A. Fletcher.

**William Todd Pennell, Miami Springs, Fla.**

B.M.E. '64, University of Florida. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: The Effect of Free Stream Turbulence on the Heat Transfer from the Stagnation Point of a Transpiration Cooled Cylinder. Major Adviser: Prof. E. R. G. Eckert.

**Pimo Yoh, Taiwan, China**

M.S. '65, University of Tokyo. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. W. E. Ibele.

## **Master of Science in Metallurgical Engineering**

**Shankverm Rangaswamy Balajee, Bangalore, India**

B.S. '60, M.S. '60, Nagpur University, India. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: The Adsorption Mechanism of Starches in Cationic Flotation of Iron Ores. Major Adviser: Prof. Iwao Iwasaki.

**Masayasu Ishikawa, Hiroshima, Japan**

B.S. '66, University of Tokyo. Major: Metallurgical Engineering. Minor: Physics. Thesis: Low Temperature Specific Heats of Niobium Carbide and Tantalum Carbide Systems. Major Adviser: Prof. L. E. Toth.

## **Master of Science in Mineral Engineering**

**Alan Eugene Leske, Hopkins**

B.M.E. '67, University of Minnesota. Field of Concentration: Mineral Engineering. Major Adviser: Prof. E. P. Pfeider.

## **Specialist in Education**

**Maxine Kirst Dilliard, St. Paul**

B.A. '65, M.A. '67, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. D. Hall.

**Joseph Hubbard Vickberg, Owatonna**

B.S. '62, Gustavus Adolphus College; M.A. '67, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. D. Hall.

## Doctor of Philosophy

Neil Bernard Betten, New York, N.Y.

B.A. '61, Harpur College. Major: History. Minor: Supporting Program. Thesis: Catholicism and the Industrial Worker During the Great Depression. Major Adviser: Prof. Hyman Berman.

Gerald William Bieber, Frederick, S.D.

B.A. '55, Wheaton College; B.A. '59 Macalister College; M.A. '62, University of Minnesota. Major: Speech, Communication, and Theatre Arts. Minor: English. Thesis: Billy Sunday: A Study of His Message During the Second Decade of the Twentieth Century and the Means He Used to Persuade His Audiences. Major Adviser: Prof. E. G. Bormann.

Richard William Brooks, Milwaukee, Wis.

B.S. '57, University of Wisconsin. Major: Philosophy. Minor: Supporting Program. Thesis: The Rope and the Snake: An Investigation of the Concept of Adhyasa (Superimposition) in Advaita Vendanta. Major Adviser: Prof. K. H. Potter.

Lucius Albert Butler, Jr., St. Paul

B.A. '52, College of Puget Sound; M.A. '55, University of Minnesota. Major: Education. Minor: History and Philosophy of Education. Thesis: Role Dimensions of the Instructional Materials Generalist. Major Advisers: Prof. E. M. Birkmaier and Prof. N. P. Pearson.

Potter Chien-Tien Chang, Republic of China

B.S. '58, National Taiwan University; M.S. '66, University of Minnesota. Major: Biometry. Minor: Statistics. Thesis: Statistical Models for Animal Survival Time in Ascites Tumor Experiments. Major Adviser: Prof. B. W. Brown, Jr.

Neil Eugene Christenson, Litchfield

B.A. '56, College of St. Thomas; M.A. '63, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Study of the Relationship Between Selected Economic Factors and Teachers' Salaries in the Twin Cities Metropolitan Area. Major Adviser: Prof. N. C. Nickerson.

Jack Homer Doty, Minneapolis

B.M.E. '49, University of Minnesota; M.B.A. '53, Harvard University. Major: Business Administration. Minor: Industrial Relations. Thesis: Bacon Pricing Policy and Procedure. Major Adviser: Prof. R. K. Gaumnitz.

Jerry William Elwood, Kalispell, Mont.

B.S. '63, Montana State University. Major: Fisheries and Wildlife. Minor: Supporting Program. Thesis: Production and Food Consumption Rates in a Stream Brook Trout Population. Major Adviser: Prof. T. F. Waters.

B. Aubrey Fisher, St. Paul

B.S. '59, Northern State Teachers College. Major: Speech, Communication, and Theatre Arts. Minor: Supporting Program. Thesis: Decision Emergence: A Process Model of Verbal Task Behavior for Decision-Making Groups. Major Adviser: Prof. E. G. Bormann.

James Arthur Freeman, Rochester, N.Y.

B.A. '56, Amherst College. Major: English. Minor: Latin. Thesis: The Complexity of Satan in *Paradise Lost*. Major Adviser: Prof. G. W. O'Brien.

Frances Adelia Frost, Lidgerwood, N.D.

B.A. '63, University of North Dakota; M.A. '65, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Derivations and the Action of Functions. Major Adviser: Prof. Jesus Gil de Lamadrid.

Robert Bradbury Fulton, International Falls

B.A. '64, University of Minnesota. Major: Analytical Chemistry. Minor: Inorganic Chemistry. Thesis: A Study of the Chemical and Electrochemical Oxidation of Iodide in  $\text{NaNO}_3\text{-KNO}_3$  Eutectic Melts. Major Adviser: Prof. H. S. Swofford, Jr.

Janiece E. Barre Fusaro, Minneapolis

B.A. '46, M.A. '49, B.S. in L.S. '53, University of Minnesota. Major: German. Minor: Linguistics. Thesis: Hermann Hesse's *Das Glasperlenspiel*: A Study. Major Adviser: Prof. E. F. Menze.

Helmy Kirolos Ghali Ghobrial,  
Sanabu, United Arab Republic

B.S. '59, University of Cairo; M.S. '67, University of Minnesota. Major: Genetics. Minor: Supporting Program. Thesis: Studies of Recombination in Heterozygotes for Single and Multiple Chromosomal Interchanges in Maize (*Zea Mays L.*). Major Adviser: Prof. C. R. Burnham.

Orloue Neander Gisselquist, Minneapolis

B.A. *cum laude* '43, M.A. '56, University of Minnesota. Major: History. Minor: Political Science. Thesis: The French Ambassador, Jean Antoine de Mesmes, Comte d' Avaux and French Diplomacy at the Hague, 1678-1684. Major Adviser: Prof. J. B. Wolf.

John Edward Haaland, Minneapolis

B.A. '57, University of Minnesota. Major: Zoology. Minor: Physical Chemistry. Thesis: Interaction of Ionic Environment and Stress on a Bone Forming System. Major Adviser: Prof. N. T. Spratt, Jr.

James Glen Haidt, Owosso, Mich.

B.S.E. '63, University of Michigan. Major: Control Sciences. Thesis: Representation of Systems Subjected to Stochastic Inputs. Major Adviser: Prof. J. H. Park.

Bezalel Haimson, Minneapolis

B.S. in Eng. '62, University of Witwatersrand; M.S. in M.E. '66, University of Minnesota. Major: Mineral Engineering. Minor: Supporting Program. Thesis: Hydraulic Fracturing in Porous and Nonporous Rock and its Potential for Determining In-Situ Stresses at Great Depth. Major Adviser: Prof. Charles Fairhurst.

Charles Walter Heidenreich, St. Paul

B.S. '41, L.L.B. '43, M.L. '44, University of Minnesota. Major: Political Science. Minor: Law. Thesis: An Analysis of Administrative Authority as Exercised by the National Labor Relations Board. Major Adviser: Prof. H. W. Chase.

Grace Margaret Hendel, Caledonia

B.S. '54, College of St. Teresa; M.S. '62, University of Minnesota. Major: Home Economics. Minor: Supporting Program. Thesis: A Study of Food Behavior of a Selected Elderly Population as Related to Socio-Economics and Psychologic Factors. Major Adviser: Prof. Isabel Noble.

Laurabeth Henderson Hicks, Baton Rouge, La.

B.S. '42, Prairie View Agricultural and Mechanical College. Major: Education. Minor: Educational Psychology. Thesis: An Analysis of Responsibilities and Functions of Counselors in Selected Secondary Schools of Louisiana. Major Adviser: Prof. G. M. A. Mork.

Kent Alfred Holliday, Pueblo, Colo.

B.A. '62, Hamline University; M.A. '64, University of Minnesota. Major: Music. Minor: Philosophy. Thesis: Symphony No. 1 (In Four Movements). Major Adviser: Prof. Paul Fetler.

Audun Hordvik, Aasane, Norway

Sivilingenior '61, Tech University of Norway; M.S. in E.E. '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Investigation of Stimulated Raman Scattering. Major Adviser: Prof. R. J. Collins.

Leigh Waterman Hunt, Jr., Portland, Ore.

B.A. '47, Yale University; M.A. '49, University of Minnesota. Major: Political Science. Minor: History. Thesis: Administrative Procedure Legislation in Minnesota. Major Adviser: Prof. H. W. Chase.

Michael Jarcho, Mahopac, N.Y.

B.A. '64, Queens College. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Rearrangement of 4-Alkoxy and 4-Hydroxy-2, 3-Dihydrophenalenone II Synthesis and Properties of 4,7-Dihydroxyphenalenone. Major Adviser: Prof. C. F. Koelsch.

Wayne Bertrand Jennings, St. Paul

B.S. '58, M.A. '61, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Development of the Self Concept in the Core Program. Major Adviser: Prof. E. M. Birkmaier.

Dale Arden Johnson, Hector

B.A. '59, Mankato State College; M.A. '66, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: A Study of Relationships Between Participation in Decision Making, Job Satisfaction, and Selected Personality Variables of Secondary School Principals. Major Adviser: Prof. D. E. Davis.

Muriel Helen Johnson, Topeka, Kan.  
B.A. '47, University of Kansas; M.S. '56, Cornell University. Major: Anthropology. Minor: Home Economics. Thesis: "Triply-Stigmatized?" Carrie Jones. Major Adviser: Prof. H. B. Sarles.

Howard Albert Jongedyk, Cleveland Heights, Ohio

B.S. '47, M.S. '48, University of Illinois; M.S. '58, University of Minnesota. Major: Civil Engineering. Minor: Soil Science. Thesis: Some Relations of Electrokinetic Phenomena to the Hydraulic and Electroosmotic Permeability of Uniform Sands. Major Adviser: Prof. Edward Silberman.

Edwin Gary Joselyn, Crystal

B.S. '51, University of Nebraska; M.A. '57, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Relationship of Selected Variables to the Stability of Measured Vocational Interests of High School Seniors. Major Advisers: Prof. J. C. Merwin and Prof. D. P. Campbell.

Jan Joseph Laskowski, Jamaica, N.Y.

B.S. '63, Polytechnic Institute of Brooklyn. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Spray Quenching. Major Adviser: Prof. W. E. Ranz.

Robert Jordan Lazar, Chicago, Ill.

B.A. '62, Northern Illinois University; M.A. '64, Indiana University. Major: Sociology. Minor: Supporting Program. Thesis: From Ethnic Minority to Socio-Economic Elite: A Study of the Jewish Community of Fargo, N.D. Major Adviser: Prof. D. A. Martindale.

David George Levitt, Minneapolis

B.S. '66, University of Minnesota. Major: Physiology. Minor: Physics. Thesis: The Contribution of Diffusion, Convection and Active Transport to the Absorption and Secretion of Carbohydrates in the Dog Intestine in Vivo. Major Adviser: Prof. Nathan Lifson.

Edith Drobisevskis Leyasmeyer, Cleveland, Ohio

B.A. cum laude '58, Baldwin-Wallace College. Major: Hospital Administration. Minor: Supporting Program. Thesis: A Study of Management Training and an Examination of the Supervisor Development Programs Sponsored Through the University of Minnesota, Office of Continuing Hospital Education. Major Adviser: Prof. V. E. Weckwerth.

Charles John Libera, Grand Forks, N.D.

B.S.S. '51, St. Mary's College; M.A. '58, University of Minnesota. Major: Political Science. Minor: Economics. Thesis: An Investigation of the Determinants of Municipal Expenditures in the United States. Major Adviser: Prof. H. W. Chase.

Alfred Thorpe Loeffler, Jr., Riverside, Calif.

B.A. '54, Yale University; B.Music '56, M.Music '57, Yale School of Music. Major: Music. Minor: Art History. Thesis: Symphony in A. Major Adviser: Prof. Paul Fetler.

Nicholas Kinsey Long, Cuyahoga Falls, Ohio

B.A. '61, Kenyon College; M.A. '63, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: An Investigation of the Item Structure of Seven Marks-Seeman MMPI Code Types. Major Adviser: Prof. S. R. Hathaway.

Norris Alden Magnuson, St. Paul

B.A. with honors '54, Bethel College; M.A. '61, University of Minnesota. Major: History. Minor: Library Science. Thesis: Salvation in the Slums: Evangelical Social Welfare Work, 1865-1920. Major Adviser: Prof. T. L. Smith.

Thomas Clifford May, Minneapolis

B. of Physics with distinction '59, M.S. '61, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Search for Gamma Ray Emission from Supernova Remnants and Its Relation to the Origin of Cosmic Rays. Major Adviser: Prof. C. J. Waddington.

James Andrew McMartin, Washington, D.C.

B.S. '61, Fordham University; M.A. '64, Brooklyn College. Major: Psychology. Minor: Educational Psychology. Thesis: Behavioral and Attitudinal Effects of Frequency and Magnitude of Noncontingent Positive Reinforcement. Major Adviser: Prof. Norman Miller.

George Benz Millard, St. Paul

B.A. '52, Brown University; M.B.A. '54, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: The Influence of the Informal Structure on the Management Process in a Small Manufacturing Firm. Major Adviser: Prof. A. K. Wickesberg.

Joan Margaret Mooney, Minneapolis  
B.A. *cum laude* '49, University of Minnesota.  
Major: American Studies. Thesis: The American Detective Story: A Study in Popular Fiction.  
Major Adviser: Prof. M. C. Turpie.

Glenn Delton Moore, Brooklyn Center

B.S. '50, M.S. '51, University of Wisconsin.  
Major: Entomology. Minor: Plant Genetics.  
Thesis: Evaluation of Feeding Injury to Alfalfa by the Potato Leafhopper, *Empoasca fabae* (Harris). Major Adviser: Prof. A. G. Peterson.

Roger C. Mueller, Arlington

B.A. '57, Macalester College; M.A. '65, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: The Orient in American Transcendental Periodicals (1835-1886). Major Adviser: Prof. A. W. Plumstead.

Betty Anne Nesvold, San Diego, Calif.

B.A. with distinction '61, M.A. '64, San Diego State College. Major: Political Science. Minor: Supporting Program. Thesis: Turmoil to Civil War: A Cross-National Analysis. Major Adviser: Prof. W. H. Flanigan.

Ramon Almich Oldenburg, Henderson

B.S. '54, Mankato State College; M.A. '65, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Companionship and Identity as Reflected in Marital Leisure Patterns. Major Adviser: Prof. D. A. Martindale.

James Harry Olsen, Winston-Salem, N.C.

B.S.E.E. '63, North Carolina State College of Agriculture and Engineering. Major: Mathematics. Minor: Supporting Program. Thesis: Dominated Estimates of Lp Contractions,  $1 < p < \infty$ . Major Adviser: Prof. R. V. Chacon.

Kenneth Wayne Oosting, Muskegon, Mich.

B.A.Ed. '59, University of Michigan; M.A. '63, Central Michigan University. Major: Education. Minor: History. Thesis: Dimensions of Preferred Faculty Environment in Public Junior Colleges. Major Adviser: Prof. V. D. Mueller.

Jack Patnode, St. Paul

B.A. '42, Macalester College; M.A. '47, University of Minnesota. Major: English. Minor: History. Thesis: English and American Literary Relations in the 1890's: The Cosmopolitan Impressionists. Major Adviser: Prof. J. C. Levenson.

Douglas Robert Picht, Oak Park, Ill.  
B.S. '50, University of Illinois; M.A. '59, University of Minnesota. Major: American Studies. Thesis: The American Farmer: An Inter-disciplinary Examination of an Image. Major Adviser: Prof. C. A. Chambers.

Manfred Albert Poitzsch, Neukirchen, Germany

Assessor '61, Senator F. Volksbildung, Berlin. Major: German. Minor: French. Thesis: Contemporary Persiflages on C. M. Wieland and His Writings. Major Adviser: Prof. Herman Ramras.

Leonard George Rosner, Cleveland

B.S. '62, M.S. in E.E. '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Measurement of Current Distributions in Thin Film Superconductors. Major Adviser: Prof. D. E. Anderson.

Robert Sween Rudder, Long Beach, Calif.

B.A. '59, University of Redlands; M.A. '64, University of Minnesota. Major: Spanish. Minor: English. Thesis: Will and Humility in Santa Teresa de Jesus. Major Adviser: Prof. P. A. Serrano.

Charles Joseph Russell, Jr., St. Paul

B.A. '60, University of Minnesota. Major: Zoology. Minor: Biostatistics. Thesis: The Initial Pulse of the Response in the Lateral Eye of *Limulus*. Major Adviser: Prof. R. M. Benolken.

Robert Joseph Savard, Rockville, Md.

B.A. *summa cum laude* '46, St. Thomas College; M.A. '52, University of Minnesota. Major: Social Work. Minor: Public Health. Thesis: Cultural Stress and Alcoholism: A Study of Their Relationship Among Navajo Alcoholic Men. Major Adviser: Prof. L. N. Scott.

Dennis Lee Schweitzer, St. Paul

B.S. '61, Pennsylvania State University; M.S. '63, University of Minnesota. Major: Forestry. Minor: Agricultural Economics. Thesis: Evaluating Timber Production Investments Under Uncertainty. Major Adviser: Prof. R. A. Skok.

Darroll Dean Skilling, Alma, Mich.

B.S.F. '53, M.F. '54, University of Michigan. Major: Plant Pathology. Minor: Forestry. Thesis: The Biology of Scleroderris Canker in the Lake States. Major Adviser: Prof. D. W. French.

**Robert Skloot, Brooklyn, N.Y.**

B.A. '63, Union College; M.A. '65, Cornell University. Major: Speech, Communication, and Theatre Arts. Minor: Supporting Program. Thesis: The Uses of Time in Modern Drama. Major Adviser: Prof. A. H. Ballet.

**Thomas Robert Stein, Joliet, Ill.**

B.S. '64, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: Augmented Diffusion of Oxygen. Major Adviser: Prof. K. H. Keller.

**Claude Edwin Stipe, St. Paul**

B.A. '52, Wheaton College; M.A. '55, University of California. Major: Anthropology. Minor: Supporting Program. Thesis: Eastern Dakota Acculturation: The Role of Agents of Culture Change. Major Adviser: Prof. O. E. Johnson.

**Judith Gold Stitzel, Morgantown,  
W.Va.**

B.A. '61, Barnard College; M.A. '62, University of Wisconsin. Major: English. Minor: Art. Thesis: Comedy and the Serious Moralists: The Concept of Good Nature in the Novels of Henry Fielding. Major Adviser: Prof. R. E. Moore.

**Kenneth V. Suslak, New York, N.Y.**

B.S. '63, City College of New York. Major: Psychology. Minor: Child Psychology. Thesis: Diagnostic Insight: The Relationship Between Patient Self-Ratings on Major Psychiatric Dimensions, Ratings Based on Observation, and Ratings Based on the MMPI. Major Adviser: Prof. R. D. Wirt.

**Robert Edward Tembeck, Cairo,  
Egypt**

B.A. '61, American University at Cairo; M.S. '63, South Dakota State University. Major: Speech, Communication, and Theatre Arts. Minor: French. Thesis: Antonin Artaud and the Theatre of Cruelty. Major Adviser: Prof. J. D. Hurrell.

**Marvin Edward Trautwein, Brooklyn  
Center**

M.A. '40, Columbia University. Major: Educational Psychology. Minor: Education. Thesis: The Role of a General Psychology Course in Improving Reading and Study Behavior of College Freshmen. Major Adviser: Prof. C. J. Hoyt.

**Milford Selner Tysseland, Edina**

B.A. '34, Concordia College; M.B.A. with highest honors '60, Fairleigh Dickinson College. Major: Business Administration. Minors: Economics and Geography. Thesis: Common Stock Rates of Return to Investors—Inter-Intra-Industry Profiles. Major Adviser: Prof. H. W. Stevenson.

**Donald Vesley, Minneapolis**

B.S. '55, Cornell University; M.S. '58, University of Minnesota. Major: Environmental Health. Minor: Supporting Program. Thesis: Some Aspects of Microbiological Evaluation of Aseptic Procedures. Major Adviser: Prof. R. G. Bond.

**Ove Douglas Wangensteen, Minne-  
apolis**

B.S. with distinction '64, University of Minnesota. Major: Physiology. Minor: Supporting Program. Thesis: Solute Transport Across the Alveolar-Capillary Barrier of the Rabbit Lung. Major Adviser: Prof. J. A. Johnson.

**Wolfgang Rudolf Wawersik, Reck-  
linghausen, Germany**

M.S. in Mineral Eng. '63, University of Minnesota. Major: Mineral Engineering. Minor: Supporting Program. Thesis: Detailed Analysis of Rock Failure in Laboratory Compression Tests. Major Adviser: Prof. Charles Fairhurst.

**Richard Alan Weinberg, Chicago, Ill.**

B.S. '64, University of Wisconsin. Major: Educational Psychology. Minor: Child Psychology. Thesis: The Effects of Different Types of Reinforcement in Training a Reflective Conceptual Tempo. Major Adviser: Prof. M. D. Hall.

**George Alexander Whitmore,  
Neepawa, Manitoba, Canada**

B.S. '64, University of Manitoba; M.S. '66, University of Minnesota. Major: Business Administration. Minors: Mathematics and Economics. Thesis: Financial Decision-Making (A Mathematical Model). Major Adviser: Prof. R. E. Willis.

**David Scofield Wilson, Minneapolis**

B.S. '57, M.A. '62, University of Minnesota. Major: American Studies. Thesis: The Streaks of the Tulip: The Literary Aspects of Eighteenth-Century American Natural Philosophy. Major Adviser: Prof. M. C. Turpie.

William Gerald Wyatt, Ft. Worth,  
Tex.

B.S.M.E. '63, Arlington State College; M.S. in M.E. '66, University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Determination of Thermal Diffusion Factors in Binary Gas Systems. Major Advisers: Prof. W. E. Ibele and Prof. E. R. G. Eckert.

Mathew Zachariah, Trivandrum  
Kerala State, India

B.A. '52, University of Madras; M.A. '65, University of Kerala, India; M.A. '67, University of Minnesota. Major: Sociology. Minors: Education and Anthropology. Thesis: Whither Kerala? Social Change in Twentieth Century Kerala. Major Adviser: Prof. D. A. Martindale.

Candido P. Zanoni, Fridley

B.A. '50, George Washington University; M.A. '58, University of Minnesota. Major: Philosophy. Minor: English. Thesis: Logical Pragmatism: The Philosophy of G. Vailati. Major Adviser: Prof. D. B. Terrell.



# Academic Costume

On appropriate occasions, anyone with a college or university degree may wear academic costume consisting of a gown, a hood, and a cap. By observing the kind of academic costume a person wears, it is possible to know the name of the University from which he graduated, as well as the degree which he holds, and, in some cases, the field of his major interest as well.

The long pointed sleeve of the gown indicates a bachelor's degree, the long closed sleeve with a slit for the arm indicates a master's degree, and the open sleeve marks a doctor's degree. Bachelors' and masters' gowns are black in color and are without any trimming. Generally, the doctor's gown is also black, but some universities, particularly those abroad, prescribe such festive colors as red, crimson, or green. All doctors' gowns have velvet trimming on the front facings and crossbars on the sleeves. This trimming may be black, or it may match the color of the edging of the hood and thus identify the profession or field of major interest of the wearer.

At a commencement it is quite proper to wear the gown — but not the hood — appropriate for the degree which is to be received. The only hoods worn at commencements are for degrees which have already been received. Thus only those students and faculty members who have already received college or university degrees wear hoods. Anyone who has a degree from the University of Minnesota may wear a hood decorated with a maroon chevron on gold background. The length and shape of the hood indicate whether the wearer has earned a bachelor's, a master's, or a doctor's degree. The velvet edging on the hood indicates the field in which the degree was granted. For example, dark blue signifies Philosophy; light blue, Education; green, Medicine; lilac, Dentistry; orange, Engineering; russet, Forestry; drab, Business; olive green, Pharmacy; purple, Law; gray, Veterinary Medicine; golden yellow, Science; and white, Arts and Letters.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidates are honor students.

Caps, generally mortarboards with tassels, have significance, too. The doctor's tassel may be black or gold. Masters' and bachelors' tassels are black; but at University of Minnesota commencements — upon the authority of the University Senate Committee on Functions — candidates for the bachelors' and associates' degrees wear tassels which indicate their schools or colleges by color as follows:

(In the order of march)

General College .....	crimson and white
College of Liberal Arts .....	white
University College .....	old gold and white
Institute of Technology .....	orange
College of Agriculture, Forestry, and Home Economics .....	maize

School of Business Administration .....	drab
College of Education .....	light blue
College of Pharmacy .....	olive
College of Medical Sciences .....	green
Graduate School .....	black

But once the bachelor's degree has been received and the commencement is over, the graduate, should he wear academic costume again, will wear only the black tassel as does the holder of the master's degree. Similarly, he will not in the future wear the shoulder insignia as a part of his academic dress even if he is an honor graduate. All graduates of the University should remember that the academic dress at this University conforms to the rules of the Inter-collegiate Bureau of Academic Costume. This means that the Minnesota academic costume may be easily secured anywhere in the world. And it is always worn proudly and with distinction — for ours is a great University.

# *President's Reception*

**JULY, 1968**

- The members of the graduating class and their families and friends are invited to attend the President's Reception immediately after the commencement exercises. The Reception will be held on the Mall in front of Northrop Memorial Auditorium. In case of rain, the Mann Court of the Architecture Building will be used. Refreshments will be served.
- Those in the receiving line will be Vice-President and Mrs. Smith; Mayor and Mrs. Naftalin; Dean and Mrs. Thompson; Mr. Heimbach; Mr. Joseph Kroll, President of the Minnesota Student Association; and Mr. Mark Ellis, President of the Union Board of Governors.
- During the Reception, Mr. Cermak will play a Carillon Concert.
- Assisting in the Reception are students and staff members, including those from the Senate Committee on University Functions, the Army ROTC, Gamma Sigma Sigma Social Service Sorority, and the Department of University Relations.

UNIVERSITY OF MINNESOTA

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UNIVERSITY OF MINNESOTA

*August Commencement, 1968*

FRIDAY AFTERNOON, AUGUST 23, 4:00 P.M.

NORTHROP MEMORIAL AUDITORIUM

# *The Board of Regents*

The Honorable Lester A. Malkerson, Minneapolis

Chairman

The Honorable Marjorie J. Howard (Mrs. C. Edward), Excelsior

Vice Chairman

The Honorable Elmer L. Andersen, St. Paul

The Honorable Daniel C. Gainey, Owatonna

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Herb L. Huffington, M.D., Waterville

The Honorable Fred J. Hughes, St. Cloud

The Honorable Charles W. Mayo, M.D., Rochester\*

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhorst, Olivia

The Honorable Otto A. Silha, Edina

The Honorable Herman F. Skyberg, Fisher

Dr. Malcolm Moos, President

Dr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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\* The entire University community was saddened by the untimely death of Regent Mayo, July 28, 1968. The University has lost one of the most perceptual of its leaders. Regent Mayo was elected in 1951 as an at-large member of the Board of Regents. He became chairman in 1961 and remained in this position until 1967. The University will long remember and praise The Honorable Charles W. Mayo, M.D., Rochester.

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SMOKING AND USE OF CAMERAS AND RECORDERS — It is requested, by action of the Board of Regents, that in Northrop Memorial Auditorium smoking be confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms. The use of cameras or tape recorders in the auditorium by members of the audience is prohibited.

# *This Is Your University*

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and seventeenth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen — to name only some of the careers for which preparation is offered. Since its founding, the University has awarded more than 205,500 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to nearly 46,000 students annually on its Twin Cities, Duluth, Morris, Crookston, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H Club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

In the diversified research laboratories on the University's five campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the University of Minnesota Horticultural Research Center and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

THE UNIVERSITY is acknowledged to be the cultural hub of the Northwest. It is the home of the University Artists Course, Radio Station KUOM, the University of Minnesota Television Hour, the University Theatre, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings renowned artists and lecturers to more than a million and a half persons living in the area it serves.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. Through the American Legion and its auxiliary posts all

over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the bio-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

To enlarge the base of private support for the University, the University of Minnesota Foundation was established in 1962 as a nonprofit organization, independent of the University but with the University as its sole beneficiary. The Foundation gives alumni, other citizens, and corporate donors the opportunity to make gifts, bequests, grants, and other forms of tax-deductible voluntary contributions. These funds supplement tax support and make possible the enriched programs and expanded services which create a "margin of excellence" for the University. Direction and resources of the Foundation are under the management of a Board of Trustees of concerned and dedicated citizens.

As it meets the needs of present students, the University must also make plans for those of the future. The 46,088 students who enrolled at the University at the beginning of the 1967-1968 academic year represented nearly one half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits. In the fall of 1965, for the first time in its history, the University instituted an admissions policy based on controlled growth of total enrollment. This change in admissions requirements held the 1967-1968 enrollment to about 46,000 students. It reflects the University's need for more teachers, more land, and more buildings. And it makes plain the University's determination to maintain the educational quality that has made it one of America's leading educational institutions.

THE 1967 LEGISLATURE granted the University \$110,893,275 for general operations and maintenance during the 1967-1969 biennium. In addition, the University received \$9,401,100 for University Hospitals; \$9,883,460 for special appropriations, including special extension and research activities; \$22,739,346 for new buildings, land, and the rehabilitation of existing buildings; and \$955,000 for the University of Minnesota Technical Institute, Crookston.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request, as is a much more comprehensive and complete statement for those who wish to make a special study of the University's income and expenditures.

The summary financial statement of 1966-1967 showed that the University's current income and expenditures amounted to \$69,292,131.98. Of the total received, \$16,389,611.68 came from student tuition and fees; \$25,313,080.86 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts and the sale of bulletins and agricultural products; \$1,575,346.90 from inter-

collegiate athletics; \$24,117,422.96 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$9,107,000.99 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$40,897,023.16 came from the federal government for instruction, research, and agricultural extension. The state provided \$51,892,645.43 or 30.1 percent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings amounted to \$21,607,236.

COMMENCEMENT marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund, administered in the Alumni Office in Coffman Memorial Union, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds, administered by the Department of University Relations, Morrill Hall.

Alumni, their families, and their friends are always welcome here. The University hopes they will return frequently to visit the campus and to renew cherished ties.



# Order of Events

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Minneapolis Campus of the University this afternoon from 3:15 to 3:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. William Cermak, Jr., University Carillonneur. Admission to the August Commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

**PRELUDE CONCERT:** From 3:30 to 4:00 p.m. Professor Heinrich R. Fleischer, University Organist, will play an organ concert.

**PROCESSION:** The audience is requested to remain seated so that all can see the procession. At 4:00 p.m., Professor Clarke A. Chambers, Director of the Social Welfare History Archives, Faculty Marshal, will carry the Mace into the Auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Chambers, as Mace-Bearer, will present the Mace at the center of the stage. When all those marching have taken their seats, he will put the Mace into its cradle to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

*Festival March* ..... Gluck

**ON THE STAGE:** The curtain will be open when the Mace-Bearer enters. Seated in the first row, from left to right, are Marshal Chambers; Professor David K. Berninghausen, M.A., Director of the Library School; Assistant to the Recorder Charles F. Liesenfelt, Admissions and Records; The Reverend Douglas S. Pitts, Director, University Episcopal Center; Captain Walter T. Boughton II, U.S.N.; Colonel William D. Beard, U.S.A., Professor of Military Science; Assistant Dean Keith N. McFarland, Ph.D., College of Agriculture, Forestry, and Home Economics; Associate Dean George Sltzer, Ph.D., Business Administration; Associate Dean John G. Turnbull, Ph.D., College of Liberal Arts; The Honorable Herb L. Huffington, M.D., Regent of the University of Minnesota; Vice-President Paul H. Cashman, Ph.D.; Regents' Professor of Surgery Emeritus Owen H. Wangensteen, Commencement Speaker; Vice-President William G. Shepherd, Ph.D.; Dean Willard L. Thompson, Ph.D., Summer Session; The Honorable George W. Rauenhorst, Regent of the University of Minnesota; Dean Alfred L. Vaughan, Ph.D., General College; Assistant Dean Millard L. Gieske, Ph.D., Graduate School; Mr. Kenneth Glaser, B.B.A., President of the Minnesota Alumni Association; Dean Robert B. Howard, M.D., College of Medical Sciences; Associate Dean Richard A. Swalin, Ph.D., Institute of Technology; Dean Robert J. Keller, Ph.D., College of Education; Captain David J. Martinson, U.S.A., Assistant Professor of Aerospace Studies; Professor Roy A. Schuessler, M.M., Chairman, Department of

Music; Professor James R. Jensen, M.S., School of Dentistry, Marshal; and Professor John C. Kidneigh, M.A., Director, School of Social Work, Marshal.

**PRESENTATION OF COLORS:** As the color guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, enters the Auditorium, the audience will rise and will remain standing for the National Anthem and for the Invocation. Professor Fleischer will play.

