



UNIVERSITY OF MINNESOTA

*March Commencement, 1965*

SATURDAY EVENING, MARCH 20, 8:30 P.M.

NORTHROP MEMORIAL AUDITORIUM

# *The Board of Regents*

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The Honorable Charles W. Mayo, M.D., Rochester  
First Vice President and Chairman

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Gerald W. Heaney, Duluth

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, 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 fourteenth 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 we offer preparation. Since its founding, the University has awarded more than 177,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 38,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, 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, the Hormel Institute at Austin, and at 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 pos-

sible 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 biological-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 38,403 students currently attending the University represent 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 will institute an admissions policy based on controlled growth of total enrollment. This change in admissions requirements will hold the 1965-1966 enrollment to about 42,000 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 1963 LEGISLATURE granted the University \$63,502,050 for general operations and maintenance during the 1963-65 biennium. In addition, the University received \$8,028,242 for University Hospitals; \$5,309,483 for special appropriations, including special extension and research activities; \$12,478,700 for new buildings, land, and for the rehabilitation of existing buildings; and \$964,135 for University of Minnesota, Morris.

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 1963-64 showed that the University's current income amounted to \$120,996,183.65 and the current expenditures, transfers, and adjustments amounted to \$120,997,307.99. Of the total received, \$11,695,702.92 came from student tuition and fees; \$15,601,446.97 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; \$1,597,684.93 from intercollegiate athletics; \$17,881,472.49 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 \$8,117,653.39 from corporations, foundations, individuals, and endowment income for instruction, research,

prizes, scholarships, and the care of the sick. Also \$26,591,688.27 came from the federal government for instruction, research, and agricultural extension. The state provided \$39,510,534.68 or 32.7 per cent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$10,134,063.

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 various Special Project Programs, including scholarships, medical and technological research, and college service funds, which are 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

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**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Minneapolis Campus of the University this evening from 7:45 to 8:15 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Miss Jo Ann Johnson, CLA '65, 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.

**PRELUDE CONCERT:** From 8:00 to 8:30 p.m. the University Concert Band Ensemble, conducted by Assistant Professor of Music and Bandmaster Frank P. A. Bencriscutto, A.Mus.D., will play:

<i>Manhattan Beach</i>	- - - - -	John Philip Sousa
<i>Jubilation Overture</i>	- - - - -	Robert Ward
<i>Overture to "Candide"</i>	- - - - -	Leonard Bernstein

**PROCESSION:** The audience is requested to remain seated so that all can see the procession. At 8:30 p.m., Professor John W. Clark, 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 Clark, 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:

<i>Royal Fireworks</i>	- - - - -	George Frederick Handel
<i>March Processional</i>	- - - - -	Clare Grundman

**ON THE STAGE:** The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are Marshal Clark; Professor Richard B. Mather, Ph.D., College of Liberal Arts, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Captain Daniel R. Zenk, U.S.A., Assistant Professor of Military Science; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Lt. Commander Ian G. Pottinger, U.S.N., Assistant Professor of Naval Science; Professor Richard C. Jordan, Ph.D., Institute of Technology; Dean Robert J. Keller, Ph.D., College of Education; Associate Dean Charles V. Netz, Ph.D., College of Pharmacy; Dean Robert B. Howard, M.D., College of Medical Sciences; Vice President Stanley J. Wenberg, M.A., Educational Relationships and Development; Assistant Vice President Donald K. Smith, Ph.D., Academic Administration; The Reverend Gordon J. Dahl, B.Th., Adviser to Lutheran students and staff members on the St. Paul Campus of the University; Associate Professor James L. Gibbs, Jr., Ph.D., College of Liberal

Arts, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Dean Bryce L. Crawford, Jr., Ph.D., Graduate School; Vice President Laurence R. Lunden, LL.D., Business Administration; Assistant Dean Mellor R. Holland, D.D.S., School of Dentistry; Professor Nicholas A. Glaskowsky, Ph.D., School of Business Administration; Professor Frank H. Kaufert, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Assistant Dean Mitchell V. Charnley, M.A., University College; Lt. Colonel James Suttie, U.S.A.F., Professor of Aerospace Studies; Dean Horace T. Morse, Ph.D., General College; Professor Roy A. Schuessler, M.M., College of Liberal Arts; Mr. Charles Judd Ringer, President of the University of Minnesota Alumni Association; Professor Truman R. Nodland, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture, Marshal; Professor Rodney C. Loehr, 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 Concert Band Ensemble will play:

*Inaugural Fanfare* - - - - - Frank Bencriscutto

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

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 Reverend Gordon J. Dahl.

**SPEAKING FOR THE UNIVERSITY:** President O. Meredith Wilson.

**COMMENCEMENT ADDRESS:** Associate Professor James L. Gibbs, Jr., "Ethnocentrism in the University."

**CONFERRING OF ROTC CERTIFICATES:** Dr. Donald K. Smith will introduce Captain Zenk, Lt. Commander Pottinger, and Colonel Suttie, who will present the candidates for commissions in their respective services. Certificates of ROTC completion will be presented by President Wilson.

**PRESENTATION OF CANDIDATES:** Dr. Smith will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction: Dean Morse for the General College; Dean Ziebarth for the College of Liberal Arts; Assistant Dean Charnley for the University College; Professor Jordan for the Institute of Technology; Professor Kaufert for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Keller for the College of Education; Professor Glaskowsky for the School of Business Administration; Associate Dean Netz for the College of Pharmacy; Assistant Dean Holland for the School of Dentistry; Dean Howard for the College of Medical Sciences; Dean Crawford for the Graduate School.

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

**SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION:** Mr. Charles Judd Ringer.

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

**CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY:** Candidates for this degree will be presented individually by Dean Crawford to President Wilson, who will confer the degrees.

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

**RECESSIONAL:** The Concert Band Ensemble will play:

*Now Thank We All Our God* - - - - - Arr. Latham

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



# *Candidates for Commissions* \_\_\_\_\_

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

## **DEPARTMENT OF MILITARY SCIENCE**

### **Second Lieutenant, Artillery**

Michael J. Merriman, St. Paul

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

Miles W. Ottinger, St. Paul

### **Second Lieutenant, Infantry**

Curtis G. Brandon, Lakeville

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

James A. Poucher, Minneapolis

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

Scott V. Anderson, Minnetonka

## **DEPARTMENT OF NAVAL SCIENCE**

### **Ensign, USN**

Thomas L. Loosbrock, Lismore

Dennis H. Peters, Minneapolis

### **Ensign, SC, USN**

Robert J. Larson, Russell

# DEPARTMENT OF AEROSPACE STUDIES

## Second Lieutenant, USAF Reserve

Dennis H. Berry, Minneapolis  
Michael F. Carpenter, Minneapolis

John J. Garing, St. Paul  
Kenneth D. Gustafson, St. Cloud

# *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**

Alan Keith Brandon, St. Paul  
George Allen Dropik, South St. Paul

Charles Frederick Klun, St. Paul Park

### **Civil Engineering Technician Certificate**

Axicor Taynold Trihus, St. Paul

### **Engineering Science Certificate**

Kendall Richard McBroom, Savage  
John Dennis Ringstrom, Minneapolis

Laimonis Uldis Vitols, Bloomington

### **Industrial Engineering Technician Certificate**

Richard Charles Larsen, Robbinsdale

## **GENERAL COLLEGE**

### **Associate in Arts**

John Michael Adams, Minneapolis  
Robert William Adelmann, Minneapolis  
Victor Emanuel Albrecht, Minneapolis  
James Patrick Allard, Edina  
David Stuart Anderson, Excelsior  
Wesley Howard Anderson, Minneapolis  
Genevieve Eva Bastolich, Minneapolis  
Bruce John Bauer, Robbinsdale  
Marcia Lynne Behrens, St. Paul

Kenneth Alan Beissler, St. Paul  
Patricia Lee Biernat, Minneapolis  
Daniel Lewis Bishop, Minneapolis  
Gary Nobel Bloomquist, Richfield  
John Jacob Bosiger, Minneapolis  
Kenneth Edward Bressler, Crystal  
Robert Alan Brodie, Robbinsdale  
Benjamin Seth Bull III, Minneapolis  
Wesley Gale Burg, Minneapolis  
Edward Joseph Burns, Anoka  
James Armin Buscher, St. Paul  
Gary Allen Buss, Minneapolis

Caridad Mena Cabaya, Minneapolis  
 Jo H. Campe III, Hopkins  
 Keith Paul Carlson, Richfield  
 Orville James Carlson, Minneapolis  
 Edward Theodore Charbonneau, St. Paul  
 Dorothy Jane Christy, Wayzata  
 Charles F. Dent, St. Paul  
 Renee Marie Des Jarlais, Minneapolis  
 Delbert Michael Dorn, Minneapolis  
 Robert Edward Dykoski, Minneapolis  
 Myron Arthur Ekstrand, Minneapolis  
 Harold James Engen, Minneapolis  
 Gerald Richard Erickson, St. Paul  
 William Donald Erickson, Minneapolis  
 Terence Mark Ernst, South St. Paul  
 Michael Royce Fick, Edina  
 Robert Thomas Flesher, St. Paul  
 Joyce Marie Fren, St. Paul  
 Michael Edward Gabriel, St. Paul  
 Alan Raymond Gierke, Minneapolis  
 Gilbert Albert Girtz, St. Paul  
 Anita Yvette Glickman, St. Paul  
 Gary Herbert Gloege, Minneapolis  
 Paul William Gorder, Edina  
 Judy Belle Halgren, Minneapolis  
 Brian Micheal Hayes, Minneapolis  
 Douglas Raymond Hulleman, Minneapolis  
 John Kenneth Hultman, Coon Rapids  
 Elizabeth Ann Jenks, St. Louis Park  
 Thomas L. Jensen, New Ulm  
 Alan Sigurd Johnson, St. Paul  
 Brian Thomas Johnson, St. Paul  
 Kenneth Ray Johnson, Aitkin  
 Ted M. Johnson, Minneapolis  
 Timothy James Keran, Minneapolis  
 Gary Dale Kilby, Minneapolis  
 Charles Arthur Knapton, St. Paul  
 Mark Dennis Kuehnel, Minneapolis  
 Donald Cordell Kurth, St. Paul  
 Sydney Ruth Lasky, St. Paul  
 Allan Eugene Law, Minneapolis  
 Max Louis Lehman, Hinckley  
 William Ralph Lewis, Jr., Minneapolis  
 Ronald George Lillie, Minneapolis  
 Myron Gail Lindeman, Redwood Falls  
 Michael Charles Linder, Minneapolis  
 Michael Bruce Locketz, Minneapolis  
 James Matthews Lunde, Austin  
 Robert James Maas, Minneapolis  
 Josephine Teresa Macey, St. Paul  
 Gary Michael Magner, St. Paul  
 Maria Cecile Mangan, Minneapolis  
 Rolland John Mattson, Minneapolis  
 Oscar Lee Mayes, Jr., Minneapolis  
 Steven Warren McArthur, Richfield  
 Sheryl Ann McCready, Minneapolis  
 Douglas Ray Mehrkens, Bloomington  
 Elayne Helen Meltz, St. Louis Park  
 Scott Davis Miller, St. Paul  
 Dennis Kenneth Moe, Minneapolis  
 Judy Kathryn Wood Monson, West St. Paul  
 Roger Francis Mulvaney, Chicago, Ill.  
 Richard Owen Munson, St. Paul  
 Leon Bennett Nelson, Minneapolis  
 Richard Erland Nygren, Minneapolis  
 Ronald Barry O'Heron, Minneapolis  
 John William O'Keefe, Minneapolis  
 Karen Janet Olson, St. Paul  
 Douglas Raymond Ondick, Minneapolis  
 Frank Anthony Orsello, St. Paul  
 Mary Claire Parent, Hopkins  
 Michael Jerrold Pearlman, St. Paul  
 William Henry Perish, Minneapolis  
 Lauren August Peterson, Minneapolis  
 Kathleen Marion Phillippi, Minneapolis  
 William Henry Pihl, St. Paul  
 Carl Norman Pink, St. Paul  
 Marcia Lou Potter, St. Paul  
 Lawrence Robert Rand, Minneapolis  
 Gary Philip Reins, Bloomington  
 Charles Henry Robbins, Minneapolis  
 Thomas Lavern Rowell, Richfield  
 Steven Allan Rudoy, Minneapolis  
 John Curtis Russ, Minneapolis  
 Patricia Alice Joan Russ, Minneapolis  
 Richard John Scales, Minneapolis  
 Nicholas Martin Schneider, St. Paul  
 Ronald Robert Schwachtgen, Minneapolis  
 Michael Stuart Silverman, St. Paul  
 Richard Donald Slager, St. Paul  
 Douglas Raymond Solseth, Minneapolis  
 Thomas Edward Spivak, Minneapolis  
 Stanley Roy Sternal, Minneapolis

Carl Clarence Stoehr II, Idyllwild,  
Calif.  
Fred Louis Stoerzinger, St. Paul  
Lawrence Eldon Strandine, Minne-  
apolis  
Bruce Arthur Suneson, St. Paul  
Ernest Verne Suomela, Minneapolis  
Gary Allen Swoverland, Minneapolis  
Robert Gordon Taylor, Minneapolis  
Roger Sherman Tea III, Downers  
Grove, Ill.

L. Peter Thompson, Long Lake  
Leroy Lowell Venne, Coon Rapids  
Gary Hirth Voegtli, Minneapolis  
James Craig Voss, Minneapolis  
Michael James Votel, St. Paul  
Rosemary Jean Walsh, St. Paul  
Ronald Vernon Weberg, Minneapolis  
Eric Harding Wesman, St. Paul  
Darrell Glen Whitesell, Excelsior  
Keith Laurn Zeller, Minneapolis  
Noreen R. Zidel, St. Paul

## COLLEGE OF LIBERAL ARTS

### Associate in Liberal Arts

Marguerite Hanstad Allen, Minne-  
apolis  
Earl J. Getsug, St. Paul  
Donald Robert Larson, St. Paul  
Harold Nathan Lazar, St. Paul  
Victor Louis Luebke, St. Paul Park  
Jerome Wallace Mickelson, Minne-  
apolis

David Marten Olsen, Columbia  
Heights  
John William Peterson, St. Paul  
Vicky Ann Pulkrabek, Glencoe  
Judith Louise Shea, Le Sueur  
Robert John Spivey, Minneapolis  
Donald Joseph Turch, St. Paul  
John Francis Weigel, Minneapolis

### Bachelor of Arts

Judith Naomi Allen, Minneapolis  
Svend Andersen, Jr., Green Bay, Wis.  
Carol Marie Anderson, A.A., Worth-  
ington  
Deborah Jean Anderson, Richfield  
Marion Wesley Anderson, St. Paul  
Thomas Warren Anderson, St. Paul  
Jon Roger Andresen, St. Louis Park  
Gary William Ash, St. Paul  
Charles Edward Baker, Minneapolis  
Kenneth Allen Becker, Minneapolis  
Roger Dale Berglund, Minneapolis  
Scott Richard Berry, Minneapolis  
William A. Bodine, Minneapolis, *cum*

Robert Gaylord Budde, Jr., St. Paul  
Edward Matthew Burger, Duluth  
Arthur Francis Burke, Jr., Brooklyn  
Center  
Robert David Burow, West St. Paul  
Mary Joanne Cairns, Minneapolis  
Carol Ann Caspersen, Minneapolis  
Kathleen E. Watson Christenson,  
Minneapolis  
John William Claussen, Slayton  
Judith Ann Clinton, Minneapolis  
Roy Michel Close, St. Paul  
Marilyn M. Silberman Condon, Min-  
neapolis  
Earl Evan Crabb II, Minneapolis  
Robert John Desnick, Minneapolis  
Judith Burchett DeVries, Redwood  
Falls  
Michele Lynn Dorschner, Minneapolis  
Gary Lloyd Dugstad, Albert Lea  
Peggy Eileen Dunnette, Rochester  
James A. Ehrenberg, St. Paul

#### LAUDE

Norris Alden Bohm, Barnum  
David Arnold Bowen, Excelsior  
Curtis Glen Brandon, Lakeville  
Mary Barbara Braum, Minneapolis  
Lance Milo Bredvold, Rocky River,  
Ohio  
C. Burton Bruns, Minneapolis

Donald Lawrence Empson, St. Paul  
 David Charles Erickson, Duluth  
 Terrance Thomas Erickson, St. Cloud  
 Sheldon Victor Emanuel Ericson,  
 Stanchfield  
 Earl Terrence Erkkila, A.A., Minne-  
 apolis  
 Michael Thomas Fahey, St. Paul  
 Michael Keith Fefferman, St. Paul  
 Anthony Celestine Fischer, Lastrup  
 Stephen Anthony Fitzgerald, Minne-  
 apolis  
 John Nicholas Foster, Mound  
 John James Garing, St. Paul  
 Carl Dennis Gjertson, A.A., St. Paul  
 Linda Gail Rappaport Goff, Minne-  
 apolis  
 Louis Goldenberg, Minneapolis  
 Thomas Allan Goodoien, Minneapolis  
 Robert Albert Gorkin, St. Paul  
 Richard Joseph Graf, Jr., Minneapolis  
 Maya Marie Graubard, Minneapolis  
 William George Gray, White Bear  
 Lake  
 William John Grempp, Minneapolis  
 Laurie Ann Hanson, Faribault  
 Wayne Frederick Hass, Minneapolis  
 Ramona Ann Molde Herbert, A.A.,  
 Byron  
 Roger Dale Hibbing, A.A., Rochester  
 Dale Ernest Holden, Pine River  
 Thomas Joseph Houle, St. Paul  
 Patricia Anne Johnson, Zim  
 Virginia Walther Johnson, St. Paul  
 Carol Janice Jones, Minneapolis  
 Larry Charles Joswiak, South St. Paul  
 Glen Arthur Just, Mankato  
 Karen Ann Karkula, Minneapolis  
 Virginia Rae Kickert, Glenwood  
 Caroline Louise Kingsbury, Harmony  
 Ann Patricia Kirgis, A.A., Denver,  
 Colo.  
 Clark McHugh Kirkpatrick, Minne-  
 apolis  
 Kathy Ann Kortsch, Prior Lake  
 JoAnn Katherine Kuhn, South St. Paul  
 Timothy John Kurtti, Minneapolis  
 Roger Langley, Birmingham, England  
 Robert John Larson, Marshall  
 Joan Davis Lavick, Cloquet  
 Clifford J. Leabo, Minneapolis  
 Gratia Gayle Monson Lee, Minne-  
 apolis  
 Warren Keith Lerfald, A.A., Minne-  
 apolis  
 Karen L. Lucas, Redwood Falls  
 Richard Layne Luhman, Howard Lake  
 Jeffrey Michael Lyons, Minneapolis  
 Joanne Sue MacCallum, Duluth  
 Joan Carole Nelson Mahle, Interna-  
 tional Falls  
 Ronald Michael Margolis, Minne-  
 apolis  
 Suzanne McCauly Pollock Martin,  
 Northfield  
 Douglas Ian Marvy, St. Paul  
 Robert Wyman Marx, Minneapolis  
 Judith Jean McBeath, New Brighton  
 John David McHugh, Minneapolis  
 Nancy Jo Usan McKay, Minneapolis  
 Martha Carolyn Metzger, St. Louis  
 Park  
 Edward Francis Miller, Jr., Minne-  
 apolis  
 Hugh James Morris, Minneapolis  
 Gene Allen Moyer, Mankato  
 James Leo Nagel, St. Paul  
 Cynthia Lynn Naymark, Duluth, *CUM*  
*LAUDE*  
 David George Nelson, Minneapolis  
 Richard Talbot Nist, Jr., Minneapolis  
 Patricia Kay Nocton, Excelsior  
 Dean Marvin Odegaard, Minneapolis  
 John Patrick Olson, Minneapolis  
 Shannon Lucille Olson, Alexandria  
 York Epphard Onnen, Oldenburg,  
 Germany  
 Jolyon David Peterson, Minneapolis,  
*MAGNA CUM LAUDE*  
 Kem Alan Pomeroy, St. Paul  
 Mary Jane Potter, Minneapolis  
 James Arthur Poucher, A.A., Richfield  
 Keith Rykken Prekker, Minneapolis  
 Arlyn Tommy Prickett, Morris  
 Harrison Randolph, Jr., Minneapolis  
 William Stuart Raymond, Minne-  
 apolis  
 Richard Fred Roeben, A.L.A., Marine  
 on St. Croix  
 William Kent Rosenbloom, St. Paul  
 Fannie Marie Hill Johnson Salt, Min-  
 neapolis

William Floyd Scott Sappington,  
 Canon City, Colo.  
 Nancy Morrison Sauer, Rochester  
 Nancy Jane Nelson Sayeedi, Kansas  
 City, Mo.  
 Gretchen Lynda Schoen, Newport  
 Mary Ellen Schultz, New Brighton  
 Hazel Marie Just Schweitzer, Minne-  
 apolis  
 Ronald Duane Selander, St. Louis Park  
 Patrick Lee Shepard, Detroit Lakes  
 Carol Jean Sinks, St. Paul  
 Michael L. Skelly, Rochester  
 Barbara Jane Slife, Albert Lea  
 Robert Gerald Stein, Winona  
 Margaret Marie Storhoff, Lanesboro  
 Merlin Arthur Strand, Jr., Bloom-  
 ington  
 Mitzy Y. Sucre, Panama, Panama  
 Susan Andrea Sundberg, St. Paul  
 Lawrence Martin Swartz, St. Paul  
 Vaughn Eugene Tidemand, Minne-  
 apolis  
 Doylene Margaret Tittle, St. Paul  
 Thomas Aaron Tongen, St. Paul

Ruben Michael Trejo, A.A., St. Paul  
 Arvi Tiit Treude, Minneapolis  
 Patricia Ann Turgeon, Minneapolis  
 Marlene Margaret Uphus, Melrose  
 Donald Michael Volk, St. Paul  
 James Wilson Vollmer, Minneapolis  
 Charles John Wallstedt, Minneapolis,  
 MAGNA CUM LAUDE  
 Rud Carlton Wasson, Battle Lake  
 Harro Rudolf Weise, A.L.A., Minne-  
 apolis  
 Donald Leo Welch, A.A., St. Paul  
 James John Wengler, St. Paul  
 Janice Irene Goodwin Wengler, A.A.,  
 White Bear Lake  
 Robert Joe Wessels, Luverne  
 Sharlene Diane Weymouth, A.L.A.,  
 Minneapolis  
 Judith Ann Whiting, A.A., Rochester  
 Ruth Karen Widell, Minneapolis  
 John Raymond Wolf, St. Paul  
 Michael Joel Wolsted, Harmony  
 Lois Ann Wyland Wright, Minne-  
 apolis

## UNIVERSITY COLLEGE

### Bachelor of Arts

John Bertram Darling, Jr., St. Paul  
 John Preston Moe, Rochester

Judith Kay Turk, St. Paul

## INSTITUTE OF TECHNOLOGY

### Certificate in Science

Clifford Douglas Swedenburg, A.L.A., B.B.A., St. Paul

### Bachelor of Aeronautical Engineering

Noel Lewis Allen, Bloomington  
 Borge Boeskov, Minneapolis  
 Michael Forrest Carpenter, Richfield  
 Donald Duane Dyre, A.A., Minne-  
 apolis  
 Ronald Raymond Edstrom, St. Paul

John Wayne Emond, Farmington  
 Keith John Goar, Minneapolis  
 Keith Howard Goettsch, Canby  
 Darvin Earl Grack, Arlington  
 Robert William Gutenkauf, West St.  
 Paul

Richard John Hubert, Bloomington  
Harvey Milton Lippa, Minneapolis  
John LeRoy Magnussen, Plainview  
William Allan McArthur, St. Paul  
William David Neer, Minneapolis  
John Lamson Nesheim, Robbinsdale

Dennis Harold Peters, Minneapolis  
David Lawrence Quam, Bloomington  
John Orval Roberts, Lake Crystal  
Robert Charles Schwanz, St. Paul  
Lawrence Martin Shaull, Blairstown,  
Iowa

## **Bachelor of Agricultural Engineering**

David Leonard Kill, Donnelly

## **Bachelor of Architecture**

Stanley Ernest Pinska, St. Paul  
William Joseph Smith, B.A., Alford,  
Iowa

*Michael Frank Southworth, B.A., Kas-*  
*son, WITH HIGH DISTINCTION*

## **Bachelor of Chemical Engineering**

Eugene Albert Brumm, Caledonia  
Robert Gene Butala, McKinley  
David Cameron DeGree, St. Cloud  
Gerald Lee FitzSimmons, Le Sueur  
Thomas Edward Fredeen, South St.  
Paul  
Ronald Duane Gardin, Anoka  
Larry John Gerdin, Cambridge  
Michael Robert Halberg, Hibbing  
Gary Richard Hauck, Edina, WITH  
DISTINCTION  
Kenneth Dale Hayden, Austin  
Steven Arthur Isenberg, Minneapolis

Richard Donald Jensen, Wayzata  
Peter Frank Malovrh, Gilbert  
Hugh L. McConnell, Minneapolis  
Edward Walter Remus, Virginia  
Walter Bruce Sandison, Brainerd  
Theodore Edward Shannon, Worth-  
ington  
Yolanda Elena Shirley, Panama,  
Panama  
Gerald Robert Smith, Minneapolis  
Thomas Harry Standing, Minneapolis  
Bruce Alan Virnig, Wells  
Clifford Woollen Warren, Richfield

## **Bachelor of Chemistry**

George Raymond Claros, Minneapolis  
Norman W. Nelson, St. Paul  
Hyler Steve Silesky, Minneapolis

*Velta Dunena Sparnins, Minneapolis,*  
*WITH HIGH DISTINCTION*

## **Bachelor of Civil Engineering**

George William Barbato, St. Paul  
Klaus Peter Becker, Minneapolis  
Glenn Richard Cook, St. Paul  
Merlin Leslie Griesert, B.A., St. Paul  
James Alvan Hagen, Duluth

Charles Edward Heitmiller, Stillwater  
John Mark Latterell, Foley  
John Leland Lund, Floodwood  
R. Sanford Palm, Renville



## **Bachelor of Electrical Engineering**

Frederick Thomas Conrad, Minneapolis

Charles David Weinhold, Rochester

## **Bachelor of Geological Engineering**

Thomas Jeffrey Lien, St. Paul

## **Bachelor of Mathematics**

Wayne Edward Bertsch, St. Paul

## **Bachelor of Mechanical Engineering**

Charles Ray Altstatt, Mahtomedi

Curtis Wilford Anderson, Robbinsdale

Clement August Bieker, Minneapolis

Thomas Martin Capaul, North St. Paul

Wayne Theodore Coil, Lake Lillian

Marlin Peter Filipek, Minneapolis

Wayne Arthur Flygare, Winthrop

Stephen Kenneth Gratz, St. Louis Park

Gerald Duane Hagfors, Minneapolis

Victor Lewis Hanks, Elk River

Richard Arnold Holmquist, Oakland

Douglas Rolland Johnson, Minneapolis

David John Kivela, Embarrass

Joel Dean Kuyper, Odessa

Gerald William Melin, Minneapolis

James Mathew Muellner, St. Paul

Robert Delford Nelson, St. Paul

James Sanford Newcomb, Jr., Minneapolis

Wayne William Perna, Ashby, Mass.

Dennis John Peterson, Buhl, WITH  
DISTINCTION

Richard Harold Peterson, Springfield

Douglas Melvin Ringger, Dumont

Thomas Erick Rosendahl, Minneapolis

Michael David Stevens, Hastings

Richard George Vogt, Chokio

Marvin L. Zochert, Bloomington

## **Bachelor of Mineral Engineering**

William Lester Strand, Beaver Bay

## **Bachelor of Physics**

Thomas Earl Brophey, Minneapolis

Mark Allen Nelson, International Falls

Thomas Harold Schmitt, Le Sueur

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

## **Technical Certificate in Agriculture**

John Joseph Blissenbach, Sauk Rapids

John Elwood Hammann, Owatonna

Richard Donald Martin, Montrose

Lynn Darwin Peterson, Kensington

## Bachelor of Science

- Barbara Ann Alden, Robbinsdale,  
Home Economics
- David Paul Bergquist, St. Paul,  
Forestry
- Dennis Harland Berry, Fridley,  
Forestry
- M. Howard Boatman, Lake City,  
Agriculture
- John Thomas Butler, Austin, Agri-  
culture\*
- James Lester Calvin, Worthington,  
Agriculture
- Timothy Edward Donovan, St. Paul,  
Forestry\*
- Mary Ann Goehle, Tyler, Agriculture,  
WITH HIGH DISTINCTION
- James Henry Gooselaw, St. Paul,  
Agriculture
- Joel Fredric Goranson, St. Paul,  
Forestry
- Duane Milton Kendrick, Mahtomedi,  
Agriculture
- Kathryn Ann Kohan, New Brighton,  
Home Economics
- Raymond Charles Laitala, Calumet,  
Forestry
- Carl Robert Linder, Minneapolis,  
Agriculture\*
- Mary Jane Whiteside Lloyd, Richfield,  
Home Economics, WITH DISTINC-  
TION
- James Franklin Merritt, Newport,  
Agriculture
- George Philip Miller, St. Paul,  
Forestry
- Kathleen Elaine Muench, Mapleton,  
Home Economics
- Darlene Shirley Nielsen, Windom,  
Home Economics
- Milo Alfred Nielsen, Madelia, Agri-  
culture
- Gary Bruce Nordin, St. Louis Park,  
Forestry
- Robert Fredrick Nyvall, Thief River  
Falls, Forestry
- Richard John Peterson, Lake Elmo,  
Forestry
- Albert Clifford Pruzinske, Little Falls,  
Agriculture
- Helen Maureen Frieze Roy, North St.  
Paul, Home Economics, WITH DIS-  
TINCTION
- Marvin Carl Rude, Grand Marais,  
Forestry
- Ervin George Schuster, St. Paul,  
Forestry\*
- Kerwin Larry Siewert, Zumbro Falls,  
Agriculture, WITH HIGH DISTINCTION
- Gerald Raymond Steuernagel, Mahto-  
medi, Agriculture
- Marie Evelyn Suomala, Frazee, Home  
Economics
- Bruce Theodore Youngberg, Minne-  
apolis, Forestry, WITH DISTINCTION

## COLLEGE OF EDUCATION

### Bachelor of Science

- Darlene Yvonne Anderson, St. Louis  
Park
- Thomas Arthur Antil, St. Cloud
- Charles Lelyn Babcock, Wadena
- Carol Jean Bakken, Fertile
- Virginia Diane Bartik, Britt, Iowa
- Donna Jean Berg, Sunburg
- Edna A. Regehr Bernstein, B.A., M.S.,  
Rosthern, Saskatchewan, Canada
- Jerrilyn Mae Hall Bratt, Parkers Prairie
- Rachel Sharon Brudnoy, Minneapolis
- Sandra Kay Buchan, Owatonna
- John Thomas Caddy, Minneapolis,  
WITH DISTINCTION

\* Degree conferred as of December 19, 1964.

Doris Mae Shubert Carlson, Minneapolis  
 Nancy Jean Carlson, Excelsior  
 Robert Bruce Cathcart, Minneapolis  
 Kathryn Anne Linnell Clark, Minneapolis  
 Charles Curtis Coffee, Mound  
 Verne Edward Comstock, A.A., St. Paul  
 Gail Jean Dahlvang, Minneapolis  
 Janet Louise Davison, St. Paul  
 John Leo Delmore, Roseau  
 Carolyn Rae Dusek, Albert Lea  
 Patricia Manton Eckman, St. Paul,  
 WITH DISTINCTION  
 Diane Faith Eickhoff, Fountain, WITH  
 DISTINCTION  
 Margo Charlene Montgomery Elvin,  
 A.A., Minneapolis, WITH DISTINC-  
 TION  
 Douglas Byron Fredin, Jr., Minne-  
 apolis  
 Susan Clare Fausch Fritze, Waseca,  
 WITH DISTINCTION  
 Carol Ann George, Minneapolis  
 Marlys Joanne Golie, Minneapolis,  
 WITH DISTINCTION  
 Harlan Dennis Goodman, A.A., Min-  
 neapolis  
 Loretta L. Lemaster Hanson, Minne-  
 apolis  
 Karen Kathryn Hill, Edina, WITH DIS-  
 TINATION  
 Stephanie Hoag Hilton, Minneapolis  
 Carol Elizabeth Hogenson, Aberdeen,  
 S.D., WITH DISTINCTION  
 Audrey Carlson Hunter, Wayzata  
 David Robert Jenkyns, Minneapolis  
 Joan Brockbank Johnson, Eau Claire,  
 Wis., WITH DISTINCTION  
 Melvin Earl Johnson, Elk River, WITH  
 DISTINCTION  
 John Frederic Lehmann, Albert Lea  
 Edward Joseph Louis, Minneapolis  
 Harriet Jean Louricas, White Bear  
 Lake, WITH DISTINCTION  
 Charles William Mann, Minneapolis  
 Duane Allan Markus, Minneapolis  
 Sharon Ann Misgen, St. Paul  
 Marcia Molander, A.A., Edina  
 Kathleen Edith Murphy, St. Paul  
 Nancy Ann Nelton, Winona  
 Gretchen Mary Patka, Virginia  
 Clifford Walter Paulson, Jr., St. Paul  
 James Robert Pearson, St. Paul  
 Carolyn Viola Pemberton, A.A.,  
 Kansas City, Mo.  
 JoAnne Louise Perrington, Fridley  
 Evelyn Grogan Ray, B.A., Edina  
 Arlene Dorothy Reynolds, St. Paul,  
 WITH DISTINCTION  
 Joanne Marie Rotramel, Minneapolis,  
 WITH DISTINCTION  
 Robert Charles Ryder, Minneapolis  
 Nanette Marie Sander, St. Louis Park,  
 WITH DISTINCTION  
 Judith Emily Sanderson, Worthington  
 Nancy Morrison Sauer, Rochester,  
 WITH DISTINCTION  
 Charles Walter Schilling, Minneapolis  
 Jack Warren Schlukebier, West St.  
 Paul  
 Caroline Ruth Schweppe, Minne-  
 apolis, WITH DISTINCTION  
 Betty Elliott Settergren, Minneapolis  
 Ellen Lucile Smith, Glencoe  
 Millicent Frances Putt Sohns, Mound  
 Judith Schuster Soukup, Owatonna  
 Mary Catherine Sperl, B.A., St. Paul  
 Carolann Stanke, St. Paul  
 Duane Richard Steele, Minneapolis  
 Margaret Laun Sudtelgte, Minne-  
 apolis, WITH DISTINCTION  
 Phyllis Rose Torgerson, Stephen, WITH  
 HIGH DISTINCTION  
 Karen Mae Weihe, Robbinsdale,  
 WITH HIGH DISTINCTION  
 Patricia Ann McMahon Werner,  
 Minneapolis  
 James Dahlin Young, St. Paul

## Master of Education

Paul Michael Nevin, B.S., Shakopee

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

## Bachelor of Science

Wilma Marie Dorn Allen, A.A., St. Paul, Home Economics Education	Andrew Gunnar Olness, Peterson, Agricultural Education
Warren Arnold Anderson, Duluth, Agricultural Education	Janet Carolyn Pomerence, Odessa, Home Economics Education
Virginia Lue Berger, Minneapolis, Home Economics Education	Arlene Aasve Sausele, Minneapolis, Home Economics Education
Rudolph Orville Gysland, Hopkins, Agricultural Education	Gilman Roger Shubert, Renville, Agricultural Education
Nancy Helen Hounschell, Stillwater, Home Economics Education	Franklin Rolf Standfuss, Renville, Agricultural Education
Margaret Dunnavan Latimer, St. Paul, Home Economics Education	Maie Rebane Tammearu, Minneapolis, Home Economics Education

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Richard Duane Anderson, Eau Claire, Wis.

### Bachelor of Science in Business

Alan Harold Anderson, Minneapolis	Philip D. Jacobson, Minneapolis
Scott Vincent Anderson, Minnetonka	Kenneth Ervin Johnson, St. Paul
Leo Roger Antl, Minneapolis	Leroy Edward Johnson, St. Paul
Richard Harold Bergeson, Minneapolis	Robert Maurice Allen Johnson, Anoka
LeRoy Bockhaus, Frederika, Iowa	James Luther Kuphal, Minneapolis
Carl Raymond Branger, Minneapolis	James Neil LaPlante, Red Lake Falls
Gregory Marc Brown, South St. Paul	James Burke Leslie, Hopkins
Dennis Frank Butler, Richfield	Donald Joseph Lozinski, St. Paul
David John Dingels, Olivia	Robert Reynold Mattson, Babbitt
James William Doten, Minneapolis	Eugene Allen May, Minneapolis
James Nord Harris, Minneapolis	Richard Clark McNeal, Excelsior
Wayne T. Henderson, A.A., Edina	Michael John Merriman, St. Paul
James Nissen Heuerman, St. Cloud	George Allan Moe, Red Wing
Michael Lynn Hudson, Marshall, WITH DISTINCTION	Bruce Richard Neumann, Le Sueur, WITH HIGH DISTINCTION
John Douglas Hughes, A.A., Minne- apolis	Thomas Lee Newhouse, Minneapolis
	Miles William Ottinger, West St. Paul

Thomas Eugene Paulson, A.A.,  
B.C.E., St. Paul Park  
Neil Earl Phillips, South St. Paul  
Raymond Louis Prebil, International  
Falls  
Walter Carl Rietow, Minneapolis  
Roger Lee Salsbury, Minneapolis

Stanley Paul Seifert, Wells  
James Francis Sweeney, Minneapolis  
Gary James Thompson, Le Sueur  
James Norman Verhey, Minneapolis  
William Henry Volkmann, St. Paul  
David Harold Walters, St. Paul  
Walter Paul Wojciak, Minneapolis

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

Ronald Matthew Bierbaum, St. Paul      Thomas Jon Wolfe, St. Paul

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

### **Bachelor of Agricultural Business Administration**

Elmer Clarence Dahms, Redwood Falls      Dennis Dean DeRuyck, Milroy

## **COLLEGE OF PHARMACY**

### **Bachelor of Science in Pharmacy**

Richard Albert Haight, South St. Paul      Kermit Eugene Severson, Northfield  
John Edward Helin, Willmar

## **SCHOOL OF DENTISTRY**

### **Bachelor of Science**

Robert Carl Peterson, Fairmont

### **Doctor of Dental Surgery**

Ronald Duane Fletcher, La Crosse, Wis.

# COLLEGE OF MEDICAL SCIENCES

## Bachelor of Science in Nursing\*

Betty Lou Reinitz Anderson, Delano	Ruth May Lutz, White Bear Lake
Mary Anita Anderson, Minnetonka	Linda Marie Lystig, Minneapolis,
Mary Jean Anderson, Northfield	WITH DISTINCTION
Cynthia Hansen Barnes, St. Paul	Kathleen Mary Marolt, Hibbing, WITH
Karen Johnston Berger, Minneapolis,	DISTINCTION
WITH DISTINCTION	Patricia Anne Mumm, St. Louis Park
Patricia Lucille Champion, Minneapo-	Jane Marjorie O'Connor, White Bear
lis, WITH DISTINCTION	Lake
Nancy Werl Foker, Minneapolis,	Judith Ann Olson, Mora
WITH DISTINCTION	Jaelyn Mabel Piering, Duluth
Susan Jean Forstrom, Minneapolis	Rita Louise Robbins, Detroit Lakes,
Patricia Louise Gault, Minneapolis,	WITH HIGH DISTINCTION
WITH DISTINCTION	Glenda Lea Schadt, St. Paul
Constance Renae Guenther, A.A.,	Loretta Jean Slattery, St. Paul
Jamestown, N.D.	Marie Karen Stougaard, St. Paul
Gail Anne Hille, Minneapolis	Susan Jane Sturley, St. Paul
Sharon Lee Hoover, Richfield	Karen Rae Swenson, Minneapolis,
Bonnavieve Mae Johnson, Nisswa	WITH HIGH DISTINCTION
Geralyn Elna Lee, Cokato	

## Bachelor of Science

Karen Joy Snow Hall, Sauk Centre,	Anne Margreth Smith, Huron, S.D.,
Occupational Therapy	Medical Technology**

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\* These degrees are conferred subject to the completion of nursing practice prior to June 12, 1965.

\*\* These degrees are conferred subject to the completion of practical work prior to June 12, 1965.

# GRADUATE SCHOOL

## Master of Arts

Arlene Carpenter Anderson, Minneapolis

B.A. *magna cum laude* '41, Carroll College. Field of Concentration: Educational Administration.

Kenneth J. Anderson, Minneapolis

B.A. '60, Luther College. Field of Concentration: Educational Psychology.

Linton Corlise Beasley, Lynchburg, Va.

B.A. '52, Lynchburg College. Field of Concentration: History.

Albert David Beedie, Jr., Chicago, Ill.

B.A. *cum laude* '63, College of St. Thomas. Field of Concentration: Economics.

Pauline Lucille Bown, Beloit, Wis.

B.S. with honors '63, University of Wisconsin. Field of Concentration: Journalism.

Frederick William Brett, St. Paul

B.A. '50, Macalester College. Field of Concentration: Curriculum and Instruction.

José das Neves Capela, Belém-Pará, Brazil

Diploma '60, University of Pará (Brazil). Field of Concentration: Economics.

Merwin William Chambers, Longville

B.S. '52, Bemidji State College. Field of Concentration: Educational Psychology.

Dorothy Ruth Crawford, Minneapolis

B.S. '63, University of Minnesota. Field of Concentration: Library Science.

Dennis Lee Danger, Milaca

B.S. '59, University of Minnesota. Field of Concentration: Education.

Gerald Patrick Del Fiacco, St. Paul

B.A. *magna cum laude* '63, University of Minnesota. Field of Concentration: Mathematics.

Donald Joseph Dietrich, Buffalo, N.Y.

B.S. *cum laude* '63, Canisius College. Field of Concentration: History.

Guenter Esslinger, Minneapolis

B.A. '60, Jamestown College. Field of Concentration: Library Science.

Eleanor Lynn Ward Evans, Hamilton, Ontario, Canada

B.A. '61, McMaster University. Field of Concentration: Classics.

Geraldine Ann Evans, Minneapolis

B.S. with distinction '60, University of Minnesota. Field of Concentration: Educational Psychology.

Russel Christmas Evans, Beloit, Wis.

B.A. '55, Lawrence College. Major: Library Science. Minor: English. Thesis: Undergraduate Honors Theses in Minnesota Colleges: Citation Analyses and Descriptions of Honors Programs.

Stephen Sanford Annis Faunce, Minneapolis

B.A. *cum laude* '58, M.A. '59, University of Minnesota. Major: Library Science. Minor: Spanish. Thesis: A Biblio-Bibliography of Spain: From the Beginning of Printing to 1800.

Mary Lorraine Freiburger, Dubuque, Iowa

B.A. *magna cum laude* '63, Clarke College. Field of Concentration: Speech and Theatre Arts.

Elsa Pollard Greene, Minneapolis

B.A. '61, Wellesley College. Field of Concentration: English.

Arden Dale Grotelueschen, Seward, Neb.

B.S. in Educ. '61, Concordia Teachers College. Field of Concentration: Educational Psychology.

Carol Petersen Hartzog, Northfield

B.A. with distinction '62, Duke University. Major: English. Minor: Linguistics and Comparative Philology. Thesis: The Nature and Destiny of Man: A Conceptual Analysis of *Paradise Lost*.

Albert William Hastings, Elk River

B.A. '52, Dartmouth College. Field of Concentration: Industrial Relations.

Harry Patrick Higgins, Jr., St. Paul

B.S. '62, Wisconsin State College (River Falls). Field of Concentration: Political Science.

William Michael Job, Minneapolis

B.A. '62, University of Minnesota. Field of Concentration: Psychology.

Carol Ann Johnson, Minneapolis

B.A. *cum laude* '62, University of Minnesota. Field of Concentration: Library Science.

Ann Marie Kirch, Sleepy Eye

B.S. with high distinction '62, University of Minnesota. Field of Concentration: Mathematics.

Sister Georget Lang, Minneapolis

B.A. '57, College of St. Catherine. Field of Concentration: Latin.

Norma Jane Larson, Sioux Falls, S.D.

B.A. '61, Augustana College. Field of Concentration: Library Science.

Frederick Michael Lauritsen, Montevideo

B.A. '61, University of Minnesota. Field of Concentration: Library Science.

Myrna Carol Lindstrom, Litchville, N.D.

B.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.

John Urquhart Marshall, Port Colborne, Ontario, Canada

B.A. '61, University of Toronto. Major: Geography. Minor: History. Thesis: Central Places in the Queen's Bush: A Study of Service Centers and Their Evolution in Bruce and Grey Counties, Ontario.

James Duane Miller, Tracy

B.S. *magna cum laude* '60, Augustana College. Field of Concentration: Educational Psychology.

Christian Thomas Moore, Chaska

B.A. '61, University of Dayton; B.A. '63, Assumption Seminary and College. Major: History. Minor: Sociology. Thesis: The Monastic Visitations of Robert Grosseteste.

Sister Jane Marie Morris, Boston, Mass.

B.A. *cum laude* '43, Emmanuel College; M.A. '58, Assumption College. Field of Concentration: German.

Jeanne Muyskens, Pella, Iowa

B.S. '62, Iowa State University. Field of Concentration: Home Economics.

Walton Charles Nelson, Willmar

B.S. with distinction '57, University of Minnesota. Field of Concentration: Music Education.

Robert Raymond Ness, Hibbing

B.S. '57, Bemidji State College. Field of Concentration: Educational Administration.

Arthur William Nielsen, Lakeville

B.S. '57, University of Minnesota. Field of Concentration: Agricultural Education.

Adolph Chisholm Nydegger, Winona

Ch.E. '30, Marquette University. Field of Concentration: Mathematics.

Wilmer Jayson Oudal, Minneapolis

B.A. '53, Augsburg College. Field of Concentration: Business Administration.

John Pavasars, Chicago, Ill.

B.A. '63, University of Chicago. Field of Concentration: Psychology.

Max E. Peterson, Perkins, Mich.

B.A. '62, Augustana College. Field of Concentration: Physical Education.

Katherine Emery Pogue, Evanston, Ill.

B.S.S. '62, Northwestern University. Major: Speech and Theatre Arts. Minor: Scandinavian. Thesis: *A Thousand Francs Reward* by Victor Hugo.

Friedhelm Franz Rickert, Bochum, Germany

'62, University of Munster (Germany). Field of Concentration: German.



David Clyde Saffell, Shadyside, Ohio  
B.A. '63, Baldwin-Wallace College. Major: Political Science. Minor: History. Thesis: National Fishery Zones in the High Seas Contiguous to Territorial Waters.

Mary Louise St. Anthony, Mahtomedi  
B.A. '53, College of St. Catherine. Field of Concentration: English.

Swan-Po Sic, Kediri, Indonesia  
B.Sc. '53, Diploma '54, University of Indonesia. Field of Concentration: Physical Education.

David Herman Sieving, Hopkins  
B.A. '62, Valparaiso University. Field of Concentration: History.

Leverett Tyrrell Smith, Jr., Millbrook, N.Y.

B.A. '62, Middlebury College. Field of Concentration: American Studies.

Roy E. Stults, St. Paul  
B.A. '50, Central College. Field of Concentration: Curriculum and Instruction.

Carol Jean Vinson Trahms, Janesville  
B.A. *summa cum laude* '62, Gustavus Adolphus College. Major: Sociology. Minor: Psychology. Thesis: Some Factors Related to the Decision-Making Process in Mate Selection.

Elizabeth Ann Tweedy, Winona  
B.A. '61, Carleton College. Field of Concentration: Art.

Charles Shandrew Ward, St. Paul  
B.S. in Econ. '60, University of Pennsylvania. Major: History. Minor: Law. Thesis: The Minnesota Commission of Public Safety in World War One: Its Formation and Activities.

Barbara Ann Wilcken, Minneapolis  
B.S. with distinction '61, University of Minnesota. Field of Concentration: Library Science.

Hooshang Yasseri, Teheran, Iran  
B.S. '63, Mankato State College. Field of Concentration: Art Education.

## Master of Arts in Public Administration

Roland Elliott Berg, Minneapolis  
B.B.A. '56, University of Minnesota. Major: Public Administration. Thesis: The Military Leader: A Study of His Role in Our National Life.

Joseph H. McGivney, St. Paul  
B.A. '57, University of Minnesota. Major: Public Administration. Thesis: Anatomy of a Task Force.

James Arthur Seitz, Salem, Ore.  
B.A. '61, Willamette University. Major: Public Administration. Thesis: Administrative Agencies as Formulators of Legislative Policy in the 1963 Session of the Minnesota Legislature.

## Master of Business Administration

John LeRoy Erickson, Brainerd  
B.B.A. with distinction '59, University of Minnesota. Field of Concentration: Business Administration.

Robert John Moeller, Rosemount  
B.S.B. '62, University of Minnesota. Field of Concentration: Business Administration.

James William Scheible, New Ulm  
B.A. '61, University of Minnesota. Field of Concentration: Business Administration.

## Master of Fine Arts

Edward Charles Harrington, Minneapolis

B.A. *cum laude* '61, University of Minnesota.  
Field of Concentration: Art.

## Master of Science

John David Axtell, Minneapolis

B.S. '57, University of Minnesota. Major: Genetics. Minor: Agricultural Biochemistry. Thesis: A Study of Allelic Relationships Between Three Aleurone Color Pattern Alleles at the R Locus in *Zea Mays*.

Martin Fan Cheng, Minneapolis

B.S. in Eng. '56, National Taiwan University (China); M.S. '60, University of Minnesota. Major: Mathematics. Minor: Mechanics and Materials. Thesis: On the Approximation of Continuous Functions by Polynomials on  $(-\infty, \infty)$  and  $(0, \phi\phi\phi)$  in Terms of Exponential Weight Factors.

Philip Joseph Clausen, St. Paul

B.S. with distinction '59, University of Minnesota. Major: Entomology. Minor: Botany. Thesis: A Comparative Study of the Copulatory Apparatus of Selected Nearctic Species of Parydrinae (Diptera: Ephydriidae).

Barton Joseph Cooper, St. Paul

B.Phys. '62, University of Minnesota. Field of Concentration: Physics.

Robert William Cumming, Winnipeg, Manitoba, Canada

B.Sc.(Hons.) '62, University of Manitoba. Field of Concentration: Organic Chemistry.

Cecelia Barbara Dahlmeier, Aberdeen, S.D.

B.S. '62, South Dakota State College. Field of Concentration: Psychiatric Nursing.

JoAnn Darter, Muncie, Ind.

B.S. in Nsg. '56, Ball State Teachers College. Field of Concentration: Public Health.

Michael Allyn Ewert, Dedham, Mass.

B.A. '61, Stanford University. Major: Entomology. Minor: Botany. Thesis: Factors Affecting the Distribution of Three Species of Coccinellidae (Coleoptera) in Their Microhabitat.

Hemant Amritrao Fanse, Baroda, India

B.Sc.(Agric.) '55, M.Sc.(Agric.) '58, Gujarat University (India). Major: Plant Pathology. Minor: Microbiology. Thesis: Invasion by Storage Fungi of Rice Stored at Moisture Contents of 13.5 to 15.5 Per Cent.

Jurgen Fritz Fohlmeister, St. Paul

B.Phys. '64, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Investigations in the Nuclear Stripping Reaction by a Cutoff Born-Approximation with Neutron Wavefunction Normalization.

David Walter Gimnæstad, Belview

B.S. with distinction '63, University of Minnesota. Field of Concentration: Mechanics and Materials.

David Seetin Hanson, St. Paul

B.Phys. with distinction '61, University of Minnesota. Major: Physics. Minor: Electrical Engineering. Thesis: Design and Construction of an Apparatus for the Study of Critical Velocities in Liquid Helium II.

Curtis Oliver Herbert, Faribault

B.A. *cum laude* '62, Luther College. Field of Concentration: Mathematics.

Barbara Dahlin Johnson, St. Paul

B.S. *magna cum laude* '63, Gustavus Adolphus College. Field of Concentration: Psychiatric Nursing.

James Louis Kennedy, Jr., Minneapolis

B.A. '59, University of Oregon. Major: Biochemistry. Minor: Physical Chemistry. Thesis: The Influence of Temperature on the Permeation Rates of Electrolytes Through Collodion Membranes.

Thomas A. Kucharek, South Euclid,  
Ohio

B.S. '62, Kent State University. Major: Plant Pathology. Minor: Botany. Thesis: The Frequency, Mode of Entry, and Mechanisms of Infection of *Fusarium Moniliforme* in *Zea Mays* L.

Paul Ta-Cheng Lin, Peitou, Taiwan,  
Republic of China

B.Sc. '60, Taiwan Provincial Cheng Kung University (China). Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: Thermal Diffusion of Vacancies in Zinc.

Lun Ling, Taipei, Taiwan, Republic  
of China

B.S. '62, Taiwan Provincial Chung Hsing University (China). Major: Horticulture. Minor: Botany. Thesis: Influence of Temperature, Soil Fertility and Combining Ability on *Chrysanthemum* Seed Production.

Paul Donald Manion, Hopkins

B.S. '62, University of Minnesota. Major: Plant Pathology. Minor: Biochemistry. Thesis: *Nectria* Type Cankers of Aspen in Minnesota.

Richard Clay Nelson, Minneapolis

B.A. '62, University of Minnesota. Major: Entomology. Minor: Zoology. Thesis: Descriptions and Synonymies in the Subgenus *Laemobothrion* (Mallophaga: Laemobothriidae).

Karen Helen Osterud, Spring Valley

B.S. in Nsg. '61, University of Florida. Field of Concentration: Psychiatric Nursing.

William John Peters, Appleton, Wis.

B.S. '57, University of Minnesota. Major: Forestry. Minor: Botany. Thesis: A Study of the Variation in Slash Pine (*Pinus Elliottii* Engelm.) Gum Yielding Potential.

Gordon Robert Pole, White Bear Lake

B.Ch.E. '61, University of Minnesota. Field of Concentration: Business Administration.

William Porter Pratt, Jr., Hingham,  
Mass.

B.A. cum laude '61, Amherst College. Major: Physics. Minor: Mathematics. Thesis: Mobility of Ions in Superfluid Liquid Helium.

Karen Mae Rautio, Anaheim, Calif.

B.S. in Nsg. '60, State University of Iowa. Field of Concentration: Psychiatric Nursing.

George Seddon, Perth, Australia

B.A. (Hons.) '47, University of Melbourne. Field of Concentration: Geology.

Gautam SenGupta, Calcutta, India

B.S. '57, Calcutta University (India); B.S. in Pharm. '61, Loyola University. Major: Pharmaceutical Technology. Minor: Industrial Engineering. Thesis: Studies of Some Aspects of Barbiturate Antagonism.

Donald Gregory Stitts, St. Paul

B.A. '52, University of Maine. Field of Concentration: Agricultural Economics.

Gaylord Mons Twite, Richfield

B.S. '56, Hamline University. Field of Concentration: Public Health.

Judith Ann Warnert, Cold Spring

B.S. '63, South Dakota State College. Field of Concentration: Public Health.

Paul Willard Weiblen, Miller, S.D.

B.A. with high distinction '50, Wartburg College; M.A. '52, University of Minnesota. Major: Geology. Minor: Physical Chemistry. Thesis: A Preliminary Study of the Metamorphism of the Thomson Formation.

Marcus Lloyd Winter, Hoffman

B.A.B.A. with distinction '63, University of Minnesota. Field of Concentration: Agricultural Economics.

Gary Thomas Witzke, Rochester

B.Phys. with distinction '62, University of Minnesota. Field of Concentration: Physics.

Abdel-Fattah Amer Youssef, Cairo,  
Egypt, United Arab Republic

B. of Comm. '54, Ein-Shams University (Egypt). Field of Concentration: Business Administration.

## Master of Science in Anesthesiology

Joseph Charles Belshe, Minneapolis

B.A. '42, Carleton College; B.S. '45, M.D. '45, University of Minnesota. Major: Anesthesiology. Minor: Biochemistry. Thesis: Prolonged Subarachnoid Block with Magnesium and Calcium.

## Master of Science in Civil Engineering

Raymond Carrie, Port-Au-Prince,  
Haiti

B.C.E. '50, University of Haiti; M.S.S.S. '54, Columbia University. Field of Concentration: Civil Engineering.

Shih-Weng Chiang, Kaohsiung City,  
Taiwan, China

B.S. '59, Taiwan Provincial Cheng Kung University (China). Major: Civil Engineering. Minor: Mathematics. Thesis: A Study of the Influence of Boundary Layer Properties and Hole Dimensions on the Accuracy of Pressure Measurements at a Boundary.

Norman Ray Duinick, Prinsburg

B.S. with distinction '63, University of Minnesota. Field of Concentration: Civil Engineering.

Chun-Chin Hsieh, Kaohsiung City,  
Taiwan, China

B.S. in Eng. '55, National Taiwan University (China). Field of Concentration: Civil Engineering.

Salvatore Anthony LaBella, Rochester,  
N.Y.

B.C.E. '63, University of Detroit. Major: Civil Engineering. Minor: Civil Engineering. Thesis: An Experimental Study of the Effects of Air Flow Rate, Bubble Size and Rise Velocity, and Depth on the Efficiency of the Diffusion Aeration Process.

Charles Tsung-nan Lee, Taipei,  
Taiwan, China

B.S. in Eng. '62, National Taiwan University (China). Field of Concentration: Civil Engineering.

Chuan Lee, Hupei, China

B.Sc. '62, Taiwan Provincial Cheng Kung University (China). Field of Concentration: Civil Engineering.

Robert Patrick Stehly, Hecla, S.D.

B.C.E. '60, Marquette University. Major: Civil Engineering. Minor: Civil Engineering. Thesis: Wave Attenuation Employing Submerged Spheres.

Chung Yi Wang, Hunan, China

B.Sc. '60, Taiwan Provincial Cheng Kung University (China). Field of Concentration: Civil Engineering.

## Master of Science in Dentistry

Johan Fredrik Sohlberg, Molndal,  
Sweden

D.D.S. '57, University of Helsinki (Finland). Major: Dentistry. Minor: Anatomy. Thesis: Mitoses in Retromolar Epithelium of Sprague-Dawley Rats.

Eric Edward Stafne, St. Paul

B.A. '58, B.S. '60, D.D.S. '60, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: The Changes in Morphology of the Connective Tissues and Epithelium of the Interdental Papillae and the Col of Rhesus Monkeys with Alterations in Interproximal Tooth Contact Relations.

## Master of Science in Electrical Engineering

### Ta Chen, Kaifon, Honan, China

B.S. '56, National Taiwan University (China). Major: Electrical Engineering. Minor: Mathematics. Thesis: A Theoretical Analysis of a Vibrationless Support for a Galvanometer by the Method of Random Noise Analysis.

### Donald Theodore Davis, St. Paul

B.S. with distinction '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Frequency Beats in the Off-Axis Modes of Ruby Lasers.

### Virgil Lee Laing, Buffalo

B.S. with high distinction '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Analog-to-Digital Conversion Using Microwave Techniques.

### Rollin Edward Langseth, St. Paul

B.S. with high distinction '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Some Effects of Memory on a Nonlinear Transformation of a Random Process.

### Edwin Henry Schmidt, Hopkins

B.E.E. with distinction '59, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of Partial Flux Switching of Square-Loop Magnetic Cores.

### Gerald Wayne Timm, Garfield

B.S.E.E. '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Field Emission Cathodes.

### Chandra Mohan Varma, Hyderabad, India

B.E.(Hons.) '63, Osmania University (India). Major: Electrical Engineering. Minors: Mathematics and Physics. Thesis: A Theoretical Examination of Off-Axial Directionality in Light From Optical Masers.

### Leon David Wald, Richardson, Tex.

B.S. with distinction '57, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Synthesis of a Simple Accurate Magnetic Core Equivalent Circuit.

## Master of Science in Industrial Engineering

### Stephen Goodrich Brown, Hutchinson

B.M.E. with distinction '63, University of Minnesota. Field of Concentration: Industrial Engineering.

### Raymond Richard Eberhart, Hutchinson

B.M.E. with distinction '63, University of Minnesota. Field of Concentration: Industrial Engineering.

### John Edward Johnson, St. Paul

B.M.E. '62, B.S.B. '63, University of Minnesota. Field of Concentration: Industrial Engineering.

### Richard Allen MacGregor, Cedar Rapids, Iowa

B.S.I.E. '60, Iowa State University. Field of Concentration: Industrial Engineering.

## Master of Science in Mechanical Engineering

### Robert Miles Desmond, North Haven, Conn.

B.S. with distinction '63, Worcester Polytechnic Institute. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Prandtl Number Measurements for Steam.

### Ernesto Rafael Mata, Caracas, Venezuela

Graduate '63, Central University of Venezuela. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Cooling and Dehumidifying Moist Air by Extended Surface Coils.

## Master of Science in Mineral Engineering

William Andrew Hustrulid, St. Paul

B.S. with distinction '62, University of Minnesota. Major: Mineral Engineering. Minor: Mathematics. Thesis: A Study of Energy Transfer to Rock and Prediction of Drilling Rates in Percussive Drilling.

## Master of Science in Ophthalmology

Paul Lewis Archambeau, Santa Rosa, Calif.

M.D. '57, University of Buffalo. Major: Ophthalmology. Minor: Biophysics. Thesis: Transscleral Freezing of the Retina: An Experimental Study.

James Paterson Brown, St. Paul

B.A. '54, M.D. '58, University of Minnesota. Major: Ophthalmology. Minor: Biophysics. Thesis: A Study of Stereoscopic Acuity and Observation Distance.

## Master of Science in Pediatrics

Henry Bentley Hahn, Jr., Roanoke, Va.

B.S. '53, Roanoke College; M.D. '57, University of Virginia. Major: Pediatrics. Minor: Physiology. Thesis: On the Presence of a Gonadotropin Inhibitor in Human Urine.

## Master of Science in Surgery

Robert Johnstone Weir Blanchard, Winnipeg, Manitoba, Canada

B.Sc. in Med. '59, M.D.(Hons.) '59, University of Manitoba. Major: Surgery. Minor: Pathology. Thesis: Evaluation of Blood Supply and Interstitial Radiotherapy of Experimental Hepatic Tumors Utilizing Radioactive Microspheres.

Gerald William Scott, Edmonton, Alberta, Canada

M.B., B.S. '55, University of London. Major: Surgery. Minor: Pathology. Thesis: Measurement of the Resistance to Flow Through the Sphincter of Oddi in Patients Following Cholecystectomy and Choledochostomy.

## Doctor of Philosophy

Stuart Joseph Allen, Eau Claire, Wis.

B.S.(M.E.) '58, University of Wisconsin; M.S. '61, Seattle University. Major: Aeronautical Engineering. Minor: Mechanics and Materials. Thesis: A Theory of Transversely Isotropic Fluids. Major Adviser: Prof. C. N. De Silva.

Daniel Harvie Anderson, Ashville, N.Y.

B.S. '58, Massachusetts Institute of Technology. Major: Geology. Minor: Physical Chemistry. Thesis: Uranium-Thorium-Lead Ages of Zircons and Model Lead Ages of Feldspars From the Saganaga, Snowbank and Giants Range Granites of Northeastern Minnesota. Major Adviser: Prof. P. W. Gast.

Dennis Earl Barnaal, Sacred Heart

B.S. with high distinction '58, M.S. '62, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Study of Pure and HF-Doped Ice by Pulsed Nuclear Magnetic Resonance. Major Adviser: Prof. J. E. Wertz.

Frederic John Baude, Milwaukee, Wis.

B.S.(Chem.) '60, University of Wisconsin; M.S. '63, University of Minnesota. Major: Organic Chemistry. Minor: Chemistry. Thesis: Structure of the Cycloaddition Products of 3-Alkylindoles and p-Benzoquinone. Major Adviser: Prof. W. E. Noland.

**Jay Lynn Benson, Minneapolis**

B.S. with distinction '56, M.S. '59, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Mass Spectrometric Determination of the Mass of  $H^+$  and the Stable Isotopic Masses and Mass Differences of Chlorine, Barium, Cerium, and Neodymium. Major Adviser: Prof. W. H. Johnson, Jr.

**Rardon Dixon Bevell III, Winnfield, La.**

B.S. in Chem. *cum laude* '60, Washington and Lee University. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Mode of Action of Enzymes Acting on Carbohydrates: A Study of Udpgal-4-Epimerase. Major Adviser: Prof. Samuel Kirkwood.

**Bhup Dev Bhardwaj, Kumarsain, Himachal, India**

B.Sc. in Agric.(Hons.) '53, University of Delhi; M.S. '60, Indian Agricultural Research Institute (India). Major: Genetics. Minor: Horticulture. Thesis: A Study of Combining Ability in Alfalfa for Resistance to Bacterial Wilt (*Corynebacterium insidiosum* 'McCull', H. L. Jens). Major Advisers: Profs. W. M. Myers and L. J. Elling.

**George Eldon Brown, Mexico, Mo.**

B.S. in Agric. '56, M.S. '61, University of Missouri. Major: Plant Pathology. Minor: Genetics. Thesis: Effect of Oxygen Concentration on Pythium Seed Rot of Soybean. Major Adviser: Prof. M. F. Kernkamp.

**Ronald Michael Brown, St. Paul**

B.A. *cum laude* '56, Gustavus Adolphus College; M.A. '58, University of Minnesota. Major: Speech and Theatre Arts. Minor: Journalism. Thesis: An Experimental Investigation of the Relative Effectiveness of Three Methods of Utilizing the Personal Resources of the Beginning Speech Student. Major Adviser: Prof. W. S. Howell.

**Sargit Samuel Bupara, Sacramento, Calif.**

B.S. '59, University of California. Major: Chemical Engineering. Minor: Mathematics. Thesis: Spontaneous Movements of Small Round Bodies in Viscous Fluids. Major Adviser: Prof. L. E. Scriven.

**Harold Lee Cannon, Hazelton, Kan.**

B.S. in Educ. '54, M.S. '56, Kansas State Teachers College. Major: Education. Minor: Educational Psychology. Thesis: Personality Characteristics and Other Factors as Predictors of Achievement in College. Major Adviser: Prof. R. G. Price.

**Amy Eleanore Embertson Cordes, Bloomington**

B.S. with distinction '50, M.A. '57, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Relationship of Oral Language Ability to the Reading Achievement of First-Grade Boys. Major Adviser: Prof. T. W. Clymer.

**Charles Warner Daves, Rochester, N.Y.**

B.A. '52, Cornell University; M.A. '53, University of Pennsylvania. Major: English. Minor: History. Thesis: An Annotated Edition of the Characters of Samuel Butler (1612-1680) with Textual, Critical and Historical Introduction. Major Adviser: Prof. J. D. Hurrell.

**Melvin Everett Davison, St. Croix Falls, Wis.**

B.S. in Ag. Ed. '56, Wisconsin State College (River Falls); M.S. '58, University of Minnesota. Major: Animal Husbandry. Minor: Microbiology. Thesis: The Effect of Varying the Roughage to Concentrate Ratio on the Production of Volatile Fatty Acids in the Bovine Rumen with Observations on the Effect of Location of Sampling Site. Major Adviser: Prof. L. E. Hanson.

**Peter Winthrop Dowell, Benton Harbor, Mich.**

B.A. '58, Princeton University; M.A. '61, University of Minnesota. Major: American Studies. Thesis: Van Wyck Brooks and the Mind of His Generation. Major Adviser: Prof. J. C. Levenson.

**Frederick Grant Duerr, Withrow**

B.A. '56, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: Some Effects of Digenetic Trematode Parasitism on the Excretory and Respiratory Metabolism of the Fresh Water Pulmonate, *Lymnaea stagnalis* Appressa (Say), Major Adviser: Prof. G. C. Stephens.

**Morris David Faiman, Winnipeg, Manitoba, Canada**

B.S. in Pharm. '55, University of Manitoba; M.S. '61, University of Minnesota. Major: Pharmaceutical Technology. Minor: Pharmacology. Thesis: Some Considerations of Segregation in Systems of Particulate Solids. Major Adviser: Prof. E. G. Rippie.

**Liang-Shing Fan, Taipei, Formosa**

B.A. '58, National Taiwan University (China); M.A. '60, University of Minnesota. Major: Economics. Minor: Agricultural Economics. Thesis: A Study in the Maturity Structure of Interest Rates. Major Adviser: Prof. J. H. Karcken.

**Richard Roy Friberg, Minneapolis**

B.A. *magna cum laude* '59, University of Minnesota. Major: Psychology. Minors: Neurology and Psychiatry. Thesis: A Study of Homosexuality and Related Characteristics in Paranoid Schizophrenia. Major Adviser: Prof. P. E. Meehl.

**Albert Earnest Grable, College Place, Wash.**

B.A. '59, La Sierra College; M.S. '62, University of Minnesota. Major: Entomology. Minor: Botany. Thesis: The Seasonal Abundance and Biology of the Aphidiid Wasps Which Attack Aphids; Occurring on Forage Legume Crops in Minnesota (Hymenoptera: Aphididae-Homoptera: Aphididae). Major Adviser: Prof. F. G. Holdaway.

**Richard George Gray, Wilmette, Ill.**

B.A. *magna cum laude* '54, Whitworth College; M.A. '56, University of Minnesota. Major: Journalism. Minor: Political Science. Thesis: Freedom of Access to Government Information (A Study of the Federal Executive). Major Adviser: Prof. J. E. Gerald.

**Seymour Zalman Gross, Brooklyn, N.Y.**

B.A. '57, Brooklyn College; M.A. '60, University of Minnesota. Major: Psychology. Minor: Child Psychology. Thesis: Predictive Utility of the Juvenile Court Prehearing Report: A Five Year Follow-Up Study. Major Adviser: Prof. R. D. Wirt.

**Richard William Hansen, St. Paul**

B.B.A. with distinction '58, M.S. '60, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: The Growth and Development of Cooperative Retail Chains and Their Marketing Significance. Major Adviser: Prof. E. H. Lewis.

**Robert Donald Hobert, Minneapolis**

B.A. *magna cum laude* '57, University of Minnesota. Major: Psychology. Minor: Industrial Relations. Thesis: Moderating Effects in the Prediction of Managerial Success From Psychological Test Scores and Biographical Factors. Major Adviser: Prof. M. D. Dunnette.

**Hassan Fahmy El-Sayed Imam, Cairo, Egypt, United Arab Republic**

B.M.E. '58, Cairo University (Egypt); M.S.M.E. '62, University of Minnesota. Major: Mineral Engineering. Minor: Mechanical Engineering. Thesis: A Viscoelastic Analysis of Mine Subsidence in Horizontally Laminated Strata. Major Adviser: Prof. Charles Fairhurst.

**Allen Dale Johnson, Harmony**

B.S. '56, Winona State College; M.S. '61, University of Minnesota. Major: Zoology. Minor: Entomology. Thesis: A Study of the Biology of Strigeid Flukes of the Genus *Alaria*. Major Adviser: Prof. F. G. Wallace.

**Hideo Kanemitsu, Tokyo, Japan**

B. of Econ. '56, M. of Econ. '58, University of Tokyo. Major: Economics. Minor: Mathematics. Thesis: The K-Process—A Study of Informational Efficiency in Decentralized Resource Allocation Processes. Major Adviser: Prof. Leonid Hurwicz.

**Alan D. Kaske, Minneapolis**

B.S. with distinction '58, M.S.E.E. '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Negative Space Charge Neutralization by an Auxiliary Discharge Ion Source. Major Adviser: Prof. H. J. Oskam.

**Edward Orest Kenaschuk, Watson, Saskatchewan, Canada**

B.S. in Agric. '55, M.S. '57, University of Saskatchewan. Major: Genetics. Minor: Plant Pathology. Thesis: Study of Yield and the Components of Yield in the  $F_2$  and  $F_3$  Generations of Crosses Involving Four Soybean Lines. Major Advisers: Profs. J. W. Lambert and L. A. Snyder.

**David Austen King, Waconia**

B.S. '54, M.F. '61, University of Minnesota. Major: Forestry. Minor: Economics. Thesis: An Analysis of Selected Socioeconomic Characteristics of Family Campers Using the Huron-Manistee National Forests in 1962. Major Adviser: Prof. R. A. Skok.

**Kenneth Alan Kline, Columbia Heights**

B.S. with high distinction '61, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: A Nonlinear Theory of Thermo-Viscoelasticity for Materials with Memory. Major Adviser: Prof. C. N. De Silva.



James Lewis Levine, New York, N.Y.  
B.S. '58, Massachusetts Institute of Technology; M.S. '61, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Mobility of Electrons in Dense Helium Gas at Low Temperatures. Major Advisers: Profs. T. M. Sanders and William Zimmermann, Jr.

Sister Mary Mercy McGrady, Pittsburgh, Pa.

B.A. '55, Mount Mercy College. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Synthesis and Structure of Non-Tetrahedral Dialkyltin (IV) Compounds. Major Adviser: Prof. R. S. Tobias.

Kenneth John Meyer, Manitowoc, Wis.

B.A. '53, Lawrence College; M.A. '56, University of Minnesota. Major: American Studies. Thesis: Social Class and Family Structure: Attitudes Revealed by the Earliest American Novels, 1789-1815. Major Adviser: Prof. M. C. Turpie.

Richard Lee Meyer, Independence, Mo.

B.S. in Ed. '54, Missouri Valley College. Major: Botany. Minor: Zoology. Thesis: Morphology, Cytology and Life History of Certain Chrysophyceae. Major Advisers: Profs. A. J. Brook and R. E. Norris.

James Clement Mickus, New Prague

B.S. '55, College of St. Thomas; M.S. '61, University of Minnesota. Major: Inorganic Chemistry. Minor: Chemistry. Thesis: Electrochemical Study of Metal-Metal Oxide Electrode Systems with Sulfamic Acid and Sulfamic Acid-Alkali Metal Hydrogensulfate Electrolytes. Major Adviser: Prof R. C. Brasted.

Harley William Moon, Balaton

B.S. with distinction '58, D.V.M. '60, University of Minnesota. Major: Veterinary Pathology. Minor: Microbiology. Thesis: The Association of *Escherichia Coli* with Diarrheal Disease of the Newborn Pig. Major Adviser: Prof. D. K. Sorensen.

Debabrata Mukherjee, Calcutta, India

B.Sc.(Agric.) '49, University of Dacca; Diploma '56, Indian Agricultural Research Institute (India). Major: Genetics. Minor: Plant Pathology. Thesis: The Inheritance of Resistance to Bacterial Blight Soybeans. Major Adviser: Prof. L. A. Snyder.

Salah-El-Din Ahmed Osman, Cairo, Egypt

B.Sc.(Agric.) '58, Ein Shams University (Egypt); M.S. '61, University of Minnesota. Major: Animal Husbandry. Minor: Entomology. Thesis: Studies on Water Balance in Rats Under Conditions of Restricted Water Supply. Major Advisers: Profs. R. J. Meade and J. D. Smith.

Turner Leo Oylo, Brookings, S.D.

B.S. '54, M.S. '57, South Dakota State College. Major: Agricultural Economics. Minor: Economics. Thesis: A Study of Vertical Integration in the Minnesota Turkey Industry. Major Adviser: Prof. D. F. Fienup.

Hihun Pak, Bemidji

B.A. '57, Gustavus Adolphus College; M.A. '60, University of Minnesota. Major: Political Science. Minor: Philosophy. Thesis: Relativism in Contemporary Political Theory: Kelsen, Popper, Weldon, Brecht. Major Adviser: Prof. B. E. Lippincott.

Lawrence Lee Pinsonneault, Wabasha

B.S. *magna cum laude* '56, College of St. Thomas; M.S. '61, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Elastic Scattering of Lithium by Lithium. Major Adviser: Prof. J. M. Blair.

Vadlamudi Pitchaiah, Tenali, India

B.Sc. '52, Andhra Christian College; M.S. '54, Banaras Hindu University (India). Major: Mathematics. Minor: Statistics. Thesis: Finite Difference Methods in the Solution of Laplace's Equation with Mixed Boundary Conditions on a Rectangular Domain. Major Adviser: Prof. Fulton Koehler.

Richard Elwood Poppele, Minneapolis

B.S.E.E. *cum laude* '58, Tufts University. Major: Physiology. Minor: Mathematics. Thesis: A Quantitative Study of Vestibular Influences Upon Spinal Cord Activities. Major Adviser: Dr. C. A. Terzuolo.

Hugh M. Potter III, Durham, N.H.

B.A. '54, Union College; M.A. '58, University of North Carolina. Major: American Studies. Thesis: The "Romantic Nationalists" of the 1920's. Major Adviser: Prof. C. A. Chambers.

Larry Joseph Prescott, Blue Earth

B.E.E. with distinction '58, University of Minnesota; M.S.E.E. '60, Massachusetts Institute of Technology. Major: Electrical Engineering. Minor: Physics. Thesis: Noise of a Helium-Neon Gas Laser. Major Adviser: Prof. Aldert van der Ziel.

X. B. Reed, Jr., Baytown, Tex.

B.S.(Ch.E.) '59, Agricultural and Mechanical College of Texas. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: On Time Differentiation; Studies in Interfacial Mechanics. Major Adviser: Prof. L. E. Scriven.

Elmer Otto Schlemper, Pacific, Mo.

B.A. '61, Washington University. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: The Structure of Some Cyano Compounds of Group IV and Group V Elements. Major Adviser: Prof. J. D. Britton.

Paul John Seymour, Brookings, S.D.

B.A. '50, M.A. '56, University of Minnesota. Major: Speech and Theatre Arts. Minors: Psychology and Journalism. Thesis: A Study of the Relationships Between the Communication Skills and a Selected Set of Predictors and of the Relationships Among the Communication Skills. Major Adviser: Prof. W. S. Howell.

Betty Faye Smith, Magnolia, Ark.

B.S.H.E. with honors '51, University of Arkansas; M.S. '57, University of Tennessee; Ph.D. '60, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Determination of the Distribution of the Methoxyl Groups in Methylated Cellulose. Major Adviser: Prof. Fred Smith.

Denzell Stewart Smith, Minneapolis

B.A. '50, M.A. '54, M.A. '58, University of Minnesota. Major: English. Minor: Scandinavian. Thesis: The Tragedy of Cleopatra Queene of Aegypt by Thomas May (Written ca. 1626; First Edition 1639) A Critical Edition. Major Adviser: Prof. Huntington Brown.

Eric Norman Stokes, Haddon Heights, N.J.

B.Mus. '52, Lawrence College; M.Mus. '56, New England Conservatory of Music. Major: Music. Minor: English. Thesis: Three Sides of a Town. Major Adviser: Prof. Paul Fetler.

Robert Irwin Vexler, White Plains, N.Y.

B.A. '59, Cornell University; M.A. '61, University of Rochester. Major: History. Minor: English. Thesis: The Intellectual Origins of the French Labor Movement 1852-1870. Major Adviser: Prof. J. L. Altholz.

# Academic Costume

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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 near the upper part of 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
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
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 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*

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**MARCH, 1965**

- 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 President and Mrs. Wilson; Associate Professor and Mrs. Gibbs; Mr. James Wm. Rustad, President, Minnesota Student Association; and Mr. Daniel F. Paskewitz, President, Coffman Union Board of Governors.
- Assisting in the Reception are students and staff members, including those from the Senate Committee on University Functions, the Minnesota Student Association, the Union Board of Governors, the Army ROTC, and the Department of University Relations. Representatives from the following honorary societies have been invited: Arrowhead, Chimes, Grey Friars, Innocents, Iron Wedge, Mortar Board, Silver Spur, and Phoenix.