**THE NATIONAL ANTHEM:** The entire audience and Professor Schuessler.

O, say! can you see, by the dawn's early light,  
What so proudly we hail'd at the twilight's last gleaming,  
Whose broad stripes and bright stars, thro' the perilous fight,  
O'er the ramparts we watch'd were so gallantly streaming?  
And the rockets' red glare, the bombs bursting in air,  
Gave proof thro' the night that our flag was still there.  
O, say, does that star-spangled banner yet wave  
O'er the land of the free and the home of the brave?

**INVOCATION:** Father Pitts.

**SPEAKING FOR THE UNIVERSITY:** Vice-President Shepherd.

**COMMENCEMENT ADDRESS:** Dr. Wangenstein.

**CONFERRING OF ROTC CERTIFICATES:** Vice-President Cashman will introduce Colonel Beard, Captain Broughton II, and Captain Martinson, who will present the candidates for commissions in their respective services. Certificates of ROTC completion will be presented by Vice-President Shepherd.

**PRESENTATION OF CANDIDATES:** Vice-President Cashman will introduce the deans of the several colleges or their representatives who will present to Vice-President Shepherd the candidates for certificates and degrees. They are, in order of their introduction, Dean Alfred L. Vaughan, Ph.D., General College; Associate Dean John G. Turnbull, Ph.D., College of Liberal Arts; Dean Alfred L. Vaughan, Ph.D., University College; Associate Dean Richard A. Swalin, Ph.D., Institute of Technology; Assistant Dean Keith N. McFarland, Ph.D., Institute of Agriculture; Dean Robert J. Keller, Ph.D., College of Education; Associate Dean George Seltzer, Ph.D., School of Business Administration; Dean Robert B. Howard, M.D., College of Medical Sciences; and Assistant Dean Millard L. Gieske, Ph.D., Graduate School.

**CONFERRING OF DEGREES:** Vice-President Shepherd will confer certificates and degrees upon the members of this graduating class.

**SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION:** Mr. Glaser.

**PRESENTATION OF DIPLOMAS:** With Dean Thompson presiding, members of the August graduating class will pass across the stage to receive their diplomas.

**CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY:** Vice-President Shepherd will confer the degrees upon the candidates. As each new Doctor of Philosophy is invested with his academic hood, he will be presented individually by Assistant Dean Gieske.

**HAIL! MINNESOTA:** The University's Alma Mater song, sung by the audience and Professor Schuessler.

Minnesota, hail to thee!	Like the stream that bends to sea,
Hail to thee, our college dear!	Like the pine that seeks the blue,
Thy light shall ever be	Minnesota, still for thee
A beacon bright and clear;	Thy sons are strong and true;
Thy sons and daughters true	From thy woods and waters fair,
Will proclaim thee near and far;	From thy prairies waving far,
They will guard thy fame	At thy call they throng
And adore thy name;	With their shout and song,
Thou shalt be their Northern Star.	Hailing thee their Northern Star.

**RECESSIONAL:** Professor Fleischer.

**THE AUDIENCE** is requested to remain seated until those in academic costume have left the Auditorium.

(Immediately following these exercises, all members of the audience are invited to attend the President's Reception, which is described on the back cover of this program.)

# *Candidates for Commissions*

Subject to the completion of all curriculum requirements at the close of the second term of the Summer Session, commissions will be presented to those listed below and to such others as may meet the requirements for the Reserve Officers in the Armed Services.

## **DEPARTMENT OF MILITARY SCIENCE**

### **Second Lieutenant, Armor**

Raymond B. Harris, Sioux Falls, S.D.

### **Second Lieutenant, Artillery**

John E. Byrne, Jr., St. Paul

### **Second Lieutenant, Infantry**

Charles M. Balck, Minneapolis

Dennis H. Schmidt, Minneapolis

### **Second Lieutenant, Signal Corps**

Glenn P. Vikan, Richfield

## **DEPARTMENT OF NAVAL SCIENCE**

### **Ensign, USNR**

Thomas P. Traughber, Minneapolis

## **DEPARTMENT OF AEROSPACE STUDIES**

### **Second Lieutenant, USAF Reserve**

James R. Anderson, St. Paul

Rolf D. Anderson, Minneapolis

Dennis M. Coakley, Minneapolis

Donald W. Laukka, St. Paul

Pat Allen H. Shortell, Minneapolis

Alvin S. Swanson, Minneapolis

# *Candidates for Graduation*

Subject to the completion of all curriculum requirements at the close of the second term of the Summer Session, degrees will be conferred as indicated on those listed below and upon such others as may meet the graduation requirements.

## **GENERAL EXTENSION DIVISION**

### **Associate in Mortuary Science**

Robert Eric Hamilton, Omaha, Neb.

## **GENERAL COLLEGE**

### **Associate in Arts**

Richard James Amey, St. Paul  
Stephen John Born, Minneapolis  
Julie Ann Brumback, Minneapolis  
Caroline Jane Brunson, Minneapolis  
William James Campbell, Jr., Minneapolis  
Virginia Arlys Clausen, Minneapolis  
Mary Michelle Danielson, St. Paul  
Bruce Alan Doughman, Minneapolis  
Frederick Lee Elkin, St. Paul  
Patricia Ann Gerhard, Minneapolis  
Yvonne Louise Gorney, Minneapolis  
Thomas M. Holland, St. Louis Park  
Thomas Donald Hughes, Coon Rapids  
Laura Harriet Hultgren, St. Paul  
Donald Milton Johnson, St. Paul  
Michael Douglas Kern, Long Lake  
Dallas Orlando Kiehmeyer, Minneapolis  
Kenneth Donald Lange, Minneapolis

Thomas Joseph Larson, Bloomington  
Suanne Levine, St. Paul  
James Edward Lindberg, Minneapolis  
Richard Lynn Longworth, St. Paul  
Paul Leroy Luxem III, Minneapolis  
Richard Thomas MacKrell, St. Louis Park  
Kristine Irene Max, Minneapolis  
David Anthony Meyer, Chanhassen  
William Allen Mickelsen, Minneapolis  
Rex Garrett Peterson, Minneapolis  
John Michael Priestley, Minneapolis  
James Ridley Sharpless, Wayzata  
Curtis Gene Urbanski, St. Paul  
William Alan Westerdahl, St. Louis Park  
Jay Carter Wilson, North St. Paul  
Katherine Jean Worms, New Munich  
Leonard Charles Young, Minneapolis

# COLLEGE OF LIBERAL ARTS

## Associate in Liberal Arts

Patricia Rae Gaustad Engesath, St. Paul  
William Jay Golfus, Funk, Neb.

Timothy Dennis Kehr, St. Paul  
Ralph Joseph Ludden, St. Paul  
Randall Allan Pratt, St. Paul

## Bachelor of Arts

*Honors citations are provisional and will not become final until all requirements are met for the level indicated*

John William Albers, St. Cloud  
Kathleen Anderson, Hibbing  
Michael Wesley Anderson, St. Paul  
Paul Harvey Anderson, Aitkin  
Richard Lawrence Anderson, Minneapolis  
Richard Dennis Antone, Minneapolis  
Margaret Jayne Arms, White Bear  
Jo Ellen Averbook, Duluth  
Karen Marie Larson Baker, Moorhead  
William Anthony Bank, Minneapolis  
Patrick William Barnacle, Minneapolis  
Patricia Ann Barrett, North St. Paul,  
SUMMA CUM LAUDE, *Child Psychology*  
Kenneth David Bearman, Minneapolis,  
MAGNA CUM LAUDE, *Philosophy*  
Mary Theresa Benson, Minneapolis  
Carolyn Christine Berg, Minneapolis  
Einar Bergh, Oslo, Norway  
Robert George Bestler, Owatonna  
Gary Berton Bethke, Gibbon  
Diane Elizabeth Beyer, Minneapolis  
Robert Ralph Biehler, St. Paul  
Mary Ellen Bird, Minneapolis  
Leland Robert Bjorklund, Minneapolis  
Nancy Dayle Bloomstrom, Crosby  
Larry Mark Blumberg, Des Moines,  
Iowa  
Jeffrey Miles Blustein, Minneapolis,  
SUMMA CUM LAUDE, *Philosophy*  
Bohdan Boczan, Minneapolis, SUMMA  
CUM LAUDE, *German*  
Bernard Edward Boland, Minneapolis  
Marsha Jerene Bolles, Edina  
Craig Roger Borck, St. Cloud  
Keith Alan Bottge, Willmar

David Patrick Bowers, Lake City  
Peter Larson Bowman, Kailua, Hawaii  
Howard Truman Bozich, Minneapolis  
Charles John Brady, St. Paul  
Jane Ann Brodie, St. Paul  
Jean Marie Ellingson Broom, Minneapolis, SUMMA CUM LAUDE, *Sociology*  
Robert L. Broom, Minneapolis  
Barbara Nicolette Brown, Minneapolis  
William Everett Burwell, Minneapolis  
John Patrick Callinan, St. Paul  
Brian Theodore Carley, Minneapolis  
Susan Ellene Christoffersen, Minneapolis  
Nicholas Joseph Edmund Anthony Cieminski, Winona  
Gretchen Mary Muehlberg Clark, Minneapolis  
Barbara Jeanne Clausen, St. Louis Park  
John Wilbert Creighton, Jr., Richfield  
Carol Ann Curtis, Redwood Falls  
Alice Mae Smith Dahl, St. Paul  
Mary Lisbeth Benson Dahl, Minneapolis  
Cassandra Lee Fritscher Damsgaard, St. Paul  
Angele Marie DellaSelva, Minneapolis  
Frank Michael Frederick Denner, Minneapolis  
Keith Ireland Donaldson, Hopkins  
Michael Andrew DuMond, A.A., Austin

Susan Ruth Wallin Dykoski, Minneapolis  
 Larry Mark Edmonson, Richfield  
 Mary Johanna Eisinger, Deerfield, Ill.  
 Jeanne Mazie Englund, Mound  
 Leslie Ann Sonnenklar Erickson, Rochester  
 Rodney Allen Erickson, Wells  
 Roberta Sue Fawbush, Minneapolis  
 Randall Earl Fellman, Pipestone, CUM LAUDE, *English*  
 Jacquelyne Jean Fergal, Minneapolis  
 Terence David Florin, Richfield  
 William Douglas Fontaine, Minneapolis  
 Ann Friedley, Minneapolis  
 Elizabeth Anne Fuller, St. Paul  
 David Gladen, Cloquet  
 Dennis Allan Goldberg, Minneapolis  
 Gay Elizabeth Gould, St. Paul Park  
 Carol Stern Gowett, Minneapolis  
 Robert Roy Grausnick, Winona  
 Karen Lee Green, St. Paul  
 Thomas Berton Greenslit, Morton  
 Barbara Ann Gross, Minneapolis  
 Wendall Keith Hagen, Minneapolis  
 Ann Marie Hammer, Wabasha  
 Margaret Ethel Hansen, Minneapolis  
 Timothy John Harrington, Minneapolis  
 Jay Daniel Harris, Kasson  
 Raymond Benedict Harris, Sioux Falls, S.D.  
 Mark Peter Haschka, Minneapolis  
 Carole Lynne Hawkins, St. Peter  
 Mary Frances Hayes, St. Paul  
 Paul Gerhard Hegland, Minneapolis  
 Samuel David Heins, Urbana, Ill.  
 Laurel Jean Harholdt Hesley, Mahtomedi  
 Thomas Clair Heuerman, St. Cloud  
 Gregg Eugene Hickey, St. Louis Park  
 Richard Edward Hinkie, St. Louis Park  
 Harold David Hoban, Minneapolis  
 Marie Ann Lindberg Hoffman, Minneapolis  
 Karen Ann Hohag, Waverly  
 Margaret Mary Hoover, St. Paul  
 Allan Nels Hopen, Minneapolis  
 Marilyn Napier Horton, Jamestown, N.D.  
 Clayton Ronald Houff, Austin  
 Craig Eddie Howerter, Granada  
 Melinda Alene Coats Hurd, Rochester  
 Michael George Hurley, A.A., Minneapolis  
 John Paul Hutchinson, Rochester  
 Robert Childs Jackson, Minneapolis  
 Carol Lee Christian James, Northfield  
 Linda John, Minneapolis  
 Diane Marie Johnson, Proctor  
 Francic Ellen Johnson, Minneapolis  
 Wendy Lynne Johnston, Wayzata  
 Patricia Jean Juliani, A.A., Chisholm  
 Loren Heather Balcom Kairies, Edina  
 Stephen Edward Kairies, Minneapolis, CUM LAUDE, *Humanities*  
 Walter Kallen, Minneapolis  
 Michael Katz, New York, N.Y.  
 Daniel Delmar Kehrberg, St. Paul  
 Michael Cashman Kelly, St. Paul  
 Richard Edward Kesteven, Minneapolis  
 Laurie Jane Kindseth, Minneapolis  
 Patricia Lynn Nielsen King, Edina  
 Shirley Mae Klug, St. Paul  
 Michael Louis Kluznik, St. Paul  
 Thomas Alan Kondla, Brookfield, Ill.  
 Sandra Kay Koppe, Fergus Falls  
 Nadia Korsun, Minneapolis  
 Robert John Kotten, A.A., Regal  
 Gale Mark Kottke, Glencoe  
 Steven Larry Krasner, Minneapolis  
 Ronald Julius Krepela, Minneapolis  
 Michael Steven Krumm, Minneapolis  
 Andrea Johanna Labbe, A.A., Minneapolis  
 Robert Joseph LaBine, Argyle  
 Nicholas Lambesis, Minneapolis  
 Richard Henry Lange, St. Paul  
 Diana Kaye Larsen, St. Cloud  
 Robert Michael Larsen, Minneapolis, MAGNA CUM LAUDE, *Economics*  
 Nancy Helen Larson, Mankato  
 Sonia Camille Larson, Minneapolis  
 Marilyn Lauglo, Minneapolis  
 Donald William Laukka, St. Paul  
 Danny Richard Laun, Sandstone  
 Cathy Ann Lickteig, Albert Lea  
 Janet Marie Lilja, Bloomington  
 Dwight Alan Lindberg, Edina

David Paul Lindgren, A.A., Brooklyn Center  
 William Patrick Linhoff, Jr., St. Paul  
 Bruce Allen Lourey, Minneapolis  
 Judith Ellen Maier, White Bear Lake  
 Valerie Beatrice Manning, Fairmont  
 Kathleen Frances Berens Manteuffel, St. Paul  
 Alice Ruth Marble, Minneapolis  
 David John Martini, Minneapolis, SUMMA CUM LAUDE, German  
 Michael Terry Matthies, La Crescent  
 Virginia Mattson, St. Paul  
 Hugh Cameron McDonald, Minneapolis  
 Abby Sue Miller, Minneapolis, SUMMA CUM LAUDE, Sociology  
 Winston Paul Miller, Red Wing  
 Victoria Margaret Moor, St. Paul  
 Priscilla Morgan, A.A., St. Paul  
 Susan Karen Mosrick, Willmar  
 Mary Anne Winkle, A.A., Rochester  
 Ronald Keith Nachbor, Herman  
 William Simon Nanninga, Minneapolis  
 Dean Frances Nelson, Anoka  
 Ellen Anne Nelson, Wayzata  
 Janice Margaret Nelson, Minneapolis  
 Mary Alice Nelson, Minneapolis  
 Laurie Jean Nevers, Duluth, CUM LAUDE, Economics  
 Karen Diane Newell, St. Paul  
 Donna Jean Noukki, Minneapolis  
 Patricia Ann Nowak, Wayzata, CUM LAUDE, Humanities  
 Ebele Ofoma, Biafra  
 Esther Chinye Oli, Biafra  
 Andrea Louise Olson, Mason City, Iowa  
 Susan Ostrander Opperman, Minneapolis  
 Thomas Edward C. Orest, Minneapolis  
 David Wallace Ostlund, Anoka  
 William Jay Overmoe, Richfield, CUM LAUDE, Political Science  
 Joan Mary Ozark, Minneapolis, SUMMA CUM LAUDE, English  
 Douglas Alan Palmer, St. Paul  
 Robert Irving Palmer, Jr., Blackduck  
 Charles Lynn Palmgren, Madison

Bradley LeRoy Pannkuk, Bloomington  
 Howard Parmet, St. Louis Park  
 Luba Moroz Parsons, Minneapolis  
 Clifton Merlyn Pederson, Minneapolis  
 Richard John Pellika, Chisholm  
 Daniel Craig Pelo, Grey Eagle  
 Victoria Lee Penman, Wayzata  
 Timothy Paul Peplinski, St. Paul  
 James Edward Peterson, Sebeka  
 Eric Edward Polnaszek, Minneapolis  
 Kristi Jo Prestegaard, Minneapolis  
 Lorraine Veronica Prezalar, Stony Brook, N.Y.  
 Roger William Quant, St. Paul  
 Rodney Albert Ramaker, Richfield  
 Kathryn Helen Reisdorfer, Slayton  
 Michael James Ripley, Minneapolis  
 John Robert Risdall, North Oaks  
 Mary Louise Ince Robinson, Minneapolis  
 Nancy Joanne Trett Rodgers, Battle Lake  
 Virginia Gail Rohwedder, Minneapolis  
 Richard Mark Rose, St. Paul  
 Kenneth Wayne Sandberg, Minneapolis  
 JoAnne Phyllis Schaedler, St. Louis Park  
 Dennis Herbert Schmidt, Minneapolis  
 William Donald Schmidt, St. Cloud  
 Harry John Schmitz III, Minneapolis  
 Arnold Paul Scholl, Minneapolis  
 Karen Elizabeth Schreiner, St. Paul  
 Patricia Elaine Schuster, Owatonna  
 PatAllen Henry Shortell, Minneapolis  
 Edward Floyd Sievers, Farmington  
 Jake M. Simonitsch, Warrensburg, Mo.  
 Diana Eve Smaby, Minneapolis  
 Robert David Sparks, North Oaks  
 William Fred Stanley, Minneapolis  
 Thomas Lee Steffens, Minneapolis, SUMMA CUM LAUDE, History  
 Guy Jeffrey Sternal, Minneapolis  
 Alice Harriman Stockton, St. Paul  
 Myron Harvey Striker, Minneapolis  
 Richard Charles Struck, Minneapolis  
 Alvin Severin Swanson, Minneapolis  
 Roy James Tanner, Mondovi, Wis.  
 Steven John Tanner, Mondovi, Wis.



Sheila Margaret Terry, Minneapolis	Bert Walter, St. Paul
Spero Charles Theros, Minneapolis	Judith Ann Wardwell, St. Paul
Barbara Jean Thompson, Marine on St. Croix, CUM LAUDE, Greek	Mary Katherine Warner, Minneapolis
Thomas Joseph Tilsner, St. Paul	Leslie Gayle Weisman, Minneapolis, MAGNA CUM LAUDE, English
Thomas Patrick Traugher, Minne- apolis	Susan Mae Wells, Aitkin
Philip Stephen Trebnick, Grand Rapids	Thomas Lee Wicklund, St. Paul
Michael George Trend, Detroit, Mich.	Juli Ann Wittenberg, Gibbon
Darrell David Tschakert, Kent	Norman Lee Yackel, Lamberton
Sarah Jane Van Demark, Owatonna	Joyce Lin-Yueh Yu, Minneapolis
Joan Alice Veits, Minneapolis	Robert John Zeimes, Minneapolis
Robert James Vondrasek, Minneapolis	John William Zimmer, East Grand Forks
	William Peter Zuger, Bismarck, N.D.

## UNIVERSITY COLLEGE

### Bachelor of Science

Joseph Carl Finn, Minneapolis

## INSTITUTE OF TECHNOLOGY

### Bachelor of Aeronautical Engineering

Donald Allan Larson, Glenwood	<i>Daniel James Vavrick, St. Louis Park,</i>
Nicholas Andrew Maki, A.A., Virginia	WITH DISTINCTION
Dennis James Marshall, Minneapolis	Robert Jerry Walker, Wisconsin
Jeffrey Arthur Rohlen, Bloomington	Rapids, Wis.

### Bachelor of Chemical Engineering

Michael Robert Cameron, Virginia	Vernon Edward Thelen, Waubun
Michael Everett Drager, Glenwood	Robert Bruce Thorndycraft, Winni- peg, Manitoba, Canada
Gary Nels Lee, St. Paul	

### Bachelor of Chemistry

Donna Mae Bahls, Olivia	John Walter Ressler, Minneapolis
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## Bachelor of Civil Engineering

William Paul DeSanto, Jr., Duluth  
Michael John Jensen, St. Paul  
George Robert Kriha, Montgomery

Daryl Kent Leibel, St. Paul  
Allen Joseph Shetka, St. Paul

## Bachelor of Electrical Engineering

Glen David Conradson, Minneapolis  
Bruce Florian Jastremski, Minneapolis  
James Michael Lunacek, Minneapolis  
Lowell A. O'Grady, Grand Forks,  
N.D.  
Steven Allen Rhude, North St. Paul

Donald Jerome Rounds, Bertha  
John Michael Ryba, Hopkins  
John Robert Sullivan, Minneapolis  
Alan Charles Thomson, Austin  
David Allen Wald, St. Paul  
James Vincent White, St. Paul

## Bachelor of Mathematics

Richard Glen Mustain, Richfield

## Bachelor of Mechanical Engineering

David Lloyd Anderson, Goodhue  
Warren Gary Anderson, Hanska  
David Lyle Bacon, Windom, WITH  
DISTINCTION  
Richard Matthew Biessener, St. Paul  
Mark Andrew Christiansen, Minne-  
apolis  
Jerome Richard Cichosz, Winona  
Frederick Wesley Elias, B.S.B.,  
Rochester  
Ronald Lynn Erickson, Cass Lake  
Ronald Charles Haglund, Minneapolis  
Arnold Wayne Hanger, Duluth, WITH  
DISTINCTION  
William Thibo Harrod, Mahtomedi  
Bernard Eugene Horwath, St. Paul,  
WITH DISTINCTION  
Thomas Charles House, Duluth

James Ching Hsiao, St. Paul  
Thomas Michael Johnson, Bemidji,  
WITH DISTINCTION  
Thomas John Kingston, Bovey  
Harold Bruce Laskin, Duluth  
Raymond Murray Lewis, Roseville  
Douglas Charles Mittag, Gordonsville,  
WITH DISTINCTION  
Keith Dale Nelson, St. Paul  
John Alfred Noer, Minneapolis  
Dennis James Revor, Minneapolis,  
WITH HIGH DISTINCTION  
James Peter Rivard, White Bear Lake  
David Byron Schnack, Elk River  
Darol Paul Westphal, A.A., Austin  
Thomas Michael Witt, Minneapolis  
Roger Alan Young, Richfield

## Bachelor of Physics

David Charles Amundson, Minneapo-  
lis, WITH DISTINCTION  
Robert James Livermore, Plymouth

George Alvin Seetin, Winnebago,  
WITH DISTINCTION  
John Edward Sharp, Minneapolis,  
WITH DISTINCTION

# COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

## Bachelor of Science

Larry Duane Barott, Mapleton, Agriculture	Gary Allen Koenig, Swanville, Agriculture
Ellen Mary Edstrom Benson, Minneapolis, Home Economics	John Andrew Mihm, Ivanhoe, Agriculture
Alison Andrew Bolduc, Minneapolis, Agriculture	Patricia Johnell Morseth, Appleton, Home Economics
Sheila Kay Carlson, Minneapolis, Home Economics	Charles Andrew Priebe, Waseca, Agriculture
Dennis Michael Crowley, Slayton, Agriculture	Ronald Joseph Rosival, Montgomery, Agriculture
Linda Joy Dallman, White Bear Lake, Home Economics	Richard John Schuldt, Clear Lake, Agriculture
Ellen Marie Fridinger, St. Paul, Home Economics, WITH HIGH DISTINCTION	Deborah Lee Smith, Crosby, Home Economics
Janet Ruth Hurly, Billings, Mont., WITH DISTINCTION	Susan Helen Swanson, Montevideo, Home Economics

## COLLEGE OF EDUCATION

### Bachelor of Science

Sheila Marcia Florence Arkin, B.A., Minneapolis	Lyle Vernon Crider, Eagle Bend, WITH DISTINCTION
Susan Alice Banner, Rochester	Sandra Lee Conrath, Cloquet
Michael Robert Bassett, A.A., Robbinsdale	Dennis Claire Davis, St. Paul
Clyde Lewis Birkholz, Two Harbors, WITH DISTINCTION	Shirley Ann Nelson DeHaven, White Bear Lake, WITH DISTINCTION
Kerry Ann Boisvert, Baker, Mont.	Patricia Lee Dutton, St. Paul
Lynette Kay Boos, Minneapolis, WITH DISTINCTION	Edna Ruth Dyrud, Duluth, WITH DISTINCTION
Janet Elizabeth Blomquist, B.A., M.F.A., Minneapolis	Mary Stumpf Eisinger, Long Lake
Sally Corrine Bronski, Minneapolis, WITH DISTINCTION	Ida Marie Ewen, Pierz
Michele Lynn Brooks, Minneapolis, WITH HIGH DISTINCTION	Judith Pruess Fitch, St. Paul, WITH DISTINCTION
Phyllis F. Buecksler, Minneapolis	Patricia Lynn Neary Flakne, Minneapolis
Janice Marie Carter, Eveleth, WITH DISTINCTION	Elizabeth Anne Yennie Gaarder, St. Paul Park, WITH DISTINCTION
Carol Ann Christensen, South St. Paul, WITH HIGH DISTINCTION	Jannine Gayle Gauthier, St. Paul
	Carol Ann Gibson, St. Cloud
	Steven LeRoy Gilbertson, Montevideo, WITH DISTINCTION

Valerie Radcliffe Gill, Mahtomedi  
*Rosalind Walter Gracey, Minneapolis,*  
 WITH DISTINCTION  
 Katrina Robertson Green, Birmingham, Ala.  
 Cheri-Lee Gritton, Newton, Kan.  
 Angeline Campbell Harrington, Minneapolis  
 Sandra Terese Lickteig Hendrikson, Austin  
 Jeannette Louise House, Edina  
 Lynn Patricia Hovey, Minneapolis  
 Donna Joan Huesers, Chisago City  
 Roger Gene Iverson, Minneapolis  
*Duane Arthur Jensen, St. Paul, WITH*  
 DISTINCTION  
*Bruce Donald Johnson, Willmar,*  
 WITH DISTINCTION  
 Chloris May Johnson, Minneapolis  
 Janet Louise Johnson, Minnetonka  
 Denise Dady Keller, Minneapolis  
 Dawn Gloria Kloskin, St. Paul  
 Raymond Wayne Knoss, Hutchinson  
 Mildred Therese Kramer, B.S., St. Charles  
*Rita Marie LaCasse, White Bear Lake, WITH DISTINCTION*  
*Frances Patricia Lawrenz, Gaylord,*  
 WITH DISTINCTION  
 Judith Popovich Leino, Ely  
 Patricia Ellen Bjorklund Lemke, St. Paul  
*Mary Catherine Lickteig, Austin, WITH HIGH DISTINCTION*  
 Agnes Evensen Lien, St. Paul  
 Sandra Nemer Loewenstein, Minneapolis  
 Suzanne Eugenie Marcoux, Minneapolis  
 Dexter John Marston, Minneapolis  
 Richard Gary Matson, Richfield  
 Ruth Elizabeth McLennan, Cottonwood  
 Mary Carol Muzetras, Minneapolis  
 Mary Anne Winkle Myers, A.A., Rochester  
 Susan Marie Myers, St. Cloud  
 Jane Alice Norman, St. Paul Park  
 Susan Jo Nudell, B.A., Minneapolis  
*Ann Marie Oberlitner, Lebanon, S.D., WITH DISTINCTION*  
 Leland Roy Olson, Fergus Falls  
 Marie Stang Patterson, Minneapolis  
 Ruth Louise Pederson, McIntosh  
 Gerald Robert Petersen, South St. Paul  
 Marilyn Dianne Peterson, North St. Paul  
 Randall Allan Pratt, St. Paul  
*Charlotte Ann Larsen Raich, Virginia, WITH DISTINCTION*  
 Mary Josephine Antroinen Rekedal, Ortonville  
 Mary Elizabeth Robb, Minneapolis  
*Karen Louise Evans Schleisman, Racine, Wis., WITH DISTINCTION*  
 Susan Elizabeth Schoettler, St. Paul  
 Linda Louise Schweinfurter, Morton  
 Dawn Maureen Seigler, St. Paul  
 Cathleen Ann Seils, Minneapolis  
 Walter Carol Selden, Jr., St. Paul  
 Erma Ruth Sims, St. Paul  
 Laurretta Hayes Skelly, St. Paul  
 Jacqueline Strem, St. Paul  
 Wallace Roy Swanson, B.A., Minneapolis  
*Marilynn Tenenbaum, St. Paul, WITH HIGH DISTINCTION*  
*Beverly Mae Thompson, Duluth, WITH DISTINCTION*  
 Kenneth Russell Tucker, Minneapolis  
 Eileen Ann Vesely, Hopkins  
 Marcia Jane Vesely, B.A., Hopkins  
 Dennis Robert Whalton, St. Louis Park  
 Katherine Ann Wasson, Alexandria  
 Daniel Francis Willette, Minneapolis  
 Beverly Ann Williams, Minneapolis

## Master of Education

David Weston Baker, B.A., Milwaukee, Wis.  
 Beryle M. Christesen, B.S., Edina

Charles Edward Cummins, B.A., Brainerd

Charles David Fischer, B.S., Durand, Ill.	Jerome Martin Lerom, B.A., Coon Rapids
Sister Mary Joan Gerads, O.S.F., B.S.N., Little Falls	Lois Lucille Linn, B.S.N., Lake Lillian
Donald Leo Gfell, B.S., Kent, Ohio	Mary McKee Mergens, B.S., St. Paul
John Ernest Heglund, Jr., B.S., Hart, Mich.	Lulu Jean Nelson, B.S.N., Crookston
Brother Jude Highberger, B.S., Atchison, Kan.	Joan Ellen Rippey, B.A., Dallas, Tex.
Thomas Mark Hofflander, B.A., Minneapolis	Joseph Walter Schertler, B.A., Chicago, Ill.
Craig Robert Johnson, B.S., Superior, Wis.	Sandra Gail Gerland Schley, B.S., St. Paul
Dennis Victor Kieser, B.S., Thorp, Wis.	Martha Brown Sparks, B.S.N., Bloomington, Ind.
Joseph Michael Lane, B.S., Minneapolis	James Hugh Stewart, B.S., St. Paul
Edward Dean Larsen, B.S., St. Paul	Betsy Leahy Talbot, B.S., St. Paul
Sally Jo Leibovitz, B.S., Silvis, Ill.	Williamina Agnes Watson, B.S.N., Saskatoon, Saskatchewan, Canada
	Paul A. Wentworth, B.A., Manning, Iowa

## COLLEGE OF EDUCATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

### Bachelor of Science

Gail Ann Curtis, Ortonville, Home Economics Education	Jeneane Marie Sjoquist, Minneapolis Home Economics Education
Carol Ann Larson Erickson, Minneapolis, Home Economics Education	Judie Ann Sonstegard, Paynesville, Home Economics Education
Patricia Ann Hillard, St. Paul, Home Economics Education, WITH DISTINCTION	

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Science in Business

Larry Eugene Anderson, Duluth	Stephen Arthur Broberg, St. Louis Park
Mark Elliott Anderson, Owatonna	John Eccleston Byrne, Jr., St. Paul
Richard Dean Anderson, Minneapolis	Robert Allen Cameron, A.A., Minneapolis
Rollie Harold Anderson, St. Cloud	C. William Dawson, Seattle, Wash., WITH DISTINCTION
Kenneth George Baltes, Blackduck	
Frederick Martin Boos, St. Paul	
Henry Ralph Borgschatz, Zumbrota	

Chester Warren Duck, White Bear  
Lake  
Stanley John Durda, Jr., Minneapolis  
Richard Winfield Dyer II, Excelsior  
William Richard Euteneuer, St. Paul  
Russell Allen Farrell, Coon Rapids  
Harlan David Fischman, St. Paul  
Daniel Lee Forbes, Nevada, Iowa  
Richard Allen Fyten, Minneapolis  
Frederick Henry Gravelle, Minneapolis  
Kenneth Norbert Haas, Hastings  
Donald Ray Houtkooper, New York  
Mills  
Stephen Waldo Huemoller, Pipestone  
Richard Madison Irvin, Minneapolis  
Michael Rian Johnson, Edina  
James Arthur Jordan, Minneapolis  
Gary Raymond Kamrath, St. Paul  
Robert Scofield Kennedy, St. Paul  
John Thomas Kisch, St. Paul  
James Frederick Klein, St. Paul

Robert John Knoll, Stephen  
Fred Norton Lineer, Jr., White Bear  
Lake  
Virgie Marie Lonn, Minneapolis  
Daniel James Maguire, Minneapolis  
Donald Truman Mauseth, St. Paul  
Donald Melvin Moe, Crookston  
George William Montgomery, Isanti  
Edward Marshall Novick, St. Paul  
Steven Wahl Riley, Wayzata  
Norman Floyd Sandberg, Bovey  
Tommy Glenn Stire, Minneapolis  
Karen Ann Struve, New York, N.Y.  
Richard David Sveen, Minneapolis  
Kenneth Albert Swanson, St. Paul  
Bruce Lowell Thorvig, Minneapolis  
Vernon Francis Umholtz, Minneapolis  
Douglas Arthur Williams, Minne-  
apolis  
Timothy Earl Young, Edina  
Ronald Erwin Zaudke, St. Paul

## **SCHOOL OF BUSINESS ADMINISTRATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE**

### **Bachelor of Agricultural Business Administration**

Farryl Loren Klurs, Chandler  
Raymond Merle Muckala, Tyler

Darrell Stanley Strand, Kensington

## **LAW SCHOOL**

### **Juris Doctor**

James John Carter, B.S., M.B.A., Minneapolis

## **SCHOOL OF DENTISTRY**

### **Doctor of Dental Surgery**

Robert Joseph Gibson, B.S., Sauk Centre

# COLLEGE OF MEDICAL SCIENCES

## Bachelor of Science

Bonita Marie Ferrian, Minneapolis,  
Medical Technology\*  
Kathryn Mary Hollanitsch, St. Paul,  
Medical Technology\*  
George Kuprian, Coon Rapids,  
Medical Technology\*  
Gail Rosalie Litowsky, Minneapolis,  
Medical Technology\*

Marina Renate Pavuls, Minneapolis,  
Medical Technology\*  
Rodney James Sandberg, Esko,  
Medical Technology\*  
Michael Dean Sinclair, Minneapolis,  
Medical Technology\*

## Master of Public Health

George Arthur Carson, B.C.E., M.S.,  
Hamilton, Kan.  
Evelyn Marie Dressel, B.S., LeSueur  
A. Yvonne Gorecki, B.S., Minneapolis  
Anita Helen Grand, B.S.N., M.S.,  
Milwaukee, Wis.