UNIVERSITY OF MINNESOTA

*June Commencement, 1965*

SATURDAY EVENING, JUNE 12, 7:30 P.M.

MEMORIAL STADIUM

# *The Board of Regents* ---

The Honorable Charles W. Mayo, M.D., Rochester  
First Vice President and Chairman

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhorst, Olivia

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, President

Dr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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# *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 fourteenth 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 we offer preparation. Since its founding, the University has awarded more than 176,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 38,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, 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, the Hormel Institute at Austin, and at 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 Build-



ing 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 biological-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 38,403 students who enrolled at the University at the beginning of this academic year represent 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 will institute an admissions policy based on controlled growth of total enrollment. This change in admissions requirements will hold the 1965-1966 enrollment to about 42,000 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 1963 LEGISLATURE granted the University \$63,502,050 for general operations and maintenance during the 1963-65 biennium. In addition, the University received \$8,028,242 for University Hospitals; \$5,309,483 for special appropriations, including special extension and research activities; \$12,478,700 for new buildings, land, and the rehabilitation of existing buildings; and \$964,135 for University of Minnesota, Morris.

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 1963-1964 showed that the University's current income and expenditures amounted to \$120,996,183.65. Of the total received, \$11,695,702.92 came from student tuition and fees; \$15,601,446.97 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; \$1,597,684.93 from intercollegiate athletics; \$17,881,472.49 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 \$8,117,653.39 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$26,591,688.27 came from the federal government for instruction, research, and agricultural extension. The state provided \$39,510,534.68 or 32.7 per cent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$10,134,063.

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 various Special Project Programs, including scholarships, medical and technological research, and college service funds, which are 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\*

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**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their families and friends reach the Minneapolis 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 Miss Jo Ann Johnson, CLA '65, 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, D.M.A., Bandmaster, will play:

- Pageant Overture - - - - - Ronald LoPresti
- Incantation and Dance - - - - - John B. Chance
- Little Rhapsody - - - - - George Gershwin
- Puerto Allegri - - - - - William Rhodes

**PLACEMENT OF FLAGS:** During the Prelude Concert, students carrying the flags of seventy-eight 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 1,200 foreign students enrolled 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 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 | Austria | Cameroon |
| Algeria     | Belgium | Canada   |
| Argentina   | Brazil  | Ceylon   |
| Australia   | Burma   | Chile    |

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\* In the event of heavy rain, Commencement Exercises will be held in Northrop Auditorium. However, only the members of the graduating class will be in the Auditorium. Relatives and friends of graduates are invited to listen to the broadcast of the ceremonies anywhere in Coffman Memorial Union or in any of the following Auditoriums: the Museum of Natural History, the Mayo Memorial, Murphy Hall, Scott Hall, and Nicholson Hall. In addition, the ceremonies will be broadcast over KUOM beginning at 7:30 p.m. and may be listened to from any radio that is available.

Colombia	Jamaica	Republic of China
Costa Rica	Japan	Republic of the Congo
Cyprus	Jordan	Saudi Arabia
Denmark	Kenya	South Africa
Dominican Republic	Korea	Spain
Ethiopia	Kuwait	Sudan
Finland	Lebanon	Sweden
France	Liberia	Switzerland
Germany	Libya	Tanzania
Ghana	Malaysia	Thailand
Greece	Mexico	Trinidad and Tobago
Guatemala	Morocco	Tunisia
Haiti	Netherlands	Turkey
Honduras	New Zealand	Uganda
Hungary	Nigeria	United Arab Republic
Iceland	Norway	United Kingdom
India	Pakistan	Union of Soviet
Indonesia	Panama	Socialist Republics
Iran	Paraguay	Venezuela
Iraq	Peru	Viet-Nam
Ireland	Philippines	Yugoslavia
Israel	Poland	Zambia
Italy		

PROCESSION: At 7:30 p.m. the Mace Bearer, Professor Benjamin E. Lippincott, Ph.D., College of Liberal Arts, will mount 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 the Graduate School. Faculty Marshals are Professor Lippincott; Professor Frederick E. Berger, B.A., General Extension Division; Professor Ambert B. Hall, D.D.S., School of Dentistry; Professor Frank E. Di Gangi, Ph.D., College of Pharmacy. During the procession the Bands will play:

*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 Colors. The audience will rise and remain standing for the Colors, and for the National Anthem, and the Invocation which follow.

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

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 Clare W. Karsten, S.T.B., Campus Minister of the Wesley Foundation on the Minneapolis Campus.

SPEAKING FOR THE UNIVERSITY OF MINNESOTA: President O. Meredith Wilson, Ph.D.

CONFERRING OF ROTC CERTIFICATES: Vice President William G. Shepherd, Ph.D., Academic Administration, will introduce Lt. Colonel Robert J. Elliott, USA, Professor of Military Science; Captain Edward M. Morgan, USN, Professor of Naval Science; Captain Dewey E. Johnson, USAF, Assistant Professor of Aerospace Studies, who will present the candidates for commissions in their respective branches of the Armed Services. The certificates of ROTC completion will be presented by President Wilson.

CONFERRING OF DEGREES: Vice President Shepherd will introduce the deans of the several colleges who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction, Dean Willard L. Thompson, Ph.D., General Extension Division; Dean Horace T. Morse, Ph.D., General College; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Associate Dean Alfred L. Vaughan, Ph.D., University College; Dean Athelstan Spilhaus, D.Sc., 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 George P. Hager, 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, M.S.D., School of Dentistry; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Bryce Crawford, Jr., Ph.D., Graduate School.

SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION: Professor Edwin L. Haislet, Ed.D., Executive Secretary of the Minnesota Alumni Association and Director of the Department of Alumni Relations.

PRESENTATION OF DIPLOMAS: With Dean of Students Edmund G. Williamson, Ph.D., 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 Associate Dean Donald Z. Woods, Ph.D., General Extension Division; Professor G. Gordon Kingsley, Ed.D., General College; Associate Dean John G. Turnbull, Ph.D., College of Liberal Arts; Professor John A. Goodding, Ph.D., University College; Associate Dean Frank Verbrugge, Ph.D., Institute of Technology; Assistant Dean Keith N. McFarland, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Marcia Edwards, Ph.D., College of Education; Professor Nicholas A. Glaskowsky, Ph.D., School of Business Administration; Associate Dean Charles V. Netz, Ph.D., College of Pharmacy; Assistant Dean John O'Brien, 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; Associate Dean John R. Borchert, Ph.D., Graduate School.

*HAIL! MINNESOTA*, the University's Alma Mater song: 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 as indicated on those listed below and upon such others as may meet the requirements for the Reserve Officers in the Armed Services.

## **DEPARTMENT OF MILITARY SCIENCE**

### **Second Lieutenant, Armor**

Douglas B. Hollenbeck, White Bear Lake

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

John A. Boler, Minneapolis  
William J. Burke, Bloomington

William L. Felker, Minneapolis  
Robert B. Swandby, Minneapolis

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

Jerome L. Licari, Madison, Wis.

Ferdinand J. Richter, South St. Paul

### **Second Lieutenant, Infantry**

Robert L. Gamble, Minneapolis  
Thomas Johnson, Minneapolis

Michael J. Smith, Minneapolis

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

Kenyon K. Kramer, Vesta

Mark H. Vacura, St. Cloud

### **Second Lieutenant, Ordnance Corps**

Kenneth K. Kurihara, Kahului, Maui,  
Hawaii

Michael J. Moline, St. Paul  
Thomas L. Schlough, Waite Park

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

James F. Lazenby III, Macon, Ga.

William F. Wanner, Jr., Edina

## **Second Lieutenant, Transportation Corps**

Michael J. Helms, Minneapolis

## **DEPARTMENT OF NAVAL SCIENCE**

### **Ensign, USN**

Peter J. Cross, Whitehouse Station,  
N.J.

Richard M. Dillow, Wenatchee,  
Wash.

Dale E. Gabrielson, Virginia

Leonard R. Greger, South St. Paul

Gerald F. Keeney, Clinton, Iowa

Stoddon G. N. King, Wayzata

Stephen G. Kmetz, Wilkes-Barre, Pa.

Rodney D. Knutson, Jacksonville, Fla.

Allen P. Larson, Truman

Carl J. Newberg, Minneapolis

William M. Oakley, Jr., Excelsior

John C. Pollock, South St. Paul

Roger W. Redenbaugh, Minneapolis

Thomas J. Thornton, Edina

Darrell E. Weidauer, Garvin

### **Ensign, USNR**

Robert A. Burck, Crystal

Bruce M. Mason, Minneapolis

Duane L. Paulson, Minneapolis

Samuel B. Peilen, Minneapolis

John B. Standal, Minneapolis

Philip P. Stevens, Twin Lake, Mich.

Steven A. Wilson, Golden Valley

### **Ensign, SC, USN**

Edward L. Keiser, Milford, Mich.

Ronald C. Nelson, Minneapolis

Geoffrey W. Pope, Excelsior

George W. Schandel, Blue Earth

John A. Schmah, St. Paul

### **Ensign, SC, USNR**

Jeffrey D. Paymar, St. Paul

### **Second Lieutenant, USMC**

Dennis A. Conroy, Cleveland, Ohio



# DEPARTMENT OF AEROSPACE STUDIES

## Second Lieutenant, USAF Reserve

Robert E. Bennett, Minneapolis  
Douglas W. Bulen, Anoka  
Paul W. Hansen, Minneapolis  
Joseph P. Hodge, St. Paul  
John L. Krueger, Stillwater  
Robert M. Miller, Chaska  
Ross E. Nelson, Minneapolis

John A. Nierengarten, Jr., Minne-  
apolis  
Kent F. Richardson, Richfield  
Mark M. Richardson, Edina  
Gary L. Rose, St. Louis Park  
Robert B. Wilson, St. Louis Park

# *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**

Clarence Lincoln Blackwood, St. Paul

### **Business Administration Certificate**

Albert T. Lalim, Minneapolis

Dennis Leon Polley, Minneapolis

### **Engineering Science Certificate**

Gilbert Douglas Baron, St. Paul

### **Associate in Mortuary Science**

Garry Lee Adams, Three Forks,  
Mont.

Marvin James Attleson, B.S.,  
Necedah, Wis.

Brian Douglas Bantz, Aberdeen, S.D.

Michael Thomas Brezinsky, Pine  
River

Norman Lee Christensen, Lyons,  
Neb.

Thomas Joseph Dieveney, B.A., St.  
Paul

James Arthur Emerson, Dawson

Robert Ransom Ernst, Cambridge

Loren James Glatzmaier, Columbia  
Heights

Robert Edward Guenther, Richfield

William Harrison Guerry, A.A.,  
Montezuma, Ga.

John Michael Happe, Minneapolis

Donald Joseph Hayden, Le Center

Gerald Richard Helm, Minneapolis

Ernest Frank Hensley, St. Petersburg,  
Fla.

John Harlow Hill, Annandale

David William Jarvi, Cloquet

Jerry Lee Johnston, Conrad, Iowa

Bernard Clyde Kalkbrenner, Silver  
Bay

Gerald Frederick Kann, Wausau,  
Wis.

Terrance Robert Kerntz, Ely

William Karl Klein, St. Peter

James Edward Kohl, Faribault

James Frank Lazenby III, Macon, Ga.

David Patrick Malone, A.A., Minne-  
apolis

Terrence Edward McAloon, Paw-  
tucket, R.I.

Joe Vincent Mullen, Monticello, Iowa

John Lewis Overton, Indianola, Iowa

David Earl Pritchard, Roland, Manitoba, Canada  
Thomas William Schapman, Carroll, Iowa  
Gary James Sorem, Wimbledon, N.D.

Theodore Frederick Swift, Saginaw, Mich.  
Herman Visser, Seattle, Wash.  
Donald Robert Zuther, Rib Lake, Wis.

## GENERAL COLLEGE

### Associate in Arts

Sonja Lee Amundsen, Minneapolis  
Judith K. Lines Anderson, Minneapolis  
June Betty Anderson, Springfield  
Noel John Anderson, Glenwood  
William James Anderson, Minneapolis  
Charles Wesley Aune, Minneapolis  
Dean Lynn Bailey, Long Lake  
Larry Eldridge Banks, Cannon Falls  
Janet Lea Baxter, Canby  
Martin Jerome Berde, St. Paul  
Barry Steven Berg, Minneapolis  
Gary Allen Berquist, Litchfield  
Edward Alan Berris, St. Paul  
Joseph John Berzak, Jr., Columbia Heights  
Robert Louis Boehnhardt, Minneapolis  
Beverly Ann Brunner, Minneapolis  
Jennifer Olga Burgusaim, Minneapolis  
Louis Harvey Buron, Jr., St. Paul  
John Denis Burton, Brainerd  
John Willetts Burtzlaff, Minneapolis  
Albert Brownell Chaussee, Jr., Forest Lake  
Patricia Mary Clarke, Minneapolis  
Susan Harriet Cohen, Minneapolis  
James Odell Coleman, Edina  
John Vincel Colwell, Hastings  
Thomas John Condon, Minneapolis  
Michael Allen Corbett, Forest Lake  
Kathleen Lou Dahl, Minneapolis  
Gertrude Camp Dahlen, Minneapolis  
Larry Kurtis Daudt, Crown  
Charles Leo Edward DaWald, Odessa  
Sandra Kay DeWitt, Minneapolis  
Gary H. S. Dorn, Deer River

Charles Arthur Dorniden, West St. Paul  
Donald Melvin Durham, Minneapolis  
Mary Margaret DuShane, Rochester  
James Darrell Edberg, Minneapolis  
Gene Allan Ellingsen, St. Paul  
Sharon Faye Ellis, Minneapolis  
Scott John Engstrom, Minneapolis  
Arthur William Fields, Anoka  
Henry Charles Finn, St. Louis Park  
Shandra Ranae Fiola, Richfield  
Robert Thomas Flesher, St. Paul  
Lawrence Robert Freas, Jr., Minneapolis  
Thomas Henry Freiling, Jr., South St. Paul  
Edwin John Freye, Jr., St. Paul  
Jean Marie Gagner, New Brighton  
Ellen Harriet Gantman, St. Paul  
Donald Bruce Gillson, St. Paul  
Nancy Janet Goldhirsch, Minneapolis  
Alan Lee Graziani, Minnetonka  
John Charles Grech, Robbinsdale  
David LeRoy Grider, Minneapolis  
Warner Edward Gunsell, St. Paul  
Robert Neal Hall, St. Paul  
William John Halluska, Jr., Minneapolis  
Gary Lee Hansen, Minneapolis  
Loren Russell Hansen, Minneapolis  
Judith Lynne Hanson, Minneapolis  
Mary JoAnn Hanzal, St. Paul  
Bruce William Hawkinson, Minneapolis  
Mary Ann Heinz, St. Paul  
George Ralph Henes, Wayzata  
Lyle Edward Hennen, Shakopee  
Thomas Earl Hicks, Robbinsdale

Wesley Joseph Hiebel, Alexandria  
Jeffrey Michael Hill, St. Paul  
Clifford Alfred Hillstrom, Maple Plain  
Ronald Howard Hinze, St. Paul  
James Monk Holmbeck, Bloomington  
Jeffrey Verne Holmes, Duluth  
Gail Leslie Hopkins, Minneapolis  
Steven Iver Howie, St. Paul  
Paul Robert Hunkins, Minneapolis  
Norman Albert Isaacson, Minneapolis  
Gail Maureen Israel, Minneapolis  
Norman David Iverson, St. Paul  
Michael John Ives, St. Paul  
Janet Joy Johnson, Minneapolis  
Maila Corinne Johnson, Minneapolis  
Michael Charles Johnson, Minneapolis  
Robert Noel Johnson, South St. Paul  
Ronald Allen Johnson, St. Paul  
Thomas Myles Johnson, Minneapolis  
James Lee Kavanaugh, St. Paul  
Gary Frederick Kent, Minneapolis  
John Raphael Kernan, Jr., Minneapolis  
Gary Lee Kinler, Minneapolis  
Ilga Kiploks, Minneapolis  
Ross Ellis Knight, Jr., Minneapolis  
Dennis Konn, Minneapolis  
Dennis Harold Kosanke, St. Paul  
Ronald James Lapham, Minneapolis  
Janet Marie Law, Minneapolis  
Curtis Brian Liljenberg, Taylors Falls  
Gary Robert Lundquist, Minneapolis  
Michael Edward Lynch, Minneapolis  
Richard Lyle MacNabb, Bloomington  
Michael Allen Mahowald, Minneapolis  
Joseph Anthony Mangine, St. Paul  
Jerry Arlen Markley, Minneapolis  
Mark Leon Mason, Brooklyn Center  
Stuart Herbert McBeath, St. Paul  
Mary Kathryn McLeod, Edina  
Wayne Arthur Moberg, Minneapolis  
Kaye Marie Morgan, Minneapolis  
William Hans Nelson, Bloomington  
Robert John Nessel, Minneapolis  
Jon Steven Nordstrom, Minneapolis  
James Marlin Noss, St. Paul  
Roger William Oas, Minneapolis  
Edward George Oberg, St. Paul  
Curtis Alan Olson, Minneapolis

Larry Lee Olson, Minneapolis  
Nancy Lee Ostrow, Minneapolis  
Duane Adolphus Otterness, Minneapolis  
Gary Andrew Parten, Minneapolis  
James Edward Peltier, Minneapolis  
Helen Elaine Peterson, Minneapolis  
Henry Gaufin Peterson, Minneapolis  
James Robert Peterson, Isanti  
Timothy Paul Peterson, St. Paul  
David Paul Plasch, Minneapolis  
William James Proetz, Hopkins  
Stanley James Prowse, St. Paul  
Gerald Patrick Ranallo, Minneapolis  
Sandra Lee Rathbone, Minneapolis  
Robert Paul Rhyne, Wheaton  
William Junior Rice, Carroll, Ohio  
Lee Jerome Roisum, Minneapolis  
Dennis Michael Ross, St. Paul  
Gregory William Rounds, St. Paul  
Thomas Cornell Sando, Minneapolis  
David Harry Schlieff, Pine Island  
Gary Nickolas Scholla, Hector  
Stanley George Seim, Stillwater  
Dean L. Selander, St. Paul  
Craig Richard Shoemaker, Fridley  
Charles Elderidge Smith, Minneapolis  
David Joseph Spano, Minneapolis  
William John Stang, Minneapolis  
Kenneth Richard Stangenes, St. Paul  
John Arthur Starks, Minneapolis  
Robert Bruce Stern, San Jose, Calif.  
Melvin Webster Strowder, St. Paul  
James Francis Stuhr, Minneapolis  
Wilton G. Swenson, Jr., Deerwood  
Sandra Jean Tantzzen, Minneapolis  
Homer David Thorsen, St. Paul  
Linda Elizabeth Tremann, Excelsior  
Gloria Jean Turen, Minneapolis  
William Raymond Tutch, Minneapolis  
Susan Gay Van Valkenburg, Minneapolis  
William Patrick Waddick, Jr., Minneapolis  
Susan Carol Walsh, Robbinsdale  
Georgann Elizabeth Warren, St. Paul  
Edward James Wojciak, Minneapolis  
Mary JoAnne Zaworski, Minneapolis  
Michael Joseph Zmuda, Jr., Minneapolis

# COLLEGE OF LIBERAL ARTS

## Associate in Liberal Arts

Dolores Marie Boisclair, Minneapolis  
Jean Elaine Buechler, Ames, Iowa  
Orris Douglas Fensand, Minneapolis  
Leonard William Fernelius, Minneapolis  
David Charles Gauvin, North St. Paul  
Martha A. Swain Grantham Gordon,  
White Bear Lake  
Nancy Katherine Hansen, St. Paul  
Bonnie Lou Rose Hartfiel, Edina  
Robert Gary Karr, St. Paul  
Donna J. Wyeth Larrivee, Minneapolis  
Todd Stephen Lawson, Minneapolis  
Douglas John Nelson, Minneapolis  
Marlene Juanita Nordstrom, Minneapolis  
Diane Alice Oliver, Hill City  
Suzanne Marie Pelletier, Minneapolis

JoAnn Leiaulani Pohjola, Cloquet  
James George Roban, Minneapolis  
Elizabeth Ann Robinson, Minneapolis  
Thomas Francis Roers, Minneapolis  
Patricia Elaine Scully, Minneapolis  
John Burk Sharpless II, Wayzata  
Lyle LeRoy Shuey, Minneapolis  
Glenn Wayne Thompson, Minneapolis  
Barbara Joan Karl Treziok, Minneapolis  
Ann Marie Wescott, Minneapolis  
Susan Jean West, Red Wing  
Lyle Arthur Wigand, St. Paul  
Alice Mary Schenefeld Wilgus,  
Rochester, N.Y.  
Marilyn Kay Zurbay, Minneapolis

## Bachelor of Arts

Mary Margaret Larkin Abell, Brainerd  
Richey Darell Adams, St. Paul  
Nobuhiko John Akimoto, Minneapolis  
Sylvia Lois Beebe Alexander, Minneapolis  
Ralph Lloyd Allen, Jr., West Palos  
Verdes Estates, Calif.  
Mansoor Alyeshmerni, Shiraz, Iran  
Ausma Amolins, St. Paul  
Mary June Sorensen Amundson,  
Richfield  
Jacqueline Dianne Anders, Minneapolis  
Carol Jo Anderson, Elkton  
Charles Frederick Anderson, Minneapolis  
Charters Harry Anderson, Minneapolis  
Elliot Maxwell Anderson, Worthington  
Harold Coleman Anderson, Minneapolis

James Earl Anderson, Columbia Heights  
Jeanne Margaret Anderson, Minneapolis  
*Kathleen Anderson, Kinney, SUMMA CUM LAUDE*  
Mark Emmet Anderson, Minneapolis  
Mary Christine Anderson, South St. Paul  
Mary Russell Anderson, St. Louis Park  
Paul Gene Anderson, Stanchfield  
Todd Clifford Anderson, Minneapolis  
Laurence Bruce Angell, Wayzata  
Mary Avedis Anilyan, Cairo, Egypt  
Ann Elizabeth Archer, Minneapolis  
*Bryan Jeremy Arling, Minneapolis, SUMMA CUM LAUDE*  
Bonnie Dean Armstrong, Hopkins  
Ruth M. Gross Armstrong, St. Paul  
William Karl Arsenaault, St. Paul  
William George Asp, Hutchinson  
Steven John Aufderheide, New Ulm  
David William Aurell, Grand Rapids

*Ruth Theresa Austin, Duluth, MAGNA  
CUM LAUDE*

John Daniel Baasen, Wayzata

Sarah Babb, New Canaan, Conn.

Nancy Kay Babulski, Minneapolis

Lynn Catherine Bailey, Mahtomedi

Gail Eileen Banwart, Amboy

Penny Gilda-Beth Baran, Minneapolis

Howard Miles Bard, Minneapolis

James John Barnett, Kilkenny

James Gregory Baron, Minneapolis

Douglas Woodward Barton, Minne-  
apolis

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 Gary Randall Hanson, Windom  
 Ronald Lee Hanson, St. Paul, CUM  
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 Rose Mary Huisman Hanson, Minne-  
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 Naomi Barbara Schulman, Minne-  
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 Falls  
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Paul Eldon Thompson, Minneapolis  
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 Thomas James Thornton, Edina  
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 West Berlin, West Germany  
 James Gary Tourtillotte, Richfield  
 Jennifer May Trewyn, Minneapolis  
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 Bernard Hall Trueblood, Brainerd  
 Ruth Louise Tuininga, Minneapolis  
 Richard Armand Turgeon, Minne-  
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 William Martin Uggen, Wells  
 Karen Ann Ullring, St. Paul  
 Richard Craig Ungerman, Minne-  
 apolis  
 Marian Diane Uram, St. Paul  
 Mark Harold Vacura, St. Cloud  
 Maria Cean VanRaemdonk, Minne-  
 tonka  
 Valerie Veronica Varano, Minne-  
 apolis  
 Michael Harlan Vinitsky, St. Paul,  
 CUM LAUDE  
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 David Lloyd Wallace, Minneapolis,  
 CUM LAUDE  
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 William Franklin Wanner, Jr., Edina  
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 Linda Lee Watson, Hopkins  
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 apolis  
 Leslie Jill Weaver, Vancouver, British  
 Columbia, Canada, MAGNA CUM  
 LAUDE  
 David Lee Webster, Minneapolis  
 Judith Kay Webster, Minneapolis  
 David Eugene Weeding, Minneapolis  
 Daniel Erwin Weinberg, Minneapolis  
 Alan William Weinblatt, St. Paul  
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 Paul, SUMMA CUM LAUDE  
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 Mary Martha Williams, Minneapolis  
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 Paul Maurice Williamson, Hastings  
 Glenn Gordon Wilson, Crandon, Wis.  
 Mary Ann Wilson, St. Paul  
 Steven Alexander Wilson, Minneapolis  
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 Linda Trelawny Witcher, Wayzata  
 Avis Marie Peterson Woehrle, Golden Valley  
 James Donald Woelm, Minneapolis  
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 Julie Anne Kissner, Lambertton  
 Rebecca Kathleen Luker Kleinbaum, St. Cloud, MAGNA CUM LAUDE

Elaine Edna Martin, St. Paul  
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Sharon Jane Hanson, Edina



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- Gerald Allan Melin, Minneapolis,  
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David Howard Frederick, *St. Charles*,  
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Plaine  
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Lake  
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Wis.  
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Heights  
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Center  
Ronald Raymond Johnson, Stillwater  
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Fla.  
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Lake  
Walter Joseph Kozmik, Minneapolis  
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Hawaii  
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Donald Lawrence Marier, Hugo  
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James Burch McWethy, Minneapolis  
Carlton Cox Miller, Bloomington  
William Ralph Miller, Minneapolis  
Wilfred John Mroska, Royalton  
Richard Herman Mullenbach, A.A.,  
Adams  
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William Marion Oakley, Jr., Excel-  
sior  
Dennis Russell Ojard, Knife River  
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Heights  
Allan Curtis Ritchie, St. Louis Park

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Robert Edwin Takala, Duluth  
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Paul  
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Charles Roman Zimmer, St. Joseph  
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## **Bachelor of Geophysics**

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## **Bachelor of Mathematics**

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Herbert Michael Franzen, South St.  
Paul  
Michael Joseph Frisch, Minneapolis  
Raymond Peter Goedert, St. Cloud,  
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many, WITH DISTINCTION  
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neapolis

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James Anton Hodek, Minneapolis,  
WITH HIGH DISTINCTION  
Neil Laine Johnson, Hopkins  
Verne Scott Kayser, Minneapolis,  
WITH DISTINCTION  
Jacqueline Elaine Lander, St. Paul,  
WITH DISTINCTION  
Anthony Paris Leuthold, Edina  
Roger Emmett Miller, Detroit Lakes  
Maya Weil, Tel-Aviv, Israel, WITH  
DISTINCTION

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Thomas Frank Canfield, Cloquet  
Philip Shu-Ying Cheng, Hong Kong  
Jon Herbert Davison, A.A., Rochester  
William Douglas Forare, Annandale  
Michael Peter Goeb, Albertville  
David William Goodwin, Minnetonka  
Neal David Gustafson, Minneapolis  
Jack F. Hage, Beirut, Lebanon  
Peter Clare Halden, Minneapolis  
Paul Leonard Hegna, Minneapolis

Steven Riley Jones, St. Louis Park,  
WITH DISTINCTION  
Cornelius Krollman, Hibbing  
Robert Lawrence Kuhn, A.A., Austin  
Arthur Joseph LaFave, Two Harbors  
James Norman Lang, Rochester  
Albert Warner Libke III, Side Lake  
Mac William Lutz III, Richfield  
Kenneth A. Maki, Aurora  
Douglas N. Malm, Duluth  
Jerry T. Moffitt, Minneapolis  
Charles Duane Niehaus, Granada

Alan Kenneth Overholt, St. Louis  
Park  
James C. Rothman, Ely  
Donald Dean Schaefer, Minneapolis  
Thomas Leon Schlough, Waite Park  
Frederick Heinkle See, Duluth

Richard Frank Seme, Winton  
Rodney Victor Sundstrom, Duluth  
Lynn Allen Swenson, Minneapolis  
Dale LeRoy Taipale, Minneapolis  
Vincent Peter Teuber, Hastings  
Allen Duane Wells, Verndale

### **Bachelor of Metallurgical Engineering**

David Roy Johnson, Sleepy Eye

Leslie Eugene Mulvania, Red Wing

### **Bachelor of Metallurgy**

Leonard L. Laskow, Minneapolis

Gail Stanley Soderling, Richfield

### **Bachelor of Physics**

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*Jeffrey Rogers Basford, St. Louis Park, WITH HIGH DISTINCTION*  
*Frederick Daniel Becchetti, Jr., Minneapolis, WITH DISTINCTION*  
Thomas Richard Carlson, South St. Paul  
*Randall Hubert Caton, Minneapolis, WITH HIGH DISTINCTION*  
William Wayne Dykoski, Minneapolis  
Jonathan Sidney Freeman, Northfield  
*Glenn Andrew Gerdin, Minneapolis, WITH HIGH DISTINCTION*  
Herbert George Guertin, St. Paul  
John Charles Gustafson, Worthington  
*James Michael Helgeson, Dawson, WITH HIGH DISTINCTION*

*Dale Edmund Johnson, Ellendale, WITH HIGH DISTINCTION*  
Ting Chung Kan, B.S., M.S., Nanking, China  
*Gary Allen Kinstler, Minneapolis, WITH DISTINCTION*  
Flavis Rae Linder, Bloomington  
*Richard Frederick Lundgren, Edina, WITH DISTINCTION*  
Warren Kahl Mitchell, Winona  
*Douglas Leroy Phinney, Rapid City, S.D., WITH HIGH DISTINCTION*  
*Donald Walter Strecker, Annandale, WITH HIGH DISTINCTION*  
Charles Douglas Swanson, Hibbing  
*Richard Theodore Wieckowicz, Barron, Wis., WITH HIGH DISTINCTION*  
John Carl Wittenberger, Postville, Iowa

### **Geological Engineer**

*The following Engineer degree is granted to a graduate of the University of Minnesota principally in recognition of the attainment of professional competence and judgment. It is based on not less than eight years of professional work and a thesis.*

Burton H. Boyum, Negaunee, Mich., B.Geol. E. '41, University of Minnesota, thesis, "Studies of Mines Subsidence Marquette Iron Range Michigan."

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

## Technical Certificate in Agriculture

Richard Frank Estum, Lamberton

Wayne Roger Hendrickson, Lamberton

## Bachelor of Science

Mathias Kojo Akposoe, Ghana, Agriculture

John Edmund Allerson, Nicollet, Agriculture, WITH HIGH DISTINCTION

David Anselm Anderson, St. Paul, Forestry, WITH DISTINCTION

Judith Mary Anderson, Duluth, Home Economics

Gerald James Bach, Wisconsin Rapids, Wis., Forestry

Kenneth Francis Baumgartner, Bird Island, Forestry

LouAnn Barbara Berg, Pine Island, Home Economics

Erwin Royd Wendell Berglund, Minneapolis, Forestry, WITH DISTINCTION

Gary Conrad Bergstrom, Minneapolis, Forestry

Goran Ernst Daniel Blomberg, Minneapolis, Agriculture

Thomas Gerald Bongard, St. Paul, Forestry

David John Books, Eau Claire, Wis., Forestry, WITH DISTINCTION

Steven James Broderius, Hector, Agriculture, WITH DISTINCTION

Eugene Victor Bromenshenkel, Sauk Centre, Agriculture

Linda Kay Brooke, St. Paul, Home Economics

Bruce Lee Casey, Brainerd, Forestry, WITH DISTINCTION

James Byron Christianson, Badger, Agriculture

Kay Renee Clauson, Ashby, Home Economics, WITH DISTINCTION

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Gary Warren Crawford, Minneapolis, Agriculture, WITH DISTINCTION

Mary Janice Dewsnap, Waupun, Wis., Home Economics

David Bruce Dickey, Edina, Agriculture

Wayne James Dunn, Jr., Brownsville, Tex., Forestry

Duane Robert Dykhuizen, Maple Lake, Agriculture

James Albert Eberhard, Lake Elmo, Agriculture

Craig Amos Eidem, Burbank, S.D., Agriculture

Jerry Douglas Emery, Mound, Agriculture

Kaye Marie Farrow, Robbinsdale, Home Economics, WITH DISTINCTION

Diane Cecilia Gallow, St. Paul, Home Economics

Daniel Harold Gee, Cottonwood, Agriculture

Rollin Roger Geppert, Lake City, Forestry

Herbert George Giefer, Minneapolis, Forestry, WITH DISTINCTION

Robert Ralph Gilbertson, Excelsior, Forestry

Jean Marie Gillett, Hammondsport, N.Y., Home Economics

Phil Ted Grimm, Hector, Forestry

Ruth Ann Gunderson, Olivia, Home Economics

Joanne Kay Haugen, Jasper, Home Economics

ArvaDelle Anne Hermodson, Crookston, Home Economics

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Bryant Keith Hokeness, Elkton, Agriculture  
 John William Holden, Northfield, Agriculture  
 Michael George Horner, Minneapolis, Forestry, WITH DISTINCTION  
 Richard Thomas Isaacson, Pelican Rapids, Agriculture  
 Jolane Jean Jergenson, Stephen, Home Economics  
 Duane August Johnson, North Mankato, Agriculture  
 Gary Harvey Johnson, Fergus Falls, Agriculture  
 Douglas Charles Keran, Minneapolis, Agriculture  
 Darrell George Kringen, Staples, Agriculture  
 Marilyn Jeanne Lang, St. Paul, Home Economics  
 Alice Marie Larson, Preston, Home Economics  
 Jane L. Larson, St. Paul, Home Economics  
 Jerald Richard Larson, Bloomington, Agriculture  
 Jerome Lawrence Licari, Madison, Wis., Forestry  
 Inger Charlotte Percydottter Magnell, St. Paul, Agriculture  
 Joan Lois McCloskey, St. Paul, Home Economics  
 Dwight Medbery, Browns Valley, Forestry  
 Susan Chantland Meinecke, Bloomington, Home Economics, WITH DISTINCTION  
 Gordon Benjamin Meyer, Farmington, Agriculture  
 David Russell Milner, St. Croix Falls, Wis., Forestry  
 Ronald Owen Molstad, Clarkfield, Agriculture  
 Richard Philip Monson, Washington, D.C., Forestry  
 James Michael Mortenson, South St. Paul, Forestry  
 Stephen Lawrence Morton, Duluth, Forestry  
 Jon Mills Nelson, Minneapolis, Agriculture  
 Ross Elwin Nelson, Minneapolis, Forestry  
 Eugene Norman Norstrom, Pine City, Forestry  
 David Stanley Novitzki, Brainerd, Forestry  
 John David O'Connell, Hopkins, Forestry  
 Starr Frances Ojile, Minneapolis, Home Economics  
 LaVerne Deidra Peters, Mentor, Home Economics  
 Jane Wanda Peterson, Hartland, Home Economics  
 Richard Irwin Pietz, Revere, Agriculture  
 Alan LuVerne Pikop, Elbow Lake, Agriculture  
 David Ralph Purinton, Rochester, Agriculture  
 Albert Rudolph Quade, Wells, Agriculture  
 Carol Ann Raschka, Minneapolis, Home Economics, WITH DISTINCTION  
 LaDue Carl Reinholdt, Ruthton, Agriculture  
 Karen Ann Rinde, Richfield, Home Economics  
 John Solie Rowe, Wadena, Agriculture  
 Robert Andrew Rugloski, White Bear Lake, Agriculture  
 Karen Margaret Saltveit, Minneapolis, Home Economics  
 Rodney Wayne Sando, Ogilvie, Forestry  
 David Erish Schmidt, Preston, Agriculture  
 Ronald Herbert Schmidt, Darwin, Agriculture  
 Kay Delores Schwab, Minneapolis, Home Economics, WITH DISTINCTION  
 Rex Martin Schwartz, A.A., Sleepy Eye, Agriculture  
 Nancy Jill Sewell, A.A., Minneapolis, Home Economics  
 Lorris Clarence Siewert, Zumbro Falls, Agriculture



Karen Lorna Simon, St. Paul, Home Economics  
 Bonnie Lee Skaran, Grand Meadow, Home Economics  
 Craig Michael Smith, Minneapolis, Forestry  
 Mary Eileen Dickman Spurrier, Minneapolis, Home Economics  
 Raphael Jean Teresa Stassen, Minnesota, Home Economics  
 Richard Bruce Sternberg, Rochester, Agriculture  
 Robert John Stricker, Braham, Forestry  
 Nancy Ann Strobush, St. Paul, Home Economics  
 Jerry Leroy Struthers, Brooklyn Center, Agriculture  
 Donald Roy Sundeen, Richfield, Agriculture  
 Franklin Joseph Svoboda, Hutchinson, Agriculture

Robert Anthony Swanson, A.A., Hastings, Agriculture  
 Stephen Michael Tennis, Hayward, Agriculture  
 Gary Lamont Torbert, Hector, Agriculture  
 Richard Paul Trautner, Rochester, Agriculture  
 Nancy Jean Tritten, Rochester, Home Economics  
 Cathy Ann Waslien, Minneapolis, Home Economics, WITH HIGH DISTINCTION  
 Barry Wayne Welch, Hopkins, Forestry, WITH DISTINCTION  
 JoAnn Welschinger, Minneapolis, Home Economics, WITH DISTINCTION  
 Harold Allen Wickman, Minneapolis, Forestry  
 Charles Ernst Wilson, Minneapolis, Agriculture

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### Bachelor of Science

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Sharon Lou Atkinson, Minneapolis, WITH DISTINCTION  
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Heights  
Rosalee Frances Biros, Minneapolis  
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Falls, Wis.  
Jean Lundberg Bower, B.A., Plain-  
field, Wis.  
Jerome Lawrence Boyer, B.B.A., Min-  
neapolis

Rosemary Louise Branch, St. Louis  
Park, WITH DISTINCTION  
Patricia Ann Brock, White Bear Lake,  
WITH DISTINCTION  
Andrea Lee Karels Brodtmann, St.  
Paul  
Gerald Thomas Brown, A.L.A., B.A.,  
Minneapolis  
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lage, WITH DISTINCTION  
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Sharon Joan Bunnell, Minneapolis,  
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Wing  
Barbara Ann Campbell, Crookston  
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Janet Lee Aiton Carlson, St. Paul  
Judith Brenda Carlson, Ladysmith,  
Wis.  
Karen Lue Carlson, St. Paul  
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apolis  
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Iron  
Wayne Joseph Cernohous, B.A.,  
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apolis  
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Patricia Ann Christian, Richfield  
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neapolis  
Diane R. Christopherson, Minne-  
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Constance Clausen, Minneapolis  
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Judith Suzann Cohen, Minnetonka  
Gerald John Cole, Minneapolis

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*Deerwood*  
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 DISTINCTION  
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 WITH DISTINCTION  
 Jean Ann Drawz, *South St. Paul*,  
 WITH DISTINCTION  
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 Barbara Mary Jannett, St. Paul  
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*Karna Elizabeth Johnson, St. Paul, WITH DISTINCTION*  
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 Marilyn Mae Johnson, B.A., North Branch  
 Orvin Victor Johnson, Minneapolis  
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 Sharalyn Kaye Risch Johnson, Pipestone  
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 Marcia Elizabeth Jones, Blue Earth  
 Elizabeth Ann Joyce, Minneapolis  
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 William Earl Journey, St. Paul

Theresa Dorothy Kahn, Grand Island, Neb.

Judy Arlene Kallsen, Chaska

*Kathleen Anne Kambeitz, Minneapolis, WITH DISTINCTION*

*Karen Nan Kane, Duluth, WITH DISTINCTION*

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Judith Mae Kausek, Eveleth

Edward Leo Keiser, Milford, Mich.