Karen Louise Senn, B.S., Minneapolis  
Marian Ruth Ulrich, B.S., Minne-  
apolis

# GRADUATE SCHOOL

## Master of Architecture

Ranjit Kumar Banerji, Kanpur, India  
B. of Arch. '62, Indian Institute of Tech-  
nology. Major: Architecture. Thesis: A Social,  
Cultural and Recreational Complex for the  
City Center. Major Adviser: Prof. W. K. Viv-  
rett.

Parshotam Singh VEDI, New Delhi,  
India  
N.D.A. '67, School of Planning and Architec-  
ture, India. Field of Concentration: Architec-  
ture. Major Adviser: Prof. W. K. Vivrett.

## Master of Arts

Lorado Samuel Adelman, Blue Earth  
B.A. '60, Westmar College. Field of Concen-  
tration: Art History. Major Adviser: Prof.  
C. D. Sheppard.

Arnold Robert Alanen, Tamarack  
B.A. '63, University of Minnesota. Major: Ge-  
ography. Minor: Architecture. Thesis: The  
Development of Planned Communities in the  
United States: 1900-1967. Major Adviser: Prof.  
J. R. Borchert.

Laurencia Carino Alfonso, Cagayan,  
Philippines  
B.S. in Elementary Education '61, Philippine  
Normal College. Field of Concentration: Home  
Economics Education. Major Adviser: Prof.  
R. R. Ford.

Arthur Grant Amundson, Duluth  
B.S. '64, University of Minnesota. Field of  
Concentration: Art. Major Adviser: Prof. A. E.  
Smith.

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\* This degree is conferred subject to the completion of practical work prior to December 14, 1968.

William Frederick Anderson, Jr., Seattle, Wash.

B.S. '58, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. J. R. Murphy.

Robert Balach, Duluth

B.A. '64, University of Minnesota. Major: History. Minor: Education. Thesis: A History of the Duluth, Mesabi and Iron Range Railroad. Major Adviser: Prof. M. L. Lindquist.

Douglas Craig Bartley, Brooklyn Park

B.A. *cum laude* '57, Asbury College. Field of Concentration: Educational Administration. Major Adviser: Prof. G. R. Firth.

Sister Marguerite Baxter, Duluth

B.A. '46, College of St. Scholastica. Field of Concentration: Education. Major Adviser: Prof. T. W. Chamberlin.

Joel Anthony Beale, Minneapolis

B.A. '63, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. R. H. Shove.

Lois Jones Beck, St. Paul

B.A. *summa cum laude* '67, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. E. W. McDiarmid.

Carol Marie Bellamy, Chicago, Ill.

B.A., B.M. *cum laude* '62, Mundelein College. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. D. Hall.

Carole Marie Jacques Benzick, Chaska

B.S. with distinction '59, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. Norine Odland.

Corinne Swenberg Berglund, La Crosse, Wis.

B.A. '60, St. Olaf College. Field of Concentration: Educational Psychology. Major Adviser: Prof. B. E. Balow.

Ronald B. Billings, Wayzata

B.A. '60, B.S. '63, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. S. B. Kegler.

Paul Harlan Blaney, Quincy, Mass.

B.A. *cum laude* '66, Eastern Nazarene College. Field of Concentration: Psychology. Major Adviser: Prof. J. N. Butcher.

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B.S. '66, Northland College. Field of Concentration: Industrial Relations. Major Adviser: Prof. H. G. Heneman.

Anne Gray Weber, Robbinsdale

B.A. '60, St. Olaf College; B.S. '61, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. Norine Odland.

Ruth Esther Weber, St. Michael

B.S. '66, Duquesne University. Field of Concentration: Mass Communication. Major Adviser: Prof. M. V. Charnley.

Fred Arthur Webster, Golden Valley

B.A. '51, University of Minnesota. Field of Concentration: Music Education. Major Adviser: Prof. R. L. Borg.

Virginia Lyness Wegsten, Tofte

B.S. '58, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. H. C. Johnson.

Rolland Russell Willan, Madison,  
Wis.

B.S. '61, University of Wisconsin. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. H. C. Johnson.

Sandra Elayne Williams, Carlton

B.A. '60, College of St. Scholastica. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. J. E. Verrill.

Linda Lou Wilson, Hayfield

B.A. with high distinction '67, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. W. C. Simonton.

William Clinton Wold, Duluth

B.S. '64, University of Minnesota. Field of Concentration: Art. Major Adviser: Prof. A. E. Smith.

Harry Loomis Woodward, Minneapolis

B.S. '67, University of Minnesota. Field of Concentration: Comparative Literature. Major Adviser: Prof. F. H. Wood.

Janet Evelyn Wright, Mendota, Ill.

B.A. *summa cum laude* '64, Cornell College. Field of Concentration: Psychology. Major Adviser: Prof. R. F. Berdie.

Janet Agnes Wykes, St. Paul

B.S. '63, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. Norine Odland.

Carol Marie Yoder, Minneapolis

B.S. '61, Wisconsin State University, River Falls. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. J. C. Manning.

## Master of Arts in Public Administration

Krishnaswamy Aiyasamy, Palaturai,  
India

B.S. '51, M.Sc. '64, University of Madras. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Gary M. Carlson, Beaumont, Calif.

B.S. '67, California State Polytechnic College. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Herbert Forrester Clark, Livingston,  
N.J.

B.A. *summa cum laude* '65, University of Minnesota. Major: Public Administration. Thesis: Law Enforcement Education and Training in the State of Minnesota. Major Adviser: Prof. G. A. Warp.

Yusef Saber ElHag, Tripoli, Libya

B.Com. '63, University of Libya. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Todd Jeffery Lefko, St. Paul

B.A. '63, University of Minnesota. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.



## Master of Business Administration

Casey Michael Fron, Mapleton

B.S. '66, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

## Master of Fine Arts

Ona Jane Morton, Glenwood

B.A. '66, University of Minnesota. Field of Concentration: Music. Major Adviser: Prof. R. A. Schuessler.

## Master of Forestry

Joseph James Ulliman, St. Paul

B.A. '58, University of Dayton. Field of Concentration: Forestry. Major Adviser: Prof. R. A. Skok.

## Master of Science

Carl Lee Bandt, Burnsville

B.S. '60, M.S.D. '66, University of Minnesota. Major: Biometry. Minor: Dentistry. Thesis: A Statistical Discussion of the Use of Dental Indices in Peridontology. Major Adviser: Prof. J. R. Boen.

Behzad Ben Bohlood, Tehran, Iran

B.S. '65, Wisconsin State College, River Falls. Major: Soil Science. Minor: Biochemistry. Thesis: Fluorescent Antibody for Ecological Studies of *Rhizobium japonicum*. Major Adviser: Prof. E. L. Schmidt.

Raghuvir Digambar Brahmakshatriya,  
Poona, India

B.V.S. and A.H. '65, Bombay Veterinary College. Major: Animal Science. Minor: Biochemistry. Thesis: Effect of Exogenous Estrogen, Androgen and/or Calcium on Performance, Egg Characteristics and Blood Plasma Changes in Laying Hens. Major Adviser: Prof. P. E. Waibel.

Chun-Hwa Chang, Hopei, Republic of  
China

B.S. '60, National Taiwan University. Major: Poultry Science. Minor: Biochemistry. Thesis: Influence of Nutrition on Growth Response of Turkey to Antibiotics. Major Adviser: Prof. P. E. Waibel.

Marion Suk-Lan Chu, Hong Kong

B.A. '66, Mary Hardin-Baylor College. Major: Biochemistry. Minor: Organic Chemistry. Thesis: The Role of the Kidney in Fluoride Regulation. Major Adviser: Prof. Leon Singer.

Dan Gordon Cobb, Seminole, Tex.

B.A. '63, Baylor University. Field of Concentration: Agricultural Economics. Major Adviser: Prof. V. W. Ruttan.

Roger Alan Davis, Wilmington, Del.

B.S. '66, University of Delaware. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Some Aspects of the Reaction of 2,4-Diphenylthiesane Dioxides with *t*-Butoxy Magnesium Bromide. Major Adviser: Prof. R. M. Dodson.

Gurdial Singh Dhinsa, Chandigarh,  
Punjab, India

M.Sc. '64, Panjab University. Field of Concentration: Nutrition. Major Adviser: Prof. R. J. Simy.

Dorothy Elaine Downey, Minneapolis

B.S. with distinction '62, M.S. '64, University of Minnesota. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. G. K. Lewis.

Lyndon Wayne Drewlow, Breckenridge

B.S. '65, North Dakota State University. Major: Horticulture. Minor: Biometrics. Thesis: Effect of Radioactive Phosphorous and Time of Apical Meristem Removal on the Mutation Rate of *Chrysanthemum Morifolium* Ramat. Major Adviser: Prof. R. E. Widmer.

Barbara Jean Fisher, Robbinsdale

B.S. in Nursing '66, College of St. Catherine. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. G. M. Sarosi.

Gerald Richard Giles, Minneapolis

B.S. '66, Wheaton College. Major: Mathematics. Minor: Statistics. Thesis: Laplace Transform Solution of Differential Equations. Major Adviser: Prof. M. L. Stein.

Edward R. Gross, West Union, Iowa

B.S. '65, Wisconsin State College, Stevens Point. Major: Soil Science. Minor: Geology. Thesis: The Estimation of Crop Yield by Multiple Regression Methods on Some Principal Soils of Minnesota. Major Adviser: Prof. R. H. Rust.

John Richard Herrin, Madison, Wis.

B.S. '66, University of Wisconsin. Major: Physical Chemistry. Minor: Mathematics. Thesis: Temperature Effects on Vibrational Intensities in Liquids. Major Adviser: Prof. B. L. Crawford, Jr.

Edward W. Hessler, St. Paul

B.A. *cum laude* '59, Syracuse University. Major: Fisheries and Wildlife. Minor: Botany. Thesis: A Biotelemetry Study of Pheasant Stocking in Minnesota. Major Adviser: Prof. J. R. Tester.

Joe Hannah Hilliard, Jr., Knoxville, Tenn.

B.S. '66, University of Tennessee. Major: Genetics. Minor: Biochemistry. Thesis: A Study of Differential Response of Barley Varieties to Low Potassium Stress. Major Adviser: Prof. D. C. Rasmusson.

Philip Arthur Houle, Jr., Minneapolis

B. of Physics '66, University of Minnesota. Major: Mathematics. Minor: Electrical Engineering. Thesis: A Problem in Rational Approximation. Major Adviser: Prof. W. D. Munro.

Wan-Chen Hsieh, Talien, China

B.Sc. '59, Taiwan Normal University. Field of Concentration: Mathematics. Major Adviser: Prof. R. H. Cameron.

Charles Thomas Hughes, Wilmington, Del.

B.S. '65, University of Delaware. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Metacyclophanes from Indenes. Major Adviser: Prof. W. E. Parham.

Colin James Jellish, Ashland, Wis.

B.S. '64, Northland College. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: Conjugate Additions to alpha, beta Unsaturated Ketones. Major Adviser: Prof. Ronald Caple.

Allen Bennett Johnson, Shell Lake, Wis.

B.S. '60, Wisconsin State College; M.A. '63, Drake University. Field of Concentration: Soil Science. Major Adviser: Prof. H. F. Arneeman.

John Richard Jungck, St. Paul

B.S. with high distinction '66, University of Minnesota. Major: Genetics. Minor: Biochemistry. Thesis: Possible Vestiges of Prebiological Selection in Protein Sequences as Revealed by Statistical Comparisons. Major Adviser: Prof. L. A. Snyder.

Richard J. Keintz, Mahtomedi

B.S.B. '66, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. J. R. Nelson.

Patricia Annable Kline, Sarasota, Fla.

B.S. in Nursing '59, University of North Carolina. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. G. M. Sarosi.

Daniel Milton Larsen, Ladysmith, Wis.

B.S. '65, Wisconsin State University, Stevens Point. Major: Soil Science. Minor: Forestry. Thesis: The Effect of Fertilization on Seed Production of Timothy in Northwestern Minnesota. Major Adviser: Prof. Janis Grava.

Terry Alan LePera, El Paso, Tex.

B.A. '62, Texas Western College. Field of Concentration: Mathematics. Major Adviser: Prof. Steven Orey.

Annette Li-Hui Liu, Taiwan, China

B.A. '64, National Taiwan University. Field of Concentration: Business Administration. Major Adviser: Prof. J. M. Smith, Jr.

Puying Liu, Ho-pei, China

B.S. in Eng. '61, National Taiwan University. Field of Concentration: Physical Chemistry. Major Adviser: Prof. Stephen Prager.

Robert Charles McLeester, Madison,  
Wis.

B.S. '50, University of Minnesota. Major: Horticulture. Minor: Agricultural Plant Physiology. Thesis: Thermal Analysis of the Freezing Process in Living Stems of *Cornus Stolonisera*. Major Adviser: Prof. C. J. Weiser.

Stephen James Nelson, Minneapolis

B.A. '66, University of Minnesota. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Biosynthesis of Meteloidine. Major Adviser: Prof. Edward Leete.

Paul Albert Noreen, Pine City

B.S. '66, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. J. M. Hughes.

Brundaban Panigrahy, Chikiti, Orissa,  
India

B.V.Sc. & A.H. '62, Utkal University. Major: Animal Science. Minor: Biochemistry. Thesis: Effect of Nutrition and *Escherichia Coli* Septicemia on Fluid and Tissue Changes in Poultry. Major Adviser: Prof. P. E. Waibel.

Mary Ellen Ryan, Minneapolis

B.S. '50, College of St. Catherine. Major: Agricultural Economics. Minor: Economics. Thesis: An Analysis of Economic and Demographic Characteristics of Consumers Associated with Excessive Installment Debt. Major Adviser: Prof. R. P. Dahl.

Gail Garrison Smith, Hempstead,  
N.Y.

B.S. *cum laude* '66, Ohio Wesleyan University. Major: Botany. Minor: Geology. Thesis: Distribution of Pollen Types in Early Post-glacial Sediments of Cedar Creek Bog, Minnesota. Major Adviser: Prof. E. J. Cushing.

Larry James Smith, Pierz

B.S. '66, University of Minnesota. Major: Agronomy. Minor: Plant Physiology. Thesis: Biological Similarity of CA and SR in Barley Seedlings. Major Adviser: Prof. R. A. Kleese.

Paul Douglas Sorlie, Minneapolis

B.A. *cum laude* '65, University of Minnesota. Field of Concentration: Biometry. Major Adviser: Prof. G. E. Bartsch.

Navakkat Padmanabhan Sukumaran,  
Manalur, India

M.Sc. '59, University of Rajasthan. Field of Concentration: Botany. Major Adviser: Prof. C. J. Weiser.

Jerry Ann Tillotson, Leawood, Kan.

B.S. '53, Iowa State University. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Metabolism of Uridine Triphosphate and Cytidine Triphosphate in *Escherichia coli*. Major Adviser: Prof. H. R. Warner.

Rose Marie Tondl, Schuyler, Neb.

B.S. '59, University of Nebraska. Field of Concentration: Home Economics. Major Adviser: Prof. Suzanne Davison.

Elizabeth O'Brien Umphrey, St. Paul

B.S. with distinction '66, University of Minnesota. Field of Concentration: Home Economics. Major Adviser: Prof. Isabel Noble.

Gary Allen Ward, St. Louis Park

B.A. *magna cum laude* '65, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Biochemical Changes in Rat Hepatoma Cells During the Growth Cycle. Major Adviser: Prof. P. G. W. Plagemann.

## Master of Science in Agricultural Engineering

Francis Joseph Wilgen, Sauk Centre

B. of Agricultural Eng. with high distinction '67, University of Minnesota. Major: Agricultural Engineering. Minor: Mathematics. Thesis: A Study of the Influence of Relative Motion Among Grain Kernels on the Performance of an Auger Conveyor. Major Adviser: Prof. John Strait.

## Master of Science in Civil Engineering

James Lowell Freeman, St. Paul  
B.C.E. '66, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. M. S. Kersten.

Dennis Raymond Martenson, Eau Claire, Wis.

B.C.E. '67, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. G. J. Schroeffer.

Richard James McDonald, Bismarck, N.D.

B.S. '65, University of Minnesota. Major: Civil Engineering. Thesis: The Analysis of High Pore Pressures at Eau Galle Dam. Major Adviser: Prof. M. S. Kersten.

## Master of Science in Dentistry

Alfred Marshall Fenstad, Grand Marais

B.S. '63, D.D.S. '66, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Influence of Female Sex Hormones on the Oral Epithelium. Major Adviser: Dr. R. E. Stallard.

Kent Arthur Hove, Kimberly, Idaho

B.S. '61, D.D.S. '64, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Pathology of Periodontal Disease as Related to Diabetes Mellitus. Major Adviser: Dr. R. E. Stallard.

Eugene Edward Keller, Creighton, Neb.

D.D.S. '65, University of Nebraska. Major: Dentistry. Minor: Pathology. Thesis: A Radiographic Analysis of Dental, Skeletal, and Facial Development in Patients with Various Endocrine and Metabolic Diseases. Major Adviser: Dr. D. E. Waite.

Walter Reinhold List, Minneapolis

B.A. '57, Albion College; D.D.S. '65, Marquette University. Major: Dentistry. Minor: Anatomy. Thesis: The Comparative Healing of Bone and Periodontal Tissues Around Vital and Non-Vital Teeth. Major Adviser: Dr. J. R. Jensen.

## Master of Science in Electrical Engineering

Frank James Adams, Olivia

B.E.E. with distinction '66, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. F. N. Bailey.

George Bernard Autio, White Bear Lake

B.S.M.E. '56, Michigan College of Mining and Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: Synthesis and Analysis Techniques for On-Off Control Systems with Dominant Second Order Plants. Major Adviser: Prof. K. S. P. Kumar.

Ilhan Mehmet Bilgutay, Istanbul, Turkey

B.S.(E.E.) '64, Agricultural and Mechanical College of Texas. Field of Concentration: Electrical Engineering. Major Adviser: Prof. K. S. P. Kumar.

## Master of Science in Industrial Engineering

Quadir Husain Khan, Hyderabad, India

B.E. '65, College of Engineering (Osmania University). Field of Concentration: Industrial Engineering. Major Adviser: Prof. R. S. Nyquist.

Robert Kenneth Nygaard, Columbia Heights

B. of M.E. with distinction '66, University of Minnesota. Field of Concentration: Industrial Engineering. Major Adviser: Prof. R. S. Nyquist.

Richard Allen Palmer, Blackduck  
B.M.E. '66, University of Minnesota. Field of  
Concentration: Industrial Engineering. Major  
Adviser: Prof. R. S. Nyquist.

Thomas Jay Ressler, Minneapolis  
B. of M.E. '66, University of Minnesota. Field  
of Concentration: Industrial Engineering. Ma-  
jor Adviser: Prof. R. S. Nyquist.

## Master of Science in Mechanical Engineering

James Fred Haleen, Robbinsdale  
B. of M.E. with distinction '67, University of  
Minnesota. Field of Concentration: Mechanical  
Engineering. Major Adviser: Prof. Katsuhiko  
Ogata.

## Master of Science in Metallurgical Engineering

David Michael Hopstock, Emmaus, Pa.  
B.S. with distinction '66, Stanford University.  
Major: Metallurgical Engineering. Minor: In-  
organic Chemistry. Thesis: Chemical Proper-  
ties of Xanthates and Dithiocarbamates. Major  
Adviser: Prof. J. E. Lawver.

## Master of Science in Obstetrics and Gynecology

Stephen Lawrence Larson, Edina  
B.A. '60, B.M.S. '61, Dartmouth College;  
M.D. '63, McGill University. Major: Obstetrics  
& Gynecology. Minor: Pathology. Thesis:  
Chromosome Studies on Spontaneous Abor-  
tions. Major Adviser: Dr. R. B. Wilson.

## Master of Science in Radiology

Robert Edward Anderson, M.D.,  
Minneapolis  
B.A. *magna cum laude* '62, University of Min-  
nesota. Major: Radiology. Minor: Biophysics.  
Thesis: Dosimetry of Irregular Radiation  
Therapy Fields. Major Adviser: Dr. G. J.  
D'Angio.

## Master of Social Work

Roselia Ann Parks, St. Paul  
B.A. '64, Gustavus Adolphus College. Field of  
Concentration: Social Work. Major Adviser:  
Prof. L. F. Merl.

## Specialist in Education

**Basil Robert Anderson, Minneapolis**  
B.S. '53, St. Cloud State Teachers College;  
M.A. '56, University of Minnesota. Field of  
Concentration: Educational Psychology. Major  
Adviser: Prof. W. E. Dugan.

**Ann Lyon Brooke, Minneapolis**  
B.A. '64, M.A. '67, University of Minnesota.  
Field of Concentration: Educational Psy-  
chology. Major Adviser: Prof. M. D. Hall.

**James Lyle Gavenda, Minneapolis**  
B.S. '60, M.A. '62, University of Minnesota.  
Field of Concentration: Educational Psy-  
chology. Major Adviser: Prof. R. F. Weather-  
man.

**Robert Conley Heaton, Kensington,  
Md.**

B.S. in Education '63, Miami University; M.A.  
'66, University of Minnesota. Field of Concen-  
tration: Curriculum and Instruction. Major Ad-  
viser: Prof. D. G. Force, Jr.

**Robert Linus Sande, Rochester**  
B.A. '49, Concordia College; M.S. '53, Uni-  
versity of North Dakota. Field of Concen-  
tration: Curriculum and Instruction. Major Ad-  
viser: Prof. J. R. Curtin.

**Samuel Richard Scholl, Hutchinson**  
B.A. with honors '60, Bethel College; M.A.  
'66, University of Minnesota. Field of Concen-  
tration: Educational Psychology. Major Ad-  
viser: Prof. M. D. Hall.

**Beverly Ann Severson, Roseville**  
B.S. cum laude '52, University of Washington;  
M.A. '67, University of Minnesota. Field of  
Concentration: Educational Psychology. Major  
Adviser: Prof. M. D. Hall.

**Evelyn Joyce Swenson, Moorhead**  
B.S. '47, St. Cloud State Teachers College;  
B.S.L.S. '51, University of Minnesota; M.A.  
'61, Denver University. Field of Concen-  
tration: Library Science Teaching. Major Adviser:  
Prof. D. K. Beminghausen.

**Donald Richard Waldoch, St. Paul**  
B.S. '49, University of Minnesota; M.A. '54,  
San Francisco State College. Field of Concen-  
tration: Education. Major Adviser: Prof. D. G.  
Force, Jr.

## Doctor of Education

**Ralph Russell Doty, Duluth**  
B.A. cum laude '63, University of Minnesota;  
M.A. in Teaching '65, University of Notre  
Dame. Major: Educational Administration. Mi-  
nor: Supporting Program. Project: A Critical  
Analysis of Loyalty Oaths and Loyalty Oath  
Statutes for Teachers. Major Adviser: Prof.  
N. C. Nickerson, Jr.

## Doctor of Philosophy

**Bruce David Anderson, Minneapolis**  
B.S. '55, M.A. '65, University of Minnesota.  
Major: Education. Minor: Educational Psy-  
chology. Thesis: The Influence of Model Per-  
formances and Feedback on the Learning of a  
Complex Motor Skill. Major Advisers: Profs.  
D. C. Neale and R. J. Donnelly.

**Gayle H. Anderson, Thief River Falls**  
B.S. '59, Moorhead State Teacher's College;  
M.S. '62, North Dakota State University. Ma-  
jor: Educational Administration. Minor: Sup-  
porting Program. Thesis: The Effects of Se-  
lected Economic and Staffing Factors on the  
Status of the Minnesota State Teachers Retire-  
ment Program. Major Adviser: Prof. V. D.  
Mueller.

Ray Lynn Anderson, Pocatello, Idaho  
B.A. with honors '64, Idaho State University;  
M.A. '66, University of Minnesota. Major:  
Speech, Communication, and Theatre Arts.  
Minor: Philosophy. Thesis: Persuasive Func-  
tions of Science-Fiction: A Study in the Rhet-  
oric of Science. Major Adviser: Prof. R. L.  
Scott.

Kenneth Stewart Barklind, Minne-  
apolis

B.A. '55, Macalester College; M.A. '58, Uni-  
versity of Minnesota. Major: Educational Psy-  
chology. Minors: Psychology and Child Psy-  
chology. Thesis: Auditory Distraction and  
Reading Achievement. Major Adviser: Prof.  
B. E. Balow.

Robert Wesley Barrie, Washington,  
D.C.

B.A. *magna cum laude* '48, University of Min-  
nesota. Major: Political Science. Minor: So-  
ciology. Thesis: Congress and the Executive:  
The Making of U.S. Foreign Trade Policy.  
Major Adviser: Prof. Burton Sapin.

Garold Leroy Bartness, Milwaukee,  
Wis.

B.Ed. '37, Superior State Teachers College;  
M.A. '45, M.A. '51, University of Minnesota.  
Major: Mass Communication. Minor: History.  
Thesis: Hearst in Milwaukee. Major Adviser:  
Prof. J. E. Gerald.

Paul John Bauermeister, Minneapolis

B.A. '53, Concordia Theological Seminary.  
Major: Psychology. Minors: Psychiatry and  
Neurology. Thesis: A Descriptive Study of Pas-  
toral Counseling Subjects. Major Adviser: Prof.  
R. D. Wirt.

Michael J. Bazin, London, England

Teachers Certificate '59, University of Exeter-  
Institute of Education; M.S. '65, University of  
Minnesota. Major: Zoology. Minors: Botany  
and Microbiology. Thesis: Mutation and Re-  
combination in the Bluegreen Alga, *Anacystis*  
*nidulans*. Major Adviser: Prof. F. M. Williams.

Lester Albert Becklund, San Diego,  
Calif.

B.S. '58, M.Ed. '61, University of Minnesota.  
Major: Education. Minor: Mathematics. The-  
sis: Independent Study: An Investigation of  
the Effectiveness of Independent Study of  
Novel Mathematics Materials in the Element-  
ary School. Major Adviser: Prof. D. C. John-  
son.

Ernest Howard Bergquist, Cloquet

B.A. *summa cum laude* '64, University of Min-  
nesota. Major: Psychology. Minor: Support-  
ing Program. Thesis: Output Pathways of Hypo-  
thalamic Mechanisms for Sexual, Aggressive,  
and Other Motivational Behaviors in Opossum.  
Major Adviser: Prof. W. W. Roberts.

Gary Allen Best, Riverside, Calif.

B.A. '61, M.A. '65, Los Angeles State College  
of Applied Arts and Sciences. Major: Educa-  
tional Psychology. Minor: Curriculum and In-  
struction. Thesis: Attitudes of Mothers of  
Homebound Children. Major Adviser: Prof.  
D. G. Force, Jr.

Marjorie Wall Bingham, Minneapolis

B.A. '58, Grinnell College; M.A. '59, Uni-  
versity of Minnesota. Major: American Stud-  
ies. Thesis: In Search of Hound, Horse and Tur-  
tledove: A Study of the Genre of Nature Writing  
and Post-Darwinian Nature Writers. Major Ad-  
viser: Prof. C. A. Chambers.

Robert Milton Blomgren, Seattle,  
Wash.

B.S. *magna cum laude* '60, North Park College  
and Theological Seminary; M.S. '63, University  
of Minnesota. Major: Mathematics. Minor:  
Physics. Thesis: Linear Transformation Theo-  
rems for a Class of Double Wiener Integrals  
and Resulting Evaluation Theorems. Major  
Adviser: Prof. R. H. Cameron.

Leonard Brill, Brooklyn, N.Y.

B.S. '57, Brooklyn College; M.A. '62, Uni-  
versity of Minnesota. Major: English. Minor:  
Philosophy. Thesis: Thomas Wentworth Hig-  
ginson and the *Atlantic Monthly*. Major Ad-  
viser: Prof. C. H. Foster.

Herbert McDaniel Burks, Jr., Prince-  
ton, Va.

B.A. '50, Roanoke College; M.Ed. '54, Uni-  
versity of Virginia. Major: Educational Psy-  
chology. Minor: Psychology. Thesis: The De-  
velopment and Evaluation of an Instrument  
for Measuring Selected Dimensions of School  
Counselor Behavior in the Interview. Major  
Adviser: Prof. D. H. Blocher.

Karlynn Kohrs Campbell, Los Angeles,  
Calif.

B.A. *cum laude* '58, Macalester College; M.A.  
'59, University of Minnesota. Major: Speech,  
Communication, and Theatre Arts. Minor:  
Supporting Program. Thesis: The Rhetorical  
Implications of the Philosophy of Jean-Paul  
Sartre. Major Adviser: Prof. R. L. Scott.

Ronald Scott Daniel, San Jose, Calif.

B.A. '60, M.A. '63, San Jose State College. Major: Entomology. Minor: Microbiology. Thesis: A Study of the Bacteroid Symbiotes and Host Tissues of Cockroaches: With Special Emphasis on Ultrastructure. Major Adviser: Prof. M. A. Brooks.

Gordon Whitfield Erlandson, Fargo, N.D.

B.A. '59, M.S. '62, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: A Market Structure, Conduct and Performance Analysis of the Fluid Milk Industry of Non-Metropolitan Minnesota. Major Advisers: Profs. E. F. Koller and D. C. Dahl.

Geraldine Ann Evans, St. Louis Park

B.S. with distinction '60, M.A. '65, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Perceptions of and Attitudes Toward the Use of Collective Bargaining Power. Major Adviser: Prof. D. E. Davis.

Laura Eleanor Puckett Evans, Detroit, Mich.

B.S. in Med.Tech. '52, Wayne State University. Major: Veterinary Physiology and Pharmacology. Minor: Biochemistry. Thesis: Metabolism of Serum High-Density Lipoproteins by the Isolated Perfused Goat Liver. Major Advisers: Profs. I. D. Frantz and A. L. Good.

Hemant Amritrao Fanse, Baroda, India

B.Sc. '55, M.Sc. '58, Institute of Agriculture, India; M.S. '65, University of Minnesota. Major: Plant Pathology. Minor: Microbiology. Thesis: Studies on the Microbiology of Stored Rice. Major Adviser: Prof. C. M. Christensen.

Mukul Chandra Ganguli, Calcutta, India

B.V.Sc. & A.H. '61, Bengal Veterinary College, Calcutta; M.V.Sc. '63, College of Animal Sciences, Agra University, India. Major: Nutrition. Minor: Biochemistry. Thesis: The Growth, Reproduction and Lactation Performance of Female Rats Fed Different Concentrations of Dietary Sodium. Major Advisers: Profs. L. E. Hanson and J. D. Smith.

Carl Robert Gerber, Bruce, Wis.

B.S. '50, Eau Claire State Teachers College; M.A. '65, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Faculty Workload and Unit Cost of Instruction in Minnesota State Junior Colleges. Major Adviser: Prof. O. E. Domian.

Brian George Gnauck, Shakopee

B. of Agricultural Bus. Adm. '63, University of Minnesota; M.S. '64, Pennsylvania State University. Major: Agricultural Economics. Minor: Law. Thesis: An Economic Analysis of Market Conduct in Five Agricultural Input Industries. Major Adviser: Prof. D. C. Dahl.

Charles Edward Goudey, Hatboro, Pa.

B.A. '63, M.Ed. '66, University of Vermont. Major: Education. Minor: Educational Psychology. Thesis: A Comparison of Children's Reading Performance Under Directed and Non-Directed Conditions. Major Adviser: Prof. B. E. Balow.

Jerome Allen Halvorson, Braham

B.S. '63, Wisconsin State University, River Falls; M.A. '65, University of Iowa. Major: Speech Science, Pathology, and Audiology. Minors: Psychology and Child Psychology. Thesis: The Effects on Stuttering Frequency of Pairing Punishment (Response Cost) with Reinforcement. Major Adviser: Prof. G. M. Siegel.

Daniel Thomas Sheldon Hanson, Rushford

B.S. '64, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Growth Rates of Unicellular Microplants in Continuous Propagators. Major Advisers: Profs. H. M. Tsuchiya and A. G. Fredrickson.

Benedict Edward Hardman, St. Paul

B.A. '31, Dartmouth College; M.A. '35, University of Minnesota. Major: Speech, Communication, and Theatre Arts. Minor: Supporting Program. Thesis: A Critical Study in Ethos: Cedric Adams, Newscaster-Columnist. Major Adviser: Prof. E. W. Ziebarth.

John Edward Haugo, Waubun

B.S. '57, Moorhead State College; M.A. '64, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Comparative Analysis of Two Plans of High School Organization for Instruction: Modular Versus Traditional. Major Adviser: Prof. O. E. Domian.



Mohamed Ezzat S. Hegazy, Cairo,  
United Arab Republic

B.A. '53, Cairo University; M.A. '64, University of Minnesota. Major: Sociology. Minor: Anthropology. Thesis: Cross-Cultural Experience and Social Change: The Case of Foreign Study. Major Adviser: Prof. D. A. Martindale.

Lowell Waldo Hellervik, St. Paul

B.S. '56, St. Cloud State Teachers College. Major: Educational Psychology. Minor: Psychology. Thesis: An Operant Conditioning Approach to Changing Counselor Interview Behavior. Major Adviser: Prof. D. H. Blocher.

Richard Wayne Henton, Bartlesville,  
Okla.

B.S. '60, M.S. '61, Oklahoma State University. Major: Home Economics. Minor: Supporting Program. Thesis: An Experimental Study Comparing Modular Units with Conventional Furnishings for Teaching Furniture Arrangement. Major Adviser: Prof. Gertrude Esteros.

LeRoy Alburn Hewitt, Portland, Ore.

B.S. '48, University of Oregon; M.A. '53, University of Minnesota. Major: Business Administration. Minor: Law. Thesis: A Heuristic System for the Management of Cash. Major Adviser: Prof. J. C. Gray.

Marybelle R. Hickner, International  
Falls

B.S. '43, M.A. '62, University of Minnesota. Major: Education. Minor: Anthropology. Thesis: Authoritarianism in Personality Structure of Supervising Teachers as Related to Accuracy of Judgment of Student Teachers. Major Adviser: Prof. M. M. Brown.

Duane Collins Hill, Elysian

B.S. '57, Mankato State College; M.S. '58, South Dakota State College of Agriculture and Mechanic Arts. Major: Educational Administration. Minor: Supporting Program. Thesis: Leadership and Test Performance Relationships as Determinants of Successful Progress in Doctoral Level Educational Administration Programs. Major Adviser: Prof. D. E. Davis.

Gordon S. Howard, Roseburg, Ore.

B.S. '53, M.S. '63, University of Oregon. Major: Speech, Communication, and Theatre Arts. Minor: Supporting Program. Thesis: Strindberg's Use of Irony in His Post-Inferno Dramas. Major Adviser: Prof. K. L. Graham.

Dean Leroy Isaacson, Milaca

B.A. cum laude '63, Macalester College; M.S. '66, University of Minnesota. Major: Mathematics. Minor: Supporting Program. Thesis: Stochastic Integrals and Derivatives. Major Adviser: Prof. Steven Orey.

Roy Herman Jacob, Winnipeg,  
Manitoba, Canada

B.A. cum laude '52, University of Minnesota. Major: Biophysics. Thesis: The Electronic Modification of Membrane Current During Impulse Propagation for an Isolated Single Nerve Fiber of the Lobster. Major Adviser: Prof. R. M. Benolken.

Gerald William Johnson, St. Paul

B.A. '61, St. Thomas College; M.S. '63, University of Minnesota. Major: Mathematics. Minor: Educational Psychology. Thesis: Integral Representation of Certain Linear Operators. Major Adviser: Prof. Jesus Gil De Lamadrid.

Ralph Elmer Johnson, Jr., Lehi, Utah

B.A. '61, Brigham Young University; M.S.W. '63, University of Utah. Major: Sociology. Minor: Social Work. Thesis: Marital Patterns During the Middle Years. Major Adviser: Prof. Joan Aldous.

Terrence Joseph Keeney, Berkeley,  
Calif.

B.A. '64, University of California, Berkeley. Major: Psychology. Minor: Child Psychology. Thesis: Permutation Transformations on Phrase Structures in Symbol Sequences. Major Adviser: Prof. J. J. Jenkins.

John Mark Killen, Minneapolis

B.E.E. '44, M.S. '56, University of Minnesota. Major: Civil Engineering. Minor: Electrical Engineering. Thesis: The Surface Characteristics of Self Aerated Flow in Steep Channels. Major Adviser: Prof. A. G. Anderson.

Charles Otto Kroncke, Hastings

B.S. '61, St. John's University; M.B.A. '62, University of Pittsburgh. Major: Business Administration. Minor: Supporting Program. Thesis: Insuring the Aged Driver. Major Adviser: Prof. C. A. Williams.

Robert George LeBlanc, Durham,  
N.H.

B.A. '59, University of New Hampshire; M.A. '62, University of Minnesota. Major: Geography. Minor: History. Thesis: The Location of Manufacturing in New England in the 19th Century. Major Adviser: Prof. F. E. Lukermann.

Gerald Raymond Lee, Minneapolis

B.A. '60, Luther College. Major: Educational Psychology. Minor: Psychology. Thesis: Social Reinforcement and Some Other Experimental Treatments Applied to the Within Interview Verbal Behavior of Counselors. Major Adviser: Prof. D. H. Blocher.

Peter MacDonald Longley, Meridian, N.Y.

B.S. '57, Union College; M.S. '59, University of Utah. Major: Philosophy. Minor: Mathematics. Thesis: Hume's Logic — Ideas and Inference. Major Adviser: Prof. D. B. Terrell.

James Preston Lund, Minneapolis

B.B.A. '56, B.S. '59, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Study of the Relationship Between Selected Economic Factors and Teachers' Salaries in Non-Metropolitan Minnesota School Districts with Minimum Enrollment of 1500 Pupils. Major Adviser: Prof. C. P. Hooker.

John Mathias Maas, Minneapolis

B.A. '58, St. John's University; M.A. '67, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Study of the Relationships Between Specified Characteristics of Teachers and Their Perceptions of Job-Satisfaction and Job Dissatisfaction Factors. Major Adviser: Prof. D. E. Davis.

William Reed Martin, St. Paul

B.A. '55, Gettysburg College; M.A. '58, Syracuse University. Major: Education. Minor: English. Thesis: The Impact of Federal Programs of Financial Aid on the Teaching of Reading in Upper Midwest Secondary Schools. Major Adviser: Prof. S. B. Keger.

Lynn Remly McCabe, Minneapolis

B.A. '63, M.A. '67, University of Minnesota. Major: English. Minor: German. Thesis: An Edition and Translation of a Tenth-Century Anglo-Saxon Homily, Vercelli X (Codex CXVII). Major Adviser: Prof. J. W. Clark.

Harris Edgar Miller, Duluth

B.S. '49, University of Denver. Major: Education. Minor: Educational Psychology. Thesis: An Investigation of Organizational Climate as a Variable in Pupil Achievement among 29 Elementary Schools in an Urban School District. Major Adviser: Prof. C. P. Hooker.

James Clark Moore, Omaha, Neb.

B.A. with distinction '60, University of Omaha. Major: Economics. Minor: Mathematics. Thesis: On the Theory and Economic Applications of a Generalized Saddle Point Concept. Major Adviser: Leonid Hurwicz.

Vaughn Clayton Moore, Osawatomie, Kan.

B.S. '56, M.S. '57, University of Kansas. Major: Biophysics. Thesis: Computer Analysis and Synthesis of Cobalt-60 Isodose Curves. Major Adviser: Prof. M. K. Loken.

Proshanta Kumar Nandi, Kanpur, India

M.A. '56, Agra University; M.A. '66, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Career and Life Organization of Professionals: A Study of Contrasts Between College and University Professors. Major Adviser: Prof. D. A. Martindale.

Paul Edward Nelson, Slayton

B.A. '63, B.S. with distinction '63, M.A. '66, University of Minnesota. Major: Speech, Communication, and Theatre Arts. Minor: English. Thesis: Norman Cousins: Persuasion and the Moral Imagination. Major Adviser: Prof. R. L. Scott.

Fredric Newell Owens, Hammond, Wis.

B.S. with high distinction '64, University of Minnesota. Major: Nutrition. Minor: Supporting Program. Thesis: The Effects of Added Non-protein Nitrogen, Limestone, and Dicalcium Phosphate on Fermentation of the Ensilaged Corn Plant (*Zea mays*). Major Adviser: Prof. J. C. Meiske.

Louis Thomas Palmer, St. Paul

B.S. '60, Washington State University; M.S. '65, Kansas State University. Major: Plant Pathology. Minor: Entomology. Thesis: The Ecological Relationships of *Diabrotica Longicornis*, *Meloidogyne Incognita* and *Pratylenchus* Spp. in the *Fusarium* Root Rot Complex of *Zea Mays*. Major Adviser: Prof. Thor Kommedahl.

Jagdishchandra Kunverlal Patel, Ahmedabad, India

M.S. '58, Gujarat University, India; M.S. '60, New York University. Major: Statistics. Minor: Mathematics. Thesis: Selecting a Subset Containing the Best One of Several IFRA Populations. Major Adviser: Prof. Milton Sobel.

Karl Adalbert Pfitzer, Duluth

B. of Physics with high distinction '61, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: An Experimental Study of Electron Fluxes From 50 Kev to 4 Mev in the Inner Radiation Belt. Major Adviser: Prof. J. R. Winckler.

Perry Harold Prestholdt, Minneapolis

B.A. '63, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: The Effects of Social Reinforcement and Punishment on Attitudinal Operants. Major Adviser: Prof. K. E. Weick.

Donald Walter Priebe, Kenmare,  
N.D.

B.S. with honors '56, M.S. '67, North Dakota State University. Major: Education. Minor: Educational Administration. Thesis: An Interest Inventory of Minnesota Farmers. Major Adviser: Prof. M. J. Peterson.

Michael Radner, Chicago, Ill.

B.A. '60, Carleton College; M.A. '66, University of Minnesota. Major: Philosophy. Minor: Mathematics. Thesis: Philosophical Implications of Recent Work of Cohen and Scott in the Foundations of Mathematics. Major Adviser: Prof. G. E. Maxwell.

John Herbert Reed, Jr., St. Clair  
Shores, Mich.

B.A. '54, M.D. '58, Wayne State University. Major: Physiology. Minor: Biophysics. Thesis: The Distribution of Pulmonary Blood Flow (The Influence of Gravity and Increased Inertial Force Environments.) Major Adviser: Dr. E. H. Wood.

Jon Edward Sanger, Princeton

B.S. '61, M.S. '64, University of Minnesota. Major: Botany. Minors: Geology and Soils. Thesis: A Quantitative Study of Leaf Pigments from Initiation in Buds to Decomposition in Soils. Major Adviser: Prof. Eville Gorham.

Thomas Patrick Schwartzbauer, St.  
Paul

B.S. '63, University of Notre Dame; M.S. '66, University of Minnesota. Major: Mathematics. Minor: Supporting Program. Thesis: On a Class of Automorphisms that Admit of Approximation by Periodic Transformations. Major Adviser: Prof. R. V. Chacon.

Louis Seig, New Orleans, La.

B.A. '54, M.A. '61, Louisiana State University. Major: Geography. Minor: Anthropology. Thesis: Concepts of Change and the Historical Method in Geography: The Case of Springfield, Massachusetts. Major Adviser: Prof. J. W. Webb.

Jacqueline Marie Shick, Minneapolis

B.S. in Education '58, M.S. in Education '64, Drake University. Major: Education. Minor: Educational Psychology. Thesis: The Effects of Mental Practice on Selected Volleyball Skills for College Women at the University of Minnesota. Major Adviser: Prof. E. M. Jaeger.

John William Smaby, Minneapolis

B.S.L. '54, M.A. '65, University of Minnesota. Major: Philosophy. Minor: Supporting Program. Thesis: On the Derivation of 'Ought' from 'Is.' Major Adviser: Prof. F. V. Raab.

Robert John Sonstroem, Bristol, Conn.

B.S. '56, M.S. '57, Springfield College. Major: Education. Minor: Educational Psychology. Thesis: Human Catecholamine Response to Physical and Emotional Stress While Running. Major Adviser: Prof. J. F. Alexander.

John David Steffen, Manhattan, Kan.

B.A. '56, Hamline University. Major: Educational Psychology. Minor: Psychology. Thesis: The Effects of Two Behavioral Models of Group Counseling on the Academic Performance of Selected College Women. Major Adviser: Prof. C. A. Parker.

Darwin LaMar Thomas, Genola, Utah

B.A. with honors '62, M.A. '64, Brigham Young University. Major: Sociology. Minor: Supporting Program. Thesis: Parental Control and Support in Socialization and Adolescent Conformity: A Cross National Study. Major Adviser: Prof. M. A. Strauss.

Joseph Henry Thorman, Jamestown,  
N.D.

B.A. '54, Jamestown College; M.A. '65, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: Relative Effectiveness of Four Methods of Training Prospective Teachers in Interpersonal Skills. Major Adviser: Prof. D. C. Neale.

Roman Eugene Tymchyshyn, Chisholm

B.A. '54, M.A. '62, University of Minnesota. Major: Speech, Communication, and Theatre Arts. Minor: Russian. Thesis: Alexander Korneichuk: A Representative Playwright of the New Soviet Era. Major Adviser: Prof. K. L. Graham.

Herbert Nickolas Walch, Winona

M.S. '65, University of Minnesota. Major: Agricultural Economics. Minor: Supporting Program. Thesis: Competitive Position of Beef Breeding Herds in Southern Minnesota. Major Adviser: Prof. T. R. Nodland.

Kenneth Charles Weber, Cold Spring

B. of E.E. '63, University of Minnesota. Major: Physiology. Minor: Biochemistry. Thesis: Oxidative Metabolism of the Isolated Lung. Major Adviser: Prof. M. B. Visscher.

Andrew Joseph Weigert, New York, N.Y.

B.A. *cum laude* '58, M.A. '60, St. Louis University. Major: Sociology. Minor: Supporting Program. Thesis: Parent-Child Interaction Patterns and Adolescent Religiosity: A Cross-National Analysis. Major Adviser: Prof. M. A. Strauss.

Donald Joseph Weiss, Roberts, Wis.

B.S. '57, Wisconsin State College, River Falls; M.A. '60, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Study of the Interaction of Participation in Decision-Making, Selected Personality Variables and Job Satisfaction of the Educational Research and Development Council Elementary School Principals. Major Adviser: Prof. N. C. Nickerson.

Constance Catherine West, Fargo, N.D.

B.S. '31, North Dakota Agricultural College. Major: Speech, Communication, and Theatre Arts. Minor: Speech Pathology. Thesis: The Use of Persuasion in Selected Plays of Arthur Miller. Major Adviser: Prof. W. S. Howell.

Alan Bruce Whitman, Kankakee, Ill.

B.S. with high honors '63, University of Illinois; M.S. '66, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Dynamics and Stability of Elastic Directed Curves. Major Advisers: Profs. C. N. DeSilva and W. H. Warner.

David Allen Williams, Wakefield, Mass.

B.S. '60, M.S. '62, Massachusetts College of Pharmacy. Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: Stereochemical Studies on Methadol, Isomethadol, and Related Compounds. Major Adviser: Prof. P. S. Portoghese.

James Edward Williamson, St. Paul

B.A. '59, Northland College; M.S. '66, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: Measurement and Reporting for Professionally Managed Trusts. Major Adviser: Prof. R. G. Berryman.

Charlotte Elizabeth Wolf, Boulder, Colo.

B.A. '49, M.A. '59, University of Colorado. Major: Sociology. Minor: Supporting Program. Thesis: The Garrison Community: A Study of an Overseas American Military Colony. Major Adviser: Prof. D. A. Martindale.

## Doctor of Philosophy in Medicine (Internal)

Colum Alphonsus Gorman, Mayo-bridge, North Ireland

M.B.B.Ch. '59, Queens University. Major: Medicine (Internal). Minor: Biochemistry. Thesis: Studies on the Role of Binding Proteins in Regulating the Interchange of Thyroxine and Triiodothyronine Between Liver and Blood. Major Adviser: Dr. C. A. Owen.

# Academic Costume

On appropriate occasions, anyone with a college or university degree may wear academic costume consisting of a gown, a hood, and a cap. By observing the kind of academic costume a person wears, it is possible to know the name of the university from which he graduated, as well as the degree which he holds, and, in some cases, the field of his major interest as well.

The long pointed sleeve of the gown indicates a bachelor's degree, the long closed sleeve with a slit for the arm indicates a master's degree, and the open sleeve marks a doctor's degree. Bachelors' and masters' gowns are black in color and are without any trimming. Generally, the doctor's gown is also black, but some universities, particularly those abroad, prescribe such festive colors as red, crimson, or green. All doctors' gowns have velvet trimming on the front facings and crossbars on the sleeves. This trimming may be black, or it may match the color of the edging of the hood and thus identify the profession or field of major interest of the wearer.

At a commencement it is quite proper to wear the gown — but not the hood — appropriate for the degree *which is to be received*. The only hoods worn at commencements are for degrees which have already been received. Thus only those students and faculty members who have already received college or university degrees wear hoods. Anyone who has a degree from the University of Minnesota may wear a hood decorated with a maroon chevron on gold background. The length and shape of the hood indicate whether the wearer has earned a bachelor's, a master's, or a doctor's degree. The velvet edging on the hood indicates the field in which the degree was granted. For example, dark blue signifies Philosophy; light blue, Education; green, Medicine; lilac, Dentistry; orange, Engineering; russet, Forestry; drab, Business; olive green, Pharmacy; purple, Law; gray, Veterinary Medicine; golden yellow, Science; and white, Arts and Letters.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidates are honor students.

Caps, generally mortarboards with tassels, have significance, too. The doctor's tassel may be black or gold. Masters' and bachelors' tassels are black; but at University of Minnesota commencements — upon the authority of the University Senate Committee on Functions — candidates for the bachelors' and associates' degrees wear tassels which indicates their schools or colleges by color as follows:

(In the order of march)

General College .....	crimson and white
College of Liberal Arts .....	white
University College .....	old gold and white
Institute of Technology .....	orange
College of Agriculture, Forestry, and Home Economics .....	maize

School of Business Administration .....	drab
College of Education .....	light blue
College of Medical Sciences .....	green
Graduate School .....	black

But once the bachelor's degree has been received and the commencement is over, the graduate, should he wear academic costume again, will wear only the black tassel as does the holder of the master's degree. Similarly, he will not in the future wear the shoulder insignia as a part of his academic dress even if he is an honor graduate. All graduates of the University should remember that the academic dress at this University conforms to the rules of the Intercollegiate Bureau of Academic Costume. This means that the Minnesota academic costume may be easily secured anywhere in the world. And it is always worn proudly and with distinction — for ours is a great University.

# *President's Reception*

**AUGUST, 1968**

- The members of the graduating class and their families and friends are invited to attend the President's Reception immediately after the commencement exercises. The Reception will be held on the Plaza in front of Northrop Memorial Auditorium. In case of rain, the Mann Court of the Architecture Building will be used. Refreshments will be served.
- Those in the receiving line will be Vice-President and Mrs. Shepherd; Dr. and Mrs. Wangenstein; Vice-President and Mrs. Cashman; Dean and Mrs. Thompson; Mr. and Mrs. Kenneth Glaser; Mr. Robert Swisher, Senator, Minnesota Student Association; and Mr. John Kofski, Vice-President, Union Board of Governors.
- During the Reception, Mr. Cermak will play a Carillon Concert.
- Assisting in the Reception are students and staff members, including those from the Senate Committee on University Functions, the Navy ROTC, and the Department of University Relations.



UNIVERSITY OF MINNESOTA

*December Commencement, 1968*

SATURDAY EVENING, DECEMBER 14, 7:30 P.M.

NORTHROP MEMORIAL AUDITORIUM



# *The Board of Regents*

The Honorable Lester A. Malkerson, Minneapolis  
First Vice President and Chairman

The Honorable Marjorie J. Howard (Mrs. C. Edward), Excelsior  
Second Vice President

The Honorable Elmer L. Andersen, St. Paul

The Honorable Lyman A. Brink, Hallock

The Honorable Daniel C. Gainey, Owatonna

The Honorable Harry B. Hall, M.D., Edina

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Herb L. Huffington, M.D., Waterville

The Honorable Fred J. Hughes, St. Cloud

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhorst, Olivia

The Honorable Otto A. Silha, Edina

Dr. Malcolm Moos, President

Dr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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SMOKING AND USE OF CAMERAS AND RECORDERS — It is requested, by action of the Board of Regents, that in Northrop Memorial Auditorium smoking be confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms. The use of cameras or tape recorders in the auditorium by members of the audience is prohibited.

# *This Is Your University*

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and seventeenth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our State. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen — to name only some of the careers for which preparation is offered. Since its founding, the University has awarded more than 206,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 45,000 students annually on its Twin Cities, Duluth, Morris, Crookston, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the State by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the State in their own homes.

In the diversified research laboratories on the University's six campuses, at the several agricultural experiment stations scattered throughout the State, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Horticultural Research Center and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

THE UNIVERSITY is acknowledged to be the cultural hub of the Northwest. It is the home of the University Artists Course, Radio Station KUOM, the University of Minnesota Television Hour, the University Theatre, the Minnesota Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings renowned artists and lecturers to more than a million and a half persons living in the area it serves.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. Through the American Legion and its auxiliary posts all over the State, thousands of friends have made generous donations to pro-

vide an endowed research professorship in heart disease. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the bio-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one-half of the State's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

As it meets the needs of present students, the University must also make plans for those of the future. The 47,534 students who enrolled at the University at the beginning of the 1968-1969 academic year represented nearly one-half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

THE 1967 LEGISLATURE granted the University \$110,893,275 for general operations and maintenance during the 1967-1969 biennium. In addition, the University received \$9,401,100 for University Hospitals; \$9,883,460 for special appropriations, including special extension and research activities; \$22,39,346 for new buildings, land, and the rehabilitation of existing buildings and \$955,000 for the University of Minnesota Technical Institute, Crookston.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request, as is a much more comprehensive and complete statement for those who wish to make a special study of the University's income and expenditures.

The summary financial statement of 1967-1968 showed that the University's current income amounted to \$196,515,675.43. Of the total received, \$17,146,177.31 came from student tuition and fees; \$30,280,089.30 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts and the sale of bulletins and agricultural products; \$1,669,798.78 from intercollegiate athletics; \$27,376,182.44 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$9,847,348.82 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, and scholarships. Also \$47,079,539.59 came from the federal government for instruction, research, and agricultural extension. The State provided \$63,116,539.19 or 32.1 percent of the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$21,486,114.

COMMENCEMENT marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund, administered in the Alumni Office in Coffman Memorial Union, and the

Special Projects Program, which includes scholarships, medical and technological research, and college service funds, administered by the Department of University Relations, Morrill Hall.

Alumni, their families, and their friends are always welcome here. The University hopes they will return frequently to visit the campus and to renew cherished ties.

# Order of Events

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Twin Cities Campus of the University this evening from 6:45 to 7:15 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Miss Janet Orjala, College of Liberal Arts '70, University Carillonneur. Admission to the December Commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

**THE COMMENCEMENT ON TELEVISION:** The entire Commencement this evening is being televised, live, through the cooperation of the Minnesota Educational Television Network, and will be seen in the Twin Cities area over KTCA-TV, Channel 2; in the Duluth area over WDSE-TV, Channel 8; in Morris and West Central Minnesota over KWCM-TV, Channel 10; and in the Fargo-Moorhead area over KFME-TV, Channel 13.

**ORGAN PRELUDE:** From 7:00 to 7:30 p.m., Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play.

**PROCESSION:** The audience is requested to remain seated so that all can see the procession. At 7:30 p.m., Professor Robert H. Beck, Ph.D., College of Education, Faculty Marshal, will carry the Mace into the Auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Beck as Mace-Bearer will present the Mace at the center of the stage. When all of those marching have taken their seats, he will put the Mace in its cradle to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

*Trumpet Voluntary* .....Purcell

**ON THE STAGE:** The curtain will be opened when the Mace-Bearer enters. Seated on the stage, from left to right, are Marshal Beck; Professor W. Edwin Emery, Ph.D., School of Journalism, Marshal; Assistant Recorder Charles F. Liesenfelt, M.A., Admissions and Records; Colonel William D. Beard, U.S.A., Professor of Military Science; The Reverend G. Russell Hatton, Th.M., Director of the University Episcopal Center; Professor Edward H. Cooper, LL.D., Law School; Assistant Dean Paul A. Cartwright, M.S., Institute of Technology; Assistant Dean Jack C. Merwin, Ph.D., College of Education; Assistant Dean Frank T. Benson, Ph.D., University College; The Honorable Harry B. Hall, M.D., Regent of the University of Minnesota; Associate Dean Francis M. Boddy, Ph.D., Graduate School; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; The Honorable Elmer L. Andersen, Regent of the University of Minnesota; Vice President Donald K. Smith, Ph.D., Administration; The Honorable George W. Rauenhorst, Regent of the University of Minnesota; Vice President Paul H. Cashman, Ph.D., Student Affairs; Ambassador James Russell Wiggins, LL.D., Permanent Representative of the United States to the

United Nations; President Malcolm Moos, Ph.D., University of Minnesota; Vice President William G. Shepherd, Ph.D., Academic Administration; The Honorable Herb L. Huffington, M.D., Regent of the University of Minnesota; Vice President Stanley J. Wenberg, LL.D., Educational Relationships and Developments; Mr. Edwin Haislet, Ph.D., Director of Alumni Relations; The Honorable Lester A. Malkerson, Regent of the University of Minnesota; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Alfred L. Vaughn, Ph.D., General College; Assistant Dean Norman S. Kerr, Ph.D., College of Biological Sciences; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Professor Frank H. Kaufert, Ph.D., College of Agriculture, Forestry, and Home Economics; Dean Lawrence C. Weaver, Ph.D., College of Pharmacy; Captain W. T. Broughton, U.S.N., Professor of Naval Science; Major John C. Gill, U.S.A.F., Professor of Aerospace Studies; Professor Arnold F. Caswell, Ph.D., College of Liberal Arts; Associate Professor Ramon M. Fusaro, M.D., Ph.D., College of Medical Sciences, Marshal; Professor Nelson T. Spratt, Ph.D., College of Biological Sciences, Marshal.

**PRESENTATION OF COLORS:** As the color guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, enters the Auditorium, the audience will rise and will remain standing for the National Anthem and for the Invocation.

**THE NATIONAL ANTHEM:** The entire audience and Professor Caswell.

O, say! can you see, by the dawn's early light,  
What so proudly we hail'd at the twilight's last gleaming,  
Whose broad stripes and bright stars, thro' the perilous fight,  
O'er the ramparts we watch'd were so gallantly streaming?  
And the rockets' red glare, the bombs bursting in air,  
Gave proof thro' the night that our flag was still there.  
O, say, does that star-spangled banner yet wave  
O'er the land of the free and the home of the brave?

**INVOCATION:** Father Hatton.

**SPEAKING FOR THE UNIVERSITY:** President Moos.

**COMMENCEMENT ADDRESS:** Ambassador Wiggins.

**CONFERRING OF ROTC CERTIFICATES:** Vice President Shepherd will introduce Colonel Beard, Captain Broughton, and Major Gill, who will present candidates for commissions in their respective services. Letters of ROTC completion will be presented by President Moos.

**PRESENTATION OF CANDIDATES:** Vice President Shepherd will introduce the deans of the several colleges or their representatives who will present to President Moos the candidates for certificates and degrees. They are, in order of their introduction, Dean Vaughn for the General College; Dean E. W.

Ziebarth for the College of Liberal Arts; Assistant Dean Benson for the University College; Assistant Dean Kerr for the College of Biological Sciences; Assistant Dean Cartwright for the Institute of Technology; Professor Kaufert for the College of Agriculture, Forestry, and Home Economics; Assistant Dean Merwin for the College of Education; Dean Grambsch for the School of Business Administration; Dean Weaver for the College of Pharmacy; Professor Cooper for the Law School; Dean Howard for the College of Medical Sciences; and Associate Dean Boddy for the Graduate School.

**CONFERRING OF DEGREES:** President Moos will confer certificates and degrees upon the members of this graduating class.

**SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION:** Mr. Haislet.

**PRESENTATION OF DIPLOMAS:** With Vice President Cashman presiding, members of the December graduating class will pass across the stage to receive their diplomas.

**CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY:** President Moos will confer the degrees upon the candidates. As each new Doctor of Philosophy is invested with his academic hood, he will be presented individually by Associate Dean Boddy.

**HAIL! MINNESOTA:** The University's Alma Mater song, sung by the audience and Professor Caswell, soloist.

Minnesota, hail to thee!	Like the stream that bends to sea,
Hail to thee, our college dear!	Like the pine that seeks the blue,
Thy light shall ever be	Minnesota, still for thee
A beacon bright and clear;	Thy sons are strong and true;
Thy sons and daughters true	From thy woods and waters fair,
Will proclaim thee near and far;	From thy prairies waving far,
They will guard thy fame	At thy call they throng
And adore thy name;	With their shout and song,
Thou shalt be their Northern Star.	Hailing thee their Northern Star.

**POSTLUDE:** Professor Fleischer, organist.

*Fugue in E Flat* .....Bach

**THE AUDIENCE** is requested to remain seated until those in academic costume have left the Auditorium.

(Immediately following these exercises, all members of the audience are invited to attend the President's Reception which is described on the back cover of this program.)

# *Candidates for Commissions*

Subject to the completion of all curriculum requirements at the close of the fall quarter, commissions will be presented to those listed below and to such others as may meet the requirements for the Reserve Officers in the Armed Services.

## **DEPARTMENT OF MILITARY SCIENCE**

### **Second Lieutenant, Adjutant General Corps**

Randall T. Johnson, Minneapolis

### **Second Lieutenant, Armor**

Robert C. Brown, Appleton  
Bernard C. Cullen, Minneapolis

Raymond B. Harris, Sioux Falls, S.D.

### **Second Lieutenant, Artillery**

Phillip W. Ricker, St. Paul

### **Second Lieutenant, Corps of Engineers**

Thomas E. Walsh, Minneapolis

### **Second Lieutenant, Signal Corps**

Thomas L. Audette, Minneapolis  
Gregory W. Carlin, Minneapolis

Norbert L. Johnson, Minneapolis

### **Second Lieutenant, Transportation Corps**

Gary W. Erickson, Lakeville

Robert W. Wentz, Woodruff, Wis.

## **DEPARTMENT OF NAVAL SCIENCE**

### **Ensign, USN**

Harry F. O'Neil, Jr., Walker

Raymond D. Vining, Grandview,  
Wash.



## **Ensign, USNR**

Brian N. Borg, Minneapolis  
Robert J. Finnerty, Minneapolis

Peter F. Stenberg, Minneapolis

## **Ensign, SC, USNR**

Edwin A. Ruotsinoja, St. Louis Park  
Bruce A. Suneson, St. Paul

Raymond F. Wirz, Osseo

## **Second Lieutenant, USMCR**

Thomas D. Semotuk, Minneapolis

# **DEPARTMENT OF AEROSPACE STUDIES**

## **Second Lieutenant, USAF Reserve**

Jerald R. Fisher, Luverne  
Kenneth A. Franz, Minneapolis  
Ralph P. Fravel, Minneapolis  
Peter W. Giedras, Minneapolis  
Dennis D. Goehring, Glencoe  
Keith D. Hovland, Bricelyn

John W. Kiland, Orr  
Terry V. Luettinger, Richfield  
Michael F. Marquardt, Wabasha  
James M. Schwab, Janesville  
Roger L. Sorensen, St. Paul

# Candidates for Graduation

Subject to the completion of all curriculum requirements at the close of fall quarter, degrees will be conferred as indicated on those listed below and upon such others as may meet the graduation requirements.

## GENERAL EXTENSION DIVISION

### Business Administration Certificate

Darrell Willard Hammond, Minneapolis

### Associate in Mortuary Science

James Dillon Hamilton, Marshalltown, Iowa

Kathleen Ann Koepp, Boyd  
William Greer Zajicek, Wilber, Neb.