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Juanita Marie Kelly, Edina

Lewis Ellery Kennedy, Albert Lea

Alexandra Starr Kerr, Minneapolis

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Angie Marie Zirkelbach King, Minneapolis

James Raymond King, Minneapolis

Craig McNeil Kissock, Minneapolis

Sharon Louise Winthrop Kivens, St. Louis Park

Barry Joel Kivo, St. Louis Park

*Marilyn Louise Kjelsberg, St. Paul, WITH HIGH DISTINCTION*

Anne Louise Klemer, Faribault

Stephen Ward Kline, Minneapolis

Adeline Christine Knight, South St. Paul

*Janice Ann Knutson, St. Paul, WITH DISTINCTION*

John Robert Kobe, B.A., Minneapolis

Joan Mary Kochevar, Chisholm

Merle Jean Koehler, Janesville

*Pamela Renee Koellen, Minneapolis, WITH DISTINCTION*

Karen Elizabeth Kolstad, St. Paul

Virginia Marie Komidar, B.A., Chisholm

William Robert Kostick, Fertile

Karen Ann Kreofsky, Wabasha

Ivan Joseph Krizan, B.B.A., Minneapolis

Joelilyn Kronick, A.A., Minneapolis

*Irene Lindahl Krumpelmann, St. Paul, WITH DISTINCTION*

Lois Kay Kulbeck, Minneapolis

Claudia Ardette Kutzler, St. Louis Park

Merrie Joan Kyrklund, Minneapolis

Sarah Jane Kyrklund, Burlington, Iowa

Margaret Lambert, St. Peter

Karin Sylvia Landmesser, St. Paul

Dennis Vern Larson, Brainerd

Maureen Ann LaSota, Minneapolis

Nancy Jane Latini, A.A., Buhl

Armand Emile Laurent, Minneapolis

Barbara Ann Leaf, St. Paul

Karen Marie Lee, Robbinsdale

*Barbara Joanne Leemon, Minneapolis, WITH DISTINCTION*

*Judith Gail Leppanen, Eveleth, WITH DISTINCTION*

Frederick Zumdahl Leshner, B.A., M.A., Clinton, Iowa

Paul John Leverentz, Jr., Minneapolis

Marjorie Winer Levitan, Peabody, Mass.

Carolyn Light, Minneapolis

Patricia Ann Light, Minneapolis

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Robert Thomas Lohn, A.A., Minneapolis

Priscilla Ann Lord, Excelsior

Dennis William Lowder, Minneapolis

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Diane Marie Lucht, Minneapolis

David Edward MacLean, B.A., M.A., Red Wing

Marian Palmquist Malstrom, Anoka

Alberta Ann Manning, A.A., Franklin, Wis.

Loren August Marschel, Rockford

*Pamela Jane Matson, Waseca, WITH DISTINCTION*

Michael Vincent Mattson, Hallock

Dennis Roger May, Minneapolis

Marjorie Jeanne Mayer, Minneapolis

Ruth Waldrop Mayer, Stillwater

Geraldine Maria McArdle, Minneapolis

Marvin John McClure, St. Paul

Kathleen Elizabeth McGrann, Watertown, S.D.

Marilyn Ann McKinney, Minneapolis

Kathleen Kay McLaughlin, Ishpeming, Mich.  
 Elizabeth Ann Merry, New Brighton  
 Carleton Conover Meyer, Minneapolis  
 Carole Marie Meyer, St. Louis Park  
 Danny Gerald Meyer, Parkers Prairie  
 Judith Ann Preattle Miller, Buhl,  
 WITH DISTINCTION  
 Judith Maren Miller, St. Paul  
 Kathleen Jean Miller, Minneapolis  
 Sharon Kay Miller, Coon Rapids  
 William Francis Miller, South St. Paul  
 Mary Louise Mills, St. Cloud, WITH DISTINCTION  
 Patricia Suzanne Molloy, Minneapolis  
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 Margo Morris, Minneapolis  
 Sharon Anne Munger, B.A., Duluth  
 Kathleen Ann Murphy, Minneapolis  
 Jacquelyn Ann Murray, St. Paul  
 Lyle Raymond Myers, Minneapolis  
 Carol Marie Nelson, Minneapolis  
 James Leonard Nelson, Crystal, WITH DISTINCTION  
 Kathleen Emily Nelson, St. Louis Park, WITH DISTINCTION  
 Kenneth James Nelson, Minneapolis  
 Maxine Dee Nelson, Litchfield  
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 Robert Owen Nelson, B.A., Minneapolis  
 Sharon Marlene Nelson, Minneapolis  
 Dennis Ervin Neumann, Winona, WITH DISTINCTION  
 Joyce Frances Bixler Newell, Columbia Heights, WITH HIGH DISTINCTION  
 Ralph Edmund Niznik, Minneapolis  
 Susan Lois Noble, Minneapolis  
 Kay Louise Nopola, Biwabik  
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 Michael Allyn Novak, Minneapolis  
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 Rosemary O'Loughlin, Minneapolis  
 Barbara Jean Olson, Minneapolis  
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 Marsha Lynne Parker, Minneapolis  
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 Kathlyne Mary Peller, St. Paul  
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 Jean Cosgriff Rasmussen, Glencoe  
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 Bonita Louise Roitenberg, St. Louis Park, WITH DISTINCTION  
 Joan Nobuko Rokutani, Mound  
 Lana Rae Rossi, Winona, WITH DISTINCTION  
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 Beverly Diane Sagberg, Minneapolis  
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 Allen Orville Salo, A.A., Grand Rapids  
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 Dawn Rose Shearer, A.A., St. Paul  
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 Jean Ann Sherek, A.A., Biwabik  
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 Maria Theresa Szutz, Minneapolis  
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 Maureen Louise Taube, Edina  
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 Linda Louise Thayer, Minneapolis  
 Myrtydee McKneely Thompson, Minneapolis, WITH HIGH DISTINCTION  
 Polly Virginia Thomson, Minneapolis, WITH HIGH DISTINCTION

Sara Louise Thorstenson, St. Paul  
 Louise Eva Tillman, Wilton, Wis.  
 Sandra Eileen Tone, International Falls  
 John James Ukasick, Minneapolis, WITH DISTINCTION  
 Rolla Breitman Unowsky, Minneapolis  
 Barton John Uplinger, Oxnard, Calif.  
 Marian Diane Uram, St. Paul, WITH DISTINCTION  
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 Judith Susan Boelter Van Ryn, Minneapolis, WITH DISTINCTION  
 Marilyn Christine Vare, Minneapolis  
 Vivian Rochelle Vasquez, Crystal  
 Joan Lawless Vaughan, B.A., Rosemount  
 Constance Marie Verstraete, Tracy, WITH DISTINCTION  
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 Robert Anton Walser, Minneapolis  
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 Susan Elaine Walters, Tieton, Wash.  
 Lura-Beth Sparrow Wareing, Wyandotte, Mich., WITH DISTINCTION  
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 William Wellisch, B.A., Minneapolis  
 David Jon Wentzel, Minneapolis  
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 Julie Belle White, St. Paul  
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 Kenneth Clement Wierschem, Milwaukee, Wis.  
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 Marlene Lois Wilde, Elgin, WITH DISTINCTION  
 Jerry Wilkes, St. Louis Park  
 Freddie Bartholemew Williams, A.A., Minneapolis  
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 Michele Lee Skaar Williams, Minneapolis  
 Virginia Elizabeth Willner, St. Paul, WITH DISTINCTION  
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## Master of Education

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 Eric John Magdanz, B.S., Minneapolis  
 Gerald Fred Swanson, B.S., M.A., Minneapolis  
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- Judith Evelyn Carlson, Grove City, Home Economics Education
- Patricia Anne Churchill, Bemidji, Home Economics Education, WITH HIGH DISTINCTION
- Susan Lee Coffman, Milaca, Home Economics Education
- George Hubert Copa, Little Falls, Agricultural Education, WITH HIGH DISTINCTION
- Ruth Gladys Erickson, McIntosh, Home Economics Education, WITH HIGH DISTINCTION
- Heidi Alayne Frstad, Cambridge, Home Economics Education, WITH DISTINCTION
- Peggy Gay Garrison, Goodhue, Home Economics Education
- Anne Ellen Glady, Wykoff, Home Economics Education
- William Olaf Harju, Glidden, Wis., Agricultural Education, WITH DISTINCTION
- Vlasta Vadura Havel, Czechoslovakia, Home Economics Education, WITH DISTINCTION
- William Paul Henry, Paynesville, Agricultural Education
- Bernard Joseph Kahnke, A.A., Waseca, Agricultural Education, WITH DISTINCTION
- Ronald Gale Kelsey, Lewisville, Agricultural Education
- Howard Morgan Kittleson, Blooming Prairie, Agricultural Education, WITH HIGH DISTINCTION
- Donna Hicks Krahmer, Minneapolis, Home Economics Education
- Mary Emaline Kraus, Lake Crystal, Home Economics Education
- Karen Anne Larson, Alberta, Home Economics Education, WITH DISTINCTION
- B. Kaye Leding, Virginia, Home Economics Education, WITH HIGH DISTINCTION
- Jean Ellen Mattson, Johnson, Home Economics Education
- Twylla Reese McPherson, Minneapolis, Home Economics Education
- Virginia Ann Mens, Owatonna, Home Economics Education
- Glenna Jean Moore, Graceville, Home Economics Education
- Myrna Mae Muller, St. Paul, Home Economics Education
- Sandra Christine Anderson Nelson, Minneapolis, Home Economics Education
- Karen Lillie Ann Marie Oelke, Waverly, Home Economics Education, WITH DISTINCTION
- Beverly Ann Palmer, Stillwater, Home Economics Education
- Marlynn Lois Proulx, Forest Lake, Home Economics Education
- Janice Carol Roadfeldt Reinke, Robbinsdale, Home Economics Education
- Barbara Ann Robinson, Minneapolis, Home Economics Education
- Dennis Marlow Rupp, New London, Agricultural Education
- Keith Willard Stangler, Waterville, Agricultural Education
- Ingrid Louise Sundquist, Minneapolis, Home Economics Education, WITH DISTINCTION

Paul Frederick Thomas, Lakeville,  
Agricultural Education, WITH HIGH  
DISTINCTION  
Raphael Mark Traen, Minneota, Ag-  
ricultural Education  
Daniel Alois Von Bank, Jordan, Ag-  
ricultural Education

Caryl Youngberg Wogensen, Minne-  
apolis, Home Economics Education,  
WITH DISTINCTION  
Janice Caroline Erickson Younggren,  
Hallock, Home Economics Educa-  
tion

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Ronald Alton Lien, Minneapolis

### Bachelor of Science in Business

David Craig Anderson, Albert Lea  
Sarah Marie Arett, Spring Valley  
Brian Clifford Barencheer, South  
St. Paul  
James Walter Beck, Mound  
Richard Donald Beerman, Minne-  
apolis  
David Allen Bell, Bayport  
Richard Edward Bennett, A.A., Bovey  
Robert Edward Bennett, Minneapolis  
James Fredrick Besikof, Minneapolis  
William Raymond Bowers, St. Paul  
Gary Robert Boyson, Golden Valley  
Carl Raymond Branger, Minneapolis  
*Eva Jane Bruner, Amery, Wis., WITH  
DISTINCTION*  
Walter Michael Brunner, Minneapolis  
Gregory John Budzynski, Minneapolis  
Gary Edward Buesgens, Chaska  
Douglas Wesley Bulen, Anoka  
Roger Fredrick Burdorf, Biscay  
David Lee Buresh, Robbinsdale  
Marvin R. Burstein, Minneapolis  
Richard Earl Carroll, St. Paul  
Dennis Miles Cavanaugh, Minne-  
apolis  
John Stephen Contardi, Iron River,  
Mich.  
Charles Micheal Cook, St. Louis Park  
Kenneth William Copp, Burnsville  
Fredrick Richard Coumbe, Richfield  
Richard Frank Craven, Minneapolis

Roger Allen Danielson, Minneapolis  
James Peter DeFoe, Osakis  
*Neil Blaine Dieterich, Omaha, Neb.,  
WITH DISTINCTION*  
*Dennis Floyd Eckman, Minneapolis,  
WITH DISTINCTION*  
Stephen Wayne Ellingson, Spring  
Grove  
Thomas Edward Erickson, Minne-  
apolis  
Harvey Allen Feldman, St. Louis Park  
Raymond Frederick Fickes, Coon  
Rapids  
Robert Louis French, A.A., St. Paul  
Steven Rafael Gepner, Minneapolis  
Stephan Behr Gilats, St. Paul  
James Arthur Ginsburg, Minneapolis  
John Ross Gish, St. Paul  
Robert Dean Gisvold, Minneapolis  
Lee Guilliams, Butterfield  
Richard George Hanson, Excelsior  
Kenneth Wayne Hasledalen, St. Louis  
Park  
Allan Curtis Helgeson, Benson  
Donald L. Henry, Onamia  
Lee Bruce Hoffman, St. Paul  
*Thomas Ray Hofstedt, Mound, WITH  
DISTINCTION*  
Robert William Horton, Rochester  
David Ray Hubers, Pease  
John Willard Hultquist, Red Wing  
Michael James Hurley, Minneapolis

Mechell Paul Jacob, Minneapolis  
 Clifford Stein Jacobson, Breckenridge  
 John Arden Jaros, Vesta  
 Lowell Clair Johnson, Dodge Center  
 Wayne Stuart Kaplan, Owatonna  
 Robert Vincent Kling, White Bear  
 Lake  
 Wayne William Kohler, Minneapolis  
 James Rollin Lander, Jr., Mankato  
 Samuel Nathan LeCount, Bertha  
 Floyd J. Lehne, Minneapolis  
 Robert Irwin Levey, St. Paul  
 Howard Grant Luick, Minneapolis  
 James Gerard Lynch, Jr., St. Paul  
 Edward Fraser Mackay, Noyes  
 Leo Gary Majerus, Austin  
 William Dominic Martino, Minne-  
 apolis  
 Duncan William McDougall, Jr., Min-  
 neapolis  
 Lawrence Edmund McNulty, Minne-  
 apolis  
 Gordon Washington Mixon, St. Paul  
 David Allen Mlekoday, Minneapolis  
 David Bradford Morse, Wayzata  
 Jon Robert Nelson, Edina  
 Wayne E. Novak, Eau Claire, Wis.  
 Charles William Paetzel, Minneapolis  
 Seymour Verlyn Pederson, Jr., Hop-  
 kins, WITH DISTINCTION  
 Samuel Bruce Peilen, Minneapolis  
 Miles Michael Pfaff, St. Paul  
 Robert James Pfeifer, Minneapolis  
 Robert David Potts, Richfield  
 Frank Harry Powers, Walker  
 Peter Paul Prestegaard, Golden Valley  
 Joel Puckett, Milaca, WITH DISTINC-  
 TION

Earl Francis Rasmussen, Detroit,  
 Mich.  
 Ronald John Rebeck, St. Paul  
 Donald Robert Rodel, Bird Island  
 Robert Fredrick Rohrer, A.A., Worth-  
 ington  
 H. James Roitenberg, St. Louis Park  
 Dale Clarence Rosen, Braham  
 Harold Gordon Ruud, Minneapolis  
 Louis Gerard Sachwitz, St. Paul  
 Michael Archie Scanlan, Rochester  
 George William Schandel, Blue Earth  
 John Ralph Schlaeppli, St. Paul, WITH  
 HIGH DISTINCTION  
 Joseph William Schuck, St. Paul  
 Myron Elton Schuette, Glencoe  
 Stephen Collins Schwartz, Albert Lea  
 Daniel Roger Shank, A.A., B.A.,  
 Council Bluffs, Iowa  
 David Michael Shank, St. Louis Park  
 Merle James Shapiro, Minneapolis  
 Peter Alan Simon, Minneapolis  
 Paul Meyer Singer, Pittsburgh, Pa.  
 Gary Dale Smith, Minneapolis  
 Gerald Ralph Sonderup, Minneapolis  
 Wayne Bert Sorensen, St. Paul  
 John Blair Standal, Minneapolis  
 Daniel Waldo Stoleson, Minneapolis  
 Courtney John Storey, St. Paul  
 Owen Lloyd Stowman, St. Paul  
 Arlo Dale Swanson, Granite Falls  
 Raymond Edward Sylvester, Cedar  
 Arnold Anthony Thiffault, Fridley  
 Terrance Charles Tisdell, Olivia  
 Richard Evans Weeden, Minneapolis  
 Darrell Edward Weidauer, Garvin  
 Esther Arlene Wikelius, Lindstrom  
 James Arthur Williamson, Mound  
 Robert Bruce Wilson, St. Louis Park

## Bachelor of Science in Economics

David Anthony Gravelle, Duluth  
 Robert John Hennessey, St. Paul,  
 WITH DISTINCTION  
 Jerome Burton Ingber, St. Paul  
 Richard Charles Jorgenson, Glenwood  
 City, Wis.  
 Terry James McCarthy, Virginia  
 James I. Mortick, South St. Paul

William Hale Pladson, Grand Forks,  
 N.D.  
 William James Radke, Minneapolis  
 Stephen Allen Richards, Edina  
 Samuel Milton Schwartz, St. Paul  
 Allen Andrew Sterger, Crookston  
 Richard Wilson Smith, Jr., Winnipeg,  
 Manitoba, Canada

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

## Bachelor of Agricultural Business Administration

Keith Alan Aho, Cook  
Martin Eugene Haider, St. Paul  
John Lawrence Krueger, Stillwater  
Ronald Gene Lorenz, A.A., Worthington  
Wayne Elmer McRoberts, Howard  
Lake

Kurt Royce Moe, Springfield  
Lowell Dwayne Nystrom, A.A.,  
Worthington  
Allan John Palmquist, St. Peter, WITH  
DISTINCTION  
Steven Henry Sjogren, Hector  
Philip Orme Sonstegard, Marshall

## COLLEGE OF PHARMACY

### Bachelor of Science in Pharmacy

Evan Neil Anderson, Minneapolis  
Keith DeVon Anderson, Comfrey  
Jeffrey Fallin Andrews, Edina  
Theodore R. Beatty, Cook  
Ronald Roy Becklund, Minneapolis  
David Ernie Berg, Montevideo  
Thomas Robert Berg, Stewartville  
Jack Harold Berttula, Ely  
Leslie George Bonney, Minneapolis  
Wayne Arthur Chapman, Minneapolis  
James Craig Clinite, Minneapolis  
Charles Lee Coe, Minneapolis  
Arvin Z. Cohen, B.S., Minneapolis  
Rita Virginia Coran, International  
Falls  
Jean Kay Deegan, Tarpon Springs,  
Fla.  
Marvin LeRoy Dyrstad, Glenwood  
Andrew Chauncey Eldien, Cook  
Cyrus Brooks Elliott, Jr., St. Paul  
Bruce Marcus Erickson, B.S., Minne-  
apolis  
Robert Norman Gale, Minneapolis  
Robert Henry Galinson, Minneapolis  
Thomas Arnold Gaylord, Cloquet  
Gerald Edward Grosslein, Minne-  
apolis

Gary Kenneth Gustafson, A.A., Ex-  
celsior  
Donald John Hagberg, Mound  
Paul William Hansen, Ray  
Keith Richard Holme, Golden Valley  
Lowell William Jaques, Braham  
Marshall Kermit Johnson, Minne-  
apolis  
James Frederick Jordan, St. Paul  
Peter John Lagus, Hutchinson  
Dennis Jay Magner, St. Paul  
Mykola Malinowsky, Minneapolis  
Richard Louis Matuseski, Moose Lake  
Gary David McDaniel, St. Paul  
Dennis McDonough, Rochester  
Ward Donald Mens, St. Paul  
Robert Carroll Mooney, Evanston,  
Ill.  
Jerry Lynn Nelson, Wayzata  
Richard Carlton Oftedahl, Cotton-  
wood  
Joel Kenneth Olsen, Sleepy Eye  
Jane Margaret Pederson, St. Paul  
John Clayton Peterson, Watertown  
James Karl Philippy, St. Paul  
Richard James Poor, B.S., St. Paul  
Charles Mark Rafferty, Owatonna  
Stanley James Rosen, Crosby

Lauren Aldo Rosenquist, B.A., Maple-  
ton  
Harold Sadoff, Minneapolis  
Leon Dale Schumacher, Minneapolis  
Ronald Eugene Schuster, Minneapolis  
Paul Bruce Schwartz, St. Louis Park  
Robert John Short, Slayton  
David Nicholas Stemp, Chatfield  
Judith Ann Stephans, Minneapolis  
Arturs Studans, Minneapolis  
David Carl Sundberg, International  
Falls

Loren Elwood Sundboom, North St.  
Paul  
Steven Francis Swanson, Excelsior  
William Dwaine Swanson, Tracy  
Thomas Wayne Thurik, Minneapolis  
Eugene Ross Torbert, South St. Paul  
James Lyle Wibbens, Worthington  
Gary Wayne Wicklund, Pencer  
Donald Max Witt, Winthrop  
John Robert Wittren, Minneapolis  
Robert Francis Zweber, St. Paul

## LAW SCHOOL

### Bachelor of Laws

*Peter Loring Adomeit, B.A., Excelsior,  
CUM LAUDE*  
Jon Berni Albrightson, B.B.A., New  
Richmond, Wis.  
Laurence Alexis Anderson, B.A., Min-  
neapolis  
Sheldon Lee Azine, B.A., Richfield  
Paul John Bakke, B.A., Thief River  
Falls  
Stephen Allan Bard, B.A., Minne-  
apolis  
William H. Bast, B.A., St. Paul  
William Merrill Beadie, B.A., St. Paul  
Bernard P. Becker, B.A., New York  
City, N.Y.  
Wayne Thomas Belisle, B.S., St. Paul  
Michael Laurence Berde, St. Paul  
Thomas Kenneth Berg, B.A., Minne-  
apolis  
*Frank Ronald Berman, B.S.B., Min-  
neapolis, CUM LAUDE*  
*Richard Arnold Bowman, B.A., Min-  
neapolis, CUM LAUDE*  
James Elwell Broberg, B.A., Minne-  
apolis  
*John Milton Brocker, B.A., Edina,  
CUM LAUDE*  
Peter Henry Burkhardt, B.S.Econ.,  
Plainview  
Bruce McNear Carlson, B.B.A., Min-  
neapolis  
Richard John Carlson, B.A., St. Louis  
Park

Douglas James Carney, B.A., Minne-  
apolis  
Carl Michael Conney, B.A., St. Paul  
Rollin Harold Crawford, B.A., West  
St. Paul  
*Richard Thomas Curtin, B.A., Austin,  
CUM LAUDE*  
Harry James Delizonna, B.S.B., St.  
Paul  
George Deretich, B.S., M.A., Hibbing  
Albert James Dickinson, B.A., St.  
Paul  
Austin Dowling Ditzler, B.A., Minne-  
apolis  
Thomas P. Donnelly, Jr., New Ulm  
James Edward Erickson, B.A.,  
Wadena  
Sheldon Joseph Eviden, B.A., Min-  
neapolis  
John G. Fitzpatrick, B.A., Brainerd  
Charles A. Flinn, Jr., B.A., Windom  
Gary August Fridell, B.A., Red Wing  
Lane Charles Fridell, B.A., Red Wing  
Michael Edward Fridgen, B.A.,  
Wheaton  
*Jane Goldbarg Friedman, B.A., Min-  
neapolis, CUM LAUDE*  
Robert Marrs Frisbee, B.S.B., Cut  
Bank, Mont.  
Roger Henry Frommelt, B.Ch.E.,  
Minneapolis  
Theodore King Furber, B.B.A., Edina  
Phillip Gainsley, B.A., Minneapolis

*Charles Arthur Geer, B.A., Minneapolis, MAGNA CUM LAUDE*  
*John Max Gerenz, B.A., St. Paul*  
*John Frederick Gerten, B.A., St. Paul*  
*Stephen Merrill Goldfarb, B.S.B., Minneapolis*  
*Delroy John Gorecki, B.A., Foley*  
*George William Greene, Jr., B.A., Minneapolis*  
*Peter Patrick Grottodden, B.S., Moorhead*  
*Bruce Douglas Grussing, B.A., Minneapolis, CUM LAUDE*  
*David K. Hackley, B.A., M.A., Minneapolis, CUM LAUDE*  
*James Thomas Hale, B.A., Hopkins, SUMMA CUM LAUDE*  
*Henry Andrew Harmon, B.A., Des Moines, Iowa*  
*Charles John Hauenstein, B.A., M.A., New Ulm, SUMMA CUM LAUDE*  
*Thomas Herbert Healey, B.S.B., Minneapolis*  
*John S. Hedland, B.A., Minneapolis, CUM LAUDE*  
*Richard Carr Hemmersbaugh, B.Min.E., St. Paul*  
*Harald Frithjof Hendricksen, B.A., M.S., Minneapolis*  
*Michael Burton Hoffman, B.A., St. Paul*  
*Earl Philip Hokenson, B.A., Minneapolis*  
*Joyce Ann Hughes, B.A., Minneapolis, CUM LAUDE*  
*Laurence Burton Hughes, B.S.B., Worthington*  
*Donald George Jacobson, B.A., St. Louis Park*  
*David L. Jensen, B.A., Elmore*  
*Bruce Elwood Johnson, B.A., Minneapolis*  
*David Armin Johnson, B.A., Wayzata*  
*Darryl Kamin, B.A., St. Paul*  
*Roy Yukio Kawamoto, B.A., Honouliuli, Hawaii*  
*Jerry Lee Kellum, B.A., Minneapolis*  
*John Robert Kenefick, B.A., St. Paul*  
*Thomas Ray King, B.A., Edina*  
*Richard Stebbins Kinyon, B.A., Minneapolis, CUM LAUDE*  
*Bruce Arnold Krahmer, B.S., Fairmont, CUM LAUDE*  
*James Joseph Krieger, B.A., Albert Lea*  
*John H. Krohn, B.S., Minneapolis*  
*Bruce Charles Kruger, B.A., Faribault*  
*Stephen Allan Krupp, B.A., St. Paul*  
*Paul Martin Lange, B.S.B., Rochester*  
*Dale Irving Larson, B.A., Moorhead*  
*David Gregory Larson, B.A., Minneapolis*  
*Frederick Dean Lawson, B.S., Minneapolis*  
*David Charles Laxson, B.A., Minneapolis*  
*Barry M. Lazarus, B.A., Minneapolis*  
*Stephen George Lickteig, B.S., Austin*  
*John M. Lundblad, Jr., B.B.A., Barnum*  
*G. Thomas MacIntosh II, Crown Point, Ind.*  
*Arthur Mack, B.A., Hopkins*  
*Barbara Lee Madsen, B.A., Minneapolis*  
*James Maynard Madson, B.A., Austin*  
*James Hugh Maginnis, B.A., Minneapolis*  
*William Mons Mahlum, B.A., Duluth*  
*Judy Ann Manthei, B.A., Mapleton*  
*Alexander B. McGarry, B.S.B., Detroit, Mich.*  
*Michael Severt Mellum, B.A., Hibbing*  
*David Dean Meyer, B.A., Clara City*  
*Susan Margaret Millar, B.A., Neenah, Wis.*  
*James Douglas Moe, B.A., Edina*  
*James Leighton Mork, B.A., Austin*  
*Philip Joseph Murphy, B.A., Madelia*  
*Phillip Dean Nelson, B.A., St. Paul*  
*Rolf Timothy Nelson, B.A., Minneapolis*  
*Harry Logan Newby, Jr., B.A., Cloquet*  
*A. Douglas Nodland, B.A., Belmond, Iowa*  
*William Roy Nordstrom, B.A., Walnut Grove*  
*James Edward O'Brien, B.A., Worthington, CUM LAUDE*

Bruce G. Odlaug, B.B.A., St. Paul  
 Donald Howard Olson, B.B.A., St. Paul, CUM LAUDE  
 Gerald M. Olson, B.A., Minneapolis  
 John Oscar Ostenso, B.A., Minneapolis  
 Richard Arthur Peterson, B.A., Willmar  
 Michael Prichard, B.A., M.A., St. Paul  
 Paul Michael Priebe, B.A., Rochester  
 Dennis Joseph Purtell, B.A., Milwaukee, Wis.  
 Donald Thomas Raleigh, B.A., Lake Elmo  
 Louis Morton Reidenberg, B.B.A., St. Paul  
 Ronald William Reilly, B.A., St. Paul  
 Emery van Daell Rice, B.S., M.A., Meredith, N.H.  
 James Patrick Rogers, B.S., St. Paul  
 Robert Park Sands, B.A., St. Paul, CUM LAUDE  
 Henry Jerome Savelkoul, B.A., Minot, N.D.  
 Robert LeRoy Schmalz, B.S.B., Minneapolis  
 Peter James Schmitz, B.A., Hopkins  
 James Lawrence Schulze, B.S.L., Minneapolis  
 William MacNicoll Sergeant, B.S., Fort Dodge, Iowa  
 Terry Clayton Smith, A.A., B.S., Hammond, Ind.  
 Arnold Stern, B.A., Highland Park, Ill.  
 John Godfrey Thomson, B.A., Stevens Point, Wis.  
 Edward Henry Vraalstad, B.A., Mound  
 James F. Wagemaker, B.A., Olivia  
 Arthur D. Walsh, B.A., St. Paul  
 David C. Weinberg, B.A., Minneapolis  
 Jansson Stephan Wheeler, B.S., Minneapolis  
 Owen Meredith Wilson, Jr., B.A., St. Paul, MAGNA CUM LAUDE  
 John William Windhorst, Jr., B.A., Edina, MAGNA CUM LAUDE  
 F. Clark Witter, B.A., Park Rapids  
 Martha M. Wood, B.A., Minneapolis, CUM LAUDE  
 Duane E. Woodworth, B.A., Minneapolis  
 David Edward Zins, B.S., Nicollet

## VETERINARY MEDICINE

### Bachelor of Science

Galen Horatio Adkins, Pine River  
 Gary Alexis Boorman, Leonard  
 Stephen Jerome Brandjord, Minneapolis  
 William Lee Burnap, Chatfield  
 Russell Wayne Currier II, Richfield, Wis.  
 Paul Wayne Dettloff, Grand Meadow  
 Gordon Peter deVries, Ada, WITH DISTINCTION  
 Gary Russell Diehl, Donnelly, WITH DISTINCTION  
 Raymond Jon Diemer, Heron Lake  
 Cameron Lee Eilts, Mendota Heights  
 Todd Kenwood Fetsch, New Brighton  
 Robert Lewis Fischer, Linton, N.D.  
 Leonard Samuel Fogelson, Kenyon  
 Louis Albert Fritsche, B.A., New Ulm  
 Floyd Ralph Garrett, Jr., Dallas, Tex.  
 Richard Neil Gebhart, West St. Paul  
 David Allen Halvorson, Chatfield  
 Gordon Glen Hamann, Hardwick  
 Douglas Lee Hammer, Odin  
 Eugene Thomas Holmgren, Pennock  
 David Wayne Jacobs, Reading, WITH DISTINCTION  
 Richard Paul Klimmek, Gaylord  
 Glenn Ernest Kolb, Barron, Wis.  
 Charles Rodger Kratt, Morristown  
 Gary Ray Kuehn, Excelsior  
 John Darin Loda, Milwaukee, Wis.

Donald Neil McMartin, Madelia,  
 WITH HIGH DISTINCTION  
 Tom Mehlhoff, Thief River Falls  
 William Carl Miller, Paynesville  
 Donald Allen Oelschlager, Zumbrota  
 Patrick Vernon O'Neil, B.A., Rob-  
 binsdale, WITH DISTINCTION  
 James D. Rundquist, Minneapolis  
 George Richard Ruth, St. Paul  
 George Paul Sedgwick, Park Rapids  
 Ian Gilbert Shaw, St. Vincent  
 Kenneth Eugene Speltz, Minnesota  
 City, WITH HIGH DISTINCTION

Gary Arnold Steen, Anoka, WITH DIS-  
 TINATION  
 Robert Michael Stone, Canby  
 Brian Erick Toivola, Chisholm, WITH  
 DISTINCTION  
 Donald D. Vezina, St. Croix Falls,  
 Wis.  
 Frank Albert Voelker, Bemidji, WITH  
 DISTINCTION  
 Lyle Paul Vogel, St. Peter, WITH DIS-  
 TINATION  
 Robert Byron Waterman, Park Rapids

## Doctor of Veterinary Medicine

Larry Victor Baudin, B.S., Minne-  
 apolis  
 Milton Carl Bauer, Jr., B.A., B.S.,  
 Montgomery  
 Gilbert Isadore Boerboom, B.S.,  
 Marshall  
 Dennis Melvin Dammen, B.S., Wal-  
 nut Grove  
 James Allan Esterly, B.S., Luverne  
 Eugene Edward Fenske, B.S., Duluth  
 Louis Albert Fritsche, B.A., St. Paul  
 David Adolph Garlie, B.S., North-  
 field  
 Charles Fredrick Gehrman, B.S., Min-  
 netonka  
 Jerold Dennis Gemar, B.S., Fullerton,  
 N.D.  
 Ronald George Goos, B.S., Roseau  
 Eldon Ramon Grazil, B.S., Williams  
 Evelyn L. Groth, B.S., Wanamingo  
 George Donald Ihrke, Jr., B.S., Dover  
 Douglas Earl Jensen, B.S., Minne-  
 apolis  
 Douglas Richard Jensen, B.S., Circle  
 Pines  
 James Burdell Johnson, B.S., Litch-  
 field  
 Stanley Herbert Kleven, B.S., Milan  
 Leonard William Knoll, B.S., Blom-  
 kest  
 Edith Bemis Lucas, B.S., St. Cloud  
 Philip Remington Lucas, B.S., White  
 Bear Lake  
 Charles Philip Maier, Jr., B.S., East  
 Troy, Wis.

Patrick James Manning, B.S., St. Paul  
 Charles Richard Meiners, B.S., Her-  
 mosa, S.D.  
 Gerald William Nelson, B.S., St.  
 Francis  
 Dwight Stanley Olson, B.S., Minne-  
 apolis  
 Norman LeRoy Osgood, B.S., Blair,  
 Wis.  
 Gerald Jerome Pecha, B.S., Bloomer,  
 Wis.  
 Emil Ernest Roth, Jr., B.S., St. Paul  
 George Richard Ruth, St. Paul  
 Clair Dean Sauer, B.S., Walters  
 Conrad Baxter Schmidt, B.S., Worth-  
 ington  
 Jerome Aloysius Schmidt, B.S., Loyal,  
 Wis.  
 Judith Ann Soderstrom, B.S., Lake  
 City  
 David Alan Spong, B.A., B.S., Fargo,  
 N.D.  
 Alfred Strating, B.S., Milaca  
 Stanley Loren Thompson, B.S., Lu-  
 verne  
 Larry Patrick Traynor, B.S., St. Paul  
 Richard Raymond Uhlig, B.S., Cedar-  
 burg, Wis.  
 Verlon D. Vallery, B.S., Belle  
 Fourche, S.D.  
 James Edward Varley, B.S., Faribault  
 Alan Vernon Vogen, B.S., Lanesboro  
 Russell Laverne Wambeam, B.S., Aus-  
 tin



# SCHOOL OF DENTISTRY

## Graduate Dental Hygienist

- Margaret Eleanor Bartelme, Deephaven  
Ann Kathryn Stamp Bros, Minneapolis  
Joan Agnes Bunde, St. Paul  
Susan Mary Burt, St. Louis Park  
Elizabeth Ann Collinge, Stillwater  
Patricia Catherine Doherty, St. Paul  
MaryAnn Fitzloff, Waubun  
Diane Mary Frazee, A.A., Park Rapids  
Gretchen M. Greaton, Hibbing  
Linda Rae Grimme, Menomonie, Wis.  
Judith Ann Grohs, St. Paul  
Annalee Thomas Hanson, Excelsior  
Barbara Dietrich Hanson, St. Paul  
Jean Marie Hawkins, Le Roy  
Polly Hallam Hogan, Madison, Wis.  
Carlyn Louise Holzinger, St. Louis Park  
Gretchen Marie Kaisersatt, St. Peter  
Patricia Susanne Kelly, St. Paul  
Susan Mary Kemper, Perham  
Karen Ann Liljemark, Minneapolis  
Patricia Ann Mehaffey, Brooklyn Center  
Karen Louise Nelson, St. Paul  
Mary Aileen Nelson, Breckenridge  
Jane Susan Olsen, Minneapolis  
Audree Jeanne Osborne, St. Paul  
Bonita Louise Peterson, Warren  
Joan Margaret Porter, Minneapolis  
Janet Kay Priester, Minneapolis  
Judith Ann Puhl, St. Cloud  
Susan Jane Sandry, St. Paul  
Jennifer Anne Schuh, Minneapolis  
Susan Mae Sutherland, St. Louis Park  
Gayle Ann Swanson, Minnetonka  
Mary J. W. Thomas, St. Paul  
Mary Margaret Tildahl, Mound  
Joan Kay Vogel, Sleepy Eye  
Kathleen Mary Ziska, Richfield

## Bachelor of Science

- David Bruce Albrecht, Lindstrom  
Carl David Bauer, St. Paul  
William Karl Berger, Minneapolis  
Steven Edward Bilben, Walker  
Robert Luther Bodin, Robbinsdale  
William George Boerger, St. Cloud  
Clark Gordon Borstad, Detroit Lakes  
Stephen Paul Broderson, Rosemount, WITH DISTINCTION  
Steven Edward Brown, Minneapolis  
Gerald Dale Brudvik, Mohall, N.D.  
Jerry Kent Brunsoman, Bismarck, N.D.  
Frederick William Cina, Aurora  
Cordelia Elizabeth Coltvet, Estherville, Iowa  
Patrick John Coschignano, Hibbing  
David Dahlberg Crane, Chippewa Falls, Wis.  
William Peter Cruse, Minneapolis  
Rodger Carl Dahlberg, Duluth, WITH DISTINCTION  
James Thomas Dodds, B.B.A., St. Paul  
Jon Achenbach Dolence, Hibbing  
Thomas Dean Dumont, St. Paul  
Lowell David Engel, Lake Wilson  
Leon Harold Erickson, Scandia  
James Donovan Fellman, Red Lake Falls, WITH DISTINCTION  
Gerald Rolph Fraser, St. Paul  
James Bradley Frederick, Minneapolis  
Michael Warren Geiser, Richfield  
Keith Arvid Geyer, B.A., A.M.S., What Cheer, Iowa  
Thomas John Greenagel, Fergus Falls  
Peter Francis Hampl, St. Paul  
Robert James Hart, Long Prairie  
Chester I. Hegstrom, Minneapolis  
Edward William Henk, Waverly, WITH DISTINCTION  
James Monroe Hoffman, Minneapolis  
Kenneth Allan Hoffmann, Powell, Wyo.

Stephen Michael Hollaren, Worthington  
 Gary Norman Hulin, South St. Paul  
 Thomas Biron Hustad, Duluth  
 David William Hyllegren, Anoka  
 Philip Lyle Isaacson, Minneapolis  
 Gary Lewis Jacobson, Mobridge, S.D.  
 Carter Francis Johnson, Duluth  
 Thomas Glenn Johnson, Batavia, Ill.  
 Frederick Pennington Kalinoff, Stillwater  
 Gary Alexander Kellam, Duluth, WITH DISTINCTION  
 Gary William Kneir, Amery, Wis.  
 Kent Earl Krez, Minneapolis  
 Lauren Richard Lampi, Grand Rapids  
 John Arnold Leppo, Duluth, WITH HIGH DISTINCTION  
 Stephen Frederick Litton, St. Paul, WITH DISTINCTION  
 Robert Howley May, Minneapolis  
 James Gordon McEachran, Minneapolis  
 James Edward Meyer, West St. Paul  
 Thomas Henry Miller, Paynesville, WITH DISTINCTION  
 Jerome Elvin Mohs, B.A., South St. Paul, WITH DISTINCTION  
 John Alexander Muller, Annandale  
 David E. Nelson, St. Paul, WITH HIGH DISTINCTION

Donald Owen Nordstrom, Jr., Indus  
 Dennis George Oates, Chisholm, WITH DISTINCTION  
 David Vernon Olson, Moorhead  
 Michael George Path, South St. Paul, WITH HIGH DISTINCTION  
 Bruce Lee Pihlstrom, Minneapolis  
 John Francis Pole, White Bear Lake  
 Lawrence John Record, Bismarck, N.D.  
 Richard Charles Render, Grand Forks, N.D.  
 Paul David Rue, Menomonie, Wis., WITH DISTINCTION  
 Stephen Garrett Sackett, St. Paul  
 David Charles Schrupp, Danube  
 Lester Edwin Schuft, Brownton  
 David Edward Schulte, Pine Island  
 Arlen George Simi, Brainerd  
 Steven Richard Soroko, Chisholm, WITH DISTINCTION  
 Glenn James Stratton, West St. Paul  
 Michael Ashley Strom, Minneapolis  
 James I. Swenson, Fergus Falls, WITH DISTINCTION  
 Ronald William Tabaika, Minneapolis  
 Thomas Arnold Tranby, Erskine  
 Frank Theodore Udovich, Chisholm  
 Lloyd Joseph Weber, Rogers  
 Denis Donald Zack, Richmond

## Doctor of Dental Surgery

James Lee Baker, B.S., Poplar, Mont.  
 Gerald Florian Baumgartner, B.S., Albany  
 Bruce Ronald Beier, B.S.Pharm., Freeman, S.D.  
 David Dale Benson, B.S., Minneapolis  
 Lewis Owen Berge, B.S., Fergus Falls  
 William Karl Berger, Minneapolis  
 William Junior Birkholz, B.A., Kadoka, S.D.  
 Clark Gordon Borstad, Detroit Lakes  
 Wayne LaVern Bottomley, B.S., Platteville, Wis.  
 Joseph Edward Bouvette, B.S., Hallock

Jerry Kent Brunsoman, Bismarck, N.D.  
 Keith Alan Churchill, B.S., Spring Valley  
 William Boos Colby, B.S., Minneapolis  
 Donald John Cuskey, B.S., Spooner, Wis.  
 Kenneth Floyd Dayton, St. Paul  
 James Thomas Dodds, B.B.A., St. Paul  
 Jon Achenbach Dolence, Hibbing  
 Thomas Dean Dumont, St. Paul  
 Edward Joseph Eifert, B.S., Long Prairie  
 David Charles Ellenberg, B.S., Spring Valley

Stephen Finkelstein, B.S., Minneapolis  
 William Dean Fishbaugh, B.S., Providence, Utah  
 Gerald Rolph Fraser, B.S., St. Paul  
 Michael Warren Geiser, Richfield  
 Keith Arvid Geyer, B.A., A.M.S., What Cheer, Iowa  
 Jack Otto Glander, B.S., Wahpeton, N.D.  
 Lowell Richard Graves, B.S., Albert Lea  
 Thomas John Greenagel, Fergus Falls  
 Lionell Neal Greenberg, B.A., B.S., St. Paul  
 Kent Christopher Gulden, B.S. with distinction, St. Paul  
 James David Guptill, B.S., Hinckley  
 David Lloyd Halstrom, B.S., St. Cloud  
 George James Hansen, B.S., Minneapolis  
 David Patrick Hardy, B.S., Minto, N.D.  
 Robert James Hart, Long Prairie  
 Stephen Michael Hollaren, Worthington  
 Jack Chester Hoppe, B.S., Minneapolis  
 Kern Michael Hoppe, B.S., St. Louis Park  
 Philip Lyle Isaacson, Minneapolis  
 Gary Lewis Jacobson, Mobridge, S.D.  
 Eugene Frank Jasper, B.S., Ely  
 Jerald Bruce Johnson, B.S., Fargo, N.D.  
 Charles Edward Kath, B.S., St. Paul  
 Jeffrey Allen Kent, B.S., Bloomer, Wis.  
 Merlin Neal Kleinhuizen, B.A., Prinsburg  
 James Paul Knudson, B.S., Redwood Falls  
 Kenneth Thomas Larsen, B.S., Minneapolis  
 John Arnold Leppo, Duluth  
 Clarence Sidney Lindley, Jr., B.S., Minneapolis  
 James F. Lundstrom, B.S., Wheaton  
 Kenneth Wallace Marble, B.S., St. Paul  
 Robert Howley May, B.S., Minneapolis  
 Thomas James McCarter, B.S., St. Paul  
 William Peter McCulloch, B.S., Duluth  
 James Gordon McEachran, Minneapolis  
 Gerald Neil McGirl, B.S., Duluth  
 Donald Gerald McMillan, B.S., Minneapolis  
 Wesley Alfred McNutt, B.S., Fargo, N.D.  
 Frank Huntley Neufeld, Mountain Lake  
 Dennis George Oates, B.S., Chisholm  
 Robert Clinton Oftelie, Grand Rapids  
 Thomas John Olson, Detroit Lakes  
 Charles Raymond Ott, B.S., Deer River  
 Richard Nathan Overby, B.S., B.A., Minneapolis  
 Raymond James Pergeau, St. Paul  
 Lewis Herbert Pierce, B.S., St. Paul  
 James Donald Raymond, B.S., Richfield  
 Dennis William Runck, B.A., South St. Paul  
 Stephen Garrett Sackett, St. Paul  
 David Charles Schrupp, Danube  
 David Edward Schulte, Pine Island  
 Paul Vernon Serenius, B.A., St. Paul  
 Robert Victor Shelton, B.S., Minneapolis  
 James Richard Sher, B.A., Hibbing  
 Hugh Ronald Silkensen, B.S., B.S.B., Denver, Colo.  
 Arlen George Simi, Brainerd  
 Steven John Sjoldal, B.S., St. Louis Park  
 Wayne Orville Sletten, B.S., Madison  
 Charles Claude Somers, B.S., Minneapolis  
 Steven Richard Soroko, Chisholm  
 James Henry Steffen, B.S., Alexandria  
 Robert Charles Stoudt, B.S., Wahpeton, N.D.  
 John Clifford Taylor, B.S., Hibbing  
 Dennis Martin Thompson, B.S., Osakis

Harold Max Thompson, B.S., Jerome,  
Idaho  
Frank Theodore Udovich, Chisholm  
Dennis Peter Vaillant, B.S., Minne-  
apolis  
Donald Richard Van Bibber, B.S.,  
Superior, Wis.

John Bennett Vick, B.S., Golden  
Valley  
Lloyd Joseph Weber, Rogers  
Philip Harold White, B.S., Hutchin-  
son

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science in Nursing

*Diane Jane Blumentritt, St. Paul,*  
WITH HIGH DISTINCTION\*

*Roberta Meier Campbell, St. Louis  
Park\**

*Carole Ann Clothier, Elk River\**

*Martha Lu Cook, Sioux Falls, S.D.\**

*Jeanne Kathryn Cool, Minneapolis\**

*Diane Marie Dolejsi, St. Louis Park,*  
WITH DISTINCTION\*

*Marian Sandra Boyle Estelle, Minne-  
apolis, WITH HIGH DISTINCTION\**

*Victoria Ann Fazendin, Wayzata\**

*Carol Sue Fisher, Connellsville, Pa.*

*Barbara Ann Hagberg Florke, Schaller,  
Iowa, WITH DISTINCTION\**

*Janet Harrell Fouts, Platteville, Wis.\**

*Carol Anne Gallob, Minneapolis,*  
WITH DISTINCTION\*

*Judith Wikoff Haas, Crookston, WITH  
HIGH DISTINCTION\**

*Geraldine Helen Hendrickson, Eau  
Claire, Wis.*

*Sandra Lee Johnson, St. Paul\**

*Ruth Olna Jordahl, Albert Lea\**

*Mary Krajnik, St. Paul, WITH DIS-  
TINCTION*

*Judy Ann Larson, Moose Lake\**

*Margit Kathryn Larson, Albert Lea,  
WITH DISTINCTION\**

*Mavis Jean Larson, New Ulm\**

*Patricia Lucille Litzinger, Waite  
Park\**

*Suzanne Rupp Milbright, Caledonia*

*Elizabeth Esther Nelson, Gaylord,*  
WITH DISTINCTION\*

*Mary Margaret Nelson, St. Louis Park,  
WITH DISTINCTION\**

*Barbara Hogleund Newberry, Minne-  
apolis, WITH HIGH DISTINCTION\**

*Helen Salvatore Nichols, St. Paul,  
WITH DISTINCTION\**

*Jane Sterling Norbeck, Bloomington,  
WITH HIGH DISTINCTION\**

*Diane Patricia Olson, Robbinsdale,  
WITH DISTINCTION\**

*Shirley Ann Olson, Robbinsdale,  
WITH DISTINCTION\**

*Christine Virginia Oswald, New Ulm,  
WITH DISTINCTION\**

*Jean Ann Price, Minneapolis, WITH  
DISTINCTION\**

*Mary Kay Rantala, Superior, Wis.\**  
*Carol Anne Reese, McIntosh, WITH  
DISTINCTION\**

*Judith Ann Saar, St. Paul\**

*Alice Jean Schmidt, Luverne\**

*Sydney Diane Schneider, Jefferson  
City, Mo., WITH DISTINCTION\**

*Marilyn Joanne Sorley, Minneapolis\**

*Mary Elizabeth Steen, Clinton, WITH  
HIGH DISTINCTION\**

*Karen Rae Swanson, St. Paul, WITH  
DISTINCTION\**

*Sharon Ann Martinson Thronson,  
Minneapolis, WITH HIGH DISTINC-  
TION\**

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\* These degrees are conferred subject to the completion of nursing practice prior to August 20, 1965.

Deanna Marie Nagel Turton, St. Paul,  
WITH HIGH DISTINCTION\*\*  
Sandra Kay Waisanen, Hutchinson,  
WITH DISTINCTION\*\*

Nancy Louise Walters, Cohasset\*\*  
Barbara Ann Warner, St. Paul, WITH  
HIGH DISTINCTION\*\*

## Bachelor of Science

Joseph Charles Arko, Hibbing, Medi-  
cine  
Frances Marie Baucom, Bloomington,  
Occupational Therapy  
Lee Hewitt Beecher, B.A., New Ulm,  
Medicine  
Daniel Francis Belden, A.A., Minne-  
apolis, Occupational Therapy  
John Webster Benton, Minneapolis,  
Medicine  
Suzanne Margaret Besnett Berglund,  
Minneapolis, Physical Therapy,  
WITH DISTINCTION  
William John Bergstrom, B.A., Min-  
neapolis, Medicine  
Richard Martin Biery, B.A., Minne-  
apolis, Medicine  
John Edward Bjorgen, Fergus Falls,  
Medicine  
Henrietta Clariene Bleeker, Sioux  
Center, Iowa, Physical Therapy  
Sheldon Franklin Bloch, B.A., Min-  
neapolis, Medicine  
Peter James Boardman, B.A., St. Paul,  
Medicine  
Vivian Kathryn Book, St. Paul, Physi-  
cal Therapy  
Kathleen Edna Bressler, Hibbing,  
Physical Therapy, WITH DISTINC-  
TION  
Karen Leona Broberg, St. Paul, Medi-  
cal Technology, WITH HIGH DIS-  
TINCTION\*  
James Arthur Brockberg, B.A., Jasper,  
Medicine  
William Kent Brokken, B.A., Har-  
mony, Medicine  
Mary Louise Bronn, St. Paul, Occu-  
pational Therapy

Judy Simons Brumback, Minneapolis,  
Occupational Therapy, WITH DIS-  
TINCTION  
Elsa Bernice Bye, Osseo, Medical  
Technology\*  
Dorothy Florence Carlson, Minne-  
apolis, Medical Technology\*  
John Wai Bon Cheng, Minneapolis,  
Medicine  
Gail Leslie Clifton, Sioux Falls, S.D.,  
Physical Therapy, WITH DISTINC-  
TION  
Donald Michael DeCourcy, Jr., B.A.,  
St. Paul, Medicine  
Karen Marie Dedina, Montgomery,  
Medical Technology\*  
Kathleen Ann Dolan, Minneapolis,  
Medical Technology\*  
Charles Kenneth Dunham, B.A., Rich-  
field, Medicine  
Kathryn Idell Ellis, Meridian, Idaho,  
Physical Therapy, WITH DISTINC-  
TION  
Hazel Barbara Englund, St. Paul, Oc-  
cupational Therapy  
Jon Richard Ermisch, Lakeland,  
Physical Therapy  
Howard Wayne Fisher, B.A., Minne-  
apolis, Medicine  
Jane Elisabeth Fisher, Minneapolis,  
Medical Technology\*  
Nancy Ann Fleckenstein, Duluth, Oc-  
cupational Therapy  
Harold James Fletcher, Clinton,  
Medicine  
Elaine Marie Frischmon, Minne-  
apolis, Occupational Therapy  
Mary Cosette Gans, Edina, Physical  
Therapy, WITH DISTINCTION

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\* These degrees are conferred subject to the completion of practical work prior to December 18, 1965.

\*\* These degrees are conferred subject to the completion of nursing practice prior to August 20, 1965.

- Sandra Rae Gotesman, St. Paul, *Medical Technology*, WITH DISTINCTION\*
- Judith Stein Graceman, Minneapolis, Physical Therapy
- John Francis Greden, Minneapolis, Medicine
- Joseph Harold Greenberg, B.A., Minneapolis, Medicine
- Dianne Marie Hagen, Minneapolis, Physical Therapy
- Helen Marie Hallgren, Bloomington, *Medical Technology*\*
- David F. Harder, Litchfield, Medicine
- Catherine Ellen Hare, Mahtomedi, *Occupational Therapy*, WITH DISTINCTION
- Nancy Ellen Hedlund, Winona, Occupational Therapy
- Shafiqeh Herovabadi, Tehran, Iran, Public Health Nursing
- Ronald Eugene Hoekstra, Minneapolis, Medicine
- William John Hoglund, International Falls, Medicine
- William Arthur Holm, Minneapolis, Medicine
- Ann Louise Holmberg, Minneapolis, *Medical Technology*\*
- William Baillie Hosfield, Excelsior, Medicine
- Robert Iver Hustrulid, St. Paul, Medicine
- Frank Joseph Indihar, Gilbert, Medicine
- Dolores Holdgrafer Jackson, Morris, *Physical Therapy*, WITH HIGH DISTINCTION
- Charles Lyle Jacobson, B.A., Bloomington, Medicine
- Ann Marie Johnson, Sioux City, Iowa, Physical Therapy
- Byron Roy Johnson, B.A., St. Paul, Medicine
- Joanne Marie Johnson, Minneapolis, *Medical Technology*\*
- Paul Elmer Johnson, Virginia, Medicine
- Patricia Leona Joos, Minneapolis, Physical Therapy
- Sheila Daryl Kantar, St. Paul, Occupational Therapy
- Jeffrey Michael Katz, Los Angeles, Calif., Medicine
- Mary Ann Kerola, Tower, *Medical Technology*\*
- Bernard Ross Kliks, B.A., Portland, Ore., Medicine
- Mary Louise Kuefner, Duluth, *Medical Technology*\*
- Marirose Helen Lamusga, Browerville, *Medical Technology*\*
- Mary Lindeman Larsen, Albert Lea, *Medical Technology*, WITH HIGH DISTINCTION\*
- Norman Gary Larsen, A.A., Minneapolis, Physical Therapy
- Mary Rose Larson, Alexandria, *Physical Therapy*, WITH DISTINCTION
- Allen Lee Lechtman, St. Paul, Medicine
- Sung Kyu Loh, B.A., Seoul, Korea, Medicine
- Helene Karen Lourey, Little Falls, *Occupational Therapy*, WITH DISTINCTION
- Donald Robert Lynch, Calumet, Medicine
- Marlys Lea Madunich, Thief River Falls, Physical Therapy
- Alan Frederick Mahler, B.S.Pharm., Franklin, Medicine
- Stephen Clarence Marker, Two Harbors, Medicine
- Mark A. Mathison, A.A., B.A., Rochester, Medicine
- Eugene Seiichi Matsuyama, B.A., Honolulu, Hawaii, Medicine
- Byron Calvin McGregor, B.A., Mapleton, Medicine
- Janice Helen McIntosh, St. Paul, *Occupational Therapy*, WITH DISTINCTION
- Betty Louise McMartin, Litchfield, *Medical Technology*\*

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\* These degrees are conferred subject to the completion of practical work prior to December 18, 1965.

- Thomas Val Mears, B.A., St. Paul, Medicine
- Oksana Mensheha, B.A., Minneapolis, Medicine
- Joseph Harry Merickel, Wadena, Medicine
- Warren Andre Monson, B.A., Minneapolis, Medicine
- Patricia Lee Mortenson, Montevideo, Medical Technology\*
- Edwina Nagahashi, St. Paul, Occupational Therapy
- Aaron Louis Nathenson, B.A., Minneapolis, Medicine
- Timothy Eugene Nealy, B.A., Adrian, Medicine
- Dianne Agnes Nelson, Willmar, Physical Therapy
- Richard Arthur Nelson, B.A., St. Peter, Medicine
- James W. Neubert, B.A., Mankato, Medicine
- Robert Park Newman, Minneapolis, Medicine
- David Greer Nielsen, Minneapolis, Medicine
- Janet Ruth Nier, A.A., St. Paul, Occupational Therapy
- William John Norberg, Jr., Barnum, Medicine
- Robert James Nordberg, Minneapolis, Medicine
- James John Nordlund, B.A., St. Paul, Medicine
- Thomas Kent Norrie, B.A., Rochester, Medicine
- Jean Alberta Nosker, Minneapolis, Occupational Therapy
- Michael John Ogg, Heron Lake, Medicine
- Geraldine Lou Olson, Minneapolis, Occupational Therapy
- LeRoy Delmar Olson, Minneapolis, Medicine
- Ross Stanley Olson, B.A., Minneapolis, Medicine
- Lois Ann Ozwoeld, Minneapolis, Medical Technology, WITH HIGH DISTINCTION\*
- Jane Adelaide Page, Excelsior, Physical Therapy
- Wiltse Parker, Sebeka, Occupational Therapy, WITH HIGH DISTINCTION
- Charles Wilmot Patterson, B.E.E., Westbrook, Medicine
- Mary Elizabeth Perlich, St. Paul, Medical Technology, WITH DISTINCTION\*
- Marlene Cecilia Peterson, Minneapolis, Medical Technology, WITH DISTINCTION\*
- Nancy Louise Plutzer, Minneapolis, Medical Technology\*
- Glenn Lester Pohlman, B.A., Lakefield, Medicine
- Richard Alfred Pratt II, St. Paul, Medicine
- Joseph David Rich, B.A., Springfield, Mo., Medicine
- Carol Ann Riecki, Minneapolis, Medical Technology\*
- Janice Rae Rinkey, St. Paul, Medical Technology, WITH HIGH DISTINCTION\*
- Karen Anne Roeller, West St. Paul, Medical Technology, WITH DISTINCTION\*
- Fritz Paul Roschen, Le Sueur, Medicine
- Joseph Michael Ryan, Meriden, Conn., Medicine
- Brian D. Saine, Two Harbors, Medicine
- Mark Lawrence Satz, B.A., Minneapolis, Medicine
- Richard Allen Schlorf, B.S.Pharm., Minneapolis, Medicine
- Janet Lee Schroeder, Huron, S.D., Medical Technology\*
- Sister M. George Schroedl, Little Falls, Physical Therapy
- Linda Katherine Schwalen, Virginia, Medical Technology\*

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\* These degrees are conferred subject to the completion of practical work prior to December 18, 1965.

- James F. Schwarten, B.S.Pharm.,  
Braham, Medicine
- Susan Theodora Schwartz, Minne-  
apolis, Medical Technology\*
- Marilyn Jean Scovil, Minneapolis,  
Medical Technology\*
- Paul Stanley Seburg, Minneapolis,  
Medicine
- Robert Joseph Selmo, Norwood, Medi-  
cine
- Cynthia Miller Sherman, Kirkland,  
Wash., Physical Therapy
- Kathleen Shoeman, Tracy, Medical  
Technology\*
- Alan Robert Sinaiko, B.A., St. Paul,  
Medicine
- Allan David Singer, Minneapolis,  
Medicine
- Elizabeth Ann Sjodin, Proctor, Physi-  
cal Therapy
- Mary Louise Sodoma, Hopkins, Occu-  
pational Therapy
- John Alfred Soucheray, B.A., St. Paul,  
Medicine
- Michael Donald Stenberg, Minne-  
apolis, Medicine
- Judith Ann Stenglein, Hibbing, Physi-  
cal Therapy
- Judith Margaret Stenquist, Minne-  
apolis, Physical Therapy
- Karen Ann Swanson, Duluth,  
Physical Therapy
- Judith Marie Tegenfeldt, Burma, Occu-  
pational Therapy, WITH DISTINC-  
TION
- John Sivert Tendall, B.A., Hopkins,  
Medicine
- Jean Margaret Tomisak, Minneapolis,  
Medical Technology\*
- Susan Lee Totushek, Minneapolis,  
Medical Technology, WITH DIS-  
TINCTION\*
- Alan James Velandar, B.A., Richfield,  
Medicine
- Roger James Vitko, B.A., Virginia,  
Medicine
- Linda Anne Vogt, St. Paul, Medical  
Technology\*
- James Dewey Voita, West St. Paul,  
Medical Technology\*
- Jacqueline Lee Wagoner, St. Paul,  
Occupational Therapy
- Robert Lynn Wempner, B.A., Plain-  
view, Medicine
- Don Wayne Wennberg, B.A., Thief  
River Falls, Medicine
- Victoria Lee Werner, St. Paul, Occu-  
pational Therapy
- Robert William Westafer, Minne-  
apolis, Medicine
- Gilbert Westreich, B.A., Brooklyn,  
N.Y., Medicine
- Elaine Woldorsky, Minneapolis, Occu-  
pational Therapy
- Michael Eugene Yablonski, Minne-  
apolis, Medicine
- Joan Margaret Zenk, Danube, Medi-  
cal Technology\*
- Donald Edward Zimmerman, New  
Brighton, Medicine
- Susan Miller Zinschlag, Minneapolis,  
Medical Technology\*

### Master of Hospital Administration

- Bradley Craig Bean, B.S.Econ., Al-  
bany, N.Y.
- Lynn Allen Boose, B.A., Seattle,  
Wash.
- McCollum Eugene Brasfield, B.A.,  
Butler, Mo.
- Ralph Clement Burkhead, B.A., San  
Antonio, Tex.
- Brian Wilson Davis, B.A., Pitts-  
burgh, Pa.
- Kirby John Erickson, B.S.Pharm.,  
Superior, Wis.
- Gerald Raymond Fitzgibbon, B.S.,  
Wantagh, N.Y.
- Argus Darrell Forrest, B.B.A., Atoka,  
Okla.

\* These degrees are conferred subject to the completion of practical work prior to December 18, 1965.



Jeffrey James Frommelt, B.S., Minneapolis	John Daniel Shaff, Jr., B.S.B., Euclid, Ohio
Frank Fleming Jordan, B.S.B., Shreveport, La.	Robert Sydney Smith, Jr., B.A.Econ., B.B.A., Boise, Idaho
Donald Edward Juenemann, B.B.A., St. Paul	James Ross Stephan, B.A., Minneapolis
Stewart Wilson Laird, B.A., Coon Rapids	Dale D. Stoll, B.A., Rensselaer, Ind.
Kurt William Metzner, B.A., Minneapolis	Ronald Edward Struxness, B.A., Belgrade
Dean Wyeth Nelson, B.B.A., Ironwood, Mich.	Martin Eugene Tullis, B.S.B., Evansville, Ind.
David Carl Olson, B.A., White Bear Lake	Richard Leon Vanberg, B.A., Rochester
Franklin K. Parker, B.B.A., Jackson, Tenn.	Omar Lee Voran, B.A., Kingman, Kan.
Victor Norman Raiser, B.A., Indianapolis, Ind.	William Roy Walter, B.S., Charleston, W. Va.
James Edley Richardson, B.S., Columbus, Miss.	Kenneth Reuben Weaver, B.A., B.S., M.S., Vancouver, B.C., Canada
	Rodney James Zimmerman, B.S., Jamestown, N.D.

### Master of Nursing Administration

Helen Marcella Jameson, B.S.N.A., Minneapolis	Barbara Lucille Long, B.S.N.A., Newport
Janet Farrington Lewis, B.S.N.A., Minneapolis	Marjorie Nordeen Young, B.S.N.A., Mora

### Master of Public Health

Theodore Graff Anthony, D.V.M., New Orleans, La.	Nicholas Steven Dzubay, B.S., D.V.M., Clear Lake, Wis.
Marilyn Islay Assheton-Smith, B.S.N., Ferintosh, Alberta, Canada*	Manuel Enrique Fournier, San Jose, Costa Rica, Central America
Javier Alejandro Azcune, B.C.E., Caracas, Venezuela	Jackson Leland Fox, B.S., Seaford, Del.
Raymond Arnold Belknap, B.S., Des Moines, Iowa	James Robert Freed, D.D.S., Springfield, Ohio
Charles Keith Byram, B.S., Cherryvale, Kan.	Richard Harry Gordon, B.A., B.S., D.D.S., Hastings
Rodney Lorne Cummins, B.S., Cincinnati, Ohio	John Elmer Haines, B.S., Provo, Utah*
Walter John Dawson, Jr., B.S., M.H.A., M.D., Bedford, Ohio	Dorothy Lilian Hall, M.B., B.S., M.D., Winnipeg, Manitoba, Canada
Andries deBoer, M.D., Minnetonka	

---

\* These degrees are conferred subject to the completion of field work prior to August 20, 1965.

George Harmon Handy, B.S., M.D.,  
Wisconsin Rapids, Wis.  
Arvid Jerome Houghlum, B.S., M.D.,  
Perley  
Syed Farhad Hussain, B.S., Minne-  
apolis\*  
Robert Rothnick Jorgensen, B.S.,  
D.V.M., Madison, Wis.  
Jong Kun Kim, M.D., Seoul, Korea  
Peggy Lou Kopf, B.S., Tacoma,  
Wash.\*  
John L. Kreimeyer, B.A., Tallahassee,  
Fla.  
Edwin William Lindquist, Jr.,  
D.V.M., Chicago, Ill.  
Edmundo Jose Lulo, Merida, Vene-  
zuela  
Nelson Henry Lund, B.S., Saginaw,  
Mich.  
Herbert Major, B.S., Milwaukee,  
Wis.\*  
Pascual Manzo Malilay, B.S., R.N.,  
Philippines\*  
Murli Manohar, B.V.S., A.H., M.S.,  
Jodhpur, India  
Leo Elzear Marinier, B.S., Eastview,  
Ottawa, Canada\*  
Sudomo Mashud, M.D., Indonesia

Robert Erwine McKay, B.S., Gallup,  
N.M.  
E. Doris McKinney, B.S., M.A.,  
Greensboro, N.C.\*  
Dorothy Louise Mitchell, B.A., Ban-  
gor, Maine  
Karl Arthur Mohr, Green Bay, Wis.  
Leonard Nash, B.Ch.E., Philadelphia,  
Pa.  
Henry Noye-Nortey, B.A., B.S., Ghana  
Wilhelmina Rouwenhorst, Utrecht,  
Netherlands\*  
Donald Oscar Schultz, B.S., M.D.,  
Minneapolis  
Jerry Bliss Sleeper, B.S., Topeka, Kan.  
Paul Bernard Smith, B.C.E., San  
Juan, Puerto Rico  
Albrecht F. J. W. Sommer, B.A.,  
M.S., M.D., Denver, Colo.  
Norman V. Steere, B.S., Minneapolis  
Dwight Douglas Swanson, M.D.,  
Minneapolis  
Sadre Seyed Tabatabaee, M.D., Teh-  
ran, Iran  
Putu Lawa Udayana, B.S., Indonesia\*  
Eduardo Legaspi Villegas, M.D.,  
Manila, Philippines  
P. Jean Frazier Woodbury, B.A.,  
Corvallis, Ore.\*

### Doctor of Medicine

Yossef Aelony, B.A., B.S., Minneapolis  
Bruce Arnold Amundson, B.A., Cli-  
max  
Robert Edward Anderson, B.A., La  
Crosse, Wis.  
Jordan Joseph Antonelli, B.S., Hib-  
bing  
Peter Deane Army, B.A., St. Paul  
Anthony Richard Baraga, B.S., Chis-  
holm  
John Maynard Barry, B.A., B.S., St.  
Charles  
Arthur Howard Bearon, B.A., Quincy,  
Mass.  
Lee Hewitt Beecher, B.A., New Ulm

Kathy Pauline Belgea, B.A., B.S., St.  
Paul  
Charles Ira Benjamin, B.S., Hutchin-  
son  
John Andrew Berger, B.S., West  
Fargo, N.D.  
Jerry Michael Bergstein, B.A., Los  
Angeles, Calif.  
William John Bergstrom, B.A., Min-  
neapolis  
Darla Ann Bjork, B.A., Austin  
Peter Linner Boman, B.S., Duluth  
Larry Jerome Brettingen, B.S., Brook  
Park  
William Kent Brokken, B.A., Har-  
mony

\* These degrees are conferred subject to the completion of field work prior to August 20, 1965.

Frederic Michael Brown, B.S., Minneapolis  
 Ralph John Burnard II, B.A., Philadelphia, Pa.  
 Robert William Cashmore, B.S., Helena, Mont.  
 Thomas Matthew Clifford, B.S., Eveleth  
 Daniel Bernard Collin, B.A., Mora  
 James Edward Corbett, B.S., Montgomery  
 Darrell Charles DeVilliers, Jr., B.A., B.S., Minneapolis  
 James Francis DeVinck, B.S., Superior, Wis.  
 Paul S. Etzell, B.S., Clarissa  
 Albert John Ficke, B.A., Ecuador, South America  
 Howard Wayne Fisher, B.A., Minneapolis  
 David Ross Foreman, B.A., B.S., Paynesville  
 Gerald Theodore Frane, B.S., Minneapolis  
 Joseph Miranda Gacusana, B.S., Minneapolis  
 Armand William Gehring, B.S., Washburn, N.D.  
 LeRoy Francis Geis, B.S., M.A., Shakopee  
 James Samuel Good, B.A., Faribault  
 Judith Elinor Granquist, B.A., Minneapolis  
 Paul William Hageman, B.S., Bovey  
 James Lee Halverson, B.A., Robbinsdale  
 Michael Duncan Hammar, B.S., Mankato  
 Norman Peter Hanson, B.A., St. Paul  
 Martin Charles Havel, B.S., Le Center  
 Sheldon Thomas Hess, B.A., Austin  
 David J. Hide, B.S., Bozeman, Mont.  
 Douglas John Holmen, B.S., St. Paul  
 Russell Allen Huffman, Jr., B.A., Minneapolis  
 Marcia Ann Hyvarinen, B.A., Hibbing  
 Jerry Arden Iverson, B.S., Willmar  
 Charles Lyle Jacobson, B.A., Bloomington  
 Alexander Leslie Janes, B.A., Minneapolis  
 Jerome Gordon Johnson, B.S., International Falls  
 Paul Burton Johnson, B.A., St. Louis Park  
 Tonu Mart Kiesel, B.A., Minneapolis  
 Arne T. Lagus, B.A., Hutchinson  
 Lester Lee Lansky, B.A., M.S., St. Paul  
 James Phillip Lantz, B.A., B.S., Moorhead  
 Carol Ann Larson, B.A., B.S., Minneapolis  
 Darrel Loyd Lary, B.A., Northfield  
 Sung Kyu Loh, Minneapolis  
 Richard Leslie Loomer, B.A., Waseca  
 Ruth Anne Lorber, B.A., Minneapolis  
 James Harlan Lueders, B.S., Henning  
 Paul Andrew Lunseth, B.A., Minneapolis  
 Alan Frederick Mahler, B.S. Pharm., Franklin  
 John Champlin Manion, B.S., Worthington  
 Stephen Hammond Martin, B.A., St. Paul  
 Mark A. Mathison, A.A., B.A., Rochester  
 Eugene Seiichi Matsuyama, B.A., Honolulu, Hawaii  
 Byron Calvin McGregor, B.A., Mapleton  
 Marilyn Ruth McManus, B.A., B.S., Princeton  
 John Michael McMillin, B.S., Minneapolis  
 Thomas Val Mears, B.A., St. Paul  
 Joseph Harry Merickel, B.S., Wadena  
 James Jacob Meyer, B.S., Melrose  
 Warren André Monson, B.A., Minneapolis  
 Robert Arthur Mueller, B.S., M.S., Princeton, Wis.  
 John Garrett Mulrooney, B.A., B.S., Mankato  
 Richard Lee Mulvania, B.A., B.S., Red Wing  
 Daniel Joseph Murphy, B.S., St. Paul

Aaron Louis Nathenson, B.A., Minneapolis  
 Timothy Eugene Nealy, B.A., Adrian  
 Audrey May Nelson, B.A., B.S., Austin  
 Robert Peter Nelson, B.S., Grove City  
 James John Nordlund, B.A., St. Paul  
 Stanley Gerald Norman, B.A., B.S., Minneapolis  
 Thomas Kent Norrie, B.A., Rochester  
 Richard A. Oas, B.A., B.S., St. Louis Park  
 Guy Edward O'Grady, A.L.A., B.A. magna cum laude, B.S., Minneapolis  
 William Joseph O'Hanlon, B.S., Minneapolis  
 Byron Chapman Olson, B.A., Healdsburg, Calif.  
 Duane Charles Olson, B.A., B.S., Minneapolis  
 Norman Daniel Olson, B.S., St. Paul  
 Karen Louise Pajari, B.S., Ely  
 James Clifford Palmquist, B.A., St. Paul  
 Amritlal C. Parekh, B.S., M.S., Ph.D., Bhavnagar, India  
 Loren Paul Petersen, B.S., Luverne  
 David Atley Peterson, B.A., Minneapolis  
 Gerald Chester Peterson, B.A., Minneapolis  
 David George Piepgras, B.A., Luverne  
 George Edward Plourde, B.A., B.S., Minneapolis  
 David Alan Raetz, B.S., Maple Lake  
 David Harold Rasmussen, B.A., B.S., Thief River Falls  
 Thomas Richard Reagan, B.S., St. Paul  
 Gary Lee Reiners, B.A., Dawson  
 Joseph David Rich, B.A., Springfield, Mo.  
 Wallace A. Rogers, Jr., B.S., M.S., Fort Dodge, Iowa  
 Robert Frank Ruper, B.A., Chisholm  
 Thomas Russell II, B.S., Minneapolis  
 Ralph Edward Rydell, Minneapolis  
 John Mark Schipke, B.A., Minneapolis  
 Richard Allen Schlorf, B.S.Pharm., Minneapolis  
 Roger Owen Schroepfel, B.S., Winthrop  
 James F. Schwarten, B.S.Pharm., Braham  
 Alan Robert Sinaiko, B.A., St. Paul  
 Donald John Soll, B.A., Minneapolis  
 John Alfred Soucheray, B.A., St. Paul  
 Joseph Frank Spencer, B.A., Proctor  
 Lawrence Barry Stein, B.A., St. Paul  
 William Harold Stetzler, Jr., B.A., Verndale  
 Calvin Lauritz Strand, B.S., Redwood Falls  
 Gerald Ernest Swanson, B.A., Richfield  
 Thomas Robert Tephly, B.S.Pharm., Ph.D., Norwich, Conn.  
 Robert Dean Thomasson, B.Ch.E., Minneapolis  
 David Marlin Thompson, B.S., Minneapolis  
 Gary Richard Thurnau, B.S., Fergus Falls  
 Paul Willis Vanderkooi, B.A., Herman  
 Alan James Velander, B.A., Minneapolis  
 Norman Leo Virnig, B.A., Caledonia  
 Dale Anthony von Ruden, B.S., M.S., St. Paul  
 Richard Michael Warhol, B.A., Minneapolis  
 John Jerome Wedge, B.A., Albert Lea  
 Raymond Butler Weiss, B.S., Annandale  
 Robert Lynn Wempner, B.A., Plainview  
 David Allan West, B.A., B.S., St. Cloud  
 Gilbert Westreich, B.A., Minneapolis  
 Paul Eugene Wicklund, B.A., Duluth  
 William Michael Wiencke, B.S., Minneapolis  
 Daryl Paul Williamson, B.A., Thief River Falls  
 Thomas McKay Wilmot, B.A., B.S., Litchfield  
 Elton Glenn Wing, B.A., Jackson

Jon Karl Wogensen, B.A., B.S., Litchfield  
Adrian James Wolbrink, B.S.,  
Bloomington  
Freeman Edward Wong, B.A., St.  
Cloud

James Philip Zachman, B.A., Melrose  
David Samuel Zarek, B.S., B.A., Redding, Calif.  
James Henry Zavoral, B.S., St. Paul  
James Albert Zeese, Jr., B.E.E.,  
Aitkin

## GRADUATE SCHOOL

### Master of Arts

**Kenneth Robert Anderson**, Provincetown, Mass.

B.A. '59, University of Minnesota. Field of Concentration: Educational Psychology.

**Verlyn Dean Anderson**, Rothsay

B.A. '56, Concordia College; M.A. '62, University of Minnesota. Field of Concentration: Library Science.

**Ronald Alexander Andreason**, Woodland, Wash.

B.S. '50, University of Minnesota. Field of Concentration: Educational Psychology.

**Randall Kent Backe**, Northome

B.A. *magna cum laude* '63, Bemidji State College. Field of Concentration: Zoology.

**Barbara Ann Beatty**, Winona

B.A. *cum laude* '61, St. Olaf College. Field of Concentration: Spanish.

**Robert William Becker**, Minneapolis

B.A. '62, Carleton College. Field of Concentration: German.

**Melvin Erling Bergman**, Duluth

B.Ed. '53, Wisconsin State College (White-water). Field of Concentration: Curriculum and Instruction.

**Surinder Mohan Bhardwaj**, Ludhiana, Punjab, India

B.A.(Hons.) '55, M.A. '58, Panjab University (India). Field of Concentration: Geography.

**Karin Josefina Blomberg**, Minneapolis

B.S.Elem.Ed. *cum laude* '55, Macalester College. Field of Concentration: Curriculum and Instruction.

**Sharon Kay Carter**, Good Thunder

B.S. '60, Mankato State College. Field of Concentration: Library Science.

**Han-Ching Chen**, Chiayi, Taiwan, China

B.A. '59, National Taiwan University (China). Field of Concentration: Political Science.

**James Fayette Clinger**, Minneapolis

B. of Educ. '33, Wisconsin State College (Platteville). Field of Concentration: Industrial Education.

**Elchahan Cohn**, Ramat-Gan, Israel

B.A. '63, University of Minnesota. Field of Concentration: Economics.

**Mary Lou Vinz Cooke**, Minneapolis

B.S.(Educ.) '42, University of Wisconsin. Field of Concentration: Curriculum and Instruction.

**Orel Arthur Dahle**, Sebeka

B.S. '49, Bemidji State College. Field of Concentration: Educational Administration.

**Elna Nelson Diment**, Minnetonka

B.S. with honor '56, Mankato State College. Field of Concentration: Curriculum and Instruction.

**Mena Clefton Dyste**, Minneapolis

B.A. *cum laude* '46, University of Minnesota. Major: Library Science. Minor: English. Thesis: Gratia Alta Countryman, Librarian.

**Mary Ann Eninger**, Minneapolis

B.A. '62, University of Chicago. Major: Child Psychology. Minor: Educational Psychology. Thesis: Dependency Behavior as Related to Two Kinds of Nurture in Young Children.

Joseph Melvin Elliott, Brooklyn  
Center

B.S. with high distinction '49, B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Fahim Saleem Elmargia, Nazareth,  
Israel

B.A. '61, Whitworth College. Field of Concentration: History.

Larry Daniel Engelmann, Austin

B.A. '63, University of Minnesota. Major: History. Minor: Economics. Thesis: A Parting of Ways: The Republican National Convention of 1896.