## GENERAL COLLEGE

### Associate in Arts

Richard J. Abdo, Minneapolis  
Tary Jane Adams, Edina  
Larry Lee Allen, Bloomington  
Alan Ray Anderson, Robbinsdale  
Carol Marie Anderson, Richfield  
Dennis Alan Anderson, Minneapolis  
Kurt Douglas Anderson, West  
St. Paul  
Robin Larry Anderson, Minneapolis  
Donald Gregory Arenson, Edina  
David Lance Arneson, St. Paul  
Joyce Ann Barrett, Minneapolis  
David John Bartosh, Minneapolis  
Richard Edward Berg, Minneapolis  
Deborah Ruth Bernath, St. Paul  
Arthur Clifton Beseman, St. Paul  
Mark Gregory Best, St. Louis Park  
Thomas Richard Biernat, Minneapolis  
Gary E. Biron, St. Paul  
John Thornton Bolke, St. Paul  
Edwin I. Brody, St. Paul  
Dennis Arnold Bronson, Minneapolis

Alyce Sue Brown, St. Louis Park  
Harvey Leonard Buron, St. Paul  
Darlene Mae Caldwell, St. Paul  
James G. Campbell, Champlin  
John Richard Cardwell, Minnetonka  
Renee Loretta Carlson, Minneapolis  
Richard John Carlson, Minneapolis  
Michael Charles Chickett, St. Paul  
Myrna Imogene Clary, Kokomo, Ind.  
Kenneth Louis Clausen, Minneapolis  
Donald Anthony Critelli, Minneapolis  
James Michael Cullen, St. Paul  
Arlan Clinton Dalager, Minneapolis  
Steven Allen Davis, Hopkins  
Lyndon W. Dean, Minneapolis  
James Raymond Denham, Hopkins  
Peter N. Dicarolo, Minneapolis  
Douglas Edward Dorfner, Minneapolis  
Michael Dennis Downey, Minneapolis  
Richard Martin Duda, St. Paul  
William Joel Eigen, Minneapolis

Lawrence Cooper Fahey, St. Paul  
 James Burness Fairweather III,  
 Minneapolis  
 Daniel Michael Favreau, Minneapolis  
 Dennis Anthony Felicetta, Minne-  
 apolis  
 Steven Michael Ferree, Minneapolis  
 Barbara Jean Ferris, Minneapolis  
 Donald John Fiers, Richfield  
 Barbara Ann Fischer, Minneapolis  
 Patrick James Fitzgerald, Richfield  
 Richard Lawrence Fitzmorris, St. Paul  
 Frank David FitzPatrick, St. Paul  
 Bruce Wayne Forbes, Minneapolis  
 Harley Arthur Forest, Minneapolis  
 Thomas Mather Garland, Minnetonka  
 Fredrick William Gellerman, Jr.,  
 Minneapolis  
 Bruce Thomas Gilbertson, Minne-  
 apolis  
 Ronald Bruce Glander, Minneapolis  
 Jeffrey Robert Goldberg, St. Paul  
 Gregory Thomas Goodlund, Minne-  
 apolis  
 Janice Mae Gottschalk, Edina  
 Gerald Irwin Gould, St. Paul  
 Ronald R. Gravley, Fridley  
 Marcia Irene Green, Young America  
 Marcus William Groenke, Minne-  
 apolis  
 Byron Walter Gustafson, Edina  
 Linda Mae Hansen, St. Paul  
 Joan Gloria Hanson, Minneapolis  
 Gerald Joseph Harnden, St. Paul  
 Thomas Joseph Hart, Minneapolis  
 Kathryn Louise Hegman, Excelsior  
 Michael Carl Hennessy, Excelsior  
 Jonathan Andrew Herseth, Minne-  
 apolis  
 Ellyn Joyce Herstein, Minneapolis  
 Lester John Hogetvedt, Minneapolis  
 James Edward Hogin, Richfield  
 Jeanne Noreen Hokans, Minneapolis  
 Thomas Richard Holloway, Richfield  
 John Stanton Holmberg, Minnetonka  
 Leo Horishnyk, Minneapolis  
 Frederick Edwin Husom, Minneapolis  
 David Charles Jackson, Minneapolis  
 William Isaac Jaffa, St. Louis Park  
 Michael Julius Janisch, St. Paul  
 William David Janohosky, Minne-  
 apolis  
 David Sheldon Johnson, South  
 St. Paul  
 Gary H. Johnson, Braham  
 Kirk Harley Johnson, Minneapolis  
 Linda Kay Johnson, Minneapolis  
 Sally Alden Jones, Minneapolis  
 Deborah Lee Kanne, Minneapolis  
 Alan James Kapsch, Minneapolis  
 Christopher John Kastl, Minneapolis  
 Sandra Joy Kay, Minneapolis  
 Kathleen Therese Kelly, Minneapolis  
 Charles William Ketcham, St. Paul  
 Nayyar Rafi Khan, Minneapolis  
 Loretta Marie Klatt, Minneapolis  
 Fred Knotek, Minneapolis  
 Donald Severin Knutson, Minneapolis  
 James Lawrence Kolar, St. Paul  
 Jean Margaret Kunze, St. Paul  
 Kenneth Roland Lang, Minneapolis  
 Brett Harvey Larson, St. Paul  
 Melinda Patricia Leahy, St. Paul  
 William Charles LeDuc, St. Paul  
 Barbara Ann Lee, Golden Valley  
 Larry Dewayne Markes, Richfield  
 Jack Allen Martin, Minneapolis  
 John Clyde McCall, Minneapolis  
 Jerrilyn Satrang Mathisrud, Minne-  
 apolis  
 Robert Glenn McCall, Jr., St. Louis  
 Park  
 Gary Richard McGulpin, Bloomington  
 Jamielle McKusick, Minneapolis  
 Terrence Mestnik, St. Paul  
 John Milton Meyer, St. Paul  
 Michelle Hope Meyer, St. Louis Park  
 Roger David Meyer, Coon Rapids  
 Joanne Prass Miller, Minneapolis  
 Robert Alan Miller, West St. Paul  
 Stephen Alan Miller, Minneapolis  
 Steven James Miller, Excelsior  
 Lucy Antoinette Miszkiewicz, Minne-  
 apolis  
 Donis Kay Mohrbacher, Minneapolis  
 John Stanley Mrozek, Minneapolis  
 Christian Homer Mulkey, Jr., St. Paul  
 Fredrick Theodore Munson, St. Paul  
 Nancy Jo Naumann, West St. Paul  
 Aleta Marie Needham, St. Paul

Daniel Floyd Nelson, Minneapolis  
 Loyal Dean Nelson, Minneapolis  
 Richard Norman Newstrom, Minneapolis  
 Carl Edward Nordberg, Minneapolis  
 Eugene Floyd Olesen, St. Paul  
 David John Olson, Minneapolis  
 Lawrence Skinner Olson, Minneapolis  
 Michael Richard Olson, St. Paul  
 Lorie Ann Ostlund, Minneapolis  
 Susan Jane Ostlund, Minneapolis  
 Lynette Susan Paulson, Minneapolis  
 David Arthur Pedersen, Minneapolis  
 Elwood Christian Pedersen, Minneapolis  
 Arlan Harry Peissig, Minneapolis  
 Jackquiline Marie Perry, Minneapolis  
 Margaret Susan Petersen, Minneapolis  
 Steven Russell Peterson, Minneapolis  
 Darlene Mae Petri, Minneapolis  
 Carl Eugene Piper, South St. Paul  
 Roger Henry Pokorny, Hopkins  
 Ronald Albert Purdes, Minneapolis  
 Orlin Edwin Quast, Green Isle  
 Carolyn Joan Reuter, Excelsior  
 John Walter Rihm, St. Paul  
 Steven James Rosenow, Minneapolis  
 Joan Marie Rosner, St. Paul  
 Richard Joseph Ryan, St. Paul  
 Merry Gail Sborov, Edina  
 Steven Dale Sborov, Edina  
 James E. Scanlon, Bloomington  
 Richard Byron Sharpe, Roseville  
 Theresa Rose Shea, Minneapolis  
 Susan Ann Shilkrou, Minneapolis  
 Douglas L. Shortley, Mound  
 Stephen Douglas Silus, Mound  
 Steven Earl Silverlieb, St. Louis Park  
 David James Simondet, Minneapolis  
 Gordon Howard Sironen, Minneapolis  
 Marianne Sironen, Minneapolis  
 Sandra Lee Sivanich, Edina  
 Jean Leslie Smetana, Hopkins  
 Richard Alan Soderberg, Minneapolis  
 Arnis Solovjovs, Minneapolis  
 Richard Norman Spada, Minneapolis  
 Lawrence William Spivak, Minneapolis  
 Brenda Joyce Square, St. Paul  
 Michael Stephan Staber, Edina  
 Ernest Dale Stanley, Richfield  
 Gregory John Steele, St. Paul  
 David Philip Strand, Minneapolis  
 Bradley William Struve, St. Paul  
 Michael Mark Stulberg, St. Paul  
 Robert Nolan Swangstue, Jr., Rosemount  
 Gary Allen Swartz, St. Paul  
 Michele Elyse Taly, Minneapolis  
 Clayton Herman Tanner, St. Paul  
 Daniel Taragos, Minneapolis  
 Donald Taragos, Richfield  
 Thomas Taragos, Minneapolis  
 Keith Burton Thomas, Minneapolis  
 Donald Thomas Trueman, Hopkins  
 James Carl Ungerman, Eden Prairie  
 Craig Sheldon Vick, Richfield  
 Barton John Warren, Jr., Minneapolis  
 Cynthia Ann Watzl, Minneapolis  
 Thomas Dean Webb, Bloomington  
 Claudia Jean Weibel, Hopkins  
 Dean Alden Weigel, Minneapolis  
 Alan Jerome Weintraub, Providence, R.I.  
 Mark Gregory Weiss, St. Paul  
 Alan K. Welch, Minneapolis  
 Robert Glendon Westberg, Minneapolis  
 Barbara Anne White, Minneapolis  
 Robert James Whitcraft, Minneapolis  
 Charles David Willett, St. Paul  
 Bruce Harley Wishart, Minneapolis  
 Frederick William Wittich, Jr., Minneapolis  
 Lawrence Earl Witz, Columbia Heights  
 Eugene John Zgutowicz, Minneapolis  
 Raymond John Ziegler, Superior, Wis.  
 Dale Stuart Zimmerman, St. Louis Park

# COLLEGE OF LIBERAL ARTS

## Associate in Liberal Arts

Julie Ann Archer, Minneapolis  
Michael Bruce Ayers, Minneapolis  
Darlene Mary Belisle, Fridley  
Kenneth Louis Berger, St. Paul  
Ruth Marion Boesel, Roseville  
Judith Marie Ferguson, Minneapolis  
Robert Joseph Freischel, St. Paul  
Steven John Frykman, Bloomington  
Holly Lynn Highfield, Edina  
Ralph Chase Hurlbutt, Minneapolis

Robert Francis Johansson, Randolph  
Delbert Lawrence Jones, St. Paul Park  
Doris Ann Kammerer, St. Paul  
Stella Mary Krawczyk, Minneapolis  
Lindsay JoAnne Lec, Minneapolis  
Peter Edward Mazurko, Minneapolis  
Elliot Lewis Miller, St. Louis Park  
John Frederick Nelson, Bloomington  
Richard Harold Pearson, Robbinsdale  
Gail Ann Scheir Thoen, Minneapolis

## Bachelor of Arts

*Honors citations are provisional and will not become final until all requirements are met for the level indicated.*

Susan Abdallah, Minneapolis  
Lois Louise Pazandak Abraham,  
Minneapolis  
William Marshall Adams, Santa  
Monica, Calif.  
Maxine Ellen Amundson, Minne-  
apolis  
Darelyn Rae Anderson, St. Cloud  
Janice Dorothy Anderson, Litchfield  
Jill Diane Anderson, Bangkok, Thai-  
land  
Linda Gayle Anderson, Minneapolis  
Robert Vernon Anderson, St. Paul  
Corby De Roe Arnold, West Chicago,  
Ill.  
Annalee Aton, Minneapolis  
Bruce Ernest Bailey, Minneapolis  
Yana Ann Bariss, Minneapolis  
John Raymond Baumgart, Owatonna  
Mark Everett Beckman, St. Paul  
Barry Thomas Benjamin, St. Louis  
Park  
*Cara Louise Benson, Robbinsdale,*  
*MAGNA CUM LAUDE, Journalism*  
Daniel Joseph Berens, Rochester  
Donan Berg, Lafayette  
Walter George Berglund, Minneapolis  
William Wearne Bertram, Minne-  
apolis  
Toba Rochelle Beugen, Minneapolis

Nancy Louise Bierbaum, Hopkins  
Michael Terrance Bjork, Minneapolis  
Rowland Sumsion Blake, St. Paul,  
*SUMMA CUM LAUDE, Japanese*  
Karen Jeanne Blanchard, Minnetonka  
Karen Gayle Liss Blumenthal,  
Minneapolis  
James William Bly, Minneapolis  
James Allen Breitwieser, Walker  
John Elliott Bridgman, Edina  
Nancy L. Brierley, White Bear Lake  
Linda Kathryn Brokl, Hopkins  
Barbara Nicolette Brown, Minne-  
apolis  
Rosanne Margaret Burnham, St. Paul  
Gregory Ward Carlin, Minneapolis  
Robert Richard Carlson, Minneapolis  
Nancy Patricia Hannahan Clark,  
St. Paul  
Maureen Patterson Cloutier, Minne-  
apolis  
Carol Jean Colby, A.A., Minneapolis  
*Terence George Collins, Minneapolis,*  
*SUMMA CUM LAUDE, English*  
Bernard Myles Cullen, Minneapolis  
Cecilia Helen Dahl, A.A., Eden  
Prairie  
Earl Darrold Dannen, Sacred Heart  
Michael Jeffrey Debelak, Minneapolis  
Donna Jeanne Demler, Hopkins

Sally Marie DeVore, Excelsior  
 Donna Elaine Dille, Litchfield  
 Nikki Lea Di Vette, Hopkins  
 Robert Joseph Doll, Perham  
 Ronald Russell Duncan, Stillwater  
 James Charles Eck, St. Paul  
 Mary Margaret Ecklund, Excelsior  
 Linda Renate Eglite, Edina  
 John Olaf Eikeland, A.A., St. Paul  
 Stephen Arthur Else, Hopkins  
 Clifford Warren Emery, Burnsville  
 Daniel Brian Erickson, Minneapolis  
 Gary William Erickson, Lakeville  
 Sharon Leigh Erickson, Minnetonka  
 John Richard Estes, Jr., Park Ridge,  
 Ill.  
*Vicki Lynn Fagre, New Brighton,*  
 MAGNA CUM LAUDE, German  
 Robert Victor Fahnhorst, Minne-  
 apolis  
 Jane Gale Falk, Minneapolis  
 James Donald Faust, St. Paul  
 Sharon Faye Fidell, St. Paul  
 Robert James Finnerty, Minneapolis  
 Ricki Ann Fischbein, Minneapolis  
 Paul Jay Ford, A.A., White Bear Lake  
 Colleen Marie Fox, Minneapolis  
 William Frank Frenzel, Hopkins  
 Joan Emily Frishberg, St. Paul  
 Timothy Austin Frisk, Minneapolis  
 Gary Allan Gambucci, Hopkins  
 George G. Garrelts, Minneapolis  
 Katherine Rene Gaspard, Minneapolis  
 Thomas Frederick Gerber, Plainview  
 Peter William Giedras, Minneapolis  
 James Hill Gislason, A.A., New Ulm  
 Donna Gene Goehle, Luverne  
 Charlene Alpert Goldfarb, Minne-  
 apolis  
 Mary Lou Cawley Goodrich, Waseca  
 Patricia Frey Goodwin, St. Anthony  
 Alan Bruce Graham, Hastings-on-  
 Hudson, N.Y.  
 Virginia Ann Grandin, Minneapolis  
 Evelyn Florence Pearson Grussing,  
 Minneapolis  
 John Vincent Guarnera, Mahtomedi  
 Susan Marie Gustafson, A.A.,  
 Worthington  
 Linda Kay Guttormson Rosenquist,  
 Willmar

Curtis Dean Hagen, Minneapolis  
 Margaret Alice Hall, Minneapolis  
 Brenda Louise Hamlin, Moose Lake  
 Martha Lynn Hargens, St. Paul,  
 SUMMA CUM LAUDE, Psychology  
 Robert Ernest Harrell, Wayzata  
 Donald Wilson Hastings, Jr., Minne-  
 apolis  
 Gloria Jean Hastings, Minneapolis  
 John Harold Hastings, A.A., Austin  
 Theodore T. Haugen, Jasper  
 Russell Allan Havir, Minneapolis  
 Mary Elizabeth Hayden, Shakopee  
 Charlene Ann Haynes, Duluth  
 Charlotte Susan Hedke, Minneapolis  
 George Patrick Helberg, Minneapolis  
 Michael John Hennessey, St. Paul  
 Douglas Lynn Hobbs, St. Paul  
 Charlaïne Evelyn Tolkien Hobson,  
 Bloomington  
 Frederick Charles Hoff, West St. Paul  
 Jack Edward Hokenstrom, Minne-  
 apolis  
 Selma Louise Moeding Holm, Pine  
 City  
 Jeffrey Joseph Holtmeier, Minneapolis  
 Richard Brian Hoppe, Minneapolis  
 Ann Marie Hoven, Owatonna, MAGNA  
 CUM LAUDE, Psychology  
 Keith Donald Hovland, Bricelyn  
 Frederic Brackin Howard, New  
 Brighton  
 Eldridge Elliot Howell, Minneapolis  
 Thomas David Hurwitz, St. Paul,  
 CUM LAUDE, Humanities  
 Sharon Kay Huso, A.A., Minneapolis  
 Linda Louise Janousek, St. Paul  
 Barbara Boo Johnson, Minneapolis,  
 CUM LAUDE, English  
 Erna Maxine Johnson, Windom  
 Jennifer Ann Johnson, Minneapolis  
 Kenneth John Johnson, Minneapolis  
 Randall Todd Johnson, Minneapolis  
 Richard Alan Johnson, St. Paul,  
 CUM LAUDE, History  
 Richard Harry Johnson, Anoka  
 Romelle Margaret Johnson, New  
 Brighton  
 Nicholas John Jollymore, Cloquet,  
 CUM LAUDE, English

William Endicott Jordan, White Bear Lake

James Robert Kane, Sheboygan, Wis.

Doris Unger Karasov, St. Paul

Penelope Ann Mensing Kennedy, Bloomington

Shelby Brant Kerns, Spring Valley

Erik John Kleven, Eau Claire, Wis.

James Erwin Kmetz, Minneapolis

Morris Allen Knutsen, Edina

Frank John Koenen, St. Paul

Thomas John Krausert, Minneapolis

Sharon Lou Lage, Pelican Rapids

James David Landes, Edina

James John Lang, Albany

Dale Arvo Lapakko, St. Louis Park

John Michael LaRoche, Minnetonka

Karen Marie Larson, St. Paul

Lynn Bertine Larson, A.L.A., St. Paul

Richard Dale Larson, Tracy

Janet Laughlin, Glen Ellyn, Ill.

Thomas Daniel Lawson, A.A., Minneapolis

Dennis John Lee, Minneapolis

Jo Ellen Erwin Legendre, Minneapolis

Bruce Lester Lehan, Minneapolis

Gary William Leier, St. Paul

Julie Ann Leitzen, A.A., Rochester

Robert Frank Lewis, Mankato

Judy Lee Lindroth, Robbinsdale

Thomas Neil Lindstrom, Coon Rapids

Karl Edward Lofgren, Rochester

Terry Vaughn Luettinger, Richfield

Michael Eugene Luger, St. Paul

Margaret Ann Lussky, Pittsburgh, Pa.

Thomas Joseph Lutz, Sheboygan, Wis.

Stuart Earl MacDonald, Richfield

Diedre Kathleen Mair, Rochester

Thomas A. Manion, Minneapolis, *MAGNA CUM LAUDE, Psychology*

William Matthew Matulaitis, Minneapolis, *MAGNA CUM LAUDE, Psychology*

Gary Wayne McCarthy, Waseca

Kathleen Ellen McLaughlin, Minneapolis

Michael Barcroft Medland, Minneapolis

Shirley Jane Duke Mickey, Minneapolis

Joseph Peter Moritz, St. Paul

Claudia Jane Morner, Minneapolis

Gary Charles Morrison, Edina

Thomas Allan Mortl, Minneapolis

Anne Mulholland, Minneapolis

Marilyn J. O. Muller, Minneapolis, *MAGNA CUM LAUDE, Spanish*

Bruce Dodge Mulvaney, Minneapolis

Patrick Gregory Munt, Thief River Falls

John Eaton Naughton, St. Paul

Charlotte Ruby Nelson, Nashwauk

Frances Lynn Nelson, St. Paul

Stephen F. Nelson, A.A., Albert Lea

William Crew Nelson, Minneapolis

William Michael Newfield, Minneapolis

Dennis Harold Nielsen, St. Paul

Joel Helen Nord, St. Louis Park

Judith Louisa Norman, Minneapolis

Rodney Daniel Oas, St. Louis Park

John Arthur Oehlke, Neenah, Wis.

John Douglas Offerman, Minneapolis

Robert Earl Oftos, Minneapolis

John Timothy Olson, St. Paul

Katherine Anne Omlie, Wayzata

Stephen Adrian Ordahl, New Brighton

Gary James Osland, Austin

Gregory Andrew Palfe, St. Paul

David Hadley Palmer, Blackduck, *SUMMA CUM LAUDE, Premedicine*

Deana Jane Papra, Minneapolis

Darlene Margaret Parkey, Minneapolis

Shirley Mae Peshina, Minneapolis

Gary Allan Peterson, Minneapolis

Jacqueline Lee Peterson, Winona

Dale Patryce Phillips, Edina

William Joseph Podany, Minneapolis

Sandra Luella Powers, Minneapolis

Barbara Ruth Prestly, Edina

Robert Walter Pries, Oconto, Wis.

John Joseph Pruyon, Mound

Randolph Barton Rajala, Bigfork

James Lloyd Ramstrom, St. Paul

Douglas John Reans, Bloomington

Ronald Gene Reed, Franklin, Ind.

Paul Thomas Reinsma, A.A., Slayton

Richard Steven Riger, Minneapolis

Thomas Ronald Rochat, Minneapolis  
 Paul John Rosenau, Minneapolis  
 Nathan Allen Rosenbaum, St. Paul  
 Willis Harold Runck, New Ulm  
 Jola Margaret Rykkeli, Robbinsdale  
 Jon Cremer Scheurer, Minneapolis  
 Mary Karlene Schloendorf, Benson  
 Elizabeth Ann Scholer, New Brighton  
 David Robert Schuh, Bloomington  
 Harold Edward Schuh, Jr., Minneapolis  
 Darryl Patrick Sedio, Minneapolis,  
 CUM LAUDE, *Psychology*  
 Thomas Daniel Semotuk, Columbia  
 Heights  
 James Paul Senft, Stillwater  
 James Louis Sherohman, Columbia  
 Heights  
 Sara Helen Shokneth, Minneapolis  
 Wayne Thomas Sholl, Minneapolis  
 George William Sickler, Dunnell  
 Andrea Mae Sigal, St. Paul  
 Patrick Benedict Sinclair, Cold Spring  
 Daniel Eugene Singer, St. Paul  
 Michael Otto Sirovy, Jackson  
 Mark Allen Sjostrom, St. Louis Park  
 Larry Dennis Skalicky, Minnetonka  
 Linda Marie Skogrand, Montevideo  
 John Terry Sletten, Minneapolis  
 Marit Ragnhild Smaby, Minneapolis  
 Kenneth Bennett Smith, Aberdeen,  
 S.D.  
 Loren G. Smith, Minneapolis  
 Marlys Ann Stein, Minneapolis  
 Julie Ann Stenberg, Minneapolis, CUM  
 LAUDE, *Humanities*  
 Dana Marie St. George, Newport  
 Natalie Jane Elliott Stuart, Minne-  
 apolis  
 Thomas Lee Stuart II, Minneapolis  
 Sydney Lee Suttles, Mankato  
 Michael Philip Sutton, Minneapolis  
 Kenneth Dean Swanson, Forest Lake  
 Lyn Ellsworth Tangen, Redwood  
 Falls  
 Lowell Francis Thole, Excelsior  
 Robert Douglas Thomas, A.A.,  
 Worthington  
 Virginia Carole Thompson, Minne-  
 apolis  
 Mary Louise Schweikert Thorpe,  
 St. Paul  
 Jean Marie Fennie Tollison, Minne-  
 apolis  
 Douglas Raymond Town, Jr., Minne-  
 apolis  
 Douglas John Traeger, Rochester  
 Jacqueline Rhea Lenz Tweeton, A.A.,  
 Rochester  
 David Alvin Ulland, Austin  
 Linda Jean Blackorby Unruh, War-  
 road, CUM LAUDE, *English*  
 Richard Melvin Vanek, Hopkins  
 Roger Kenneth Vincent, A.A.,  
 Minneapolis  
 Joseph Raoul Vogel, Minneapolis  
 Stephen O'Brien Wagner, Dellwood  
 Jerome Valentine Wagnild, A.A.,  
 Minneapolis  
 Theresa Mary Waibel, Minneapolis  
 Ellen Grace Sheldon Walton, Minne-  
 apolis, SUMMA CUM LAUDE,  
*Sociology*  
 Charles Harlan Ward, Minneapolis  
 Mary Kay Pearson Watson, Detroit  
 Lakes  
 Beverly Helen Weinke, Minneapolis  
 Melanie Ann Weisskopf, Minneapolis  
 Paul Richard Welter, Bloomington  
 John Douglas Wenzel, Hopkins  
 William Thomas Wewerka, St. Paul  
 Richard Allen Wiberg, St. Paul  
 Allan Frederick Wichelman, Gibbon,  
 SUMMA CUM LAUDE, *Political  
 Science*  
 Harold James Wiegner, Mendota  
 Heights  
 Eugene John Wiley, A.A., Rochester  
 Mary Kim Williams, Oklahoma City,  
 Okla.  
 Alice Owen Wilson, Yellow Springs,  
 Ohio  
 Joel Laurie Wright, Moorhead  
 Jean Montello Wuori, Minneapolis  
 David George Yates, Minneapolis  
 William Peter Zuger, Bismarck, N.D.



# UNIVERSITY COLLEGE

## Bachelor of Arts

James David Madsen, Minneapolis

*Gene Marion Latta Slocum, White  
Bear Lake, CUM LAUDE*

## Bachelor of Science

Paul Christopher Stoddard, St. Paul

Dorris Lynne Taylor, Minneapolis

# COLLEGE OF BIOLOGICAL SCIENCES

## Bachelor of Science

Robert Francis Hobday, Minneapolis

# INSTITUTE OF TECHNOLOGY

## Certificate in Science

Jerry Dean Smrcka, Richfield

## Bachelor of Aeronautical Engineering

Jerald Ralph Fisher, Luverne  
Kenneth Albert Franz, Crystal  
James Norman Gehrking, Eau Claire,  
Wis.  
David Rolf Hertsgaard, St. Louis Park

Dale Mauris Johnson, Granite Falls  
*Ronald Allan Magnuson, Austin,  
WITH DISTINCTION*  
Michael Floyd Marquardt, Wabasha  
Richard John Pangell, Richfield

## Bachelor of Agricultural Engineering

Jerome Thorfin Paulson, Clitherall

## Bachelor of Architecture

William Marshall Adams, Santa  
Monica, Calif.  
Russell Norman Akre, Brainerd  
James Terrance Aitken, Minneapolis  
Elliot Maxwell Anderson, Worthing-  
ton

James William Cox, Cedar  
Allen Floyd Flanders, Hopkins  
Dates Feathertson Fryberger, B.A.,  
Duluth  
Kenneth Edwin Grabow, Minnetonka  
Keith Gordon Johnson, B.A., Duluth

Phillip Douglas Johnson, Minneapolis  
Darrel Lee LeBarron, Austin  
Robert Stone Nist, Minneapolis  
Lawrence James Seiberlich, B.A., New  
Brighton

Juan Karsten Stoleson, Minneapolis  
James Marvin Waite, Winona  
James Edwin Whipkey, B.A.,  
Worthington

### **Bachelor of Chemical Engineering**

Robert Henry Borgen, A.A., Chatfield  
Tom Paul Dennison, Minneapolis

Harry Francis O'Neil, Jr., Walker

### **Bachelor of Chemistry**

Hubert Earl Boyd, Jr., Minneapolis  
David Wayne Hegdahl, Bloomington

Thomas Marvin Miller, Lakeland

### **Bachelor of Civil Engineering**

Richard Edmund Ackerson, Edina  
Dennis Laurence Erickson, Minne-  
apolis  
*Paul Austin Fredrickson, Minneapolis,*  
WITH DISTINCTION  
Bruce William Grivna, Crystal  
Robert Jan Hall, Granada, WITH  
DISTINCTION  
Marlin Douglas Larsen, Bellingham  
John Robert Madden, Minneapolis

Thomas Peter McAloon, Minneapolis  
*David Michael Rossman, B.A.,*  
ORONO, WITH DISTINCTION  
Michael Timothy Sheehan, Rochester  
Norman Dale Wagner, Claremont  
Thomas Edward Walsh, Richfield  
Douglas Frederick Watson, Edina,  
WITH DISTINCTION  
Vold David Welch, Minneapolis

### **Bachelor of Electrical Engineering**

Voigt Ogden Lenmark, Jr., Minne-  
apolis  
John Corneileus Mahoney, Belle  
Plaine  
David Monroe Quiggle, Sauk Rapids

Bohdan Romanenko, Minneapolis  
Richard James Schafer, St. Paul  
Richard Philip Schmidt, Minneapolis  
Michael Roth Thomes, Richfield

### **Bachelor of Mathematics**

Ronald James Ewing, Thief River  
Falls  
Jim Bob Haemer, Owen, Wis.

Charles Lowell Hutchings, Austin  
Martin Jay Mykkanen, St. Paul

### **Bachelor of Mechanical Engineering**

Alvin Henry Berger, Dent  
Jerome Richard Cichosz, Winona  
Eugene Durkin Coffman, Minneapolis

James Dutton Crowley, St. Paul  
Michael John Dahlen, A.A., Willmar  
Larry Dean Halsne, Lake Benton

Richard Charles Hansen, Duluth  
David Dwight Holtzman, Minnetonka  
Michael David Irwin, Crystal, WITH  
DISTINCTION  
Bruce F. Jagunich, Eveleth  
John William Kiland, Orr  
Chung Shik Kim, B.S., Seoul, Korea  
Daniel Joseph Kraus, Osseo  
Dale F. Lucken, Fosston  
William Bernard McKusky, Hibbing  
Keith Dale Nelson, St. Paul

John Frederick Nylund, Cook  
Harold Omar Osmundson, Averill,  
WITH DISTINCTION  
David Robert Scott, Maple Lake  
Terry Alan Sonnack, New Brighton  
David Roland Swanberg, Clarissa  
Kendall Roger Swenson, St. Hilaire  
Wayne Michael Wellik, A.A., Grand  
Meadow  
Gary Louis Wohlers, Brownsville

### **Bachelor of Physics**

Brian Nicholas Borg, Minneapolis  
Randall Rillmon Gawtry, Interna-  
tional Falls

George Demetrius Jelatis, Red Wing  
Norbert Lee Johnson, Minneapolis  
Stephen Lindfors, Minneapolis

### **Bachelor of Science in Geology**

David Roy Shaddrick, Richfield

### **Bachelor of Science in Geophysics**

Roger Lee Sorensen, St. Paul

## **COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE**

### **Bachelor of Science**

Lyle Gerald Amundson, Goodhue,  
Agriculture  
Marta Lena Andersson, Karlskoga,  
Sweden, Home Economics  
Robert Roy Arntzen, St. Paul Park,  
Agriculture  
Donald Warren Aurand, A.A., Lewis-  
town, Pa., Forestry  
William Harold Barnacle, A.A., Lake  
City, Forestry  
Carson Charles Berglund, A.A., Deer  
River, Forestry  
Leo James Breyen, Minneapolis,  
Agriculture

Robert Charles Brown, Appleton,  
Agriculture  
Janice Marie Brusewitz, Clearbrook,  
Home Economics  
Gayle Marie Callstrom, Cannon Falls,  
Home Economics  
Keith Alan Christensen, Lambertton,  
Agriculture  
Dennis Paul Cooper, Edina, Agri-  
culture  
Jacqueline Ruth Cope, Minneapolis,  
Home Economics  
Bonnie Ann Crist, Edina, Home  
Economics

Brian James Dailey, Richfield, Forestry  
 James Robert Dale, A.A., Fertile,  
 Agriculture  
 Gary Wayne Davis, Bloomington,  
 Forestry  
 Dale Raymond DeGroot, West Allis,  
 Wis., Forestry  
 Gerald Thomas Dowell, Burtrum,  
 Forestry  
 Jerome Allen Draheim, Olivia, Home  
 Economics  
 Gary John Eisenmenger, Amboy,  
 Agriculture  
 Dennis Earl Engvall, Elk River,  
 Agriculture  
 John Edward Galstad, Currie, Agricul-  
 ture, WITH DISTINCTION  
 William Clayton Gluth, Morgan,  
 Agriculture  
 Lynn Ellen Grimm, Minneapolis,  
 Home Economics  
 David John Granlund, Cromwell,  
 Agriculture  
 Naomi Lee Haseleu, Springfield,  
 Home Economics  
 David Reuben Hoffmann, Renville,  
 Agriculture  
 Wayne Robert Jex, Richfield,  
 Forestry, WITH DISTINCTION  
 Walter Everett Johnson, Jr.,  
 Courtenay, N.D., Agriculture  
 Calvin Lloyd Kerr, Robbinsdale,  
 Forestry  
 Ursula Beate Krinke, Minneapolis,  
 Home Economics  
 Ellen Johanna Kvalbein, Minneapolis,  
 Home Economics  
 Patricia Ann Lohr, Minneapolis,  
 Home Economics  
 Donald August Lootens, Porter,  
 Agriculture  
 David John Marben, Lake Crystal,  
 Forestry  
 Kathleen Ann Mathison, St. Charles,  
 Home Economics  
 Wesley Roger Meier, Ogema, Wis.,  
 Forestry, WITH DISTINCTION  
 Gary Anderson Mikulecky, Ulen,  
 Agriculture  
 Delbert Everett Miller, Bloomington,  
 Forestry  
 Mary Carol Mullin, St. Paul, Home  
 Economics, WITH HIGH DISTINCTION  
 Larry Leonard Olson, Marble,  
 Forestry  
 Robert Edwin Pajala, Brainerd,  
 Forestry  
 Robert Francis Peterson, Minneapolis,  
 Forestry  
 Ronald Arvin Phernetton, St. Paul,  
 Forestry, WITH DISTINCTION  
 Nancy Lee Radtke, Hutchinson,  
 Home Economics  
 William Edwin Raguse, Wheaton,  
 Agriculture  
 David Warren Sanders, Albert Lea,  
 Agriculture  
 David J. C. Schmidt, West St. Paul,  
 Forestry  
 James Michael Schwab, Janesville,  
 Forestry  
 Josephine Ann Shipway, Minneapolis,  
 Home Economics  
 Lois Jean Sickler, Minneapolis, Home  
 Economics, WITH DISTINCTION  
 Denneth Allen Skogrand, Montevi-  
 deo, Agriculture  
 Franklin Everett Star, Minneapolis,  
 Agriculture  
 Richard Kevin Strand, Richfield,  
 Forestry  
 Pamela June Stern, Sanborn, Home  
 Economics  
 Margaret Louise Morton Taipale,  
 Duluth, Home Economics  
 Gretchen Marie Tamminen, Virginia,  
 Home Economics  
 John Theodore Varro, St. Paul,  
 Forestry  
 Kathleen Janice Vlaar, Mendota  
 Heights, Home Economics  
 Gerald Robert Von Rueden,  
 Hinckley, Forestry  
 Darryl Joseph Weakley, Cottage  
 Grove, Agriculture  
 Robert Walter Wentz, Woodruff,  
 Wis., Forestry  
 Carolyn Elizabeth Johnson Westby,  
 Minneapolis, Home Economics  
 Leonard Harold Wohlman, Renville,  
 Agriculture

# COLLEGE OF EDUCATION

## Bachelor of Science

- Linda Irene Anderson, St. Paul  
Rodney Bruce Anderson, Montevideo  
Donna Hanson Andrada, B.A.,  
Bloomington  
Stephen Barrett Atkinson, Minne-  
apolis  
Jane Ann Hielsberg Atwood, Faribault  
Jane Cook Atwood, Wayzata  
Diana Jane Bauer, A.L.A., St. Paul  
Dorothy D. Hanson Bloyer, A.A.,  
Canby  
Judith Ann Broberg, Milaca  
Robert Anthony Brothen, Minne-  
apolis  
Phyllis Beverly Brown, Minneapolis  
John Clarence Boyum, St. Paul  
Mario Isaac Calderon, Minneapolis  
Bruce Allen Capra, Minneapolis  
Dorothy Anna Carlson, B.B.A.,  
Minneapolis  
Gary Richard Carlson, Minneapolis  
Linda Ruthe Clark, A.A., Rochester,  
WITH DISTINCTION  
Gordon Michael Condo, Howard, Pa.  
George M. Constans, B.S., Hopkins  
Julie Ann Cook, Anoka  
Joseph Logan Coria, St. Paul  
Deborah Helen Cottle, Minneapolis  
Robert Clarence Cramer, St. Paul  
Richard Conrad Crosby, Minneapolis  
Georgia Kaye Dahlberg, St. Paul  
Bryan John Daniels, A.A., Fridley  
Dee Ann Davis, Richfield  
Betty Volkert Diersen, Golden Valley  
Sharon Kay DuKatz, Brooklyn Center  
Linda Sue Dypwick, Minneapolis  
Jeanne Therese Eichten, St. Paul  
Ronald James Elcombe, Hibbing  
Clement Charles Engen, B.A., Minne-  
apolis  
Ruth Marie Erickson, Minneapolis  
Jo Ellyn Esrig, St. Paul  
Hazel Jeanette Farnham, Minneapolis  
Janie Brown Finke, Hopkins  
Nancy Dawn Whalen Finkenaur,  
Edina  
Phyllis Margaret Meier Franz, Min-  
neapolis  
Arlaine Alberta Olson Franzmeier,  
Rosemount  
Nancy Olsen Fravel, Grand Rapids  
Patrice Lambourne Geddes, Bakers-  
field, Calif., WITH DISTINCTION  
Mark S. Gruender, Minneapolis  
Carol Marie Gruler, Winona, WITH  
DISTINCTION  
Shirley Jeanne Hamilton, St. Paul  
Mary Koehler Haxby, B.A., Minne-  
apolis  
Janie Lynn Hays, A.A., Minneapolis  
George Allen Headrick, Jr., Minne-  
apolis  
Jean Karen Hendrickson, Minneapolis  
Lorraine Lee Holzer, St. Louis Park  
Robert Michael Horton, St. Paul  
Warren Harold Hubbard II, St. Paul  
Jacqueline I. Husak, Minneapolis  
Richard Martin Hyllested, A.A.,  
Minneapolis, WITH DISTINCTION  
Terrance John Iverson, Minneapolis  
Peggy Willen Jackson, Clark, S.D.  
Barbara Boo Johnson, Minneapolis,  
WITH DISTINCTION  
Latisha Kathryn Johnson, St. Paul  
Barbara Kay Kallsen, Jasper, WITH  
DISTINCTION  
Judith Wynne Kaplan, Minneapolis,  
WITH DISTINCTION  
Alice May Wedekind Kashmarek,  
Minneapolis  
Anne Klinefelter, Minneapolis  
Elizabeth Frances Kolb, Minneapolis  
Karen Louise Kraning, White Bear  
Lake  
Darrell Greig Lawrence, Minneapolis  
Joseph Paul Lebens, A.A., St. Paul  
Joseph Vincent Lilla, Minneapolis  
Nancy Lee McCallum, Minneapolis  
Marna Lee Mellberg, B.S., Minne-  
apolis  
Gary Howard Mertz, Olivia  
Ellen Sue Mogol, St. Paul

Mary Ellen Montgomery, Minneapolis  
 Janice Ann Moo, Minneapolis, WITH HIGH DISTINCTION  
 Thomas Hans Morken, A.A., White Bear Lake  
 James William Murphy, B.A., Hopkins  
 Janice Marie Bateman Nelson, Minneapolis  
 Martha Carolyn Nelson, Stacy  
 Mary Ann Elizabeth Nelson, A.A., Eveleth  
 Nancy Ann Niemeyer, St. Paul  
 Jeanene Marie Noll, Ellsworth, Wis.  
 Marilyn Jean Nordahl, Minneapolis, WITH DISTINCTION\*  
 Rita May Olin, St. Paul  
 Kathleen Jane Olson, Minneapolis  
 Lynn Kindseth Olson, B.A., New Brighton  
 June Margaret Bluhm Panek, St. Paul  
 Rosalie Renee Parranto, St. Paul  
 Carol Kathleen Pohjola Pesola, New Brighton  
 Alice Ann Draheim Peters, Waseca, WITH HIGH DISTINCTION  
 Elsie Baadsgaard Petersen, B.S., Circle Pines  
 Pamela Jane Peterson, Cambridge  
 Stuart George Peterson, Pine City, WITH DISTINCTION  
 Trudy Ann Phillips, Minneapolis  
 Diane Judith Pielage, Wausaw, Wis.  
 Audrey Louise Forrest Piepgras, Luverne  
 Suzanne Marie Pilon, Minneapolis  
 Beverly Knudson Plante, Minneapolis  
 Mary Jo Prokosch, A.A., St. Paul  
 Susan Kay Rathman, Comfrey  
 Joan Shirley Silver Reichert, Minneapolis  
 Nancy Lynette Ribble, Edina  
 Lonnie Charles Roach, Glencoe  
 Janet Besaw Rolfe, West St. Paul  
 Maxine Adele Rollinger, White Bear Lake  
 Vicki Diane Ross, St. Paul, WITH DISTINCTION  
 Theodore Anthony Rude, White Bear Lake  
 Barbara Joan Sabasko, Minneapolis  
 David Clair Sandberg, Minneapolis  
 Marian Gayle Schaitberger, Minneapolis  
 Kathryn Grayce Schjolberg, Minneapolis  
 Dawn Spencer Schrag, Minneapolis, WITH DISTINCTION  
 Charles Allan Schwab, North St. Paul  
 Barbara Jo Shipka, Richfield  
 Martha Joy Sicora, Robbinsdale  
 Patricia Lynn Van Dusen Siverson, Minneapolis  
 Nancy Jane Smolik, St. Paul  
 Linda Marie Spartz, Northfield  
 Vicki Joy Spicer, St. Paul, WITH DISTINCTION  
 Susan Sydney Staten, Jackson  
 Cheryl LaVell Steuart, White Bear Lake, WITH DISTINCTION  
 Virginia Patrick Stewart, B.S., Hopkins  
 Patricia Cynthia Stiles, St. Paul  
 Diane Claire Strandberg, Minneapolis  
 Bruce Arthur Suneson, A.A., St. Paul  
 Jennifer Jane Templin, Plato  
 Priscilla Leslie Thurow, St. Paul  
 Gregory Paul Travis, North St. Paul  
 Thomas Wilfred Veilleux, Minneapolis  
 Barbara Marie Veit, Minneapolis  
 Raymond Douglas Vining, Hastings  
 Harriette Louise Walvatne, Battle Lake, WITH DISTINCTION  
 Velma Gene Warder, B.A., Minneapolis  
 Diane Marie Wilcox, Minneapolis  
 Raymond Fredrick Wirz, Anoka  
 George Samuel Wojciak, Minneapolis  
 Judith Barbara Robins Wolson, A.A., St. Paul  
 James Thomas Wood, A.A., Robbinsdale

\* Degree conferred as of August 23, 1968

## **Master of Education**

Charmaine Michelle Heise, B.S.,  
West Bend, Wis.

John Paul Joyce, B.S., Grand Meadow

Richard Howard Kuehn, B.S.,  
Alexandria

Maryan Williams Salmi, B.S.,  
Minneapolis

William Augustus Sanchez, Jr., B.A.,  
B.S., Roseville

Sharon Gladwell Whipkey, B.S.,  
Berkeley, Calif.

Robert Morten Wicklund, B.S.,  
Minneapolis

## **COLLEGE OF EDUCATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE**

### **Bachelor of Science**

Gwenyth Kathryn Griffith, Cal-  
donia, Home Economics Education

Vernon Dean Wood, Bloom-  
ing Prairie, Agricultural Education

## **SCHOOL OF BUSINESS ADMINISTRATION**

### **Bachelor of Business Administration**

Richard R. Elmburg, Minneapolis

Lorraine Ethel Hill, Minneapolis

### **Bachelor of Science in Business**

Bert Victor Alanko, New Brighton

David Joel Allen, St. Paul

Thomas Lawrence Audette, Cedar

James Andrew Balogh II, Minne-  
apolis

Larry D. Bartz, Winthrop

Michael Olaus Baukol, St. Paul

Jerry Dale Bergseth, Edina

Terry Lee Boyd, Minneapolis

Richard Allen Brammer, Richfield

Gordon John Bredenberg, Minne-  
apolis

Gerald Win Brown, Bloomington

James Alexander Buchan, Minne-  
apolis

Richard Charles Buske, Minneapolis

Robert Carl Calander, Minneapolis

Arthur Gary Canfield, Minneapolis

Gerald Thomas Casey, Minneapolis

Helen Ann Chisholm, Minneapolis

John Joseph Coderre, Jr., Owatonna

Stephen Geoffrey Colestock, St. Paul

Craig Stephen Dahl, Minneapolis

Gerald Lynn Dastych, Ivanhoe

James Michael Doe, Stillwater

Cecil Rodger Fawcett, A.A., Wilder

Roy Robert Ferber, St. Paul

Donald Edward Ferroni, Eveleth

Charles Edward Gerretson, Willmar

Matthew A. Gray, Edina

Thomas Ivan Hagen, St. Louis Park

Gerald John Hamernick, St. Paul

Paul Eugene Hathaway, Bloomington  
David John Hawkins, St. Paul  
Robert Michael Hawkins, Minneapolis

Thomas Dunlap Hays III, Edina  
Lynn Allen Hemming, Bloomington  
David L. Holland, A.A., Minneapolis,

WITH HIGH DISTINCTION

Robert Andrew Howe, St. Louis Park  
Bruce Charles Huber, West St. Paul  
Larry Charles Ische, Jr., Minneapolis  
Gary Donald Jensen, Minneapolis  
Michael J. Jensen, St. Paul  
James Thomas Jetzke, St. Paul  
Beauford Wayne Johnson, Braham  
Robert Irving Karon, Duluth  
Robert Irvin Kimbrel, West St. Paul  
John LeRoy Knapp, Minneapolis,

WITH DISTINCTION

Terry Michael Kuntz, South St. Paul  
Allan Wendell Lehtinen, New Hope  
Donald Lambert Lewis, St. Paul  
Douglas Dean Logeland, Minneapolis  
James Donald Mackay, Noyes  
Dennis Ray McNeill, Wells  
Gregory Paul Mechler, St. Louis Park  
Kenneth Alden Metsala, Brooklyn  
Center

Don Jon Morehead, Forest Lake  
Carole Rina Mornes, A.A., Grand  
Rapids  
Norman Gary Morrisson, Farmington  
Sharon Mary Nash, Minneapolis  
Thomas Max Newman, St. Paul

Robert Charles Nicholson, Minneapolis

Jerome Robert Nowak, Minneapolis  
Richard William O'Neil, St. Paul  
Ray Frederick Ostrander, Albert Lea  
Jon Luverne Paulson, A.L.A., Minneapolis

David George Peterson, Minneapolis  
Roger Leroy Quam, B.E.E., Minneapolis

Philip William Ricker, St. Paul  
William Patrick Riley, Stillwater  
Thomas Harold Round, West St.  
Paul

Edwin Albert Ruotsinoja, St. Louis  
Park

Bruce Wray Schadow, St. Louis Park  
Ronald Paul Schroeder, Faribault  
Gregory Rand Schuster, Minneapolis  
William Charles Seifert, Wells  
Donald Thomas Silver, Tracy  
Anthony Silverman, A.L.A., St. Paul  
William Haryl Simmons, Anoka  
Thomas Leroy Slavik, St. Paul  
Peter Franklin Stenberg, Minneapolis  
Thomas Michael Stoltman, Minneapolis

William Frank Stuttgen, St. Paul  
Richard Douglas Sutton, Minneapolis  
Bruce Marlin Swenson, Mounds View  
James Warren Wells, Anoka  
Gary Donald Wiggins, Minneapolis  
Alan Ford Yapp, Coon Rapids  
Kenneth Clement Zeik, Hopkins

## **Bachelor of Science in Economics**

Alan O'Neill, Edina



# SCHOOL OF BUSINESS ADMINISTRATION AND COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS OF THE INSTITUTE OF AGRICULTURE

## Bachelor of Agricultural Business Administration

*Gerald Clarence Bren, Litchfield,*

WITH HIGH DISTINCTION

*Raymond Russell Christensen, Sleepy  
Eye, WITH DISTINCTION*

*David Darwin Martine, Sleepy Eye*  
*Norman Ellsworth Peterson, Chisago  
City*

*Roger Bruce Refling, Fertile*

*Henry Rudolph Schaar, Hastings*

*Gary R. Walworth, New Milford, Pa.*

*Allen Eugene Willeford, B.A., Min-  
neapolis*

## COLLEGE OF PHARMACY

### Bachelor of Science in Pharmacy

*Milton Walter Hertel, Jr., Olivia*

*Harlow Dean Strike, Isanti*

*Michael Arthur Plattner, B.A., Min-*

*neapolis*

## LAW SCHOOL

### Juris Doctor

*Andrew Joseph Joslin, A.B.,*  
*Proy, R.I.*

*Claude Maurice Loewenthal, B.A.,*  
*Minneapolis*

## SCHOOL OF DENTISTRY

### Bachelor of Science

*William Patrick O'Brien, St. Peter*

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science in Nursing

*Karen Elizabeth Johnson, Prospect  
Park, Pa., WITH DISTINCTION*

## Bachelor of Science

Mary Ellen Anderson, Hawley,  
Medical Technology\*  
Pamela Frances Fabian, A.A., Fergus  
Falls, Medical Technology\*  
Patricia Louise Forster, Minneapolis,  
Medical Technology\*  
Jacqueline Ann Gentile, St. Paul,  
Medical Technology\*  
Cheryl Irene Hultman, Cokato,  
Medical Technology\*  
Kathryn Rahbek Jensen, Minneapolis,  
Medical Technology\*  
Pauline Carol Lileng, Sacred Heart,  
Medical Technology\*

Leanna Louise Lindquist, Robbins-  
dale, Medical Technology\*  
Mary Eleanor Hollenhorst Matthews,  
Rochester, Medical Technology\*  
Miriam Lieba Smith, Minneapolis,  
Medical Technology\*  
Nancy Alberta Stanaway, Virginia,  
Medical Technology\*  
Mary Jane Eaves Stern, St. Paul,  
Medical Technology, WITH  
DISTINCTION\*  
Marcia Kay Wall, Roseville, Medical  
Technology\*

## Master of Public Health

George Anastas, B.S., Albany, N.Y.  
Michael Burgess FitzPatrick, A.A.,  
A.B., Phoenix, Ariz.  
Gary David Gilmore, A.B., Belford,  
N.J.  
Leland Gary Hansen, B.S., St. Paul  
Larry Lee Lloyd, B.S., Dillon, Mont.

Regina Mary McPhillips, B.S.Nurs.,  
Maryknoll, N.Y.  
Cheryl Lynn Schott, B.A., Minne-  
apolis  
Barbara Ivey Yarn, B.S., Knoxville,  
Tenn.

## Doctor of Medicine

Waldo Harold Munderovski, B.A., Owatonna

## GRADUATE SCHOOL

### Master of Architecture

Cheng-Shung Chow, Hu-Wei, China  
B.A. '61, Taiwan Normal University; B.S. '66,  
Tokai University, Japan. Field of Concentra-  
tion: Architecture. Major Adviser: Prof. W. K.  
Vivrett.

Jack Paul Dangermond, Redlands,  
Calif.  
B.S. '67, California State Polytechnic College.  
Field of Concentration: Architecture. Major  
Adviser: Prof. W. K. Vivrett.

Pierre Louis Folliet, Annecy, France  
Diploma '67, University of Paris. Field of Con-  
centration: Architecture. Major Adviser: Prof.  
W. K. Vivrett.

Barry Wayne Graham, North Battle-  
ford, Saskatchewan, Canada  
B.Arch. Eng. '67, Washington State Univer-  
sity. Field of Concentration: Architecture. Ma-  
jor Adviser: Prof. W. K. Vivrett.

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\* These degrees are conferred subject to the completion of practical work prior to March 15, 1969.

Robert H. Hoffman, State College,  
Pa.

B.A. '64, Pennsylvania State University. Field of Concentration: Architecture. Major Adviser: Prof. W. K. Vivrett.

Roger George Kallman, Milwaukee,  
Wis.

B.Arch. '67, Miami University. Field of Concentration: Architecture. Major Adviser: Prof. W. K. Vivrett.

Te-Cheng Woo, Tainan, Formosa

B.S. '60, National Provincial Cheng-Kung University, Taiwan. Field of Concentration: Architecture. Major Adviser: Prof. W. K. Vivrett.

## Master of Arts

Nancy Elizabeth Acker, Seattle,  
Wash.

B. A. with great distinction '64, San Jose State College. Major: Child Psychology. Minor: Psychology. Thesis: Conservation and Coordination of Relations in Piaget's Liquid Quantity Problem. Major Adviser: Prof. J. H. Flavell.

Nicholas Casper Aliotti, Monterey,  
Calif.

B.A. with honors '63, Lake Forest College. Major: Educational Psychology. Minor: Child Psychology. Thesis: A Comparative Study of the Development Question Asking Ability of Children in Norway, West Germany, and the United States. Major Adviser: Prof. E. P. Torrance.

Sally Richards Anderberg, St. Paul

B.S.H.E. '59, Purdue University. Field of Concentration: Home Economics Education. Major Adviser: Prof. R. R. Ford.

John Raymond Anderson, Minne-  
apolis

B.A. '66, University of Minnesota. Field of Concentration: History. Major Adviser: Prof. D. W. Noble.

Donald Edward Bader, Chaska

B.A. '59, Hamline University. Field of Concentration: Educational Psychology. Major Adviser: Prof. D. H. Blocher.

Arthur Henry Bair, Jr., York, Pa.

B.S. '59, U.S. Military Academy. Field of Concentration: Psychology. Major Adviser: Prof. K. E. Weick.

Kelsey Chase Batchelder, Burnsville

B.A. '54, Carleton College. Field of Concentration: Industrial Relations. Major Adviser: Prof. H. G. Heneman, Jr.

Suzanne Field Bellezza, Minneapolis

B.A. '67, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. Wesley Simonton.

Ronald Barnett Benson, Grygla

B.S.B. '66, University of Minnesota. Field of Concentration: Industrial Relations. Major Adviser: Prof. H. G. Heneman, Jr.

Gerald Hugh Berg, Minneapolis

B.A. '66, University of Minnesota. Field of Concentration: Mass Communication. Major Adviser: Prof. W. E. Emery.

Daniel Patrick Bergen, Oxford, Miss.

B.A. '57, M.A. '62, University of Notre Dame; M.A. '61, University of Chicago. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Frances Lucille Berger, Minnetonka

B.S. with distinction '41, University of Minnesota; B.Mus.Ed. '58, Bradley University. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. Norine Odland.

Jean Bluhm Berglund, International  
Falls

B.S. '65, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. R. R. Houchins.

Lewis David Bishop, West Union,  
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B.S. '65, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. J. C. Manning.

Carlos Alberto Tavares, Recife, Brasil

Agro.Eng. '66, Universidade Rural de Pernambuco, Brazil. Field of Concentration: Agricultural Education. Major Adviser: Prof. M. J. Peterson.

Korekiyo Terada, Fukuoka, Japan

B.A. '65, Dartmouth College. Field of Concentration: Economics. Major Adviser: Prof. J. H. Kareken.

Sister Dianne Theisen, St. Joseph

B.A. '62, College of St. Benedict. Field of Concentration: Educational Administration. Major Adviser: Prof. J. R. Curtin.

Phillip Aaron Toedter, Staples

B.S. '61, University of Minnesota. Field of Concentration: Agricultural Education. Major Adviser: Prof. E. A. Pusons.

Roslyn Elvera Bahr Torgerson, Bemidji

B.S. '60, University of Minnesota. Field of Concentration: Home Economics Education. Major Adviser: Prof. M. M. Brown.

John Jeffrey Vandergrift, Annapolis, Md.

B.A. '66, St. Andrews Presbyterian College. Field of Concentration: History. Major Adviser: Prof. T. G. Stavrou.

Margie L. Voelker, Hastings

B.A. '47, College of St. Benedict. Field of Concentration: Library Science. Major Adviser: Prof. Wesley Simonton.

Frances Inez Voris, Aurora, Ill.

B.S. (Elem. Ed.) '65, University of Illinois. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. J. C. Manning.

Marc John Wallace, Jr., St. Paul

B.A. '66, Cornell University. Field of Concentration: Industrial Relations. Major Adviser: Prof. T. A. Mahoney.

John Parcher Wanous, Owatonna

B.A. *magna cum laude* '66, University of Minnesota. Field of Concentration: Industrial Relations. Major Adviser: Prof. T. A. Mahoney.

Dorothy Alice Ward, Mapleton

B.A. '60, Macalester College. Field of Concentration: Education. Major Adviser: Prof. S. B. Kegler.

Jonathan Howes Webster, Canandaigua, N.Y.

B.A. '61, Westminster College. Field of Concentration: History. Major Adviser: Prof. P. W. Bamford.

John William Wheeler, Rush, N.Y.

B.S. '64, Le Moyne College. Field of Concentration: Mass Communication. Major Adviser: Prof. M. V. Chamley.

Clinton Oliver White, Humboldt, Saskatchewan, Canada

B.A. with great distinction '63, University of Saskatchewan. Major: History. Minor: Geography. Thesis: *Saskatchewan Formulates a Power Policy and Begins Building an Electrical System*. Major Adviser: Prof. P. L. Murphy.

Nancy Luella Carter White, Minneapolis

B.S. '66, University of Minnesota. Field of Concentration: Speech Science, Pathology and Audiology. Major Adviser: Prof. R. P. McDermott.

John Alexander Wieriman, Minneapolis

B.A. '65, University of Minnesota. Field of Concentration: Psychology. Major Adviser: Prof. D. L. LaBerge.

Jerry Wilkes, Excelsior

B.S. '65, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. C. A. Boeck.

Scott Kenneth Wright, St. Paul

B.A. '63, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. N. J. Freeman.

Katherine Grace Yobst, Greenfield, Mass.

B.A. cum laude '64, University of Massachusetts. Major: Mathematics. Minor: Philosophy. Thesis: Extended Covering Spaces. Major Adviser: Prof. D. W. Kahn.

James Martin Youngdale, Minneapolis

B.A. '40, Carleton College. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Elaine Myrtle Zehnder, St. Paul

B.S. '61, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. G. L. Bond.

Signy Ruth Zimdars, Minneapolis

B.S. '43, Winona State College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. L. Hill.

## Master of Arts in Public Administration

Harold James Datta, Winona

B.S. '50, Georgetown University. Major: Public Administration. Thesis: The University of Minnesota's Public Administration Program in Korea. Major Adviser: Prof. G. A. Warp.

Richard James Dunn, Winona

B.A. cum laude '67, University of Minnesota. Major: Public Administration. Thesis: An Economic Analysis of the Legal Treatment of Debt Finance in Lower Levels of American Government. Major Adviser: Prof. G. A. Warp.

Phillip James Eide, Minneapolis

B.A. '67, University of Minnesota. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

George Herbert Kielkopf, St. Paul

B.S.(Econ.) '66, University of Minnesota. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Dale Lawrance Nelson, St. Paul

B.A. '67, University of Minnesota. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Howard Joseph Newell, St. Paul

B.S. '46, University of Minnesota. Major: Public Administration. Thesis: Administrative Consensus on Expansion of the Youth Program of the Agricultural Extension Service. Major Adviser: Prof. G. A. Warp.

Narong Sajjapunroj, Bangkok, Thailand

B.Econ. '62, Thammasat University, Thailand. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

## Master of Business Administration

Harold Lannie Cragg, Robbinsdale

B.S.B. '63, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Ronald Lee Fowler, St. Cloud

B.A. '66, College of St. Thomas. Field of Concentration: Business Administration. Major Adviser: Prof. E. H. Lewis.

David Glen Fulcher, Robbinsdale  
B.S.B. '66, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. K. Gaumnitz.

Gunnar Bjorn Gunnarsson,  
Reykjavik, Iceland

B.A. '66, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. K. Gaumnitz.

James Edward Haefner, Chicago, Ill.

B.S.(Comm.) '66, De Paul University. Field of Concentration: Business Administration. Major Adviser: Prof. A. K. Wickesberg.

Jose Ma. Lacson Hilado, Bacolod,  
Philippines

B.S.(Comm.) '60, LaSalle College, Philippines. Field of Concentration: Business Administration. Major Adviser: Prof. R. J. Holloway.

Dale Michael Rucker, Springfield

B.S.B. with distinction '67, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. J. J. Mauriel.

## Master of Fine Arts

Lance Richard Boyd, Starbuck

B.S. '64, University of Minnesota. Field of Concentration: Music. Major Adviser: Prof. R. A. Schuessler.

James Wesley Clarke, Ellendale, N.D.

B.A. '64, University of North Dakota. Field of Concentration: Music. Major Adviser: Prof. B. D. Weisser.

## Master of Science

Richard Kabat Allendorf, Minneapolis

B.S.B. with distinction '68, University of Minnesota. Major: Business Administration. Minor: Speech-Communication. Thesis: Needs, Motivations, and Aspirations of the Low-Income Consumer. Major Adviser: Prof. R. B. Holloway.

Thomas Blake Auran, Minneapolis

B.A. '65, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Fatty Acid Requirements of *Leptospina biflexa*. Major Adviser: Prof. R. C. Johnson.

Louise Ann Bader, Iowa City, Iowa

B.S. '66, University of Iowa. Major: Microbiology. Minor: Genetics. Thesis: A Lysin Produced by *Streptomyces aureofaciens* Infected by SAP 2. Major Adviser: Prof. S. G. Bradley.

Alan Paul Bender, Minneapolis

B.A. '67, University of Minnesota. Field of Concentration: Mathematics. Major Adviser: Prof. R. H. Cameron.

H. Daniel Bodley, Duluth

B.S. '61, Hamline University. Major: Anatomy. Minor: Zoology. Thesis: Studies on the Ultrastructure of Developing Trachea in the Rats. Major Adviser: Dr. R. L. Wood.

Barbara Buchman Brauer, Altadena,  
Calif.

B.A. '66, University of California. Field of Concentration: Physics. Major Adviser: Prof. Erwin Marquit.

Norman Ted Byers, Mineral Point,  
Pa.

B.S.(Ed.) '67, Indiana University of Pennsylvania. Field of Concentration: Environmental Health. Major Adviser: Prof. D. E. Barber.

James William Cagley, Hopkins

B.S.B. with distinction '67, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. J. Holloway.

Mary Anne Carey, Minneapolis

B.A. '63, College of St. Catherine. Major: Nutrition. Minor: Biochemistry. Thesis: The Effect of Moderate Alcohol Intake on Chemical Components of the Blood and Urine of Normal Individuals. Major Adviser: Prof. R. J. Sirny.

Robert Evans Carlson, Ft. Lauderdale, Fla.

B.S. *cum laude* '66, Gustavus Adolphus College. Major: Entomology. Minor: Biometrics. Thesis: The Ecology and Swarming Behavior of *Anarete pritchardi* (Diptera:Cecidomyiidae). Major Adviser: Prof. H. C. Chiang.

Shirley Anne Conn, Pittsburgh, Pa.

B.S.N.E. '60, West Virginia University. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. G. M. Sarosi.

Catherine Anne Crane, St. Paul

B.S. '62, Mundelein College. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: A New Synthesis of *o*-Nitrophenylacetaldehydes. Major Adviser: Prof. W. E. Noland.

Firmin Christopher Deibel, Jr.,  
Westlake, Ohio

B.A. '64, College of Wooster. Field of Concentration: Physics. Major Adviser: Prof. Morton Hamermesh.

David Leon DeMets, Owatonna

B.A. '66, Gustavus Adolphus College. Field of Concentration: Biometry. Major Adviser: Prof. E. A. Johnson.

Marilyn Doesken, Royal, Ill.

B.A. '66, Capital University. Field of Concentration: Mathematics. Major Adviser: Prof. E. G. Fuhrken.

Robert Stephen Dulude, Little Falls

B.A. '66, Macalester College. Field of Concentration: Physics. Major Adviser: Prof. S. G. Gasiorowicz.

Dorothy Frances Elking, Dayton,  
Ohio

B.S. '58, St. Louis College of Pharmacy. Field of Concentration: Pharmaceutics. Major Adviser: Prof. H. F. Kabat.

John Carroll Farmer, Niles, Mich.

B.A. '63, University of Michigan. Field of Concentration: Zoology. Major Adviser: Prof. M. A. Brooks.

Douglas Leonard Fields, Minneapolis

B.S. '66, University of California. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Rearrangement of 1, 3-BIS, Diazo-CIS-2-Decalone. Major Adviser: Prof. R. F. Borch.

R. Clyde Greer, Ft. Collins, Colo.

B.S. '64, Colorado State University. Field of Concentration: Agricultural Economics. Major Adviser: Prof. D. C. Dahl.

Sharon May Haggerty, Regina,  
Saskatchewan, Canada

B.A. '61, University of Saskatchewan. Major: Wildlife. Minor: Botany. Thesis: The Ecology of the Franklin's (*Citellus Franklinii*) Ground Squirrel at Itasca State Park, Minnesota. Major Adviser: Prof. W. H. Marshall.

Richard Comstock Hoyt, St. Paul

B.S.(Milling Tech.) '62, Kansas State University. Field of Concentration: Agricultural Economics. Major Adviser: Prof. W. K. Bryant.

Arnold Francis Kaufmann, Atlanta,  
Ga.

D.V.M. '60, Iowa State University. Major: Veterinary Pathology. Minor: Microbiology. Thesis: Morphologic Studies of Conventional and Gnotobiotic Mice Challenged Per Os with *Salmonella cerro*. Major Adviser: Prof. Victor Perman.

Kent Douglas Keenlyne, Durand,  
Wis.

B.S. '64, Wisconsin State University. Major: Wildlife. Minor: Entomology. Thesis: The Massasauga (*Sistrurus Catenatus Catenatus*) in Buffalo County, Wisconsin. Major Adviser: Prof. J. R. Beer.

Diane Senn Knight, Kenmore, N.Y.