Gerardo Soriano Erguiza, Basista,  
Pangasinan, Philippines

B.S. in Educ. *magna cum laude* '54, Central Luzon State Teachers College. Field of Concentration: Educational Administration.

Richard Oscar Erickson, Minneapolis

B.A. *cum laude* '63, University of Minnesota. Major: Speech and Theatre Arts. Minor: Philosophy. Thesis: Brockriede and Ehninger's Interpretation and Adaptation of Toulmin's: A Critique.

Meir Erlich, Petach-Tikva, Israel

B.A. '58, Certificate '61, Hebrew University of Jerusalem. Field of Concentration: History and Philosophy of Education.

Howard Emil Ernst, Bloomington

B.S. with distinction '58, University of Minnesota. Field of Concentration: Industrial Education.

William Lloyd Felker, Minneapolis

B.A. '63, University of Minnesota. Major: Spanish. Minor: Area Studies: Latin America. Thesis: Existential Situations in Four Latin American Novels.

Myrtle Elaine Anderson Fore, St. Paul

B.S. '51, Gustavus Adolphus College. Field of Concentration: Home Economics Education.

Frances Adelia Frost, Lidgerwood,  
N.D.

B.A. *summa cum laude* '63, University of North Dakota. Field of Concentration: Mathematics.

Howard David Glatzel, Minneapolis

B.S. in Econ. '63, University of Minnesota. Field of Concentration: Economics.

George J. Gleason, Erin, Wis.

B.A. '46, St. John's University. Major: History. Minor: Political Science. Thesis: A Study of Certain Conditioning Factors in the Personality of Martin Luther, and the Impact of Resultant Personality Conflicts on Luther's Theological Mentality in the Areas of Fallen Man, Justification, Grace and Good Works and Predestination.

Cynthia Rae Margolin Gliner, Los  
Angeles, Calif.

B.A. '63, University of California. Major: Child Psychology. Minor: Educational Psychology. Thesis: Saliency and Relevance of Stimuli and Observing Responses in Haptic Discrimination.

LeRoy James Goodenough, Rice  
Lake, Wis.

B.S. '63, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Byron Lawrence Graves, Red Lake

B.S. '49, Bemidji State College. Field of Concentration: Educational Administration.

Betty Radley Green, St. Louis Park

B.A. *cum laude* '63, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: MMPI Responses and Recidivism.

Robert Breyfogle Green, Jr., Minne-  
apolis

B.A. *cum laude* '63, University of Minnesota. Field of Concentration: Spanish.

Lloyd Clarence Hackl, Bayport

B.A. '58, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Erwin Haeckel, Kulmbach, Germany

Free University of Berlin. Major: Political Science. Minor: History. Thesis: Khrushchev's Personnel Politics.

Constance Joyce Hamann, Fort  
Dodge, Iowa

B.S. with distinction '64, Iowa State University. Field of Concentration: Library Science.

Ardis Rae Hanson, Annandale

B.S. in Educ. *cum laude* '57, University of North Dakota. Field of Concentration: Curriculum and Instruction.

Douglas Ralph Harding, Minneapolis

B.S. '52, University of Minnesota. Field of Concentration: Educational Psychology.

- Edward C. Hartog, Willmar  
B.S. '56, University of Minnesota. Field of Concentration: Agricultural Education.
- Norman Christian Haugaard, Canby  
B.S. '53, South Dakota State College. Field of Concentration: Agricultural Education.
- Sara Whitney Higgins, Nashville, Tenn.  
B.A. '63, University of Minnesota. Field of Concentration: French.
- Graham Hill, Auckland, New Zealand  
B.S. '59, University of Auckland. Major: Astronomy. Minor: Physics. Thesis: The Parallax of L886-6.
- Robert Earl Holtz, St. Paul  
B.S. in Educ. '55, Concordia Teachers College. Field of Concentration: Zoology.
- Anne Haskell Hornbacher, Berkeley, Calif.  
B.A. '61, University of California. Major: Speech and Theatre Arts. Minor: Philosophy. Thesis: Christopher Columbus: Translation and Descriptive Analysis.
- Tao-Chen Hsia, Taishien, Kiangsi, China  
B.A. '35, Chi-Nan University (China). Major: Area Studies: East and South Asia. Thesis: Taoist Thought in the Kuan-Tzu.
- Peter Shao-ming Hsu, Republic of China  
B.Law '61, National Chengchi University (China). Field of Concentration: Journalism.
- Judy Chang-ming Hua, China  
B.A. '60, National Chengchi University. Field of Concentration: Library Science.
- Richard Edward Jenks, Minneapolis  
B.A. *cum laude* '61, College of St. Thomas. Field of Concentration: Education.
- Richard Keith Johanson, Cedar Falls, Iowa  
B.A. '63, Macalester College. Field of Concentration: History and Philosophy in Education.
- Richard Allen Johnson, Morris  
B.S. '58, Moorhead State College. Field of Concentration: Educational Psychology.
- Thomas Edward Johnsrud, St. Paul  
B.A. '51, University of Minnesota. Field of Concentration: Library Science.
- Thomas Otto Kajer, New Prague  
B.S. '61, University of Minnesota. Field of Concentration: Agricultural Education.
- Kathleen Anne Kane, Minneapolis  
B.A. '62, University of Minnesota. Field of Concentration: English.
- Donald Emil Paul Karnuth, St. Paul  
B.A. '51, Hamline University; M.Ed. '54, Macalester College. Field of Concentration: Curriculum and Instruction.
- James Dale Kellen, St. Paul  
B.A. '55, College of St. Thomas; B.S. in L.S. '59, College of St. Catherine. Major: Library Science. Minor: Education. Thesis: Catholic Serials in Minnesota, 1866-1962; A Descriptive Bibliography and Union List.
- Janice Gail Kelly, Duluth  
B.S. '59, College of St. Scholastica. Field of Concentration: Curriculum and Instruction.
- Robert Waugh Keyser, Boise, Idaho  
B.A. '62, University of Minnesota. Major: Anthropology. Minor: Psychology. Thesis: The Architecture of the Galaz Site.
- Karen Hallback Kitchak, Minneapolis  
B.A. *magna cum laude* '63, University of Minnesota. Major: History. Minor: Political Science. Thesis: Sir George Home: The Earl of Dunbar.
- Carolyn Raffety Humpal Knutson, Minneapolis  
B.A. '55, Grinnell College. Field of Concentration: Library Science.
- Philip Alan Korth, St. Paul  
B.A. '61, University of Minnesota. Field of Concentration: American Studies.
- Kjeld Bagger Laursen, Juelsminde, Denmark  
University of Aarhus (Denmark). Major: Mathematics. Minor: Philosophy. Thesis: Another Characterization of Reflexivity.
- Ward Bevins Lewis, Jr., Minneapolis  
B.A. *cum laude* '60, Amherst College. Field of Concentration: German.

- Isabelle Norma Lind, Edina  
B.S. '57, St. Cloud State College. Field of Concentration: Curriculum and Instruction.
- Gary Robert Livermore, Minneapolis  
B.A. '62, University of Minnesota; M.A. '64, College of St. Thomas. Field of Concentration: Educational Psychology.
- Nancy Kay Lund, Eveleth  
B.S. *cum laude* '60, University of Minnesota. Field of Concentration: English.
- Arnold Larry Luukkonen, Cloquet  
B.S. *cum laude* '63, University of Minnesota. Major: History. Minor: Political Science. Thesis: A Survey of the Military Significance of Roads on the Frontier (1816-1860).
- Robin Burns Madson, St. Paul  
B.S. in Spch. with distinction '52, Northwestern University. Major: Political Science. Minor: Sociology. Thesis: Advisory Jurisdiction of the International Court of Justice.
- Norman Burdette Maguire, Walnut Grove  
B.S. '57, M.S. '59, Mankato State College. Field of Concentration: Educational Administration.
- Robert William Malander, Virginia  
B.S. '55, University of Minnesota. Field of Concentration: Education.
- Daniel John Marx, Eau Claire, Wis.  
B.A. '62, University of South Dakota. Major: Zoology. Minor: Botany. Thesis: The Biology of Blood Parasites of Small Resident and Migratory Birds of Minnesota and Northwestern Wisconsin.
- Ronald Warren Mitchell, St. Paul  
B.S. '61, University of Minnesota. Field of Concentration: Educational Psychology.
- Jacqueline Stearns Mithun, Minneapolis  
B.A. '63, Cornell University. Major: International Relations. Thesis: American Recognition of the Union of Soviet Socialist Republics: An Analysis of the Primary Motivations of the Decision Makers and of the Political and Legal Aspects in the United States Recognition of the Soviet Union in 1933.
- Dale Lindsay Morgan, Midland, Mich.  
B.A. '63, University of Michigan. Field of Concentration: Speech and Theatre Arts.
- Edward Maxwell Morgan, Edina  
B. of Educ. '36, Southern Illinois University. Field of Concentration: History.
- Judith Nomura Murakami, St. Paul  
B.S. with high distinction '62, University of Minnesota. Field of Concentration: Education.
- Jerold Douglas Murphy, Minneapolis  
B.S. '60, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Jennie Hoiem Nelson, Alborn  
B.S. '39, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- John Rodney Nelson, Minneapolis  
B.S. '58, University of Minnesota. Field of Concentration: Industrial Education.
- Judith Ann Nelson, Des Moines, Iowa  
B.A. '63, Beloit College. Field of Concentration: Library Science.
- Terry Frederick Nelson, St. Paul  
B.A. '63, Hamline University. Field of Concentration: Educational Psychology.
- Dennis Irwin Nordmoe, Rockford, Ill.  
B.A. '62, Wheaton College. Field of Concentration: American Studies.
- Stephen Winterer Olmsted, Hutchinson  
B.A. '58, Stanford University. Field of Concentration: Psychology.
- Richard Alfred Olson, Elroy, Wis.  
B.A. '59, Luther College. Field of Concentration: History.
- Ted Edwin Olson, Red Wing  
B.S. '54, Florida State University. Field of Concentration: Educational Psychology.
- Rhoda Elaine Olsrud, Almont, N.D.  
B.A. *magna cum laude* '62, Concordia College. Field of Concentration: Child Psychology.
- Donald Clinton Pederson, Adrian  
B.S. '52, Mankato State College. Field of Concentration: Curriculum and Instruction.
- Edgar Allen Persons, Clarissa  
B.S. with distinction '53, University of Minnesota. Field of Concentration: Agricultural Education.



**Anthony Peter Petrella, Biwabik**

B.B.A. with distinction '58, University of Minnesota. Field of Concentration: Industrial Relations.

**Marlene June Pinten, Minneapolis**

B.A. '54, College of St. Scholastica. Field of Concentration: Educational Psychology.

**Susan Hoover Poteet, Columbus, Ohio**

B.A. '61, Wellesley College. Field of Concentration: English.

**Wayne Karl Rau, Duluth**

B.S. '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.

**Robert Lovell Reed, St. Paul**

B.A. '58, Bethel College. Field of Concentration: History.

**Jamie Donald Reid, Duluth**

B.A. '61, University of Minnesota. Major: Sociology. Minor: Political Science. Thesis: The Development of Western Lands by the Northern Pacific Railroad as a Test of the Theory of Transportation of Charles Horton Cooley.

**Robert Adam Rich, Duluth**

B.S. '63, University of Minnesota. Field of Concentration: History.

**Robert Ray Richardson, Duluth**

B.S. '61, St. Cloud State College. Field of Concentration: Education.

**Doris Mila Richert, Minneapolis**

B.S. '54, Concordia College. Field of Concentration: Curriculum and Instruction.

**Zyrle Debois Roser, Kandiyohi**

B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

**Jessie Rousselow, Minneapolis**

B.A. *summa cum laude* '62, Northwestern College. Field of Concentration: Speech and Theatre Arts.

**Barbara Anne Ryan, Minneapolis**

B.S. '51, University of Minnesota. Field of Concentration: Psychology.

**Richard Peter St. Germain, Faribault**

B.S. with high distinction '61, University of Minnesota. Field of Concentration: Educational Administration.

**Wayne Edward Sanders, Vernon, Tex.**

B.S. '57, University of Minnesota. Field of Concentration: Industrial Education.

**Karen Wichman Schmidt, Loyal, Wis.**

B.S. with high distinction '61, Stout State College. Field of Concentration: Home Economics Education.

**Creighton Thomas Shay, Minneapolis**

B.A. '60, University of Minnesota. Major: Anthropology. Minor: Botany. Thesis: Post-glacial Vegetational Development in Northwestern Minnesota and Its Implications for Prehistoric Human Ecology.

**Joseph Michael Sherin, St. Paul**

B.A. '61, St. Lawrence University. Field of Concentration: Educational Psychology.

**Dennis Edwin Showalter, Delano**

B.A. *egregia cum laude* '63, St. John's University. Field of Concentration: History.

**Arland James Siebrecht, Hastings**

B.S. *cum laude* '52, Gustavus Adolphus College. Field of Concentration: Educational Psychology.

**Alexander Winston Siegel, Summit, N.J.**

B.A. '63, Amherst College. Major: Child Psychology. Minor: Psychology. Thesis: The Effectiveness of Social Reinforcement as a Function of Race of E and Race of S.

**Christian Klebo Skjervold II, Minneapolis**

B.S. '59, B.A. '60, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Resistance Movement in Norway: World War II.

**Kathlyn M. Smith, Minneapolis**

B.A. '57, Knox College. Field of Concentration: Curriculum and Instruction.

**Carol Christine Stoppelmann, Belle Plaine**

B.S. '61, University of Minnesota. Field of Concentration: Library Science.

**Penelope Juliana Storms, Menahga**

B.A. '64, University of Minnesota. Field of Concentration: Library Science.

Graydon Duane Stromme, Duluth  
B.A. '49, St. Olaf College. Field of Concentration: Education.

Harlan Gary Sturm, Hopkins  
B.A. '64, University of Minnesota. Field of Concentration: Spanish.

Yan Chiung Sung, Taipei, Taiwan,  
China  
B.A. '58, Soochow University (China). Field of Concentration: International Relations.

Gerald Fred Swanson, Minneapolis  
B.S. '60, University of Minnesota. Field of Concentration: Educational Administration.

David Robert Thies, Minneapolis  
B.S. '59, St. Mary's College. Field of Concentration: Industrial Relations.

Margaret Shepard Thorbeck, Bemidji  
B.S.Com. '39, State University of Iowa. Field of Concentration: English.

Joseph H. Thorman, Jamestown, N.D.  
B.A. '54, Jamestown College. Field of Concentration: Educational Psychology.

Timothy Nicholas Towle, St. Paul  
B.A. '60, College of St. Thomas. Field of Concentration: Library Science.

Janis Vape, Minneapolis  
B.A. '62, University of Minnesota. Field of Concentration: Psychology.

Sister Rose Cecilia Varley, Albany,  
N.Y.  
B.A. *magna cum laude* '38, M.A. '57, College of St. Rose. Field of Concentration: American Studies.

Joan Raymond Wilkosz, Minneapolis  
B.S. in H.E. '57, Montana State College. Field of Concentration: Home Economics Education.

Carolyn Morris Williams, Coon  
Rapids  
B.S. '58, Mankato State College. Field of Concentration: Curriculum and Instruction.

Donna Mae Wolff, Annandale  
B.S. '56, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Irene Virginia Woyda, Minneapolis  
B.S. with distinction '42, University of Minnesota. Field of Concentration: Education.

Verna V. Yater, Minneapolis  
B.A. '58, College of St. Catherine. Field of Concentration: Speech Pathology.

Thomas Yen-Ran Yeh, Chekiang,  
China  
B.A. '58, Soochow University (China); M.A. '62, University of Minnesota. Field of Concentration: Library Science.

Francis Stephan Zaworski, Minneapolis  
B.S. '48, St. Mary's College. Field of Concentration: Curriculum and Instruction.

Gary Richard Zimmerman, St. Paul  
B.S. '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Robert Laurence Zimmermann,  
Minneapolis  
B.A. *cum laude* '54, University of Minnesota. Field of Concentration: Psychology.

## Master of Business Administration

Carl Herbert Carlson, Minneapolis  
B.M.E. with distinction '51, University of Minnesota. Field of Concentration: Business Administration.

David Peter Edstrom, St. Paul  
B.B.A. '57, University of Minnesota. Field of Concentration: Business Administration.

Richard Wallace Lamberton, Minneapolis  
B.A. *magna cum laude* '41, Gustavus Adolphus College. Field of Concentration: Business Administration.

Patrick Edward McNeil, Minneapolis  
B.M.E. '60, University of Minnesota. Field of Concentration: Business Administration.

Curtis Melvin Palmgren, Jr., St. Paul  
B.C.E. '62, University of Minnesota. Field of  
Concentration: Business Administration.

Richard Bernard Troxel, Minneapolis  
B.S.B.A. '53, Ohio State University. Field of  
Concentration: Business Administration.

## Master of Fine Arts

Jerome K. Horning, Watertown, S.D.  
B.S. '59, South Dakota State College. Field of  
Concentration: Art.

Gerald Albin Olson, Minneapolis  
B.A. '61, University of Minnesota. Field of  
Concentration: Art.

Douglas Allan Ross, Minneapolis  
B.A. '59, Carleton College. Field of Concen-  
tration: Art.

Stanley Frank Sutter, Hoyt Lakes  
B.A. '61, State College of Iowa. Field of Con-  
centration: Art.

Charles Edward Wimmer, Albany  
B.A. '61, University of Minnesota. Field of  
Concentration: Art.

## Master of Science

Alvin Arthur Alm, Albert Lea  
B.S. '61, University of Minnesota. Field of  
Concentration: Forestry.

Charles Leonard Argue, St. Paul  
B.A. *cum laude* '62, University of Minnesota.  
Field of Concentration: Botany.

Carlos Preston Avery, Glenwood  
B.Phys. with distinction '60, University of  
Minnesota. Major: Physics. Minor: Mathe-  
matics. Thesis: The Calibration of a Mass  
Spectrometer for Atomic Oxygen.

Mohammed Bahauddin, Karachi,  
Pakistan  
B.Sc. '53, Osmania University (India); M.Sc.  
'57, Karachi University (Pakistan). Major:  
Mathematics. Minor: Statistics. Thesis: The  
Range of the Perturbation for Which a  
Periodic Solution of a Second Order Equation  
Exists in the Regular Case.

Robert John Bateman, International  
Falls  
B.S. with high distinction '63, University of  
Minnesota. Field of Concentration: Mechanics  
and Materials.

Wendell Gillette Beardsley, Stillwater  
B.S. with distinction '62, University of Minne-  
sota. Field of Concentration: Forestry.

John Allen Benjamin, Minneapolis  
B.A. '60, Dartmouth College. Major: Physics.  
Minor: Mathematics. Thesis: The Magnetic  
Spectrometer Beam Optics.

Daniel Yet-Man Chang, Hong Kong,  
China  
B.A. *cum laude* '59, Asbury College. Major:  
Organic Chemistry. Minor: Analytical Chem-  
istry. Thesis: Action of Nitrous Acid on 7-  
Amino-14-Azadispiro-[5.1.5.2] Pentadecan-15-  
One.

Hong-bo Chiang, Taipei, Taiwan,  
China  
B.Sc. '56, Taiwan Normal University (China).  
Major: Physics. Minor: Mathematics. Thesis:  
A Precision Measurement of Proton-Copper  
Elastic Scattering at 9.8 Mev.

Dale Arthur Christensen, Proctor  
B.A. '58, University of Minnesota. Major:  
Biochemistry. Minor: Organic Chemistry. The-  
sis: The Preparation and Application of Some  
Insoluble Protein Derivatives.

Edward MacGregor Currie, Minne-  
apolis  
B.S. in Com. '48, State University of Iowa.  
Field of Concentration: Business Administra-  
tion.

Roger Dabbah, Minneapolis  
B.A. '61, University of Minnesota. Major:  
Dairy Industries. Minor: Public Health. The-  
sis: A Study of Bacteriological Standards and  
Methods for Grading Manufacturing Milk  
Supplies.

John Alphonse Feddema, Gilman  
B.A. '63, College of St. Thomas. Field of  
Concentration: Business Administration.

Alan Chadwick Foose, Harrisburg,  
Pa.

B.C.E. '62, Cornell University. Field of Concentration: Environmental Health.

Charles Leslie Holifield, Houston,  
Tex.

B.S.Ch. '62, University of Texas. Major: Analytical Chemistry. Minor: Inorganic Chemistry. Thesis: Polarography of Selected Cations and Anions in Fused  $\text{KNO}_3\text{-NaNO}_3$  Eutectic Mixture at 250° C.

John Samuel Hunter III, Denver,  
Colo.

B.S. '64, Colorado State University. Field of Concentration: Environmental Health.

Lyle Gordon Jacobson, Duluth

B.S. '63, University of Minnesota. Field of Concentration: Mechanics and Materials.

James C. Knudson, Niagara Falls,  
N.Y.

B.S.Ch.E. with distinction '64, Worcester Polytechnic Institute. Field of Concentration: Environmental Health.

Joseph Lovett, Fair Bluff, N.C.

B.S. '56, Wake Forest College; M.S.P.H. '60, University of North Dakota. Field of Concentration: Environmental Health.

Daniel Joseph McDermott, St. Paul

B.S. '58, Georgetown University. Field of Concentration: Zoology.

Charles Earl McJilton, Helena,  
Mont.

B.S. '62, University of Minnesota. Field of Concentration: Environmental Health.

Marco Antonio Hidalgo Mendoza,  
Mexico City, Mexico

D.V.M. '60, National University of Mexico. Field of Concentration: Veterinary Medicine.

Brian James Mitchell, Minneapolis

B.A. '62, University of Minnesota. Major: Geophysics. Minor: Geology. Thesis: Surface Wave Dispersion and Crustal Structure Across the Central United States.

Edelberto Mulett, Manizales,  
Colombia, South America

D.V.M. '61, University of Caldas (Colombia). Field of Concentration: Veterinary Medicine.

Francis Orlin Olson, Hoffman

B.S. '61, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: The Effect of Sequential Loading in Low-Cycle Fatigue.

Donald William Opheim, Rochester

B.S. '63, University of Minnesota. Field of Concentration: Mechanics and Materials.

Nancy Iris Phillips, Albany, N.Y.

B.A. '62, Cornell University. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Some Chemical and Physical Properties of Goat Beta-Lactoglobulin: A Comparison with Cow Beta-Lactoglobulin.

James Francis Rude, Lock Haven, Pa.

B.S.Phys. '54, Massachusetts Institute of Technology. Field of Concentration: Mathematics.

Ralph Henry Rydman, Winona

B.A. '63, B.S. '63, Winona State College. Field of Concentration: Environmental Health.

Roger Dale Schroeder, Fergus Falls

B.S. in Pharm. '62, University of Minnesota. Field of Concentration: Hospital Pharmacy.

Farouk Mohamed Shalaby, Cairo,  
Egypt, United Arab Republic

B.Com. '61, Cairo University. Field of Concentration: Agricultural Economics.

Theodore Melvin Thorson, Jr., Bismarck, N.D.

B.S. '61, University of North Dakota. Field of Concentration: Environmental Health.

Clifford Robert Wikel, Minneapolis

B.A. '62, State University of Iowa. Field of Concentration: Botany.

Wayne Thomas Williams, Chula  
Vista, Calif.

B.S. '63, San Diego State College. Major: Plant Pathology. Minor: Botany. Thesis: The Nature of Resistance of *Poa pratensis* L. to *Erysiphe graminis* DC.

## Master of Science in Aeronautical Engineering

Bruce Franklin Abramson, Chippewa Falls, Wis.

B.S. with high distinction '62, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: An Experimental Investigation of Wave Propagation in an Arterial Model.

Donald Raymond Monson, St. Paul

B.Aero.E. '58, University of Minnesota. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: Experimental Drag Characteristics of Tori, Ducted-Spheres, and Other Shapes at Low Reynolds Numbers.

## Master of Science in Chemical Engineering

Peter Ko-Chun Shen, Taipei, Taiwan, China

B.S. in Eng. '61, National Taiwan University (China). Major: Chemical Engineering. Minor: Mathematics. Thesis: Nuclear Reactor Transients Effects of Lifetime and Delayed Neutron Fraction.

## Master of Science in Civil Engineering

Syed Akhtar Obaid Bokhari, Karachi, Pakistan

B.Sc. '62, B.E.(Civil) '63, University of Karachi (Pakistan). Field of Concentration: Civil Engineering.

Charles Richard Bowman, Aberdeen, S.D.

B.S. with distinction '64, University of Minnesota. Field of Concentration: Civil Engineering.

Chao-ton Chi, China

B.S. '62, Taiwan Christian College (China). Field of Concentration: Civil Engineering.

Vijay Kumar Hasija, Jabalpur, India

B.E.(Hons.) '60, University of Jabalpur; M.E. '62, Indian Institute of Science (India). Field of Concentration: Civil Engineering.

Zafar Umar Jafri, Karachi, Pakistan

B.Sc.(Hons.) '59, University of Sind; B.E.(Civil) '63, University of Karachi (Pakistan). Field of Concentration: Civil Engineering.

Leon John Kelzenberg, Royalton

B.S. '63, University of Minnesota. Field of Concentration: Civil Engineering.

Tzer Shun Lai, Changhua, Formosa, China

B.S. in Eng. '59, National Taiwan University (China). Field of Concentration: Civil Engineering.

Fung Jen Lin, Kang Shan, Republic of China

B.Sc. '58, Taiwan Provincial Cheng Kung University (China). Field of Concentration: Civil Engineering.

Nareshchandra Mafatlal Modi, Ahmedabad, India

B.S.(C.E.) '63, University of Illinois. Field of Concentration: Civil Engineering.

Abdul Qadir, Karachi, Pakistan

B.E.(Civil) '62, University of Karachi (Pakistan). Field of Concentration: Civil Engineering.

Premchand T. Shah, Bombay, India

B.E.(Civil) '63, Osmania University (India). Field of Concentration: Civil Engineering.

Sankar Lal Shaw, Calcutta, India

B.Tech.(Hons.) '59, Indian Institute of Technology (India). Field of Concentration: Civil Engineering.

Carey Tze-Kong Shen, Chekiang, China

B.S. '62, Taiwan Christian College (China). Field of Concentration: Civil Engineering.

## Master of Science in Dentistry

Douglas Phillips Beedon, St. Paul

B.A. '59, Macalester College; B.S. '61, D.D.S. '63, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Response of Irradiated Hamster Periodontium to Controlled Tooth Movement Loads.

James Emory Gjerset, Minneapolis

B.S. with high distinction '61, D.D.S. '63, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Tooth Displacement Resulting From Various Loads as Measured Using Strain Gages.

Arnold Joseph Hill, Jr., Minneapolis

B.S. '61, D.D.S. '63, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Some Effects on Periodontal Collagen Fibers of Tooth Movement in the Hamster.

Kip Byron Jentoft, Duluth

B.S. with distinction '61, D.D.S. '63, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: An Investigation of the Loads Produced During Rapid Maxillary Expansion in Cleft Lip and Cleft Palate Patients.

Clinton Charles Johnson, St. Paul

B.A. '53, Macalester College; B.S. '57, D.D.S. '57, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: A Study of the Genetics of Torus Mandibularis.

Marlyn Peter Storm, Ortonville

B.S. '61, D.D.S. '63, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Study of the Effects of Spring Loads on Clinical Rapid Maxillary Expansion.

## Master of Science in Electrical Engineering

Yogish Alekal, Mangalore, India

B.Sc. '60, University of Mysore; B.E.(Elec.) '63, Indian Institute of Science (India). Field of Concentration: Electrical Engineering.

Ronald Dale Coop, St. Paul

B.S.E.E. '60, Iowa State University. Field of Concentration: Electrical Engineering.

Moises Aguirre Dela Cruz, Quezon City, Philippines

B.S.E.E. cum laude '61, University of the Philippines. Field of Concentration: Electrical Engineering.

Charles Gordon Ekroot, Duluth

B.S. with high distinction '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study in Analysis and Synthesis of Non-Dispersive Electromagnetic Systems with Distributed Coupling.

Bruce Meredith Evans, Rochester

B.E.E. '63, University of Minnesota. Field of Concentration: Electrical Engineering.

David Edgar Fulkerson, Minneapolis

B.S. with high distinction '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Computer Solution to the Steady-State Behavior of a PN Junction Diode.

Robert Frederick Goff, St. Paul

B.E.E. '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Development of a Resistance-Strip Electron Multiplier (Using Ferric Oxide).

David Arthur Harms, Minneapolis

B.S. with high distinction '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Investigation of High Impedance Direct Coupled Differential Amplifiers.

Thomas Wayne Moodie, Minneapolis

B.E.E. '49, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Dust Cloud High Concentration Measurement.

Robert Patrick Patterson, Minneapolis

B.E.E. '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Cardiac Output Determinations Using Impedance Plethysmography.

Walfred Richard Raisanen, Wakefield, Mich.

B.S.E.E. '57, Michigan College of Mining and Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: A New Current Mode Logic Circuit.

**Hu Tong, Taiwan, China**

B.S. in Eng. '61, National Taiwan University (China). Major: Electrical Engineering. Minor: Mathematics. Thesis: 1/f Noise and Reliability in Transistors.

**Robert George Wagstrom, Minneapolis**

B.S. with distinction '63, University of Minnesota. Major: Electrical Engineering. Minor: Chemical Engineering. Thesis: An Evaluation of Nuclear Reactor Protective Systems and a Proposal for a New Design Featuring High Reliability.

## **Master of Science in Industrial Engineering**

**Leo David Boucher, Waseca**

B.S. '61, College of St. Thomas. Field of Concentration: Industrial Engineering.

**Bhupat Natverlal Desai, Baroda, India**

B.E. (Elec.) '63, University of Baroda (India). Field of Concentration: Industrial Engineering.

**Gian Parkash Jain, Ludhiana, India**

B.A. '57, Panjab University (India). Field of Concentration: Industrial Engineering.

**Alberto Pons Oxales, Manila, Philippines**

B.S.M.E. *cum laude* '55, National University; B.S.E.E. '57, Feati University; M.B.A. '62, University of the Philippines. Field of Concentration: Industrial Engineering.

## **Master of Science in Mechanical Engineering**

**Larry Glenn Berglund, Edina**

B.M.E. with distinction '62, University of Minnesota. Field of Concentration: Mechanical Engineering.

**Kenneth Mark Krall, Lebanon, Pa.**

B.M.E. '63, Rensselaer Polytechnic Institute. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Turbulent Heat Transfer in the Separated Reattached, and Redevelopment Regions of a Tube.

**Noboru Murayama, Yokohama, Japan**

B. of Eng. '61, Tohoku University (Japan). Major: Mechanical Engineering. Minor: Mathematics. Thesis: Heat Transfer Effect in the Transient Pyrolysis of Cellulose Slabs.

**Lawrason Charles Wilbur, Duluth**

B.S. with distinction '63, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Total Pressure Measurements in a Submerged Axially Symmetric Jet.

## **Master of Science in Medicine**

**William Phillip Baldus, Rochester**

B.S. *cum laude* '54, M.D. '57, Marquette University. Major: Medicine. Minor: Physiology. Thesis: The Kidney in Cirrhosis.

**Leo Frank Black, Rochester**

B.S. '54, Bucknell University; M.D. '58, Temple University. Major: Medicine. Minor: Physiology. Thesis: Determination of Pulmonary Resistance by the Interrupter Technique.

**Morton Howard Dubnow, Rochester**

B.S. '59, M.D. '61, University of Illinois. Major: Medicine. Minor: Pathology. Thesis: A Clinical, Morphologic and Electrocardiographic Study of Ventricular Aneurysms.

**Philip Kahler Hench, LaJolla, Calif.**

B.A. '51, Lafayette College; M.D. '58, University of Pittsburgh. Major: Medicine. Minor: Physiology. Thesis: Isolation and Characterization of Partially Purified Rheumatoid Factor by Preparative Gel Electrophoresis.

**Bruno Speck, Steffisburg, Switzerland**

M.D. '60, University of Berne (Switzerland). Major: Medicine. Minor: Hematology. Thesis: Morphologic Changes in Folic Acid Deficiency Induced by Methotrexate in Human Bone Marrow and Blood.

## Master of Science in Mineral Engineering

Lawrence Michael Kaas, Margate  
City, N.J.

B.S. '63, Pennsylvania State University. Major: Mineral Engineering. Minor: Business Administration. Thesis: Operations Research Applied to Taconite Mine Production Planning.

Pierre LeFrancois, Montreal, Canada  
B. of Applied Sc. with distinction '61, University of Montreal. Field of Concentration: Mineral Engineering.

## Master of Science in Neurosurgery

Stephen David Burstein, Brooklyn,  
N.Y.

B.A. '54, University of Michigan; M.D. '58, State University of New York. Major: Neurosurgery. Minor: Basic Neurologic Sciences. Thesis: Neoplasms of the Reticuloendothelial System of the Brain.

## Master of Science in Ophthalmology

Robert Alexander Whisnant, Jr.,  
Richmond, Va.

B.A. '57, M.D. '61, University of Virginia. Major: Ophthalmology. Minor: Biophysics. Thesis: A Comparative Study of the Miotic Effects of Pilocarpine, Physostigmine, and Carbaminoylcholine Using the Electronic Infra-Red Pupillograph.

## Master of Science in Orthopedic Surgery

Darrell Theodore Weinman,  
Rochester

B.A. '60, B.S. '60, M.D. '60, University of Minnesota. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Skeletal Clearance of  $\text{Sr}^{90}$  and  $\text{Ca}^{47}$  and Bone Blood Flow in Both Normal and Arteriovenous Fistula Animals.

## Master of Science in Otolaryngology

Berkley Sinclair Eichel, Los Angeles,  
Calif.

B.A. '54, M.D. '58, University of Southern California. Major: Otolaryngology. Minor: Pathology. Thesis: A Morphological Study of the Otosclerotic and Non-Otosclerotic Stapes Utilizing Microradiographic and Tetracycline Microfluorescence Techniques.



## Master of Science in Pediatrics

Robert Hewitt Feldt, Milwaukee,  
Wis.

B.S. '56, University of Wisconsin; M.D. '60, Marquette University. Major: Pediatrics. Minor: Pathology. Thesis: The Anatomy of the Atrioventricular Conduction System in Ventricular Septal Defect and Tetralogy of Fallot: Correlations with the Electrocardiogram and Vectorcardiogram.

## Master of Science in Physical Therapy

Henry Clair Wessman, St. Paul

B.S. in Ph.Th. with distinction '59, University of Minnesota. Major: Physical Therapy. Minor: Psychology. Thesis: The Effect of Indirect Heating on the Blood Flow Through the Foot and the Calf.

## Master of Science in Radiology

Shoichi D. Takekawa, Hirosaki, Japan

M.D. '57, Hirosaki University (Japan). Major: Radiology. Minor: Pathology. Thesis: Roentgenologic and Pathologic Correlation of Fibro-Osseous Tumors and Fibrous Dysplasia of the Maxilla and Mandible.

## Master of Science in Surgery

Felix Anton Largiader, Zurich,  
Switzerland

M.D. '59, University of Zurich (Switzerland). Major: Surgery. Minor: Biochemistry. Thesis: Preservation of the Lung for Homotransplantation.

William Raymond Meeker, Orchard  
Park, N.Y.

B.A. '52, University of Chicago; M.D. '57, Medical College of Alabama. Major: Surgery. Minor: Pathology. Thesis: The Effect of 6-Mercaptopurine on Skin Homograft Survival in Rabbits.

Hugh Alexander Raphael, Rochester

B.A. '52, Harvard University; M.D. '56, McGill University. Major: Surgery. Minor: Pathology. Thesis: Primary Adenocarcinoma of the Esophagus.

Neil Roger Thomford, Rochester

B.S. '51, M.D. '55, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: The Effect of Pancreatectomy on Gastric Secretory Inhibition Caused by Acidification of Duodenal Contents.

## Master of Social Work

Jon Calvin Adelsman, Minneapolis

B.A. '60, Macalester College. Field of Concentration: Social Work.

Kathryn Jane Anderson, Mound

B.A. cum laude '62, University of Minnesota. Field of Concentration: Social Work.

- Judith Marie Beske, Stillwater  
B.A. '63, University of Minnesota. Field of Concentration: Social Work.
- Clayton George Bowdon, Jr., Superior, Wis.  
B.S. '63, Wisconsin State College (Superior). Field of Concentration: Social Work.
- Maxine C. Boyd, Minneapolis  
B.A. '62, Wheaton College. Field of Concentration: Social Work.
- Marta Kristine Trygstad Brenden, Minneapolis  
B.A. *cum laude* '63, St. Olaf College. Field of Concentration: Social Work.
- William P. Byrne, Jr., St. Paul  
B.A. *magna cum laude* '50, College of St. Thomas. Field of Concentration: Social Work.
- Bonita Cheesebrough Colber, Waverly  
B.A. '63, Milwaukee-Downer College. Field of Concentration: Social Work.
- Roger Leon Engstrom, Blaine  
B.A. *cum laude* '56, University of Minnesota. Field of Concentration: Social Work.
- Thomas William Figge, Minneapolis  
B.A. '62, College of St. Thomas. Field of Concentration: Social Work.
- Grace Gabrielle Goldbeck, Hastings, Neb.  
B.A. *cum laude* '63, St. Olaf College. Field of Concentration: Social Work.
- Betty Lou Goodman, Milton, N.D.  
B.A. *magna cum laude* '60, Concordia College. Field of Concentration: Social Work.
- Gretchen Ann Grabow, Minneapolis  
B.A. *cum laude* '63, University of Minnesota. Field of Concentration: Social Work.
- Michelle Rose Haas, Minneota  
B.A. '63, College of St. Teresa. Field of Concentration: Social Work.
- Donald John Hagen, Minneapolis  
B.S. '59, University of Minnesota. Field of Concentration: Social Work.
- Dorothy Elizabeth Jacobson, Minneapolis  
B.A. *cum laude* '63, Gustavus Adolphus College. Field of Concentration: Social Work.
- Orville Imanuel Jorgenson, Minneapolis  
B.S. in Econ '54, University of Minnesota. Field of Concentration: Social Work.
- Douglas Valentine Knight, Eau Claire, Wis.  
B.S. '62, Wisconsin State College (Eau Claire). Field of Concentration: Social Work.
- Daryl Joseph Kurtenbach, Mitchell, S.D.  
B.A. '62, Dakota Wesleyan University. Field of Concentration: Social Work.
- Joanne Helen Lebo, St. Paul  
B.A. '62, University of Minnesota. Field of Concentration: Social Work.
- Ilene S. Lewis, Excelsior  
B.S. '32, University of Minnesota. Field of Concentration: Social Work.
- Pat Dean Mack, Minneapolis  
B.A. with honors '59, St. Cloud State College. Field of Concentration: Social Work.
- Mary Ann Antonia MacNeill, Minneapolis  
B.A. '60, College of St. Catherine. Field of Concentration: Social Work.
- Archie Edward Magnuson, Minnetonka  
B.A. '50, Macalester College. Field of Concentration: Social Work.
- Thomas Lee McIntire, Parkers Prairie  
B.A. '61, University of Minnesota. Field of Concentration: Social Work.
- Susan Sihler Nelson, Laguna Beach, Calif.  
B.A. *cum laude* '60, University of Minnesota. Field of Concentration: Social Work.
- Sondra June Noyes, Salt Lake City, Utah  
B.A. *cum laude* '63, University of Utah. Field of Concentration: Social Work.

Borghild Alma Olson, Spicer  
B.A. '62, University of Minnesota. Field of Concentration: Social Work.

George Scott Orfald, Minneapolis  
B.A. '54, University of Minnesota. Field of Concentration: Social Work.

Ruthann Rintala, Scituate, R.I.  
B.A. '63, University of Rhode Island. Field of Concentration: Social Work.