B.S. '63, Wittenberg University. Major: Plant Physiology. Minor: Botany. Thesis: Variations in Osmotic Ground Value of Leaf Upper Epidermis of *MUSA SP*: The Effect of Environmental Factors. Major Adviser: Prof. E. J. Stadelmann.

Ruth Ann Lea, Millersburg, Ohio

B.S. '66, Otterbein College. Major: Genetics. Minor: Biometrics. Thesis: Genetic Analysis of Alkaline Phosphatase and Esterase Variants in *Tribolium Castaneum*. Major Adviser: Prof. F. D. Enfield.

Sin Yen Lee, Ipoh, Malaysia

B.S. '64, Nanyang University, Singapore. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: Alkyl Nitrites Deamination of Aziridines. Major Adviser: Prof. R. M. Carlson.

Miguel Orlando Llarena C., Concepción, Chile

Prof. de Matematicas '62, University of Chile. Field of Concentration: Mathematics. Major Adviser: Prof. W. S. Loud.

Charles Edward Long, Milwaukee, Wis.

B.S. '65, University of Wisconsin. Major: Physics. Minor: Mathematics. Thesis: A Photometric Determination of the Charge Spectrum of Relativistic Primary Rays in the Region  $16 \leq Z \leq 28$ . Major Adviser: Prof. C. J. Waddington.

Katherine Glendora McLennan, Omaha, Neb.

B.S.H.E. '61, University of Omaha. Major: Nutrition. Minor: Biochemistry. Thesis: Changes Occurring in the Urinary Excretion of the Copper and Zinc D-Penicillamine and Calcium-Disodium Ethylene-Diaminetetraacetate Therapy in Patients with Hepatolenticular Degeneration. Major Adviser: Prof. R. J. Simy.

Kathryn Joanne Nelson, Duluth

B.A. '50, Macalester College; B.S.N. '59, University of Pennsylvania. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. J. R. Hubbard.

David Gordon Ness, Rochester

B.A. cum laude '64, St. Mary's College. Field of Concentration: Mathematics. Major Adviser: Prof. R. H. Cameron.

John Alexander Nicolson, Sault Sainte Marie, Ontario, Canada

B.S.(For.) with honor '64, Michigan College of Mining and Technology. Field of Concentration: Forestry. Major Adviser: Prof. D. B. Thorud.

Irene Mae Ott, Albert Lea

B.S. '57, University of Minnesota. Field of Concentration: Home Economics. Major Adviser: Prof. R. R. Ford.

Marvin M. Pace, Hoytsville, Utah

B.S. '66, Utah State University. Major: Animal Science. Minor: Biochemistry. Thesis: A Measure of Sperm Cell Damage through the Release of Intracellular Components and their Relation to Fertility. Major Adviser: Prof. E. F. Graham.

John Edward Pauly, Minneapolis

B.A. '48, College of St. Thomas. Field of Concentration: Business Administration. Major Adviser: Prof. H. W. Stevensen.

Harlan Dennis Petersen, Luck, Wis.

B.S. '67, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. J. G. Haygreen.

John Edward Poldoski, Duluth

B.A. '66, Bemidji State College. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Thiol Reductions of Nitrilotriacetateferrate (III) in the Presence of 1, 10-Phenanthroline. Major Adviser: Prof. T. J. Bydalek.

Jean Porta Prescott, Tulsa, Okla.

B.S. '67, Oklahoma State University. Field of Concentration: Biometry. Major Adviser: Prof. G. E. Bartsch.

Ronald Dean Priebe, Slayton

B.Math. with high distinction '66, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: The Boundary Correspondence Under a Conformal Map. Major Adviser: Prof. J. A. Kelings.

Leo Simon Roth, Portsmouth, Ohio

B.S. '66, Ohio State University. Major: Agronomy. Minor: Biometrics. Thesis: Genetic Variation of Quality Traits in Corn (*Zea mays*) Silage. Major Adviser: Prof. W. A. Compton.

Hugo E. Sanchez, Lima, Peru

Ing.Agro. '51, Universidad Agraria, Peru. Major: Agronomy. Minor: Plant Pathology. Thesis: Yield and Moisture Relationships in Fours, Lines of Corn (*Zea mays* L.). Major Adviser: Prof. W. A. Compton.

William Patrick Schrader, Minneapolis

B.Chem. '64, University of Minnesota. Major: Biochemistry. Minor: Microbiology. Thesis: Studies on 7s Component of Soybean Protein. Major Adviser: Prof. D. R. Briggs.

William Edward Simmonds, Jackson, Mich.

B.B.A. '61, University of Michigan. Field of Concentration: Business Administration. Major Adviser: Prof. J. M. Smith, Jr.

Michael John Singer, White Plains,  
N.Y.

B.S. '66, Cornell University. Major: Soil Science. Minor: Geology. Thesis: Movement of Lead Added to the Surface of a Waukegan Soil. Major Adviser: Prof. R. H. Rust.

Gerald Raymond Steuernagel,  
Mahtomedi

B.S. '65, University of Minnesota. Field of Concentration: Dairy Husbandry. Major Adviser: Prof. C. W. Young.

Mokhtar Bin Tamin, Selangor,  
Malaysia

B.Ag.Sci. '64, University of Malaya. Field of Concentration: Agricultural Economics. Major Adviser: Prof. T. R. Nodland.

John Howard Thornton, Lake City

B.S. '64, University of Minnesota. Major: Animal Science. Minor: Biochemistry. Thesis: Composition and Nutritive Value of Corn Grain of Several Test Weights and of Grain and Cobs of Various Maturities. Major Adviser: Prof. R. D. Goodrich.

John Prentice Walkup, Anchorage,  
Alaska

B.A. '64, Alaska Methodist University. Major: Physics. Minors: Mathematics and Education. Thesis: High Pressure Mass Spectroscopy. Major Adviser: Prof. A. O. C. Nier.

Chao Ling Wang, Hunan, China

B.S.(Ag.) '58, National Taiwan University; M.S.(Ag.) '65, College of Chinese Culture, Taiwan. Field of Concentration: Biometry. Major Adviser: Prof. J. R. Boen.

Nancy Naing-shu Tang Wang,  
Taiwan, China

B.S. '66, National Taiwan University. Field of Concentration: Genetics. Major Adviser: Prof. R. N. Shoffner.

David Oliver Wanglie, Minneapolis

B.S.B. '66, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. J. M. Smith, Jr.

Larry Max Weigum, Bismarck, N.D.

B.S. '66, Mary College. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. M. I. Harris.

Nancy Ellen Williams, Minneapolis

B.A. '64, DePauw University. Major: Microbiology. Minor: Biochemistry. Thesis: A Study of Certain Aspects of the Beta Lysin Bactericidal System. Major Adviser: Prof. L. H. Muschel.

Paul Curtis Woosley, Minneapolis

B.A. '67, Hendrix College. Field of Concentration: Biometry. Major Adviser: Prof. M. O. Kjelsberg.

Robert Elliot Young, Greenville, Miss.

B.S. with distinction '60, Mississippi Vocational College. Field of Concentration: Botany. Major Adviser: Prof. E. C. Abbe.

## Master of Science in Aeronautical Engineering

Charles Andrew Farrell, Jr., St. Paul

B.A.E. with distinction '67, University of Minnesota. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. T. A. Wilson.

Ved Prakash Gupta, Delhi, India

B.Tech.(M.E.) with distinction '67, Indian Institute of Technology. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. T. A. Wilson.

Ing-Tzong Hwang, Taipei, China

B.S.E. '65, National Taiwan University. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Non-Linear Generation of Heat. Major Adviser: Prof. D. D. Joseph.



## Master of Science in Agricultural Engineering

Stephen Merritt Hartley, Turners  
Falls, Mass.

B.S.C.E. '67, University of Massachusetts. Major: Agricultural Engineering. Minor: Civil Engineering. Thesis: Concrete Pipe Absorption Testing Procedure. Major Adviser: Prof. P. W. Manson.

David Curtis Quick, Borup

B.S. '57, North Dakota State University. Major: Agricultural Engineering. Minor: Mechanics and Materials. Thesis: Air Flow within Hay Bales as Influenced by Bale Size and Density under Conditions Approximating Random Stacking. Major Adviser: Prof. John Strait.

## Master of Science in Chemical Engineering

James Lawrence Claypool, Westport,  
Wash.

B.S.Ch.E. '67, University of Washington. Major: Chemical Engineering. Minor: Mathematics. Thesis: Theory of Transport in a Model Polyatomic Fluid. Major Adviser: Prof. H. T. Davis.

Donald Alexander Fisher, Massena,  
N.Y.

B.Ch.E. '67, Rensselaer Polytechnic Institute. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Model for Very Fast Reactions in Turbulently Mixed Liquids. Major Adviser: Prof. W. E. Rauz.

Le Trung Quac, Saigon, Vietnam

B.S.Ch.E. with distinction '66, Montana State College. Major: Chemical Engineering. Minor: Mathematics. Thesis: Kinetic Theory of Loaded Spheres Interacting with a Square Well Potential. Major Adviser: Prof. H. T. Davis.

Fred Thomas Sommer, Racine, Wis.

B.S. '67, Yale University. Major: Chemical Engineering. Minor: Electrical Engineering. Thesis: Steady State Analysis of a Non-Adiabatic Tubular Reactor. Major Adviser: Prof. N. R. Amundson.

## Master of Science in Civil Engineering

Robert Tipton Brown, Minneapolis

B.C.E. '67, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. G. J. Schroepfer.

Michael Joseph Hanson, St. Louis  
Park

B.C.E. with high distinction '67, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. W. K. Johnson.

Michael Ralph Mayer, Jackson, Wis.

B.C.E. '67, Marquette University. Field of Concentration: Civil Engineering. Major Adviser: Prof. G. J. Schroepfer.

## Master of Science in Dentistry

Joseph A. Haws, Calgary, Alberta,  
Canada

D.D.S. '57, University of Alberta. Major: Dentistry. Minor: Pathology. Thesis: Comparison of Skin Grafted and Conventional Oral Sulcus Extension Procedures in Dogs. Major Adviser: Dr. W. R. Laney.

Henry Joseph Menke, Bloomington

B.S. '54, D.D.S. '63, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Natural History of Periodontal Disease in Mice. Major Adviser: Dr. R. E. Stallard.

## Master of Science in Dermatology

Charles Henry Dicken, Rochester

B.A. '58, Hendrix College; M.S. '60, B.S. '62, M.D. '62, University of Arkansas. Major: Dermatology. Minor: Basic Dermatological Sciences. Thesis: Biochemical Evidence for the Presence of Lysosomes in the Epidermis. Major Adviser: Dr. R. K. Winkelmann.

Francis Joseph Pedace, San Diego, Calif.

M.D. '60, Loyola University. Major: Dermatology. Minor: Basic Dermatological Sciences. Thesis: Psoriasis, the Koebner Phenomenon: An Osmorphic Response. Major Adviser: Dr. S. A. Muller.

## Master of Science in Electrical Engineering

Frederick Albert Aupperle, Morris

B.S.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Formulation of the Acoustic Radiation from Smooth and Roughened Flexible Panels Excited by Turbulent Flow. Major Adviser: Prof. R. F. Lambert.

Robert Julian Erlandson, Cokato

B.E.E. with distinction '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Microwave Piezoresistance in N-Type Germanium. Major Adviser: Prof. K. S. Champlin.

David James Behun, Minneapolis

B.E.E. '62, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

Richard E. Fayling, White Bear

B.A. '57, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. W. F. Brown, Jr.

Allen Dale Betz, Rosemount

B.S.E.E. '60, University of Wisconsin. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

Richard John Hedger, Rochester

B.E.E. '62, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

Stephen Paul Callaghan, Minneapolis

B.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: A Study of the Temperature Dependence of Laser Induced Breakdown of Glass. Major Adviser: Prof. R. J. Collins.

Herman Held, Minneapolis

B.E.E. with high distinction '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Mass Spectrometric Investigation of Cesium-Argon D.C. Discharges. Major Adviser: Prof. L. M. Chanin.

Egons Karl Dunens, Minneapolis

B.E.E. with high distinction '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Studies of a Continuous Sampling Median Communications Detector in Additive Gaussian and Poisson Impulsive Noise Backgrounds. Major Adviser: Prof. R. F. Lambert.

Douglas James Hoffmann, St. Paul

B.E.E. with distinction '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Analysis of Noise in a FM Detector Using Hybrid Computer Simulation. Major Adviser: Prof. J. H. Park.

Richard Edward Ericson, St. Paul

B.E.E. with high distinction '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Low Energy Electron Diffraction Study of the Strontium Titanate (100) Surface. Major Adviser: Prof. W. T. Peria.

Tong Lu, Taipei, Taiwan, China

B.E.E. '65, Cheng Kung University. Major: Electrical Engineering. Minor: Physics. Thesis: A Technique for Relating Microwave Conductivity to the  $Te_{01}$ -Mode Reflection Coefficient of Annular Shaped Semiconductor Sample. Major Adviser: Prof. K. S. Champlin.

Israel Ben Magrisso, Minneapolis

B.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Single-Pole Approximation for Predicting Propagation Times in a Switching Circuit. Major Adviser: Prof. L. T. Anderson.

**David Warren Palermo, Mora**

B.E.E. with distinction '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: High Coercivity Magnetic Thin Films. Major Adviser: Prof. D. E. Speliotis.

**Frederick Raymond Pfeiffer, Shoreview**

B.S.E.E. with honor '60, Michigan College of Mining and Technology. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

**Harry Clifford Prendergast, Minneapolis**

B.S.E.E. '61, University of Manitoba. Major: Electrical Engineering. Minor: Mathematics. Thesis: Hybrid Computer Solution of Non-Linear Boundary Value Problems. Major Adviser: Prof. S. J. Kahne.

**Fozi Mahmoud Qutob, Minneapolis**

B.S.E.E. '62, Iowa State College. Field of Concentration: Electrical Engineering. Major Adviser: Prof. Mahmoud Riaz.

**Shu-Wei Shen, Taipei, China**

B.S.E. '65, Taiwan Cheng Kung University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise Suppression in Field Emission. Major Adviser: Prof. Aldert van der Ziel.

**David Marcus Thymian, Correll**

B.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Second Harmonic Enhancement with Locked Laser. Major Adviser: Prof. J. A. Caruthers.

## **Master of Science in Mechanical Engineering**

**Richard Newman Berglund, St. Paul**

B.Aero.E. with distinction '67, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. B. Y. H. Liu.

**Henry Arthur Hanson, St. Paul**

B.M.E. with distinction '66, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. J. L. Threlkeld.

**Robert Jerry Herling, Los Angeles, Calif.**

B.S. with distinction '67, Harvey Mudd College. Major: Mechanical Engineering. Minor: Aeronautical Engineering. Thesis: A Low Pressure Electrical Method for the Sizing and Classification of Aerosol Particles. Major Adviser: Prof. B. Y. H. Liu.

**Nickolas Konopliv, Minneapolis**

B.M.E. '59, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Theoretical Analysis of Heat Transfer and Fluid Flow in Reference to a Sphere. Major Adviser: Prof. E. M. Sparrow.

**Ramesh Chandra Paliwal, Kakore, India**

B.S. '64, Banaras Hindu University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Ratio of Heat Transfer Coefficient to Mass Transfer Coefficient for Evaporation of Water from a Free Water Surface into Air. Major Adviser: Prof. J. L. Threlkeld.

**Hans Helmut Quack, Stuttgart, Germany**

Dip.Ing. '67, Technische Hochschule Munchen. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Solution of Non Similar Boundary Layer Problems. Major Adviser: Prof. E. M. Sparrow.

**Hooshang Yazdani, Abadan, Iran**

B.S.Gen.E. '64, Abadan Institute of Technology, Iran. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. B. Y. H. Liu.

## Master of Science in Medicine

Douglas Robert Gracey, Rochester  
B.A. '58, Coe College; M.D. '62, Northwestern University. Major: Medicine (Internal). Minor: Pathology. Thesis: Electron Microscopic Study of the Normal Human Bronchus. Major Adviser: Dr. A. M. Olsen.

Leo Richard Zacharski, Warren, Mich.  
B.A. '59, M.D. '62, Wayne State University. Major: Medicine (Internal). Minor: Hematology. Thesis: The Chronic Lymphocytic Leukemias. Major Adviser: Dr. D. C. Campbell.

## Master of Science in Metallurgical Engineering

Fernando Jorge Dick, Oruro, Bolivia  
Min.Eng. '62, Universidad Tecnica de Oruro, Bolivia. Major: Metallurgical Engineering. Minor: Mineral Engineering. Thesis: Sulphadization and Separation of Sulphadized Cassiterite and Iron Minerals. Major Adviser: Prof. A. C. Dorenfeld.

Harold Edward Goetzman, Olivia  
B.S. '63, University of Minnesota. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: The Oxidation Profile in a Bed of Burning Iron Ore Oxide Pellets. Major Adviser: Prof. Gust Bitsianes.

## Master of Science in Mineral Engineering

Nelson Jose Cordoliani, Ciudad Bolivar, Venezuela

Ing. Min. '66, Universidad do Oriente, Venezuela. Field of Concentration: Mineral Engineering. Major Adviser: Prof. W. H. Lacabanne.

## Master of Science in Obstetrics and Gynecology

Robert David Hilgers, Fairmont

B.S. *magna cum laude* '58, St. John's University; B.S. '61, M.D. '61, University of Minnesota. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: Embryonal Rhabdomyosarcoma (Botryoid Type) of the Vagina (A Comparative Study Including Extravaginal Botryoid Rhabdomyosarcomas). Major Adviser: Dr. R. B. Wilson.

## Master of Science in Orthopedic Surgery

Edwin Leslie Laurnen, Rock Springs, Wyo.

M.D. '58, University of Colorado. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Quantitations of Metabolic Rate, Oxygen Consumption, CO<sub>2</sub>, Calcium, and pH Changes in Tibial Fractures in Dogs. Major Adviser: Dr. P. J. Kelly.

## Specialist in Education

Rex Thaddeus Beach, Stillwater

B.A. '48, B.S. '49, M.A. '57, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. W. R. Cross.

Carol Marie Bellamy, Chicago, Ill.

B.A. *cum laude* '62, B.M. '62, Mundelein College. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. D. Hall.

Virginia Mariea Flores, St. Paul

B.S. '46, College of St. Theresa; M.A. '51, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. W. Tennyson.

Lawrence Alan Hartman, St. Paul

B.S. '57, M.A. '60, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. N. C. Nickerson, Jr.

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B.S. '42, Winona State Teachers College; M.A. '47, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. V. D. Mueller.

Earl Stanley Mello, Baltimore, Md.

B.A. '57, Morgan State College; M.A. '64, Syracuse University. Field of Concentration: Special Education. Major Adviser: Prof. D. G. Force, Jr.

Theodore Charles Pollard, Minneapolis

B.S. '54, M.A. '59, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. J. R. Curtin.

Ray Irwin Powell, St. Paul

B.S. '56, M.S. '58, Winona State Teachers College. Field of Concentration: Educational Administration. Major Adviser: Prof. R. T. Lambert.

Diana Barbara Poch Suslak, New York, N.Y.

B.A. '66, M.A. '68, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. D. Hall.

## Doctor of Philosophy

Ronald Francis Abler, St. Paul

B.A. *cum laude* '63, M.A. '66, University of Minnesota. Major: Geography. Minor: History. Thesis: The Geography of Intercommunications Systems: The Post Office and Telephone Systems in the United States. Major Adviser: Prof. F. E. Lukermann.

Jack Allard, Oroville, Wash.

B.S. '50, Washington State University. Major: Epidemiology. Minor: Microbiology. Thesis: The Carrier State in Salmonellosis: An Epidemiological Study of Infections with *Salmonella* Species. Major Adviser: Dr. L. M. Schuman.

James Allen Armentrout, Minneapolis

B.A. '62, M.A. '64, University of Kansas. Major: Psychology. Minor: Child Psychology. Thesis: Parental Child-Rearing Attitudes and Pre-adolescents' Problem Behaviors. Major Adviser: Prof. A. J. Hafner.

James Dennis Arnquist, Minneapolis

B.A. '54, Hamline University. Major: American Studies. Thesis: Images of Catholic Utopianism and Radicalism in Industrial America. Major Adviser: Prof. D. W. Noble.

Virach Arromdee, Bangkok, Thailand

B.Acc. '47, Chulalongkorn University, Thailand; M.A. (Ag.Econ.) '57, University of Wisconsin. Major: Agricultural Economics. Minor: Economics. Thesis: Economics of Rice Trade Among Countries of South East Asia. Major Adviser: Prof. V. W. Ruttan.

Glenn Stanley Ballard, St. Paul

B.Physics '61, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Existence of Proper Thick Subgroups in Locally Compact Groups. Major Adviser: Prof. L. W. Green.

Vernon Stanley Bennett, Eau Claire,  
Wis.

B.S. '55, Wisconsin State College, Eau Claire; M.A. '60, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: An Empirical Investigation of the Difference Between Problem Situations Encountered by Elementary School Principals in High and in Low Socioeconomic Community Schools. Major Adviser: Prof. N. C. Nickerson, Jr.

Roland George Bergeson, Fertile

B.A. '64, Northwestern College; M.A. '66, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: A Study of the Effects of a Set of Selected Educational Experiences on Counselor-Trainees' Perceptions of Filmed Interviews. Major Adviser: Prof. D. H. Blocher.

Clark Bergman, St. Paul

B.Phys. with high distinction '62, M.S. '65, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Elastic Scattering of Alpha Particles by  $^{20}$  Between 18.9 and 30 MeV. Major Adviser: Prof. R. K. Hobbie.

Donald Clair Biggs, San Francisco,  
Calif.

B.A. '50, Stanford University; M.A. '51, San Francisco State College. Major: American Studies. Thesis: Stevenson's Regiment in California: An Experiment in Social Action. Major Adviser: Prof. M. C. Turpie.

Einer Boberg, Drumheller, Alberta,  
Canada

B.A. '62, M.A. '63, University of Iowa. Major: Speech Science, Pathology and Audiology. Minor: Psychology. Thesis: The Effects of Self-Administered and Experimenter-Administered "Time-Out" on Stuttering. Major Adviser: Prof. R. R. Martin.

Robert Elliott Bonner, Northfield

B.A. with honor '61, University of Wyoming; M.A. '63, University of Oregon. Major: History. Minor: English. Thesis: Administration and Public Service under the Early Stuarts: Edward Viscount Conway as Secretary of State, 1623-1628. Major Adviser: Prof. D. H. Willson.

Donald Frederick Brod, River Falls,  
Wis.

B.A. *magna cum laude* '54, Southeast Missouri State College; M.A. '58, University of Missouri. Major: Mass Communication. Minor: History. Thesis: Church, State, and Press: Twentieth-Century Episodes in the United States. Major Adviser: Prof. W. E. Emery.

Lester Edward Brown, Mt. Prospect,  
Ill.

B.S.(Elem.Ed.) '57, M.Ed. '59, Macalester College. Major: Curriculum and Instruction. Minor: Educational Psychology. Thesis: An Experimental Study of the Effectiveness of Organizing Learning Experiences to Achieve the Objective of Critical Thinking in Certain Fifth Grade Social Studies Classes. Major Adviser: Prof. G. H. McCune.

Thomas Eugene Brunelle, Crookston

B.S. '57, College of St. Thomas; M.S. '62, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: A Study of the Binding of Small Cations by Acid Polysaccharides. Major Adviser: Prof. C. W. Carr.

Bruce Penwell Budge, Minneapolis

B.S. '53, M.S. '58, University of Idaho. Major: Business Administration. Minor: Economics. Thesis: The Value of the Firm, an Empirical Examination of Present Value Theory. Major Adviser: Prof. J. C. Gray.

James Edwin Campion, Jr., Minne-  
apolis

B.A. *cum laude* '64, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Effects of Managerial Style on Subordinates' Attitudes and Performance in a Simulated Organization Setting. Major Advisers: Profs. J. P. Campbell and M. D. Dunnette.

Shlomo Carmi, Kiriat-Motzkin, Israel

B.S.(Min.E.) with distinction '62, University of Witwatersrand, Union of South Africa; M.S. (Aero.E.) '66, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Energy Theory of Stability of Parallel Flows. Major Adviser: Prof. D. D. Joseph.

Robindra Chandra Chakravorti,  
Calcutta, India

B.A. '45, M.A. '48, University of Calcutta;  
M.A. '55, University of Michigan. Major: So-  
ciology. Minor: Supporting Program. Thesis:  
The Sikhs of El Centro: A Study in Social  
Integration. Major Adviser: Prof. D. A. Mar-  
tindale.

Lynette Yun Chau Chang, Honolulu,  
Hawaii

B.Ed. with honors '54, M.Ed. '60, University  
of Hawaii. Major: Education. Minor: Educa-  
tional Psychology. Thesis: The Ability of Sixth  
Grade Pupils to Use Certain Verbal Context  
Clues in Listening and Reading. Major Ad-  
viser: Prof. R. T. Lambert.

Sister Jeanne Concannon, Spokane,  
Wash.

B.A. '55, Holy Names College; M.A. '61, Mar-  
quette University. Major: English. Minor:  
Mass Communication. Thesis: The Poetry and  
Fiction of James Agee: A Critical Analysis.  
Major Advisers: Profs. S. H. Youngblood and  
J. C. Levenson.

William Pendleton Cooke, Orlando,  
Fla.

B.A. '58, Rollins College; M.A. '64, Univer-  
sity of Minnesota. Major: Spanish. Minor:  
Area Studies. Thesis: An Annotated Edition of  
the Play *Los Monteros de Espinosa*. Major Ad-  
viser: Prof. W. T. Pattison.

Gerald Lee Crane, Fairborn, Ohio

B.S. '62, Ball State Teachers College; M.S.  
'65, Ohio University. Major: Plant Pathology.  
Minor: Botany. Thesis: Mineral Oil as a Fol-  
iar Spray for the Potential Control of Cer-  
cospora Leaf-Spot and Virus Yellows Diseases  
of *Beta vulgaris* L. Major Adviser: Prof. Lucas  
Carpouzos.

Joan Ethelyn Curlec, Ft. Worth, Tex.

B.A. *cum laude* '50, Baylor University; M.A.  
'52, Ph.D. '57, Vanderbilt University. Major:  
Psychology. Minors: Psychiatry and Neurology.  
Thesis: A Comparison of Male and Female  
Patients in an Alcoholism Treatment Center.  
Major Adviser: Prof. R. D. Wirt.

Marvin William Daehler, Chadwick,  
Ill.

B.A. '64, University of Illinois; M.A. '66, Uni-  
versity of Minnesota. Major: Child Psychology.  
Minor: Psychology. Thesis: Children's Manipu-  
lation of Illusory Stimuli as an Aid in Dis-  
criminative Performance. Major Adviser: Prof.  
J. C. Wright.

Robert Lee Delorme, Minneapolis

B.A. '53, St. John's University; M.A. '62, Uni-  
versity of Minnesota. Major: Political Science.  
Minor: History. Thesis: The Political Basis of  
Economic Development: Mexico, 1884-1911,  
A Case Study. Major Adviser: Prof. R. T.  
Holt.

Claereda Marjorie Dethmers, New  
Ulm

B.A. '50, Macalester College; M.A. '59, Spec.  
in Ed. '60, University of Minnesota. Major:  
Educational Psychology. Minor: Psychology.  
Thesis: Self-Concept, Value Orientation, and  
Achievement Level of Lower Class Children  
in Two Types of Educational Programs. Major  
Adviser: Prof. J. D. Duker.

Stephen Charles Dodge, Decatur, Ill.

B.A. '63, University of Dubuque; M.A. '64,  
University of Minnesota. Major: History. Mi-  
nor: Political Science. Thesis: The History of  
the Development of the Venezuelan Guayana  
Region. Major Adviser: Prof. W. D. Beatty.

John Lee Doll, Minneapolis

B.S.(Ed.) '31, State Teachers College at Buf-  
falo; M.A. '32, University of Michigan. Major:  
Speech, Communication, and Theatre Arts. Mi-  
nor: English. Thesis: *The New York Dramatic  
Mirror* and the War Against Play Piracy in the  
United States, 1880-1909. Major Adviser: Prof.  
D. W. Thompson.

Dexter Richard Douglas, Wooster,  
Ohio

B.S.(Ed.) '62, Kent State University; M.S. '65,  
University of Wyoming. Major: Plant Pa-  
thology. Minor: Botany. Thesis: Factors In-  
fluencing the Survival and Infective Capabilities  
of *Fusarium oxysporum* f. sp. *Melonis* in the  
Soil. Major Adviser: Prof. C. J. Eide.

Harold Bruce Dreyer, Mankato

B.S. '52, Bemidji State College; M.A. '53,  
Spec. in Ed. '60, University of Minnesota. Ma-  
jor: Educational Psychology. Minor: Curricu-  
lum and Instruction. Thesis: The Transfer of  
Learned Phoneme-Grapheme Relationships to  
Learning New Letters and Words Among Kin-  
dergarten Children. Major Adviser: Prof. B. E.  
Balow.

John Stewart Elam, Mound

B.A. '63, M.S. '66, University of Minnesota.  
Major: Biochemistry. Minor: Organic Chem-  
istry. Thesis: The Degradation of Bacterial  
DNA to Mononucleotides Following Infection  
of *Escherichia coli* with T-2 Bacteriophage. Ma-  
jor Adviser: Prof. J. F. Koerner.

Michael Charles Emery, Minneapolis  
B.A. '62, M.A. '64, University of Minnesota.  
Major: Mass Communication. Minor: History.  
Thesis: The American Mass Media and the  
Coverage of Five Major Foreign Events, 1900-  
1950: The Russo-Japanese War, Outbreak of  
World War I, Rise of Stalin, Munich Crisis,  
Invasion of South Korea. Major Adviser: Prof.  
G. S. Hage.

Cesaria Pamarang Eugenio, Rosales,  
Pangasinan, Philippines  
B.S.(Ag.) '61, University of the Philippines;  
M.S. '65, University of Minnesota. Major:  
Plant Pathology. Minor: Genetics. Thesis:  
Factors Influencing the Biosynthesis of the  
Fungal Estrogen (F-2) and the Effects of F-2  
on Perithecia Formation by *Fusarium* Species.  
Major Adviser: Prof. C. M. Christensen.

John Lyle Evans, St. Louis Park  
B.A. '51, M.Ed. '57, Macalester College. Ma-  
jor: Education. Minor: Educational Psychology.  
Thesis: Two Aspects of Literary Appreciation  
Among High School Students, Judgment of  
Prose Quality and Emotional Responses to Lit-  
erature and Selected Aspects of Their Reading  
Interests. Major Adviser: Prof. Norine Odland.

Jerry Yu Fan, Taiwan, Republic of  
China  
B.S.(Eng.) '61, National Taiwan University;  
M.S. '65, University of Minnesota. Major:  
Mechanics and Materials. Minors: Mathemat-  
ics and Aeronautical Engineering. Thesis: Stress  
Analysis of a Fluid-Filled Porous Elastic Con-  
tinuum. Major Adviser: Prof. L. E. Goodman.

Dale Wade Fishbeck, Utica, S.D.  
B.A. '57, Yankton College; M.A. '59, Univer-  
sity of South Dakota. Major: Zoology. Minor:  
Botany. Thesis: A Study of Some Phases of the  
Ecology of *Rana sylvatica*, Le Conte. Major  
Adviser: Prof. J. C. Underhill.

Roland Henry Flint, Park River, N.D.  
B.A. '58, University of North Dakota; M.A.  
'60, Marquette University. Major: English. Mi-  
nor: Speech, Communication, and Theatre  
Arts. Thesis: Many Arrivals Make Us Live: A  
Study of the Early Poetics of Theodore  
Roethke, 1941-1953. Major Adviser: Prof. R. J.  
Foster.

James Richard Flis, St. Paul  
B.S. '58, M.A. '62, University of Minnesota.  
Major: Education. Minor: Educational Psy-  
chology. Thesis: A Longitudinal Survey of the  
Personal Business Achievement and Perma-  
nence of Learning of High School Students.  
Major Advisers: Profs. R. G. Price and C. J.  
Hoyt.

Gregory Rither Germaine, Minne-  
apolis  
B.A. '63, M.S. '66, University of Minnesota.  
Major: Microbiology. Minor: Biochemistry.  
Thesis: The Regulation of Galactokinase in  
*Escherichia coli*. Major Adviser: Prof. Palmer  
Rogers.

James Harlan Gilbertson, Spring Lake  
Park  
B.A. *magna cum laude* '63, University of Min-  
nesota. Major: Psychology. Minor: Neuropsy-  
chiatry. Thesis: A Study of Schizophrenic  
Thinking: Habit and Intention. Major Adviser:  
Prof. W. A. Russell.

Byron Neil Golie, Sacred Heart  
B.A. *magna cum laude* '58, Augsburg College;  
M.A. '62, University of Minnesota. Major:  
Educational Psychology. Minor: Curriculum  
and Instruction. Thesis: A Study of the Effects  
of an Orientation Treatment on New Teacher  
Perceptions of Organizational Climate and  
Other Selected Variables. Major Adviser: Prof.  
D. H. Blocher.

Robert Lincoln Goodale, Jr.,  
Minneapolis  
B.A. '52, Princeton University; M.D. '56,  
Columbia University; Ph.D. in Surgery '67,  
University of Minnesota. Major: Physiology.  
Minor: Supporting Program. Thesis: Effect of  
Hypoxia and Glycolytic Blockade Upon Alve-  
olocapillary Permeability to Albumin. Major  
Adviser: Dr. M. B. Visscher.

Betty Radley Green, St. Louis Park  
B.A. *cum laude* '63, M.A. '65, University of  
Minnesota. Major: Sociology. Minor: Psy-  
chology. Thesis: The Role of Peer Groups in  
Delinquent Behavior. Major Adviser: Prof. E.  
D. Monachesi.

Leigh Edmund Grosenick, Alexandria  
B.A. '60, M.A.P.A. '65, University of Minne-  
sota. Major: Political Science. Minor: Support-  
ing Program. Thesis: The Many Faces of Inter-  
local Cooperation: A Test of the Social and  
Economic Status Theory. Major Adviser: Prof.  
F. J. Sorauf.



Halldor Thorkell Gudjonsson,  
Reykjavik, Iceland

Abitur '59, Menntaskolium College, Iceland; diplom '61, University at Erlangen, Germany. Major: Mathematics. Minor: Physics. Thesis: An Investigation of Limitultra Products. Major Adviser: Prof. Erwin Engeler.

Mireille Guillet-Rydell, San Bernardino, Calif.

Licencie es Lettres '51, University of Bordeaux, France; M.A. '58, University of Minnesota. Major: French. Minor: Spanish. Thesis: The Bride-Winning Theme in French Medieval Literature. Major Adviser: Prof. J. L. Waldauer.

Michael Hahn, San Francisco, Calif.

B.A. '64, University of California. Major: Psychology. Minors: Psychiatry and Neurology. Thesis: The Role of Brain Dysfunction in the Generation of Inhibition Potential of the Rotary Pursuit and Inverted Alphabet Printing Tasks. Major Adviser: Prof. M. J. Meier.

Kenneth Arnold Hanninen, Cloquet

B.S. '59, M.A. '64, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Effect of Texture on Tactually Perceived Length in Children. Major Adviser: Prof. M. C. Reynolds.

Orion Donald Hegre, Minneapolis

B.A. '64, University of Minnesota. Major: Anatomy. Minor: Zoology. Thesis: A Study of Cultures of Pancreas From Fetuses of Normal and Diabetic Rats and of Such Cultures Grafted into Maternal Hosts. Major Advisers: Drs. Arnold Lazarow and L. J. Wells.

David Allison Heiberg, Minneapolis

B.A. *magna cum laude* '60, University of Minnesota. Major: Psychology. Minor: Neuropsychology. Thesis: Psychometric Correlates Within a Youthful Offender Population. Major Adviser: Prof. Auke Tellegen.

Karen Matison Hess, Bloomington

B.A. *magna cum laude* '61, B.S. with high distinction '61, M.A. '63, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: The Language Attitudes and Beliefs of Minnesota Elementary and High School English Teachers. Major Advisers: Profs. S. B. Kegler and H. B. Allen.

Ann Lee Stocking Heuschele,  
Hastings

B.S. '60, M.S. '61, University of Michigan. Major: Zoology. Minors: Entomology, Biochemistry, and Botany. Thesis: The Phenology of Macroenthos in a Mississippi River Floodplain Lake. Major Adviser: Prof. J. C. Underhill.

Jacque Jerome Hohlfelder, St. Paul

B.Physics with distinction '60, M.S. '65, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Development of a High Abundance Sensitivity Mass Spectrometer and Its Application in the Measurement of the Half-Life of Manganese-53. Major Adviser: Prof. W. H. Johnson.

Charles Russel Hopkins, Villard

B.S. '60, St. Cloud State College; M.A. '66, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Measure of Economic Understanding and General Business Knowledges of Tenth Grade Students. Major Adviser: Prof. R. G. Price.

Robert Woolman Houghton, Media, Pa.

B.A. '63, Oberlin College. Major: Physics. Minor: Mathematics. Thesis: A Nuclear Spin Echo Study of  $Mn_{2-x}Cr_xSb$ . Major Adviser: Prof. W. V. Weyhmann.

William Andrew Hustrulid, St. Paul

B.S. with distinction '62, M.S.M.E. '65, University of Minnesota. Major: Mineral Engineering. Minor: Supporting Program. Thesis: Theoretical and Experimental Study of Percussive Drilling of Rock. Major Adviser: Prof. Charles Fairhurst.

Joyce Kilmer Hvistendahl, Ames, Iowa

B.A. '41, Augustine College; M.A. '50, University of Oregon. Major: Mass Communication. Minor: Sociology. Thesis: Role Conflict and the Reporting of Public Records by Iowa Publishers. Major Adviser: Prof. P. J. Tichenor.

Alan Parker Jackman, Shawnee-Mission, Kan.

B.A. '63, Rice University. Major: Chemical Engineering. Minor: Supporting Program. Thesis: The Dynamics and Optimal Control of the Tubular Pyrolytic Reactor. Major Adviser: Prof. Rutherford Aris.

Carol Elizabeth Jenson, Hartland

B.A. *cum laude* '61, St. Olaf College; M.A. '63, Brown University. Major: History. Minor: Political Science. Thesis: Agrarian Pioneer in Civil Liberties: The Nonpartisan League in Minnesota During World War I. Major Adviser: Prof. P. L. Murphy.

Dewey Eugene Johnson, Litchfield

B.A. *cum laude* '54, St. Olaf College; M.B.A. '61, University of Michigan. Major: Business Administration. Minor: Supporting Program. Thesis: A Comparison Between the Likert Management Systems and Performance in Air Force ROTC Detachments. Major Adviser: Prof. R. K. Gaumnitz.

John Finbar Jones, Hong Kong,  
Republic of China

M.S.W. '66, University of Michigan; M.A.P.A. '67, University of Minnesota. Major: Social Work. Minor: Public Administration. Thesis: The Use of Volunteers in American Social Welfare During the Depression. Major Adviser: Prof. Gisela Konopka.

Helen Holt Juliar, Minneapolis

B.S. '64, University of Wisconsin; M.A. '66, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Relationship of Teacher Evaluation of Pupil Behavior to Tested Achievement and Assigned Marks. Major Adviser: Prof. B. E. Balow.

Wayne Thomas Kasprzak, St. Paul

B.Physics with distinction '63, M.S. '65, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Structure of the Lower Thermosphere. Major Adviser: Prof. A. O. C. Nier.

Melvin Hubert Keys, Euclid, Ohio

B.S.(Chem.) '62, Case Institute of Technology. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: Structure and Function of Sperm Whale Myoglobin. Major Adviser: Prof. R. W. Lumry.

Richard Eric Kihlstrom, Evanston, Ill.

B.A. with distinction '64, Purdue University. Major: Economics. Minor: Mathematics. Thesis: On the Use of Discrete Prior Distributions in Bayesian Decision Theory. Major Adviser: Prof. Clifford Hildreth.

Yung Dai Kim, Seoul, Korea

B.S. '61, State College of Washington; M.S. '63, University of Idaho. Major: Physical Chemistry. Minor: Supporting Program. Thesis: The Effect of pH, Virtual Substrates and Inhibitors on the Conformational States of  $\alpha$ -Chymotrypsin at Alkaline pH Values. Major Adviser: Prof. R. W. Lumry.

Andrew Arthur King, Glenview, Ill.

B.A. '59, M.A. '64, University of Minnesota. Major: Speech, Communication, and Theatre Arts. Minor: Sociology. Thesis: The Metaphor in Civil Rights Oratory: The Rhetoric of Accommodation. Major Adviser: Prof. R. L. Scott.

Charles William King, Minneapolis

B.A. *cum laude* '54, Johnson Bible College; M.A. '56, University of Pittsburgh. Major: Education. Minor: Educational Psychology. Thesis: The Relationship of Personal and Environmental Factors to Faculty Service in Church Related Colleges. Major Adviser: Prof. R. E. Eckert.

Donald Maurice Knutson, Foley

B.S. '57, M.S. '65, University of Minnesota. Major: Forestry. Minor: Plant Pathology. Thesis: Wetwood in Trembling Aspen (*Populus tremuloides* Michx). Major Adviser: Prof. E. L. Sucoff.

Michael Charles Kotzin, Chicago, Ill.

B.A. '62, University of Chicago; M.A. '65, University of Minnesota. Major: English. Minor: Art History. Thesis: Dickens and the Fairy Tale. Major Adviser: Prof. G. R. Stange.

John Karl Gerhard Kramer, Winnipeg,  
Manitoba, Canada

B.S. with honors '63, M.S. '65, University of Manitoba. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Synthesis and Characterization of Neutral Diol Plasmalogen. Major Adviser: Prof. H. K. Mangold.

Rolf Eric Lagerquist, Minneapolis

B.A. '61, University of Minnesota. Major: Physiology. Minor: Physical Chemistry. Thesis: The Effect of Testicular Hyaluronidase Upon Capillary Permeability. Major Adviser: Dr. J. A. Johnson.

Bruce Allen Langager, Willmar

B.A. *cum laude* '64, Augsburg College. Major: Organic Chemistry. Minor: Supporting Program. Thesis: Acidic Rearrangements of Salts of 5-Nitro-6-Substituted-2-Norbornenes. Major Adviser: Prof. W. E. Noland.

Rollin Edward Langseth, St. Paul

B.S. with high distinction '62, M.S.E.E. '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Adaptive Approach to Receiving Array Optimization Using Stochastic Approximation. Major Adviser: Prof. R. F. Lambert.

Ronald Martin Lanner, Logan, Utah

B.A. '52, M.F. '58, Syracuse University. Major: Forestry. Minor: Supporting Program. Thesis: The Pine Shoot Primary Growth System. Major Adviser: Prof. S. S. Pauley.

Charles Urban Larson, Minneapolis

B.S. '62, M.A. '66, University of Minnesota. Major: Speech-Communication. Minor: Supporting Program. Thesis: Leadership Emergence and Attention Span: A Content Analysis of the Time-Devoted-to-Themes Discussed in the Task-Oriented Small Group. Major Adviser: Prof. E. G. Bormann.

Lynn Allen Lee, Platteville, Wis.

B.A. '56, Augustana College; M.A. '57, University of South Dakota. Major: American Studies. Thesis: The Significant Popular Novel as American Literature, 1920-1930; 1950-1960. Major Adviser: Prof. M. C. Turpie.

Suei Yuen Paul Lien, Taichung,  
Taiwan

B.S.E. '56, National Taiwan University; M.S. Met.E. '67, University of Minnesota. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: The Temperature Dependence of the Electrical Resistivities of Liquid Sodium, Potassium and Rubidium at Constant Volume. Major Adviser: Prof. J. M. Sivertsen.

Kao-Hong Lin, Taipei, China

B.S.(Eng.) '64, National Taiwan University; M.S.A.E. '67, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: An Analysis of the Gaseous Transport in the Airways and the Design of the Bronchial Tree. Major Adviser: Prof. T. A. Wilson.

James Calvin Loblaw, Donovan, Ill.

B.S. '61, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Radiolysis of Aqueous Benzene Solutions. Major Adviser: Prof. H. S. Isbin.

John Donald McCabe, Milwaukee,  
Wis.

B.A. '60, M.A. '61, Marquette University. Major: English. Minor: Philosophy. Thesis: The Comic in the Poetry of Chaucer: Congruence of 'Sentence' and 'Solaas.' Major Adviser: Prof. J. W. Clark.

Leon Kenneth Miller, Minot, N.D.

B.A. *magna cum laude* '63, Harvard College. Major: Child Psychology. Minor: Psychology. Thesis: A Developmental Study of Tachistoscopic Recognition Under Conditions of Partial Report. Major Adviser: Prof. H. L. Pick, Jr.

Ralph Dudley Miller, Detroit, Mich.

B.A. '63, University of Michigan. Major: Psychology. Minor: Supporting Program. Thesis: Some Psychophysiological Correlates of Two-Flash Fusion Threshold. Major Adviser: Prof. D. T. Lykken.

Alan Robert Moffitt, London, Ontario,  
Canada

B.A. '63, M.A. '65, University of Western Ontario. Major: Child Psychology. Minor: Psychology. Thesis: Speech Perception by Infants. Major Adviser: Prof. W. R. Charlesworth.

Arvid Monroe Monson, Pequot Lakes

B.S. with distinction '59, M.S. '64, University of Minnesota. Major: Genetics. Minor: Plant Pathology. Thesis: Studies on the Genetics of *Streptomyces violaceoruber*. Major Adviser: Prof. S. G. Bradley.

James Fredrick Morgan, Minneapolis

B.A. '63, St. Mary's College; M.S. '66, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Elastic Scattering of Alpha Particles from  $C^{12}$  Between 19 and 30 MeV. Major Adviser: Prof. R. K. Hobbie.

David Brown Morris, Charlottesville,  
Va.

B.A. '64, Hamilton College; M.A. '67, University of Minnesota. Major: English. Minor: Latin. Thesis: The Religious Sublime: Judaeo-Christian Tradition in Eighteenth-Century English Poetry and Criticism. Major Adviser: Prof. S. H. Monk.

Lawrence Bowen Morse, Penn Yan,  
N.Y.

B.A. '64, Oberlin College. Major: Economics. Minor: Supporting Program. Thesis: The Peruvian Experience with Fixed and Flexible Exchange Rates: An Empirical Examination. Major Adviser: Prof. Carlos Diaz.

Richard David Murphy, Denver, Colo.

B.A. '61, University of Colorado; M.A. '64, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Ground-State Properties of Liquid and Solid Helium and Liquid  $He^3$ - $He^4$  Mixtures. Major Adviser: Prof. L. H. Nosanow.

**Kuchibhotla Suryanarayana Murthy,**  
Madras, India

B.Pharm. '61, M.Pharm. '62, Andhra University, India; M.S. '66, University of Minnesota. Major: Pharmaceutics. Minor: Physical Chemistry. Thesis: Chemical Reactivity in Structured Liquid Phases. Major Adviser: Prof. E. G. Rippie.

**Roland Dale Nichols,** Eau Claire,  
Wis.

B.S.(B.Ad.) *summa cum laude* '60, M.A. '62, Ohio State University. Major: Geography. Minor: Anthropology. Thesis: Lakeshore Leisure Homes in Northwestern Wisconsin: A Geographic Analysis of the Twin Cities Ownership Pattern. Major Adviser: Prof. J. O. M. Brock.

**Mary Read Nicholson,** Mill Valley,  
Calif.

B.A. '59, Beloit College; M.A. '61, University of Minnesota. Major: Anthropology. Minor: Law. Thesis: Legal Change in Tanzania as Seen Among the Sukuma. Major Adviser: Prof. E. A. Hoebel.

**Kjell Nummedal,** Hokksund, Norway

B.S. with distinction '61, M.S. '62, Stanford University. Major: Electrical Engineering. Minor: Physics. Thesis: Pulse Formation in Lasers. Major Adviser: Prof. H. R. Risken.

**James Francis O'Brien,** Drexel Hill,  
Pa.

B.S.Ch. '64, Villanova University. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Magnetic Resonance Study of Inorganic Salts in Acetonitrile and Propionitrile. Major Adviser: Prof. W. L. Reynolds.

**Vanetta Suydam Ogland,** Hudson,  
Wis.

B.S.(Ed.) '46, M.A. '47, University of Missouri. Major: Educational Psychology. Minor: Supporting Program. Thesis: Performance of Special Class Educable Mentally Retarded Children on the ITPA and Other Language Measures as a Function of Selected Variables. Major Advisers: Profs. M. C. Reynolds and M. C. Templin.

**Richard Alfred Olson,** Elroy, Wis.

B.A. '59, Luther College; M.A. '65, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Studies in the Coinage of the Arsacid Rulers of Parthia from Mithradates I to Artavasdes. Major Adviser: Prof. T. B. Jones.

**Donald Frederick Oltz, Jr.,** Saginaw,  
Mich.

B.S. '62, Alma College. Major: Botany. Minor: Geology. Thesis: Numerical Analyses of Paleontological Data from Cretaceous and Early Tertiary Sediments in East Central Montana. Major Adviser: Prof. J. W. Hall.

**Song Bai Park,** Seoul, Korea

B.S. '51, Seoul National University; M.S.E.E. '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Optimization of Non-Uniform Transmission Line Networks. Major Adviser: Prof. B. A. Shenoi.

**Ronald Irvin Pick,** Minnesota Lake

B.S. '64, University of Minnesota. Major: Nutrition. Minor: Biochemistry. Thesis: Nutritive Value of High Lysine Corn: Availability and Deficiencies of Essential Amino Acids for Growing Rats and Swine. Major Adviser: Prof. R. J. Meade.

**Stuart Pittel,** Springfield, Pa.

B.S. '64, Rensselaer Polytechnic Institute. Major: Physics. Minor: Mathematics. Thesis: Single Hole States in Medium Weight Nuclei. Major Adviser: Prof. B. F. Bayman.

**Ferdinand Joseph Plourde, Jr.,** Minneapolis

B.A. *cum laude* '61, M.A. '64, University of Minnesota. Major: English. Minor: French. Thesis: Time Present and Time Past: Autobiography as a Narrative of Duration. Major Adviser: Prof. G. R. Stange.

**Robert Daniel Pomije,** Burnsville

B.S. '50, College of St. Thomas; M.A. '56, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Factors Related to the Secondary School Principals as a Career Choice. Major Adviser: Prof. C. P. Hooker.

**Dallas John Reed,** Pocatello, Idaho

B.A. '51, M.A. '55, Montana State University. Major: Sociology. Minor: Anthropology. Thesis: Differential Institutional Image: A Comparative Analysis of Prison Philosophies. Major Adviser: Prof. E. D. Monachesi.

**Arnold Melvin Rehmann,** Burnsville

B.S. with distinction '53, M.A. '60, University of Minnesota. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: Guided Reading at the Seventh Grade Level—An Experimental Study. Major Adviser: Prof. B. E. Balow.

Josefina R. Resurreccion, Ilocos Sur,  
Philippines

B.S.E. '59, National University, Philippines;  
M.Ed. '64, National College of Education. Major:  
Education. Minor: Educational Psychology.  
Thesis: Identifying and Classifying Organiza-  
tional Climates of Elementary Schools in Ma-  
nila. Major Adviser: Prof. R. T. Lambert.

Hyun-Ku Rhee, Seoul, Korea

B.S.E. '62, Seoul National University. Major:  
Chemical Engineering. Minor: Mathematics.  
Thesis: Studies on the Theory of Chromatog-  
raphy. Major Adviser: Prof. N. R. Amundson.

August Rivera, Jr., Waukegan, Ill.

B.A. '57, Northern Illinois State Teachers Col-  
lege; M.A. '61, Roosevelt University. Major:  
Educational Administration. Minor: Support-  
ing Program. Thesis: A Study of Factors Relat-  
ing to Teacher Turnover in the Minneapolis  
Public School System. Major Adviser: Prof.  
N. C. Nickerson, Jr.

Donnita Lamb Rogers, Amboy, Ind.

B.A. '59, Earlham College; M.A. '60, Univer-  
sity of Minnesota. Major: Spanish. Minor: Art  
History. Thesis: Horace Walpole, Amateur  
Architect and Art Historian. Major Adviser:  
Prof. S. H. Monk.

Gunta Rozentals, Riga, Latvia

B.A. *cum laude* '56, M.A. '61, University of  
Minnesota. Major: Spanish. Minor: French.  
Thesis: Realism in *Alta Comedia*. Major Ad-  
viser: Prof. W. T. Pattison.

Susan Teommey Rydell, Minneapolis

B.A. *magna cum laude* '62, Smith College. Ma-  
jor: Psychology. Minor: Supporting Program.  
Thesis: Sequential Variations in Letter Pre-  
sentation of Three- and Six-Letter Nonsense  
Syllables. Major Adviser: Prof. H. L. Pick, Jr.

Arthur Louis Schipper, Jr., St. Paul

B.S.(For.) '62, University of the South; M.S.  
'65, University of Minnesota. Major: Plant  
Pathology. Minor: Biochemistry. Thesis: A  
Beta Amylase Activator, Resident in Rust  
Uredospores, Active in Starch Depletion of  
Rust Infected Tissue. Major Adviser: Prof. C.  
J. Mirocha.

Dean George Schneider, Mankato

B.S. '58, Mankato State College; M.S. '61,  
University of Illinois. Major: Wildlife. Minor:  
Supporting Program. Thesis: Movements of  
Female Raccoons and their Young as Deter-  
mined by Radio-Tracking. Major Adviser: Prof.  
J. R. Tester.

Raghubir Prasad Sharma, Bharatpur,  
Rajasthan, India

B.V.S. & A.H. '59, University of Rajasthan,  
India. Major: Veterinary Pharmacology. Mi-  
nor: Biochemistry. Thesis: Distribution and  
Metabolism of Thiopental in Large Domestic  
Animals. Major Advisers: Profs. C. M. Stowe  
and A. L. Good.

Tribeni Singh Sharma, Patna Bihar,  
India

G.B.V.C. '47, Bihar Veterinary College; M.S.  
'63, University of Wyoming. Major: Veteri-  
nary Bacteriology. Minor: Supporting Program.  
Thesis: Characterization and Comparative  
Studies of *Vibriosis* Associated with Bluecomb  
Disease (Transmissible Enteritis) of Turkeys.  
Major Adviser: Prof. B. S. Pomeroy.

Brandon Burrell Smith, Lyndon  
Station, Wis.

B.S. with high distinction '58, M.S. '62, Stout  
State College. Major: Education. Minor: Sup-  
porting Program. Thesis: Testing an Empiri-  
cal Procedure for Identifying Technical Asso-  
ciative Conceptual Structure: Discrimination  
Between Flexible and Inflexible Radio and  
Television Repairmen. Major Adviser: Prof.  
Jerome Moss, Jr.

Charles Howard Smith, St. Paul

B.Mus. '47, M.Mus. '49, University of South-  
ern California. Major: Music. Minor: Music  
Education. Thesis: The Hymnody of the Free  
Churches of Scandinavia: Its Background and  
Development. Major Adviser: Prof. Johannes  
Reidel.

Mark Arthur Smith, Wilmington,  
Ohio

B.S. '63, Kent State University; M.S. '66, Uni-  
versity of Minnesota. Major: Plant Pathology.  
Minor: Botany. Thesis: Effects of Light on the  
Development of Bacterial Blight of Soybeans  
and the Histological and Histochemical  
Changes in Soybean Leaves Infected with  
*Pseudomonas glycinea*. Major Adviser: Prof.  
B. W. Kennedy.

Wilfred Irvin Smith, Ottawa, Canada

B.A. '43, M.A. '46, Acadia University. Major:  
History. Minor: Political Science. Thesis: The  
Origins and Development of the Office of  
High Commissioner. Major Adviser: Prof. J. L.  
Altholz.

Marilyn Jeanne Sorum, Lansboro

B.A. magna cum laude '54, M.A. '58, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: Estimating the Probability of Misclassification. Major Adviser: Prof. R. J. Buehler.

Gilbert Franklin Stallknecht, Baudette

B.S. '62, M.S. '66, University of Minnesota. Major: Plant Physiology. Minor: Biochemistry. Thesis: Carbon Dioxide Fixation in the Dark by Eredospores of *Uromyces phaseoli* and Its Relation to Nucleic Acid Metabolism during Germination. Major Adviser: Prof. C. J. Mirocha.

Dorothy Kellogg Stein, Minneapolis

B.A. '51, Cornell University. Major: Child Psychology. Minor: Psychology. Thesis: Attentional Sampling and Speech Perception in Children. Major Adviser: Prof. H. L. Pick, Jr.

George Edward Stevens, Cincinnati, Ohio

B.A. '58, Pacific University; M.A. '62, University of Minnesota. Major: Mass Communication. Minor: History. Thesis: A History of the Cincinnati Post. Major Adviser: Prof. W. E. Emery.

Gerald Edward Sullivan, Elgin, Ill.

B.D.A. '48, DePaul University; M.S.(Ed.) '56, Northern Illinois State Teachers College. Major: Speech, Communication, and Theatre Arts. Minor: Supporting Program. Thesis: Claudia Cassidy and American Theatre Criticism. Major Adviser: Prof. A. H. Ballet.

John Philip Sweet, Pittsburgh, Pa.

B.A. cum laude '61, University of Notre Dame. Major: Chemical Engineering. Minor: Mathematics. Thesis: Gamma Radiation Induced Chlorination of Benzene. Major Adviser: Prof. H. S. Isbin.

Donald Robert Thompson, Jr.,  
Sidney, Ohio

B.S.(Physics) with honors '64, Case Institute of Technology. Major: Physics. Minor: Mathematics. Thesis: Study of Few-Nucleon Systems Using the Resonating-Group Method. Major Adviser: Prof. Y. C. Tang.

Ronald Ernest Tinney, Victoria,  
British Columbia, Canada

B.A. '54, University of British Columbia. Major: Educational Psychology. Minor: Education. Thesis: The Effect of Training in Test-Taking Skills on the Reading Test Scores of Fifth Grade Pupils of Varying SES Levels. Major Adviser: Prof. B. E. Balow.

Frank Yu Fang Tsai, Tsing Tao,  
China

B.S. '55, National Taiwan University; B.S.C.E. '60, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: The Turbulent Boundary Layer in the Flow of Dilute Solutions of Linear Macromolecules. Major Adviser: Prof. J. F. Ripken.

Joseph Martin Vargas, Jr., Tiverton,  
R.I.

B.S.(Agri.) '63, University of Rhode Island; M.S. '65, Oklahoma State University. Major: Plant Pathology. Minor: Botany. Thesis: The Effect of Radiation, Temperature, Medium, and Certain Chemicals on the Sporulation of *Helminthosporium dictyoides*. Major Adviser: Prof. R. D. Wilcoxson.

George William Walster, Pendleton,  
Ore.

B.A. '64, Stanford University. Major: Educational Psychology. Minor: Psychology. Thesis: Unequal Cell Frequencies, Arbitrary Weights, and Analysis of Variance. Major Adviser: Prof. R. O. Collier, Jr.

David Franklin Wass, Bigelow

B.S. with distinction '63, University of Minnesota. Major: Animal Science. Minor: Agricultural Economics. Thesis: Influence of 21- and 63-Day Weights on Development of Growing Swine and on Carcass Characteristics. Major Adviser: Prof. R. J. Meade.

Barry Kern Weinhold, Athens, Ohio

B.S. '59, Millersville State Teachers College. Major: Educational Psychology. Minor: Psychology. Thesis: The Development of Construct Validity for Vocational Problem Solving Ability Through the Use of a Simulated Environment Game. Major Adviser: Prof. D. H. Blocher.

Sheldon Allen Weintraub, Wilmington,  
Del.

B.A. '64, University of Delaware. Major: Psychology. Minor: Supporting Program. Thesis: Cognitive and Behavioral Impulsivity in Internalizing, Externalizing and Normal Children. Major Adviser: Prof. Norman Garnezy.

David Calvin Weisser, New York,  
N.Y.

B.S. '63, City College of New York; M.S. '66, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Search for an Excited State in  $^4\text{He}$  Near 30 MeV and An Optical Model Analysis of Alpha Particle Scattering. Major Adviser: Prof. R. K. Hobbie.

James Norton Wemple, Wilmington,  
Del.

B.S. '63, University of Delaware. Major: Organic Chemistry. Minors: Physical Chemistry and Biochemistry. Thesis: The Biosynthesis of Cinchona Alkaloids. Major Adviser: Prof. Edward Leete.

David Patrick Werlich, Minneapolis

B.A. '63, M.A. '67, University of Minnesota. Major: History. Minor: Latin American Area Studies. Thesis: The Conquest and Settlement of the Peruvian Montana. Major Adviser: Prof. W. D. Beatty.

Richard Russell Weyrick, Grand  
Rapids

B.S. with distinction '53, M.F. '61, University of Minnesota. Major: Forestry. Minors: Economics and Public Administration. Thesis: The Impact of Public Efforts in Forestry Financial and Technical Assistance Programs on the Management of Private Forest Lands in Southern Minnesota. Major Adviser: Prof. F. D. Irving.

John Benson Wood, Hampton, Va.

B.S. '56, University of Wisconsin; M.A. '62, University of Minnesota. Major: Education. Minor: Mathematics. Thesis: The Bayesian Probability of Accepting an Incorrect Directional Conclusion and Its Relation to the P-Value. Major Adviser: Prof. D. G. MacEachern.

James Thomas Woychick, Mankato

B.A. '52, College of St. Thomas; B.S. '55, Mankato State Teachers College; M.A. '63, University of Minnesota. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: The Effect of Frustration Level Oral Reading on Emotionally Disturbed Male Adolescents. Major Adviser: Prof. B. E. Balow.

David Laverne Wright, Byron

B.S.(Ed.) '59, M.D. '66, University of Minnesota. Major: Anatomy. Minor: Zoology. Thesis: Quantitative Studies of Pancreatic Islet Components Under Various Experimental Conditions. Major Adviser: Dr. Arnold Lazarow.

Carson Kung-Hsien Wu, Anhwei,  
China

B.S. '57, Taiwan Provincial College of Agriculture; M.S. '62, University of Minnesota. Major: Agricultural Economics. Minor: Agricultural Engineering. Thesis: An Economic Investigation of the Problem of Water Quality Management in the Twin Cities Upper Mississippi River Area. Major Adviser: Prof. P. M. Raup.

Aristides Antony Yiannoulos,  
Athens, Greece

B.S. with distinction '64, M.S.E.E. '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: On the Limiting Noise of Low-Light-Level Image Pick-Up Tubes for Television Cameras. Major Adviser: Prof. Aldert van der Ziel.

Carl Henry Yoder, Stevens Point,  
Wis.

B.Mus.Ed. '38, North Central College; M.S. '57, University of Wisconsin. Major: Education. Minor: Music. Thesis: Music Reading Ability of Children in Elementary Grades Three, Four, Five, and Six in Three Different Teaching Situations. Major Adviser: Prof. A. F. Caswell.

# Academic Costume

On appropriate occasions, anyone with a college or university degree may wear academic costume consisting of a gown, a hood, and a cap. By observing the kind of academic costume a person wears, it is possible to know the name of the university from which he graduated, as well as the degree which he holds, and, in some cases, the field of his major interest as well.

The long, pointed sleeve of the gown indicates a Bachelor's degree; the long, closed sleeve with a slit for the arm indicates a Master's degree; and the open sleeve marks a Doctor's degree. Bachelors' and Masters' gowns are black in color and are without any trimming. Generally, the Doctor's gown is black also, but some universities, particularly those abroad, prescribe such festive colors as red, crimson, or green. All Doctors' gowns have velvet trimming on the front facings and crossbars on the sleeves. This trimming may be black, or it may match the color of the edging of the hood and thus identify the profession or field of major interest of the wearer.

At a commencement it is quite proper to wear the gown—but not the hood—appropriate for the degree which is to be received. The only hoods worn at commencements are for degrees which have already been received. Thus only those students and faculty members who have already received college or university degrees wear hoods. Anyone who has a degree from the University of Minnesota may wear a hood decorated with a maroon chevron on gold background. The length and shape of the hood indicates whether the wearer has earned a Bachelor's, a Master's, or a Doctor's degree. The velvet edging on the hood indicates the field in which the degree was granted. For example, dark blue signifies Philosophy; light blue, Education; green, Medicine; lilac, Dentistry; orange, Engineering; russet, Forestry; drab, Business; olive green, Pharmacy; purple, Law; gray, Veterinary Medicine; golden yellow, Science; and white, Arts and Letters.

Shoulder insignia on the gowns of candidates for degrees indicate that the candidates are honor students.

Caps, generally mortarboards with tassels, have significance, too. The Doctor's tassel may be black or gold. Masters' and Bachelors' tassels are black; but at University of Minnesota commencements—upon the authority of the University Senate Committee on Functions—candidates for the Bachelors' and Associates' degrees wear tassels which indicate their schools or colleges by color as follows:

(In the order of march)

General College .....	crimson and white
College of Liberal Arts .....	white
University College .....	old gold and white
College of Biological Sciences .....	golden yellow
Institute of Technology .....	orange
College of Agriculture, Forestry, and Home Economics .....	maize



College of Education .....	light blue
School of Business Administration .....	drab
College of Pharmacy .....	olive
Law School .....	purple
College of Medical Sciences .....	green
Graduate School .....	black

But once the Bachelor's degree has been received and the commencement is over, the graduate, should he wear academic costume again, will wear only the black tassel as does the holder of the Master's degree. Similarly, he will not in the future wear the shoulder insignia as a part of his academic dress even if he is an honor graduate. All graduates of the University should remember that the academic dress at this University conforms to the rules of the Intercollegiate Bureau of Academic Costume. This means that Minnesota academic insignia may be easily secured anywhere in the world. And it is always worn proudly and with distinction—for ours is a great University.

# *President's Reception*

**DECEMBER, 1968**

- The members of the graduating class, their families, and friends are invited to attend the President's Reception immediately after the commencement exercises. The Reception will be held in the Main Ballroom of the Coffman Memorial Union.
- Those in the receiving line will be President and Mrs. Moos; Ambassador and Mrs. Wiggins; and Mr. Edwin L. Haislet, Executive Director of Alumni Relations.
- Assisting in the Reception are students and staff members, including those from the Senate Committee on University Functions, the Navy ROTC, Gamma Sigma Sigma Service Sorority, and the Department of University Relations.