Diana Gale Rogers, Forest Lake  
B.S. '62, Wisconsin State College (River Falls). Field of Concentration: Social Work.

Rose Zacks Segal, St. Louis Park  
B.S. with distinction '60, B.A. *cum laude* '61, University of Minnesota. Field of Concentration: Social Work.

Judith Kaplan Silverman, St. Louis Park  
B.A. *cum laude* '63, University of Minnesota. Field of Concentration: Social Work.

Meira Sochen, Minneapolis  
B.A. '62, Barnard College. Field of Concentration: Social Work.

Sandra Lee Somod, Minneapolis  
B.A. '63, University of Minnesota. Field of Concentration: Social Work.

Robert Duane Stady, Grenora, N.D.  
Ph.B. '61, University of North Dakota. Field of Concentration: Social Work.

Cynthia Lynn Stevens, Minneapolis  
B.A. '63, Augustana College. Field of Concentration: Social Work.

Judy Orr Stinson, Verndale  
B.A. *cum laude* '62, University of Minnesota. Field of Concentration: Social Work.

James Howard Storm, Mankato  
B.A. '63, University of Minnesota. Field of Concentration: Social Work.

Constance Marie Stuhlmann, Minneapolis  
B.A. '53, Thiel College. Field of Concentration: Social Work.

Rita Ehle Sundberg, Minneapolis  
B.A. '57, University of Wisconsin. Field of Concentration: Social Work.

Virginia E. Trampe, White Bear Lake  
B.A. '59, Hamline University. Field of Concentration: Social Work.

Marsanne D. Wallace, Minneapolis  
B.A. '60, University of Minnesota. Field of Concentration: Social Work.

Delmar Edwin Westphal, Marion, Wis.  
B.S. '60, Wisconsin State College (Stevens Point). Field of Concentration: Social Work.

## Doctor of Philosophy

Douglas Harry Anderson, St. Louis Park  
B.E.E. with distinction '48, B.S. '57, M.S.I.E. '60, University of Minnesota. Major: Educational Psychology. Minor: Industrial Engineering. Thesis: Use of Entrance Examination Data on Technology Students for Empirically Assessing the Utility of Certain Item Parameters. Major Adviser: Prof. C. J. Hoyt.

Andrew Asare-Nyako, Ghana, West Africa  
B.Sc. '58, B.Sc. '59, University College of Ghana; M.S. '63, University of Minnesota. Major: Plant Pathology. Minor: Genetics. Thesis: The Role of Leaf Microflora on Epidemiology of the Northern Leaf Blight of Corn. Major Adviser: Prof. Thor Kommedahl.

Harold Otto Batzer, Gillett, Wis.  
B.S. '52, M.S. '55, University of Minnesota. Major: Entomology. Minor: Botany. Thesis: Damage by the Spruce Budworm [*Choristoneura fumiferana* (Clemens)] in Northeastern Minnesota as Affected by Stand Conditions and Forest Management Practices. Major Adviser: Prof. A. C. Hodson.

Thomas Norton Bayer, Winona  
B.A. '57, Macalester College; M.S. '60, University of Minnesota. Major: Geology. Minors: Botany and Geophysics. Thesis: The Maquoketa Formation in Minnesota and an Analysis of Its Benthonic Communities. Major Adviser: Prof. R. E. Sloan.

Arthur Asa Berger, Boston, Mass.

B.A. '54, University of Massachusetts; M.A. '56, State University of Iowa. Major: American Studies. Thesis: Li'l Abner: An American Satire. Major Adviser: Prof. M. Q. Sibley.

Kenneth Nathan Berk, Hyattsville, Md.

B.S. in Phys. '60, Carnegie Institute of Technology. Major: Mathematics. Minor: Statistics. Thesis: A General Ergodic Theorem with Weighted Averages on Continuous Flows. Major Adviser: Prof. Steven Orey.

Claude Charles Bernier, St. Boniface, Manitoba, Canada

B.A. '53, B.S. in Agric. '57, M.S. '61, University of Manitoba. Major: Plant Pathology. Minor: Horticulture. Thesis: Mechanical Transmission of Aphid-Borne Raspberry Viruses to Herbaceous Hosts. Major Adviser: Prof. R. D. Wilcoxson.

Paul Jerome Besser, Bloomington

B.E.E. with high distinction '58, M.S.E.E. '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Magnetocrystalline Anisotropy in Pure and Doped Synthetic Single Crystals of Hematite. Major Adviser: Prof. A. H. Morrish.

Rodney Lincoln Biltonen, Ely

B.A. '59, Harvard University. Major: Physical Chemistry. Minor: Mathematics. Thesis: Reversible Conformational Isomerization of -Chymotrypsin and Various Derivatives. Major Adviser: Prof. R. W. Lumry.

Newton Lynn Bowers, Jr., Minneapolis

B.S. *magna cum laude* '54, Yale University. Major: Mathematics. Minor: Physics. Thesis: Toeplitz Forms Associated with Matrix Valued Functions. Major Advisers: Profs. G. E. Baxter and Steven Orey.

Norman Howard Bradford, Baltimore, Md.

B.A. '56, University of Minnesota. Major: Psychology. Minor: Child Psychology. Thesis: Comparative Perceptions of Mothers and Maternal Roles by Schizophrenic Patients and Their Normal Siblings. Major Adviser: Prof. Norman Garnezy.

Charles Ernest Bullock, Lengby

B.S. with high distinction '59, M.S.M.E. '61, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Dehumidification of Moist Air by Adiabatic Adsorption. Major Adviser: Prof. J. L. Threlkeld.

Antonio Camacho, El Paso, Spain

Licenciado '53, Diploma '56, University of Madrid (Spain). Major: Economics. Minor: Statistics. Thesis: Alternative Concepts of Informational Efficiency in Resource Allocation Mechanisms. Major Adviser: Prof. Leonid Hurwicz.

Lauren Earl Carlson, Chokio

B.S. '59, M.S. '62, University of Minnesota. Major: Plant Pathology. Minor: Soil Science. Thesis: Studies on the Root Rot of Peas Caused by *Aphanomyces Euteiches Drechs.* Major Adviser: Prof. M. F. Kernkamp.

Keith Thomas Checketts, Ogden, Utah

B.S. '59, Utah State University. Major: Educational Psychology. Minor: Psychology. Thesis: A Proposed Paper and Pencil Method to Measure Risk-Taking and the Relationship of This Method to the Need to Achieve. Major Advisers: Profs. D. H. Blocher and W. E. Dugan.

Maurice Gene Chenoweth, Delaware, Ohio

B.A. '54, Earlham College; M.A. '58, University of Minnesota. Major: Political Science. Minor: American Studies. Thesis: The Politics of Four Types of Christian Chiliasts. Major Adviser: Prof. M. Q. Sibley.

Suk Choon Cho, Seoul, Korea

LL.B. '55, Chungang University; LL.M. '57, Seoul National University (Korea); M.A.P.A. '60, University of Minnesota. Major: Political Science. Minor: Business Administration. Thesis: Administrative Decentralization in the Government of the Republic of Korea. Major Adviser: Prof. G. A. Warp.

Yong Sung Choi, Kwangju, Korea

M.D. '61, Seoul National University (Korea); M.S. '64, University of Minnesota. Major: Biochemistry. Minor: Microbiology. Thesis: Magnesium Binding Studies of Ribosomes. Major Adviser: Dr. C. W. Carr.

**Shuh-Twu Chow, Wusih, China**

B.S. in Eng. '56, National Taiwan University (China); M.S. '59, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Nonlinear Effects of Large Deflections and Material Damping on the Steady State Vibrations of Beams. Major Adviser: Prof. P. R. Sethna.

**Ronald Sidney Christenson, Chipewa Falls, Wis.**

B.S. *magna cum laude* '59, Wisconsin State College (Eau Claire); M.A. '61, University of Minnesota. Major: Political Science. Minor: Philosophy. Thesis: The Tension Between Freedom of Conscience and Civic Religion with Special Reference to American Political Thought. Major Adviser: Prof. M. Q. Sibley.

**Mary Ann Bieter Coffland, St. Paul**

B.A. '52, College of St. Catherine; M.A. '57, University of Minnesota. Major: French. Minor: Italian. Thesis: The Interpenetration of Man and Nature in the Peasant Novels of Jean Giono. Major Adviser: Prof. A. A. Renaud.

**Konstantine Cost, New York City, N.Y.**

B.S. '53, Long Island University; M.A. '56, Brooklyn College. Major: Botany. Minor: Zoology. Thesis: Enzymatic Reactions in *Rhodospirillum Rubrum*: Studies on the Reduction of 2,3-Dimethoxy-5-Methyl-1,4-Benzoquinone by Isolated Chromatophores. Major Adviser: Prof. A. W. Frenkel.

**Dean Charles Dauw, Moline, Ill.**

B.S. '61, Spring Hill College; M.A. '61, College of St. Thomas. Major: Educational Psychology. Minor: Psychology. Thesis: Life Experiences, Vocational Needs and Choices of Original Thinkers and Good Elaborators. Major Adviser: Prof. E. P. Torrance.

**Homer Clement DeWalt, Erie, Pa.**

B.A. '41, Canisius College; M.A. '57, John Carroll University. Major: Education. Minor: Educational Psychology. Thesis: An Analysis of the Status and the Functions of the Diocesan School Superintendency in the United States. Major Adviser: Prof. C. P. Hooker.

**Paul Wentland Eaton, Minneapolis**

B.A. '49, M.A. '54, University of Minnesota. Major: Economics. Minor: Mathematics. Thesis: On the Intersection of Edgeworth and Equilibrium Sets. Major Adviser: Prof. Leonid Hurwicz.

**Richard Vern Elefson, Butler, Mo.**

B.S. in Agric. with distinction '53, University of Missouri. Major: Agricultural Economics. Minor: Economics. Thesis: Economics of Agricultural Leasing. Major Adviser: Prof. P. M. Raup.

**Robert James Ertel, Maple Lake**

B.S. *cum laude* '54, College of St. Thomas. Major: Pharmacology. Minor: Microbiology. Thesis: Effects of Su-4885 (2-Methyl-1-2-Bis (3-Pyridyl)-1-Propanone) and NADPH on the Metabolism of Progesterone-4-<sup>14</sup>C in the Mouse. Major Advisers: Drs. R. N. Bieter and Frank Ungar.

**Thomas Francis Fletcher, New York City, N.Y.**

D.V.M. '61, Cornell University. Major: Veterinary Anatomy. Minor: Neurology. Thesis: Studies on the Canine Spinal Cord. Major Adviser: Prof. A. F. Weber.

**Allen Denis Flint, Park River, N.D.**

B.A. '55, M.A. '56, University of Minnesota. Major: American Studies. Thesis: Hawthorne's Political and Social Themes. Major Adviser: Prof. M. C. Turpie.

**Robert Joseph Forsyth, St. Paul**

B.A. '43, M.A. '47, University of Oregon. Major: Art. Minor: History. Thesis: John B. Flannagan: His Life and Works. Major Adviser: Prof. D. T. Tselos.

**Earl Inman Fuller, Amherst, Mass.**

B.S. with honors '55, M.S. '57, Michigan State University. Major: Agricultural Economics. Minor: Economics. Thesis: An Evaluation of Alternative Labor Data for Use in Farm Planning. Major Adviser: Prof. H. R. Jensen.

**David Lyle Giese, Wells**

B.S. '55, M.A. '58, University of Minnesota. Major: Educational Psychology. Minor: Statistics. Thesis: Comparisons Among Item Weighting Techniques Applied to the General College Comprehensive Examination. Major Advisers: Profs. R. O. Carter, Jr. and C. J. Hoyt.

**Millard Louis Gieske, St. Paul**

B.A. *magna cum laude* '53, Hamline University. M.A. '57, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Politics of Knute Nelson 1912-1920. Major Advisers: Profs. R. C. Loehr and M. Q. Sibley.

Stanley Arthur Gurtoff, New York,  
N.Y.

B.A. '57, Queens College; M.A. with honors '58, Columbia University. Major: English. Minor: Art. Thesis: The Impact of D. H. Lawrence on His Contemporaries. Major Adviser: Prof. Leonard Ungar.

Irene Helen Wunderlich Hanson, St.  
Paul

B.S. in Educ. with honors '46, M.S. in Educ. '48, Temple University. Major: Education. Minor: Educational Psychology. Thesis: An Investigation of the Effects of Teaching Variant Word Endings to First Grade Children. Major Adviser: Prof. G. L. Bond.

Lenore Annette White Harmon, Min-  
neapolis

B.A. *magna cum laude* '57, M.A. '62, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Measurement of Women's Interests: The Effect of Using Married Women as Occupational Criterion Groups on the Women's Strong Vocational Interest Blank. Major Adviser: Prof. L. H. Lofquist.

David John Hesselgrave, Minneapolis

B.A. *cum laude* '56, M.A. '56, University of Minnesota. Major: Speech and Theatre Arts. Minor: Supporting Program. Thesis: A Propagation Profile of the Soka Gakkai. Major Adviser: Prof. W. S. Howell.

Kennedy Thoen Hill, Darien, Conn.

B.A. *magna cum laude* '62, Yale University. Major: Child Psychology. Minor: Psychology. Thesis: The Effects of Social Reinforcement and Nonreinforcement Following Success and Failure as a Function of Test Anxiety of Subject, Sex of Subject, and Sex of Experimenter. Major Adviser: Prof. H. W. Stevenson.

Thomas Allen Howitz, Rock Lake,  
N.D.

B.S. '55, North Dakota State University; M.S. '58, University of North Dakota. Major: Education. Minor: Mathematics. Thesis: The Discovery Approach: A Study of Its Relative Effectiveness in Mathematics. Major Adviser: Prof. D. A. Johnson.

Robert Loring Jackson, Roseville

B.S. '50, Hamline University; M.A. '59, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Numeration Systems: An Experimental Study of Achievement on Selected Objectives of Mathematics Education Resulting from the Study of Different Numeration Systems. Major Adviser: Prof. D. A. Johnson.

David Carlton Johnson, Rochester

B.A. '58, Colgate University. Major: Education. Minor: Mathematics. Thesis: Programed Learning: A Comparison of the School Mathematics Study Group Programed and Conventional Textbooks in Elementary Algebra. Major Adviser: Prof. D. A. Johnson.

Kenneth Harvey Johnson, Hallock

B.S. '58, D.V.M. '60, University of Minnesota. Major: Veterinary Pathology. Minor: Microbiology. Thesis: Experimental Feline Panleukopenia. Major Adviser: Prof. Victor Perman.

Jack Howard Judy, Ventura, Calif.

B.S.E.E. '57, M.S.E.E. '59, Massachusetts Institute of Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: Anisotropic Magnetic Resonance and Relaxation in Silicon-Substituted Yttrium Iron Garnet. Major Adviser: Prof. A. H. Morrish.

Donald Wahl Katzner, Baltimore,  
Md.

B.A. '59, Oberlin College; M.A. '62, University of Minnesota. Major: Economics. Minor: Mathematics. Thesis: Integrability and Non-Integrability in Demand Theory. Major Adviser: Prof. Leonid Hurwicz.

Robert Bruce Kinney, Riverside, Calif.

B.S. '59, M.S. '61, University of California. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Turbulent Pipe Flow of an Internally Heat Generating Fluid. Major Adviser: Prof. E. M. Sparrow.

Vincent Hennix Larson, Mound

B.S. with high distinction '51, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Optimal Control of a Stochastic System. Major Advisers: Profs. E. B. Lee and Katsuhiko Ogata.

Joseph Lazar, Minneapolis

B.A. '39, J. D. '40, University of Chicago. Major: Political Science. Minor: Industrial Relations. Thesis: The Status of the Leasehold in International Law. Major Adviser: Prof. C. H. McLaughlin.

Don Evard Lee, Denver, Colo.

B.S.Ch.E. *summa cum laude* '59, University of Denver. Major: Chemical Engineering. Minor: Mathematics. Thesis: Root Locus Areas for the Analysis and Design of Multiple Loop Cascade and Related Control Systems. Major Adviser: Prof. N. H. Ceaglske.

Stanley Stephan Madeja, Minneapolis

B.S. '56, M.A. '59, University of Minnesota. Major: Education. Minor: Art. Thesis: Comparison of Two Methods of Teaching Art to Students of High and Low Art Ability. Major Adviser: Prof. W. R. Hastie.

Sithamparapillai Mahadeva, Jaffna,  
Ceylon

B.Sc.(Agric.) '55, Poona University (India); M.S. '62, University of Minnesota. Major: Horticulture. Minor: Agricultural Plant Physiology. Thesis: A Study of Factors Influencing the Effectiveness of Diquat (1:1-Ethylene 2:2' Dipyridilium Dibromide) for Potato Vine Killing. Major Adviser: Prof. R. E. Nylund.

William Arthur Mehrens, Minne-  
apolis

B.Sc. in Educ. '58, M.Ed. '59, University of Nebraska. Major: Educational Psychology. Minor: Psychology. Thesis: The Use of Probability Information in Educators' Decision Making. Major Adviser: Prof. J. C. Merwin.

Robert Charles Melchior, Moorhead

B.S. '58, Moorhead State College; M.S. '60, University of Minnesota. Major: Botany. Minor: Geology. Thesis: Pollen and Spores of the Shawmut Anticline, Montana. Major Adviser: Prof. J. W. Hall.

Neil Wayne Miles, Forest Lake

B.S. '59, M.S. '64, University of Minnesota. Major: Horticulture. Minor: Agricultural Plant Physiology. Thesis: A Study of Rest Period in September and Latham Red Raspberry and Its Association with Winter Hardiness. Major Adviser: Prof. A. E. Hutchins.

Sharad Ramchandra Moghe, India

Diploma '60, Madras Institute of Technology; B.Sc. '57, Nagpur University (India); M.S. '63, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Stress Analysis of Anisotropic Viscoelastic Media. Major Advisers: Profs. C. C. Hsiao and W. H. Warner.

Glenn Bernhardt Morey, Duluth

B.A. '57, M.S. '62, University of Minnesota. Major: Geology. Minors: Geophysics and Zoology. Thesis: The Sedimentology of the Precambrian Rove Formation in Northeastern Minnesota. Major Adviser: Prof. F. M. Swain.

Mumulla Venkat Rao Naidu, Hydera-  
bad, India

B.A. '50, M.A. '52, LL.B. '56, LL.M. '59, Osmania University (India). Major: Political Science. Minor: History. Thesis: The United Nations Force: Legal Theory and Political Practice. Major Adviser: Prof. C. H. McLaughlin.

Charles Davis Needham, Pittsburgh,  
Pa.

B.S.Ch '59, Carnegie Institute of Technology. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: A Normal-Coordinate Treatment of Group Frequencies; Application to Vinylidene Bromide, Vinylidene Fluoride, and N-Methylacetamide. Major Adviser: Prof. John Overend.

Thomas Evar Nelson, Chicago, Ill.

B.S. '57, M.S. '59, University of Illinois. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Studies on the Mechanism of Carbohydrase Action. Major Adviser: Prof. Samuel Kirkwood.

James Rodney Gilbert Olson, Cham-  
paign, Ill.

B.B.A. '48, M.A. '49, University of Minnesota. Major: Economics. Minor: Political Science. Thesis: An Economic Analysis of the Northwestern Flour Milling Industry with Special Reference to Taxation and Location. Major Adviser: Prof. W. W. Heller.

John Edward Osborn, Minneapolis

B.S. '58, M.S. '63, University of Minnesota. Major: Mathematics. Minor: Philosophy. Thesis: Approximation of the Eigenvalues of Non Self-Adjoint Operators. Major Adviser: Prof. H. F. Weinberger.

Gilberto Paolini, Syracuse, N.Y.

B.A. '57, M.A. '59, University of Buffalo. Major: Spanish. Minor: Italian. Thesis: An Aspect of Spiritualistic Naturalism in the Novels of B. P. Galdos: Charity. Major Adviser: Prof. W. T. Pattison.

Vernon George Pursel, Morris

B.S. in Agric. '58, University of Nevada; M.S. '61, University of Minnesota. Major: Dairy Husbandry. Minor: Veterinary Physiology and Pharmacology. Thesis: Studies Concerning the Effect of Glycerol Equilibration on Survival of Frozen Spermatozoa and the Lipid Composition of Bovine Spermatozoa and Seminal Plasma. Major Adviser: Prof. E. F. Graham.

Doraiswami Ramkrishna, Bombay,  
India

B.Ch.E. '60, University of Bombay (India). Major: Chemical Engineering. Minor: Mathematics. Thesis: Models for the Dynamics of Microbial Growth. Major Advisers: Profs. A. G. Fredrickson and H. M. Tsuchiya.

Carl Lyle Rosen, Minneapolis

B.A. '51, Brooklyn College; B.S. '58, M.A. '61, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: A Study of Visual Perception Capabilities of First Grade Pupils and the Relationship Between Visual Perception Training and Reading Achievement. Major Adviser: Prof. G. L. Bond.

Robert Ernest Schindler, Seattle,  
Wash.

B.S.Ch.E. *cum laude* '59, University of Washington; M.S.Ch.E. '61, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Structure of a Vortex Flame. Major Adviser: Prof. W. E. Ranz.

Gary Kuper Scott, Jefferson City, Mo.

B.Ed. '60, M.Ed. '62, Western Washington State College. Major: Educational Psychology. Minor: Psychology. Thesis: A Study of the Relationship Between Ratings of Counselor Success and Selected Personality Variables. Major Adviser: Prof. W. E. Dugan.

Clark Wellington Searle, Middle  
River

B.S. with distinction '61, M.S.E.E. '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Magnetic Resonance of Pure and Doped Single Crystals of Hematite. Major Adviser: Prof. A. H. Morrish.

George Calvin Shelton, Columbia,  
Mo.

D.V.M. '48, Texas A & M College; M.S. in Vet. Med. '52, Auburn University. Major: Veterinary Parasitology. Minor: Microbiology. Thesis: Host-Parasite Relationship Studies of *Oesophagostomum Columbianum* (Curtice, 1890) Stossich, 1899 in Domestic Sheep. Major Adviser: Prof. H. J. Griffiths.

William Siegel, St. Paul

B.A. '58, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Differential Effects of Six Functional Disabilities Across Occupational Groupings. Major Advisers: Profs. R. O. Collier, Jr. and E. P. Torrance.

Stanley Louis Silberg, Columbia, Mo.

B.A. '51, M.S. '52, University of Kansas; M.P.H. '59, University of Minnesota. Major: Epidemiology. Minor: Microbiology. Thesis: A Study of the Relative Risk of Staphylococcus Infection Among Human Beings and Animals in a Veterinary Hospital and Clinic Environment. Major Adviser: Dr. L. M. Schuman.

Gerald Ralph Simon, Evanston, Ill.

B.S. '55, M.S. '63, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Conversion of Aspartic Acid to Glutamic Acid in Guinea Pig Cerebral Cortex Slices 'In Vitro'. Major Adviser: Dr. C. P. Barnum, Jr.

Madho Singh, Shambhoopura, India

B.Sc.(Agric.) '54, University of Rajputana; M.Sc.(Agric.) '56, Agra University (India). Major: Genetics. Minor: Animal Husbandry. Thesis: Correlated Response in Weaning Weight to Selection for Post Weaning Growth in Mice. Major Adviser: Prof. R. E. Comstock.

Donald Lee Spencer, Iowa City, Iowa

B.S.M.E. with distinction '42, M.S. '48, State University of Iowa. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Theoretical and Experimental Investigation of Laminar Film Condensation of a Saturated and Superheated Vapor on a Surface with a Controlled Temperature Distribution. Major Adviser: Prof. W. E. Ibele.

Stanislaw Jan Staron, Sambor, Poland

M.A.(ord.) '48, M.A.(Hons.) '49, Diploma '50, University of St. Andrews (Scotland). Major: Political Science. Minor: Economics. Thesis: Man and the State in the Philosophy of Jacques Maritain. Major Adviser: Prof. M. Q. Sibley.



Paul Joseph Steinwand, Dubuque,  
Iowa

B.S. *maxima cum laude* '61, Loras College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Acid Cleavage of Allylmercuric Iodide. Major Adviser: Prof. M. M. Kreevoy.

James Fiske Stubbins, Richmond, Va.

B.S. '53, University of Nevada; M.S. '58, Purdue University. Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: Synthesis of Potential Analgesics: N-(2-Dialkylaminoethyl)-2-Phenylacetanilides. Major Adviser: Prof. T. O. Soine.

Jogindar Singh Uppal, Chandigarh,  
India

B.A. '50, M.A. '52, Panjab University (India); M.A. '61, University of Minnesota. Major Economics. Minor: Agricultural Economics. Thesis: Disguised Agricultural Unemployment in an Underdeveloped Economy—Its Nature and Measurement. Major Advisers: Profs. Martin Bronfenbrenner and Leonid Hurwicz.

Donald Richard Van Harken, Bergenfield, N.J.

B.S. '60, Columbia University. Major: Pharmacology. Minor: Biochemistry. Thesis: Role of the Hepatic Catalase-Peroxidative System in the Metabolism of Methanol by the Rat. Major Adviser: Dr. G. J. Mannering.

Premanand Vinayak Wagh, Bombay,  
India

B.Sc.(Hons.) '54, M.Sc. '56, University of Bombay (India); M.S. '62, Southern Illinois University. Major: Poultry Science. Minor: Biochemistry. Thesis: Nutritional and Biochemical Aspects of Arabinose and Xylose for Chicks. Major Adviser: Prof. P. E. Waibel.

Stanley Dean Warner, Argos, Ind.

B.S. with high honor '57, D.V.M. '59, Michigan State University. Major: Veterinary Pathology. Minor: Agricultural Biochemistry. Thesis: Studies on the Pathogenesis of *Vibrio Coli* Infection of Swine. Major Adviser: Prof. Victor Perman.

Shannon Carl Whipp, Gary, S.D.

B.S. with distinction '57, D.V.M. '59, University of Minnesota. Major: Veterinary Physiology and Pharmacology. Minor: Agricultural Biochemistry. Thesis: Studies of the Secretion of Aldosterone, Corticosterone and Hydrocortisone in Salt Depleted Calves. Major Adviser: Prof. A. L. Good.

Senkalong Yaden, Magaland, India

B.Sc.(Hons) '56, M.Sc. '58, University of Bombay (India). Major: Zoology. Minor: Entomology. Thesis: Uptake of Organic Compounds by *Euglena Gracilis*. Major Adviser: Prof. N. S. Kerr.

Kesavarao Yalamanchili, Kolavennu,  
India

B.Sc. '55, University of Madras; B.E. '59, University of Mysore (India); M.S.C.E. '60, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: A Linearized Theory for Potential and Rotational Supercavitating Flow Over a Wedge in a Two Dimensional Open Channel. Major Adviser: Prof. A. G. Anderson.

John Williamson Yarbro, St. Paul

B.A. '52, M.D. '56, University of Louisville. Major: Physiological Chemistry. Minor: Medicine. Thesis: Hydroxyurea and Mithramycin Inhibition of Nucleic Acid Synthesis in Mouse Ascites Tumor as Measured by Radiophosphorus Incorporation. Major Adviser: Dr. C. P. Barnum, Jr.

Yeong-Her Yeh, Tainan, Taiwan,  
China

B.A. '55, National Taiwan University (China); M.A. '59, University of Minnesota. Major: Economics. Minor: Agricultural Economics. Thesis: Economies of Scale, Market Size and Degree of Concentration in a Hypothetical Common Market for the ECAFE Region. Major Adviser: Prof. Edward Coen.

## Doctor of Philosophy in Dermatology

Ramon Michael Fusaro, Minneapolis

B.A. '49, B.S. '50, M.D. '53, M.S. in Derm. '58, University of Minnesota. Major: Dermatology. Minor: Pathology. Thesis: Some Aspects of Glucose Kinetics and Metabolism in the Skin. Major Adviser: Dr. F. W. Lynch.

## Doctor of Philosophy in Medicine

Muharrem Gokcen, Ankara, Turkey  
M.D. '55, University of Ankara (Turkey).  
Major: Medicine. Minor: Anatomy. Thesis:  
Autoimmunity in Liver Diseases. Major Ad-  
viser: Dr. C. J. Watson.

## Doctor of Philosophy in Orthopedic Surgery

William James Kane, Edina  
B.A. *cum laude* '54, Holy Cross College; M.D.  
'58, Columbia University. Major: Orthopedic  
Surgery. Minor: Physiology. Thesis: Blood  
Flow to Bone: A Quantitative Method and Its  
Validation. Major Adviser: Dr. J. H. Moe.

### Summary of Degrees Conferred by the University During the Academic Year 1964-65

Conferred July, August and December 1964; March 1965 .....	3334
Conferred June 1965 (subject to completion of requirements) .....	<u>4136</u>
Total degrees conferred 1964-65 .....	7470*

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\* Includes 680 conferred at Duluth, 101 at Morris.

# Academic Costume

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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 near the upper part of 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 Extension Division .....	orange and drab
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 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 Intercollegiate Bureau of Academic Costume. This means that 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.



UNIVERSITY OF MINNESOTA

*July Commencement, 1965*

FRIDAY AFTERNOON, JULY 16, 4:00 P.M.

NORTHROP MEMORIAL AUDITORIUM

# *The Board of Regents* ---

The Honorable Charles W. Mayo, M.D., Rochester  
First Vice President and Chairman

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhorst, Olivia

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, 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 fourteenth 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 we offer preparation. Since its founding, the University has awarded more than 183,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 38,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, 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, the Hormel Institute at Austin, and at 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 pos-

sible 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 biological-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 38,403 students who enrolled at the University at the beginning of the 1964-1965 academic year represent 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 will institute an admissions policy based on controlled growth of total enrollment. This change in admissions requirements will hold the 1965-1966 enrollment to about 42,000 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 1965 LEGISLATURE granted the University \$81,300,000 for general operations and maintenance during the 1965-1967 biennium. In addition, the University received \$9,083,223 for University Hospitals; \$6,833,887 for special appropriations, including special extension and research activities; \$15,820,656 for new buildings, land, and the rehabilitation of existing buildings; and \$1,240,000 for the University of Minnesota, Morris.

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 1963-1964 showed that the University's current income and expenditures amounted to \$120,996,183.65. Of the total received, \$11,695,702.92 came from student tuition and fees; \$15,601,446.97 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; \$1,597,684.93 from intercollegiate athletics; \$17,881,472.49 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 \$8,117,653.39 from corporations, foundations, individuals, and endowment income for instruction, research,



prizes, scholarships, and the care of the sick. Also \$26,591,688.27 came from the federal government for instruction, research, and agricultural extension. The state provided \$39,510,534.68 or 32.7 per cent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$10,134,063.

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 various Special Project Programs, including scholarships, medical and technological research, and college service funds, which are 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

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**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 Miss Nancy Hughes, Graduate Student, 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.

**ORGAN PRELUDE:** From 3:30 to 4:00 p.m., Associate 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 4:00 p.m., Associate Professor Forrest J. Harris, M.A., General College, Faculty Marshal, will carry the Mace into the auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Harris 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 on the table to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

*Festival March in F Major* - - - - - Handel

**ON THE STAGE:** The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are Marshal Harris; Professor James E. Lawver, Sc.D., Institute of Technology, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Professor Roy A. Schuessler, M.M., College of Liberal Arts; Captain Kent E. Harrison, U.S.A., Assistant Professor of Military Science; Dean Athelstan Spilhaus, D.Sc., Institute of Technology; Dean Robert J. Keller, Ph.D., College of Education; Captain Dewey E. Johnson, U.S.A.F., Assistant Professor of Aerospace Studies; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Willard L. Thompson, Ph.D., Summer Session; The Honorable William K. Montague, Regent of the University of Minnesota; The Honorable Bjarne E. Grottum, Regent of the University of Minnesota; Vice President Laurence R. Lunden, LL.D., Business Administration; Dr. Philip C. Helland, Ed.D., Executive Director of the Minnesota Junior College Board, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Vice President Emeritus William T. Middlebrook, M.C.S., Business Adminis-

tration; Vice President Stanley J. Wenberg, M.A., Educational Relationships and Development; The Honorable George W. Rauenhorst, Regent of the University of Minnesota; The Reverend Kenneth J. Huyck, B.D., Director of the Baptist Student Fellowship on the Minneapolis Campus of the University; Dean Bryce Crawford, Jr., Ph.D., Graduate School; Associate Professor Thomas R. Hoffmann, Ph.D., School of Business Administration; Associate Professor John A. Goodding, Ph.D., University College; Commander Edward O. Dietrich, U.S.N., Associate Professor of Naval Science; Associate Dean Alfred L. Vaughan, Ph.D., General College; Professor Louise A. Stedman, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Mr. Edwin A. Willson, B.E.E., President of the Minnesota Alumni Association; Dean Erwin M. Schaffer, D.D.S., School of Dentistry; Professor Franz Montgomery, Ph.D., College of Liberal Arts; Professor Raymond G. Price, Ed.D., College of Education, Marshal; Associate Professor James H. Matthews, M.D., College of Medical 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 remain standing for the National Anthem and the Invocation.

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

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 Reverend Kenneth J. Huyck.

**SPEAKING FOR THE UNIVERSITY:** President O. Meredith Wilson.

**COMMENCEMENT ADDRESS:** Dr. Philip C. Helland.

**CONFERRING OF ROTC CERTIFICATES:** Vice President Wenberg will introduce Captain Harrison, Commander Dietrich, and Captain Johnson, who will present the candidates for commissions in their respective services. Certificates of ROTC completion will be presented by President Wilson.

**PRESENTATION OF CANDIDATES:** Vice President Wenberg will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction, Associate Dean Vaughan for the General College; Dean Ziebarth for the College of Liberal Arts; Associate Professor Goodding for the University College; Dean Spilhaus for the Institute of Technology; Professor Stedman for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Keller for the College of Education; Associate Professor Hoffmann for the School of Business Administration; Dean Schaffer for the School of Dentistry; Dean Howard for the College of Medical Sciences; Dean Crawford for the Graduate School.

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

**SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION:** Mr. Edwin A. Willson.

**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:** President Wilson 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.

**CONFERRING OF THE REGENTS AWARD:** Vice President Wenberg will present Vice President Emeritus Middlebrook to Vice President Lunden, Secretary of the Board of Regents of the University of Minnesota, who will confer the Regents Award.



## WILLIAM THEOPHILUS MIDDLEBROOK

His profound and lasting commitment to education began when he left his native Vermont for Dartmouth College, where he earned two degrees and a Phi Beta Kappa key. In 1925 he brought to the University of Minnesota his business acumen and philosophy; as comptroller and later as vice president for business administration, he served the University for 34 years, ever guiding it toward excellence. A practical visionary, he insisted that education is best served by a close partnership of the academic and business offices. His impact has been felt not only at the University of Minnesota but far beyond; he has shared his wisdom and experience with educators and statesmen both nationally and across the seas.

As an associate of four University presidents, he charted a disciplined financial course through many crises; he helped to shape the University's plans for expansion and served well as its chief legislative spokesman. He brought to his work foresight, perceptiveness, firmness, and enthusiasm, all abetted by a resilient sense of humor. His influence marked all realms of University life: he persuaded the Board of Regents to initiate legal action that led to its recognition as a fully autonomous body; he fought for an "open door" policy to keep education within the grasp of all, regardless of financial limitations; he championed faculty and staff, seeking for them above all the freedom he called "a prime essential in our kind of business."

Because his wise and forceful leadership has strengthened education here and abroad, because of what he calls his "missionary conviction" that higher education is a noble cause, because he has embodied a deep love for the University, because he demanded greatness of the University, and because as secretary of the Board of Regents he became a valued colleague, counselor, and friend, the Regents of the University of Minnesota, in special recognition of his Benefaction, Fidelity, and Leadership, confer upon William Theophilus Middlebrook the Regents Award.

PRESENTED This Sixteenth Day of July, in the Year of Our Lord, the One Thousand Nine Hundred and Sixty-fifth, and of the University of Minnesota, the One Hundred and Fourteenth.

*L. R. Lundeen*

SECRETARY

*Meredith Wilson*

PRESIDENT

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

*Phantasy in G Minor* - - - - - Bach

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

# *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 as indicated on those listed below and upon such others as may meet the requirements for the Reserve Officers in the Armed Services.

## **DEPARTMENT OF MILITARY SCIENCE**

### **Second Lieutenant, Artillery**

Jack W. Newcomb, Minneapolis

Robert D. Ranta, Robbinsdale

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

Wayne B. Sorensen, St. Paul

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

Michael J. Helms, Minneapolis

## **DEPARTMENT OF NAVAL SCIENCE**

### **Ensign, USN**

Paul B. Dahl, Hopkins

## **DEPARTMENT OF AEROSPACE STUDIES**

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

Philip E. Jacobson, Jr., Minneapolis  
Michael G. McCluney, St. Paul

Neil R. McCoy, Faribault  
Richard J. Vosika, Minneapolis

# 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

George Gerald Aichele, St. Paul	Anna Louise Hall, St. Paul
Ronald Arthur Anderson, Minneapolis	Philip Michael Herman, Minneapolis
William Thomas Bassett, Minneapolis	Garry Wayne Ibsen, Minneapolis
John Joseph Boulger, Minneapolis	Gerald Alexander Kennedy, Hamel
Beverly Ann Cartwright, Minneapolis	Tom E. Knudsen, Hopkins
Calvin James Christopherson, Minneapolis	Kraig Orlando Kromer, Minneapolis
Patrick Dennis Connolly, Hopkins	Janet Louise Lutz, Mendota Heights
Mary Lee Cota, Minneapolis	Harry Gerald Miller, Jr., St. Paul
William Charles Crozier, Excelsior	Barbara Joanne Nelson, Minneapolis
Judy Lee Cummer, Minneapolis	Joel Murray Paul, St. Paul
Maureen Frances Dawson, St. Louis Park	Mary Louise Petranton, West St. Paul
John Arnt Dragseth, Minneapolis	Maria Rebeca Pintado, Quito, Ecuador
John Olaf Eikcland, St. Paul	Nancy Jean Pugh, Minneapolis
Donald Roy Fanum, St. Paul	Sharon Lucille Rockney, Bloomington
Jean Mary Finger, St. Paul	Margaret Ann Schank, St. Paul
Dona Elizabeth Godderz, Hopkins	Lansing Reed Shepard, St. Paul
Dwight David Grabitske, South St. Paul	Martin Joseph Strong, Minneapolis
	Jeanne Marie Tierney, West St. Paul
	Leonard John Wistrill, St. Paul

## COLLEGE OF LIBERAL ARTS

### Associate in Liberal Arts

Karen Hunt Flood, St. Paul	Michael Grover Norris, Minneapolis
John Joseph Hastings, Duluth	Frieda Juster Sperling, Minneapolis

### Bachelor of Arts

Bruce Leslie Adomeit, A.L.A., Excelsior	Barbara Kay Anders, White Bear Lake
Diane Jean Alden, Wayzata	Darrel Roy Anderson, Edina
	Lloyd Eugene Arbogast, Minneapolis



John Roger Asp, St. Paul  
 Carol A. Ulmer Bell, Minneapolis  
 Ragnhild Bjelke, Oslo, Norway  
 James Donald Block, Elbow Lake  
 Jane Ann Russell Braaten, Rochester  
 Jerome Thomas Brakke, Edina  
 Noel Henry Busch, Hopkins  
 Richard Wayne Carlson, St. Louis  
 Park  
 Gary Alan Carroll, Balaton, CUM  
 LAUDE  
 Curtiss Howard Chelin, Sacred Heart  
 Anne Elizabeth Clawson, Minneapolis  
 Marlene Ann Coughlin, Minneapolis  
 James Alden Dahl, Minneapolis  
 Judith Ann Dixon, St. Paul  
 Gareth Downs, Minneapolis  
 Nancy Kathleen Doyle, Minneapolis  
 Robert Birger Engstrom, Mankato  
 Laurence Epstein, Minneapolis  
 Shirley Ann Falk, St. Paul  
 Hubert Vacek Forcier, Chanhassen  
 Charlotte Ann Freeman, Flemington,  
 N.J.  
 Priscilla Jean Friedman, Hibbing  
 William James Geer, Minneapolis  
 Peter Alan Glennie, International  
 Falls  
 David Allen Grabham, Minneapolis  
 Mildred Louise Motter Graham,  
 B.S.N., Minneapolis, CUM LAUDE  
 Carol Joy Hagen, Minneapolis  
 Thomas Anthony Hall, Minneapolis  
 Bruce Ralph Hanson, Minneapolis  
 Judith Josephine Harlow, Minneapolis  
 Ronald James Harrington, Minne-  
 apolis  
 Marvin LeRoy Hart, St. Paul  
 Edward Shirley Harthill, Minneapolis  
 Bonnie Jo Hartwick, Minneapolis  
 Sharon Louise Hartwick, Springfield  
 Michael Eugene Hayes, St. Louis Park  
 Michael Jay Helms, Golden Valley  
 Donald Breen Henneman, Minne-  
 apolis  
 Nancy Victoria Herman, Sioux City,  
 Iowa, SUMMA CUM LAUDE  
 Michael Joseph Hoffman, Lincoln  
 Catherine Sophia Hofstede, Minne-  
 apolis  
 Michael Eugene Hotz, Minneapolis  
 Barbara Beth Iverson, A.A., Wayzata

Robert George Jackson, Duluth  
 Philip Alan Jahnke, Snake River  
 William Donald Johnson, Wayzata  
 Mary Elizabeth Johnston, Minneapolis  
 George Michael Kanuch, Jackson  
 Victoria Louise Kleven, Minneapolis  
 Roman Rudolph Kopp, Minneapolis  
 Gerald Paul Larson, Minneapolis  
 James Rahders Larson, Mound  
 Noel Ruth Larson, St. Paul  
 Sidney I. Lebo, A.L.A., Minneapolis  
 Kenneth Albert LeDoux, Winsted  
 Robert Iver Lerohl, Virginia  
 Thomas Lee Logeland, Minneapolis  
 Louis Vincent Lucero, Minneapolis  
 Gail Alice Marcellius, Richfield, CUM  
 LAUDE  
 Janice Kristin Mc Farland, Wayzata  
 Bruce Neil Metchnek, Minneapolis  
 John Richard Michalek, Duluth  
 Janice Ruth Miller, Minneapolis  
 Monique Marinette Borgialli Mindak,  
 Nice, France  
 John Robert Minnehan, Hopkins  
 Bruce Allan Moan, Glenwood  
 Douglas Craig Moen, Minneapolis  
 Harold Christian Monson, Jr., Mound  
 Raymond Lloyd Murray, Minneapolis,  
 SUMMA CUM LAUDE  
 Patricia Lee Nugent, Minneapolis  
 Hayes Thomas O'Brien, Minneapolis  
 Mary Karin Orfield, Minneapolis  
 Donald Thomas Paden, St. Paul  
 Kathleen Mary Palcher, Ely  
 Richard Wayne Palecek, Minneapolis  
 Gretchen Eileen Pederson, Springfield,  
 Va.  
 Gay Helen Petricka, Seattle, Wash.  
 Barry Robert Pomrantz, A.A., Marshall  
 Robert Dennis Ranta, Robbinsdale  
 Martha Zion Rao, Fort Morgan, Colo.  
 Donald Dale Reynolds, Mason City,  
 Iowa  
 Walter Pierce Richardson, Hinsdale,  
 Ill.  
 Frederic Douglas Rosenberg, St. Paul  
 Janice Grimminger Rosse, Minne-  
 apolis  
 Morry Newell Rothstein, St. Paul  
 Eleanore Marie Saari, Minneapolis,  
 SUMMA CUM LAUDE  
 Mark Anthony Sazama, Minneapolis

Diane Mary Schreder, Minneapolis  
Diana Kay Anderson Smith, St. Paul  
Silvia Strauman, Minneapolis  
Mary Lou Stull, A.A., Rochester  
Betty Rae Sundgren, St. Paul  
Sidney Carol Surles, St. Paul  
Mary Ellen Louise Tonder, Mahto-  
medi

Bjorn Johannes Ulstad, Richfield  
Judith Ann Veres, Fridley  
Mary Jo Fair Votruba, Minneapolis  
Peter Donald Warner, A.A., Minne-  
apolis  
David Lyle Weed, Rochester  
James Day Wilson, Cody, Wyo.

## UNIVERSITY COLLEGE

### Bachelor of Arts

Darlene Janet Jokela, Cloquet

## INSTITUTE OF TECHNOLOGY

### Bachelor of Science

Rodger Orval Anderson, Balaton,  
WITH DISTINCTION  
Thomas George Carnahan, Kirkwood,  
Mo.

Vernon Lee Eriksen, Blue Earth,  
WITH HIGH DISTINCTION  
Carl Elmer Hanson, Hawarden, Iowa,  
WITH DISTINCTION  
James Harold Wilbur, Minneapolis

### Bachelor of Aeronautical Engineering

Robert James Davis, Minneapolis  
Kenneth Arnold Hanson, Duluth  
Richard Eugene Kirts, Duluth  
Neil Robert McCoy, Dodge Center

Arden Edwin Romsos, Cameron,  
Wis.  
Robert Joseph Thompson, Aitkin

### Bachelor of Architecture

Calvin Marvin Olson, Minneapolis

### Bachelor of Chemical Engineering

Ward Christian Johnson, Clara City  
Robert Grant Kilbury, Minneapolis  
John Allen Peterson, Minneapolis,  
WITH DISTINCTION

Jack Theodore Saari, Minneapolis  
James Thomas Sampson, Duluth

### Bachelor of Chemistry

Gilbert Lee Eian, Ashby

## **Bachelor of Civil Engineering**

Robert Anthony Ament, B.S., St.  
Cloud  
James Ralph Lund, Minneapolis

Gary Burkhardt Schulze, South St.  
Paul  
Noel William Vogen, Minneapolis

## **Bachelor of Electrical Engineering**

Dale Wigren Hanson, Albert Lea

## **Bachelor of Mathematics**

Henry Cheng, Minneapolis, WITH  
HIGH DISTINCTION  
Thomas Hubert Krocak, Montgomery,  
WITH DISTINCTION

Michael James Lushine, Minneapolis,  
WITH HIGH DISTINCTION

## **Bachelor of Mechanical Engineering**

Roger Bruce Engstrom, St. Paul  
Ronald Vernell Larson, Elbow Lake

Larry DelRay Stordahl, Roseau  
Ralph Hugo Willgohs, Porter

## **Bachelor of Physics**

Christopher Wayne Bjork, Minne-  
apolis, WITH DISTINCTION

Donald Edwin Oinen, Jackson

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

## **Bachelor of Science**

Stephanie Frahm, Trimont, Home  
Economics  
Nancy Luella Jacobs, Hopkins, Home  
Economics  
Eugene Francis Karel, St. Paul,  
Forestry  
Patricia Ann Polaski, Minneapolis,  
Home Economics

Carol Ann Radunz, Hutchinson,  
Home Economics  
Louella Mae Roberts, Lake Crystal,  
Home Economics  
Marilyn Jean Van Gelder, Minne-  
apolis, Home Economics

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

## Bachelor of Science

Carol Marvel Gretsfield, St. Paul,  
Home Economics Education

Loretta Kay Hanson, Anoka, 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

Wayne Frederick Guerkink, Pease

Steven Carl Haugen, Elbow Lake

# COLLEGE OF EDUCATION

## Bachelor of Science

Diane Davenport Andberg, Anoka  
Judith Kay Anderson, Bloomington  
John Turley Arenz, St. Paul  
Katherine Joyce Lehman Bartelmy,  
Portales, N.M.  
Lee Arthur Bennett, Kensington  
Barbara Jeanne Berghs, B.A.,  
Owatonna  
Patric Arnold Beske, Minneapolis  
Arnold Willis Bigbee, Minneapolis  
Agnes Bobgan, Minneapolis  
Dallas Fae Boeck, Minneapolis  
Nina Jane Boling, Cold Spring  
Richard Asher Bowdin, Minneapolis  
Vivian Theresa Boyle, B.A., South St.  
Paul  
Ronald Dennis Bragg, B.A., St. Paul

Gerald Michael Brown, St. Paul  
Joanne Marie Brown, B.A., St. Paul  
Gordon John Cherveney, St. Paul  
Harlan Eugene Clark, Excelsior  
Peter James Collier, Minneapolis  
Raymond LeRoy Cronk, Bemidji  
John Dennis, A.A., Minneapolis  
Norbert John DuRand, St. Paul, WITH  
DISTINCTION  
Carol Bakula Edstrom, White Bear  
Lake  
Barbara Anne Edwardson, Owatonna  
Gail Elvira Engelsen, Bloomington  
Ninna Engskow, Stewart, WITH DIS-  
TINCTION  
Doris MacDonald Galush, Minne-  
apolis, WITH DISTINCTION

Mary Kathrine Mattlin Hagon, White Bear Lake, WITH DISTINCTION  
 Roger Clifford Hagon, B.A., Minneapolis  
 Sandra Elizabeth Hall, Minneapolis, WITH DISTINCTION  
 Delores DeHoogh Hanson, Marion, S.D.  
 Elizabeth Anne Heinbockel, B.A., Minneapolis  
 John Emil Holland, Detroit Lakes  
 Albert Randolph Holmberg, B.A., Minneapolis  
 David Henry Holmgren, B.B.A., Henning  
 Martha Schmidt Ironside, Robbinsdale  
 Byron Karl Johnson, North St. Paul  
 Donald James Johnson, B.A., St. Paul  
 Winifred Louise Mitchell Kiskinen, B.A., Minneapolis  
 Joen Frank Leppla, B.A., Deephaven  
 Gloria LaVonne MacDermott, B.A., Minneapolis  
 Ronald Arthur Menzel, Aitkin  
 Jack Wynne Newcomb, Minneapolis  
 Ellen Marie Olson, Minneapolis, WITH DISTINCTION  
 Ellen Rebecca Olson, B.A., Minneapolis  
 Beatrice G. Pagel, St. Paul  
 Ardis Eichler Patterson, Hopkins, WITH DISTINCTION  
 Yvonne Ann Petersen, Minneapolis  
 Todd Willard Peterson, Willmar  
 Carolyn Jeanne Podany, Minneapolis  
 Patricia Louise Preus, Springfield, Ill.  
 Pamela Joy Price, St. Paul  
 Margit Amundsen Proshek, Rochester  
 Richard Elward Purrier, Minneapolis  
 Mary Louise Quam, Minnetonka  
 Patricia Diane Ring, Minneapolis  
 Patricia Helen Rowelson, Minneapolis  
 Sandra Elizabeth Ruffenach, Minneapolis  
 Renee Carolyn Rymer, St. Paul, WITH DISTINCTION  
 Nada Kenyon Sampson, Duluth  
 William Clarence Schissel, Adams, WITH DISTINCTION  
 Mary McLane Schmitt, B.A., M.A., Excelsior  
 Florence Elizabeth Schroetter, A.A., St. Paul  
 Norita Faith Seleen, B.A., Edina  
 Carol Shoebottom Shaffer, Minneapolis  
 Lynne Bechtold Shepherd, Minneapolis  
 DeAnn Mary Smith, A.A., Minneapolis  
 Georgianna Wright Hartzell Spiro, B.A., Edina  
 Rodney James Stearns, B.A., Minneapolis  
 Loraine Polski Stillman, Bloomington  
 Judy Lynn Stolte, Minneapolis  
 Kathryn Georgene Strenglis, St. Paul  
 Bruce Harry Swanson, Milaca  
 Lana Marie Thompson, B.A., St. Paul  
 Mary Ann Vaala, Dawson  
 Kirby L. Vann, B.A., Minneapolis  
 Mary Ellen Burns Vetter, Minneapolis  
 Richard John Vosika, Minneapolis  
 Ronald Elmer Waataja, B.A., Cook  
 Joan Geiger Weber, B.A., Rockford, Ill.  
 Stephen Dennis Weber, Pierz  
 Sharon Lee Wells, Minneapolis  
 Jeanne Lucille Werner, Minneapolis  
 Geraldine Ann Wilson, Minneapolis  
 Alice Holt Wise, Coon Rapids  
 Marilyn Sue Zoss, St. Louis Park, WITH DISTINCTION

### Master of Education

Gordon Walter Bugge, B.S., St. James  
 Charles Richard Lang, B.A., Craig, Neb.  
 Patrick William O'Brien, B.S., St. Paul  
 Dwayne Lawton Smith, B.S., Bloomington

# SCHOOL OF BUSINESS ADMINISTRATION

## Bachelor of Science in Business

Lawrence William Bendel, Minneapolis, WITH DISTINCTION

William Joseph Daly, Minneapolis  
James Alfred Dodge, Moose Lake,  
WITH DISTINCTION

Robert Lee Drew, St. Paul

Judith Ann Emerson, Little Falls

Joseph Garthofner, St. Paul

Philip Wayne Gleason, Wadena

Timothy Robert Hay, B.S.Pharm.,  
Minneapolis

Bruce Milton Hebeisen, Norwood

David Bruce Heinen, Minneapolis

John Clarence Iserman, St. Paul

Philip Edward Jacobson, Jr., Minneapolis

Lauren Bennett Jallen, Biwabik

Richard Stanley Johnson, St. Louis  
Park

James Winston Kjellberg, Minneapolis

Robert William Lange, B.A., St. Paul

Neil Leslie Larson, Mabel

Bruce John Miller, Minneapolis

Ronald Roy Montgomery, St. Croix  
Falls, Wis.

Roger Merlin Nelson, B.M.E., Minneapolis

John Verdon Onstad, Minneapolis

Gordon Joseph Spartz, Adrian

Charles Leroy Squires, Minneapolis

Mark Sletten Swenson, Elbow Lake

Ronald Jay Taylor, Minneapolis

Curtis Irving Wilson, Clarkfield

## Bachelor of Science in Economics

Ronald Karl Ellingson, Richfield

Charles Louis Hildebrand, Marquette,  
Mich.

Richard Eugene Muench, Mapleton

Daniel Francis Petrella, Biwabik

Gerald Lester Rossow, St. Paul

# COLLEGE OF MEDICAL SCIENCES

## Bachelor of Science

Paul Andrew Lunseth, B.A., M.D., Minneapolis

## Doctor of Medicine

Severt Harold Jacobson, B.S., Hope, N.D.

# GRADUATE SCHOOL

## Master of Arts

Russell Harrison Allen, Madison, Wis.  
B.S. '62, University of Wisconsin. Major: Geography. Minor: Political Science. Thesis: Hired Farm Workers in Minnesota.

James Stanford Carlson, Richfield  
B.S. in Educ. '50, University of North Dakota. Field of Concentration: Curriculum and Instruction.

Gideon Mnyozu Chaghuza, Mlalo, Tanzania  
B.A. '64, Concordia College. Field of Concentration: History.

Everett M. Christensen, Jr., New Ulm  
B.A. '57, Michigan State University. Major: Psychology. Minor: Industrial Relations. Thesis: A Measure of Attitude Change Through Conference Learning.

Imogene Mary Erickson, Minneapolis  
B.S. '44, Wisconsin State College (River Falls). Field of Concentration: Curriculum and Instruction.

James Robert Fillbrandt, Wayzata  
B.S. '58, University of Minnesota. Field of Concentration: English.

Bryan Winston Finnigan, Haney, British Columbia, Canada  
B.A. '63, University of British Columbia. Field of Concentration: Sociology.

David Allen Fruehauf, Hopkins  
B.S. '61, University of Minnesota. Field of Concentration: Educational Psychology.

Julie Ann Rockman Fulton, Minneapolis  
B.A. '62, Smith College. Major: Sociology. Minor: Statistics. Thesis: The Geographical Distribution of Delinquent Offense Types: A Study of First Offenders in Minneapolis.

Thomas Haskell Garver, Duluth  
B.A. '56, Haverford College. Major: Art. Minor: English. Thesis: Charles H. Currier: A Boston Photographer.

Scott Altrath Godin, Minneapolis  
B.A. *cum laude* '62, University of Minnesota. Field of Concentration: Geography.

Julian Michael Greene, Corpus Christi, Tex.

B.A. *cum laude* '63, Rice University. Field of Concentration: Economics.

David Dean Greenwaldt, Verndale  
B.S. with distinction '61, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Don Edward Gribble, Minneapolis  
B.A. '36, College of St. Thomas. Field of Concentration: Library Science.

David Allan Grundman, Minneapolis  
B.S. '64, University of Minnesota. Field of Concentration: Education.

Charles Richard Gustafson, Minneapolis  
B.A. '53, Augsburg College; B.S. '56, Macalester College. Field of Concentration: Curriculum and Instruction.

George Henry Hanrahan, St. Paul  
B.S.Ph.D. '49, College of St. Thomas. Field of Concentration: Educational Administration.

Rebecca Kay Hayes, Minneapolis  
B.S. '59, University of South Carolina. Field of Concentration: Curriculum and Instruction.

Sue Ellen Hulley, Hyannis, Mass.  
B.A. '64, Wellesley College. Major: History. Minor: English. Thesis: Lawrence of Arabia: Hero of a Troubled Generation.

Peter Leonard Kern, Richmond Hill, N.Y.  
B.Ch.E. with highest honors '62, Pratt Institute. Major: Mathematics. Minor: Chemical Engineering. Thesis: A Method for Obtaining Lower Bounds to the Solution of the Heat Transfer Problem.

Wayne Arthur Kinion, Ottumwa, Iowa  
B.S. '51, Iowa State University. Field of Concentration: Educational Psychology.

Mary Ellen Kirchner, Minneapolis  
B.A. '58, University of Minnesota. Field of Concentration: Library Science.

- Chester Gregory Knight, Kenmore,  
N.Y.  
B.A. *cum laude* '63, Dartmouth College. Field of Concentration: Geography.
- Donald LeRoy Langworthy, Blooming  
Prairie  
B.S. '59, University of Minnesota. Field of Concentration: Library Science.
- Waldo DeVold Larson, Bloomington  
B.A. '58, St. Olaf College. Field of Concentration: Educational Psychology.
- Murray Levy, New York, N.Y.  
B.A. '63, Queens College. Field of Concentration: Economics.
- Margot Pringle Liberty, Sheridan,  
Wyo.  
B.S. '53, Cornell University. Major: Anthropology. Minor: Linguistics and Comparative Philology. Thesis: A Cheyenne Indian Culture History.
- Daniel Rex Mallaro, Charles City,  
Iowa  
B.A. '60, State College of Iowa. Field of Concentration: Educational Psychology.
- Phyllis Anderson Miller, Minneapolis  
B.A. '62, Wheaton College. Field of Concentration: Curriculum and Instruction.
- Robert Anthony Misslin, Garrison,  
N.D.  
B.S. '43, College of St. Thomas. Field of Concentration: Educational Administration.
- Mary Emery Moen, St. Paul  
B.A. *cum laude* '57, B.S. '58, University of Minnesota. Field of Concentration: Spanish.
- Carol Ann Morgen, St. Paul  
B.A. *cum laude* '63, St. Olaf College. Field of Concentration: English.
- Winifred Beeman Morris, Minne-  
apolis  
B.A. '52, University of Texas. Major: Speech Pathology. Minors: Child Psychology and Psychology. Thesis: A Comparative Study of the Ability of Normal Subjects and of Seizure Patients After Temporal Lobectomy to Localize a Click Sound.
- John Graham Neill, Belfast, Ireland  
LL.B. '61, Queen's University of Belfast (Ireland). Field of Concentration: American Legal Institutions.
- Louella Edwards Newell, Moorhead  
B.A. *magna cum laude* '62, University of Minnesota. Field of Concentration: American Studies.
- Robert E. O'Neill, Minneapolis  
B.A. '51, University of Chicago. Major: Philosophy. Minor: English. Thesis: The Critics' Use of the *Siris* as Evidence of Change in Berkeley's Philosophy: Johnston, Hicks, Wild.
- Evelyn Ruth Osterman, Grand Junction, Iowa  
B.A. '61, State College of Iowa. Field of Concentration: Library Science.
- Arland Wayne Otte, Northfield  
B.A. '61, St. Olaf College. Field of Concentration: Educational Administration.
- Frank Charles Pratzner, Egg Harbor City, N.J.  
B.A. '60, Trenton State College. Field of Concentration: Industrial Education.
- Edward Joseph Pulju, Menahga  
B.A. *cum laude* '58, College of St. Thomas. Field of Concentration: English.
- Herman Clarence Rustad, Wabasso  
B.S. '51, St. Cloud State College. Field of Concentration: Educational Administration.
- Donald Lorrin Sandness, LaMoure,  
N.D.  
B.S. in Educ. '61, State Teachers College (Valley City). Field of Concentration: Speech Pathology.
- Stephen Lewis Schensul, New York,  
N.Y.  
B.A. '63, Hunter College. Major: Anthropology. Minor: Sociology. Thesis: Lakewood: An Ethnographic Analysis of a Northern Minnesota Community.
- Maurice Wolfe Silver, St. Louis Park  
B.S. '63, University of Minnesota. Field of Concentration: Art Education.
- Sonja Anderson Sorensen, Minneapolis  
B.A. '58, Grinnell College. Field of Concentration: Scandinavian.



Barry Stephen Spector, Minneapolis  
B.A. '61, University of Minnesota. Field of  
Concentration: French.

Erwin Francis Stevenson, Minneapolis  
B.S. '60, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Earl William Synnes, Clearbrook  
B.S. '56, Bemidji State College. Field of  
Concentration: Curriculum and Instruction.

Mark Edward Thorsell, Richfield  
B.A. '59, Gustavus Adolphus College. Field of  
Concentration: History.

Dorothea Ebert Trelstad, Zumbrota  
B.S. '61, Mankato State College. Field of  
Concentration: Educational Psychology.

Margaret Ann Twentyman, Rochester  
B.A. *cum laude* '62, University of Minnesota.  
Field of Concentration: Classics.

I-Shou Wang, Taipei, Taiwan, China  
B.S. '61, National Taiwan University (China).  
Field of Concentration: Geography.

Harold Duane Westby, St. Paul  
B.S. '50, Bemidji State College. Field of Con-  
centration: Curriculum and Instruction.

John Franklin White, Waterloo, Iowa  
B.A. '55, State College of Iowa. Field of  
Concentration: American Studies.

Michael John Zempel, Duluth  
B.A. '57, University of Minnesota. Field of  
Concentration: Industrial Relations.

## Master of Arts in Public Administration

Leigh Edmund Grosenick, Alexandria  
B.A. '60, University of Minnesota. Field of  
Concentration: Public Administration.

Conrad Harold Hammar, Jr., St. James  
B.A. '54, University of Minnesota. Field of  
Concentration: Public Administration.

Alan Louis Saltzstein, Milwaukee,  
Wis.

B.A. '62, Lawrence College. Major: Public  
Administration. Thesis: Supervisory Training  
for Lower Level Municipal Supervisors: An  
Analysis of the Shorewood, Wisconsin Experi-  
ence.

Barry George Schuler, St. Paul  
B.A. *magna cum laude* '54, University of  
Minnesota. Field of Concentration: Public  
Administration.

Arthur Joseph Sullivan, Preston, Iowa  
B.A. '61, George Washington University.  
Major: Public Administration. Thesis: Military  
Power in the Nuclear Age: A Study in Control.

## Master of Business Administration

William Reed McArthur, Edina  
B.S.E. '56, University of Michigan. Field of  
Concentration: Business Administration.

## Master of Fine Arts

Karl Erich Bethke, Minneapolis  
B.A. *cum laude* '62, University of Minnesota.  
Field of Concentration: Art.

Lowell Edwin Lindgren, Willmar  
B.A. *summa cum laude* '63, University of  
Minnesota. Field of Concentration: Music.

## Master of Science

- Ahmed Ragab Abdel-Aal, Alexandria, Egypt  
B.Com. '58, Alexandria University (Egypt).  
Field of Concentration: Business Administration.
- David Arthur Beier, Beach, N.D.  
B.A. '64, Jamestown College. Field of Concentration: Environmental Health.
- Johnny Bland, Bogalusa, La.  
B.S. '57, Xavier University. Field of Concentration: Botany.
- Patrick Heuer Callahan, St. Paul  
B.S. in Pharm. '62, University of Minnesota.  
Field of Concentration: Hospital Pharmacy.
- Darrell Charles DeVilliers, Jr., Minneapolis  
B.A. '61, B.S. '63, University of Minnesota.  
Major: Anatomy. Minor: Physiology. Thesis: Certain Aspects of Citric Acid Metabolism in Diabetes.
- Ayenev Ejigou, Addis Ababa, Ethiopia  
B.Sc. '62, University College of Addis Ababa (Ethiopia); M.P.H. '64, University of Minnesota. Field of Concentration: Biostatistics.
- Elizabeth Lewis Etnier, Vista, Calif.  
B.S. '62, University of Minnesota. Field of Concentration: Zoology.
- Jerry Yu Fan, Taipei, Taiwan, China  
B.S. in Eng. '61, National Taiwan University (China). Field of Concentration: Mechanics and Materials.
- Newton Joseph Fernandes, Nairobi, Kenya, Africa  
B.Sc. (Hons) '61, University of Bombay (India). Field of Concentration: Veterinary Bacteriology.
- Sister Stephen Foster, St. Paul  
B.A. '56, College of St. Catherine. Field of Concentration: Physics.
- Frank Sumner Hall, Sergeant Bluff, Iowa  
B.S. '54, Iowa State University. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: The Preparation and Characterization of an  $FE(0)$  Complex Using 2,2'-Bipyridine Anion.
- Bruce Sherman Hemingway, St. Paul  
B.A. *cum laude* '62, Macalester College. Field of Concentration: Geophysics.
- Gordon Henry Herbst, Mankato  
B.A. '56, B.S. with distinction '58, University of Minnesota. Major: Anatomy. Minor: Pathology. Thesis: Electron Microscopy of Rat Bone Marrow.
- Robert Lawrence Holton, Beaverton, Ore.  
B.A. '50, M.Ed. '58, Montana State University. Field of Concentration: Genetics.
- Carol Hommer Kern, Union, N.J.  
B.S. '62, Monmouth College. Major: Astronomy. Minor: Physics. Thesis: The Solar Motion of Faint Stars.
- William Christian Krueger, St. Paul  
B.A. with honor '58, Mankato State College. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Infrared Intensities of the Fundamental Bands of Tetrafluorethylene.
- Jian Hwa Lee, Taipei, Taiwan, China  
B.S. in Agric. '60, National Taiwan University (China). Major: Organic Chemistry. Minor: Biochemistry. Thesis: The Rearrangement of 4H-1, 4-Benzothiazine-3 (2H)-One 1-Oxide.
- Kenneth Elmer Loux, Clarion, Iowa  
B.A. '63, Luther College. Field of Concentration: Business Administration.
- Laurence James McCarthy, Watertown, Mass.  
B.A. '56, Yale University; M.D. '60, Harvard University. Major: Pathology. Minor: Hematology. Thesis: Congenital Hepatic Fibrosis.
- Marlen Fredrick Miller, Pine City  
B.S. '62, University of Minnesota. Field of Concentration: Agricultural Economics.

**Thomas James Moran, Delano**

B.S. in Eng. Sci. *cum laude* '60, University of Notre Dame. Field of Concentration: Mechanics and Materials.

**Daniel James Nicholson, Brockton, Mont.**

B.S. '61, Montana State University. Field of Concentration: Mathematics.

**Wendell Roger Olson, Ruthton**

B.A. '63, Macalester College. Field of Concentration: Business Administration.

**Jacob Henry Propp, Fort Morgan, Colo.**

B.A. '63, University of Colorado. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: A Voltammetric Study of the Oxidation of Iodide and Bromide in  $\text{KNO}_3\text{-NaNO}_3$  Eutectic Melts.

**Hilman Charles Ratsch, Rochester**

B.S. '62, University of Minnesota. Field of Concentration: Forestry.

**Lloyd George Sage, Cloquet**

B.A. *cum laude* '63, University of Minnesota. Field of Concentration: Business Administration.

**Hailan Hummadi Tikriti, Baghdad, Iraq**

B.S. '60, University of Maryland. Field of Concentration: Dairy Industries.

**Chensen Ting, Taipei, Taiwan, China**

B.S. in Eng. '62, National Taiwan University (China). Field of Concentration: Mechanics and Materials.

**Henry Ward Winship III, Tucson, Ariz.**

B.S. in Pharm. '61, University of Arizona. Field of Concentration: Hospital Pharmacy.

**Wan-Lee Yin, China**

B.S. in Eng. '62, National Taiwan University (China). Field of Concentration: Mechanics and Materials.

## **Master of Science in Aeronautical Engineering**

**Dah-teng Jeng, Ping-Tung, China**

B.S. in Eng. '62, National Taiwan University (China). Major: Aeronautical Engineering. Minor: Mathematics. Thesis: A Study of Burgers' Model Equation of Turbulence.

**Ching-Cheng Shir, Ilan, Taiwan, China**

B.S. in Eng. '62, National Taiwan University (China). Major: Aeronautical Engineering. Minor: Mathematics. Thesis: The Lubrication of Porous Bearing.

## **Master of Science in Civil Engineering**

**Pinaki Ranjan Chakrabarti, Calcutta, India**

B.E. '61, Calcutta University (India). Field of Concentration: Civil Engineering.

**Paul Anthony Chapla, Allison Park, Pa.**

B.S. '62, United States Naval Academy. Field of Concentration: Civil Engineering.

**Chung-Ming Kuo, Taipei, Formosa, China**

B.Sc. '57, Taiwan Provincial Chen-Kung University (China). Field of Concentration: Civil Engineering.

**Kerwin Joseph Neuman, Superior, Wis.**

B.S. '63, Wisconsin State College (Platteville). Field of Concentration: Civil Engineering.

**Latifu Olasunkanmi Okunade, Ibadan, Nigeria**

B.C.E. '63, University of Minnesota. Field of Concentration: Civil Engineering.

**James Thomas Prather, Kansas City, Kan.**

B.S. '60, United States Naval Academy. Field of Concentration: Civil Engineering.

## Master of Science in Dermatology

Bruce Joseph Bart, Minneapolis

B.A. '58, B.S. '61, M.D. '61, University of Minnesota. Major: Dermatology. Minor: Genetics. Thesis: Congenital Absence of Skin, Blistering of Skin and Mucous Membranes and Abnormality of Nails; A New Syndrome: Report of a Kinship.

Robert Louis Coupe, Great Britain

M.B., Ch.B. '58, University of Liverpool (England). Major: Dermatology. Minor: Microbiology. Thesis: A Comparative Study of Fibroblastic Cells Derived From New-Born and Aged Donors: An Attempt to Demonstrate Cellular Aging by Tissue Culture Methods.

Edward Sylvester Peterka, Aurora

B.A. *magna cum laude* '58, B.S. '61, M.D. '61, University of Minnesota. Major: Dermatology. Minor: Anatomy. Thesis: Cutaneous Carbohydrate Studies.

## Master of Science in Electrical Engineering

LeRoy Harvey Anderson, Hopkins

B.S. with distinction '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise Properties of Zinc Oxide Single Crystals.

David Frederick Grimm, Owatonna

B.S. with distinction '63, University of Minnesota. Field of Concentration: Electrical Engineering.

Lawrence Charles Knaff, St. Paul

B.S. '63, University of Minnesota. Field of Concentration: Electrical Engineering.

## Master of Science in Industrial Engineering

Mehar Chand Arora, New Delhi,  
India

B.A. '49, University of Delhi; M.A. '52, Panjab University (India). Field of Concentration: Industrial Engineering.

## Master of Science in Mechanical Engineering

Roger Alan Paulson, Montevideo

B.M.E. '61, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Thesis: Studies Related to the Development of a Multiple Start-Stop Solid Propellant Rocket Motor.

## Master of Science in Obstetrics and Gynecology

Paul Alan Jensen, Minneapolis

B.A. '55, University of South Dakota; M.D. '57, University of Minnesota. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: Stromal Endometriosis (A Clinical and Pathologic Study).

Richard Stitzel Sheldon, Rochester

B.A. '55, M.D. '59, State University of Iowa. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: Serosal Endometriosis of the Fallopian Tubes.

## **Master of Science in Otolaryngology**

Trevor Erwin Mabery, Weatherford,  
Tex.

B.S. '57, Baylor University; M.D. '60, Southwestern University. Major: Otolaryngology. Minor: Pathology. Thesis: The Relationship of Wegener's Granulomatosis to Lethal Mid-Line Granuloma: A Clinical and Pathological Study.

## **Master of Science in Physical Therapy**

Jean Louise Heath, Paris, Ill.

B.S. with honors '54, University of Illinois. Major: Physical Therapy. Minor: Anatomy. Thesis: A Study of the Effects of Heat on the Rate of Absorption of Blood Pigments From Rabbit Muscle Following Trauma.

## **Master of Science in Plastic Surgery**

Fawzi Nicola Abujamra, El-Kfeir,  
Lebanon

B.A. '54, M.D. '58, American University of Beirut (Lebanon). Major: Plastic Surgery. Minor: Pathology. Thesis: Tumors of the Upper Lip.

## **Master of Science in Psychiatry**

Herbert William Peterson, Jr., San  
Francisco, Calif.

B.A. '55, University of Minnesota; M.D. '58, Creighton University. Major: Psychiatry. Minor: Basic Neurologic Sciences. Thesis: Psychogenic Aphonia.

## **Master of Social Work**

Mary Adorine Maloy, Dubuque, Iowa

B.A. '51, Clarke College. Field of Concentration: Social Work.

Nancy Lea McParlan, Duluth

B.A. '57, University of Minnesota. Field of Concentration: Social Work.

Jeanette Marie Flury Ziegler, Mankato

B.A. '60, Gustavus Adolphus College. Field of Concentration: Social Work.

## **Certificate of Specialist in Education**

Robert George Cory, Rochester

B.A. '51, University of Denver; M.S. '55, Mankato State College. Field of Concentration: Elementary School Administration.

Stuart Samuel Dansinger, Duluth

B.A. '60, M.A. '63, University of Minnesota. Field of Concentration: School Psychological Services.

Donald Berends Hanson, Minneapolis

B.S. '54, M.A. '59, University of Minnesota. Field of Concentration: Counseling.

## Doctor of Philosophy

Stuart Sheldon Antman, Rockville  
Centre, N.Y.

B.S. '61, Rensselaer Polytechnic Institute;  
M.S. '63, University of Minnesota. Major:  
Mechanics and Materials. Minor: Mathematics.  
Thesis: Dynamical Theory of Hyperelastic  
Rods. Major Adviser: Prof. W. H. Warner.

Jonathan Langer Bass, Yonkers, N.Y.

B.S. '59, University of Rochester. Major:  
Physical Chemistry. Minor: Mathematics. The-  
sis: Attenuated Total Reflection Spectra of  
Crystals. Major Adviser: Prof. B. L. Crawford,  
Jr.

Rudolph Barton Berryman, Minne-  
apolis

B.A. '50, University of Omaha; M.A. '52,  
University of Minnesota. Major: Education.  
Minor: Music. Thesis: Two Methods of Musi-  
cal Stylistic Analysis: An Experimental Evalua-  
tion. Major Adviser: Prof. P. S. Ivory.

David Carl Bjorkquist, Centre Hall,  
Pa.

B.S. '56, M.S. '57, Iowa State University.  
Major: Education. Minor: Educational Psy-  
chology. Thesis: Discrimination Transfer From  
Scale Models and Pictorial Drawings in Learn-  
ing Orthographic Projection. Major Adviser:  
Prof. H. F. Nelson.

Andrew Buck Bond, Brownsville,  
Tenn.

B.S. '48, M.S. '54, Tennessee State University.  
Major: Biochemistry. Minor: Microbiology.  
Thesis: The Sugars and the Alpha-1,4-Glucosi-  
dases of Germinating Corn. Major Adviser:  
Prof. R. L. Glass.

Ronald Chester Bounous, Hardin,  
Mont.

B.A. *cum laude* '58, M.S.W. '58, University  
of Minnesota. Major: Social Work. Minor:  
Sociology. Thesis: A Study of Client and  
Worker Perceptions in the Initial Phase of  
Casework Marital Counseling. Major Adviser:  
Prof. E. W. Francel.

Robert Paul Burchard, Florham Park,  
N.J.

B.A. *cum laude* '60, M.S. '62, Brown Univer-  
sity. Major: Microbiology. Minor: Zoology.  
Thesis: Light-Induced Lysis and Carotenoid  
Synthesis in *Myxococcus Xanthus*. Major Ad-  
viser: Dr. Martin Dworkin.

Mildred L. Byrum, Minneapolis

B.A. '55, University of Minnesota. Major:  
Psychology. Minor: Child Psychology. Thesis:  
Mother-Child Interaction in Test Anxious  
Boys. Major Adviser: Prof. R. D. Wirt.

Thomas Edward Carroll, Coral  
Gables, Fla.

B.A. with honors '56, Indiana University;  
M.A. '58, University of Minnesota. Major:  
Sociology. Minor: Political Science. Thesis:  
How the Punishment Fits the Crime: The  
Criteria of Sentencing Used by Criminal Court  
Judges, Dade County, Florida. Major Adviser:  
Prof. D. A. Martindale.

Dong Hak Chyung, Seoul, Korea

B.S. in Eng. '59, Seoul National University  
(Korea); M.S.E.E. '61, University of Minne-  
sota. Major: Electrical Engineering. Minor:  
Mathematics. Thesis: The Theory of Optimal  
Control for Systems with Time Delay. Major  
Adviser: Prof. E. B. Lee.

John Joseph Dunn, Mitchell, S.D.

B.A. *summa cum laude* '53, St. John's Uni-  
versity; M.A. '56, University of Minnesota.  
Major: English. Minor: Philosophy. Thesis:  
Nature and Love Imagery in the Poetry of  
Coventry Patmore. Major Adviser: Prof. G.  
R. Stange.

Frank Henry Epp, Winnipeg, Mani-  
toba, Canada

B.A. '56, Bethel College; M.A. '60, University  
of Minnesota. Major: Journalism. Minor: His-  
tory. Thesis: An Analysis of Germanism and  
National Socialism in the Immigrant News-  
paper of a Canadian Minority Group, The  
Mennonites, in the 1930s. Major Adviser:  
Prof. R. E. Carter, Jr.

Robert Charles Fitzsimmons, Clark-  
ston, Wash.

B.S. in Agric. '58, Washington State Univer-  
sity; M.S. '60, University of Minnesota. Major:  
Poultry Science. Minor: Biochemistry. Thesis:  
Amino Acid Composition and Metabolic Inter-  
relationships in the Avian Embryo. Major  
Adviser: Prof. P. E. Waibel.

Charles F. Galway, Toronto, Ontario,  
Canada

M.D., C.M. '34, Queens University; M.S. in  
Anesthesiology '58, University of Minnesota.  
Major: Pharmacology. Minor: Physiology. The-  
sis: The Effects of Acidosis and Alkalosis on  
the Cardiac Fibrillation Threshold in the In-  
tact Dog. Major Adviser: Dr. H. N. G.  
Wright.

Reed Glenn Geiger, Newark, Del.

B.A. '54, College of Wooster; M.A. '57, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Anzin Company: The History of a French Coal Mining Firm, 1800-1833. Major Adviser: Prof. W. E. Wright.

Paul Frederick Guehler, Somonauk, Ill.

B.A. '60, Augustana College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Transformations of Steroids by Algae. Major Adviser: Prof. R. M. Dodson.

Raymond Najib Habiby, Lebanon

B.A. '41, American University of Beirut (Lebanon); Diploma '46, Government Law School (Palestine); M.A.P.A. '63, University of Minnesota. Major: International Relations. Thesis: Problems of Loyalty of United Nations Personnel. Major Adviser: Prof. C. H. McLaughlin.

Yusuf Jamal Husain, Karachi, Pakistan

B.A.(Hons) '44, M.A. '47, Calcutta University (India); M.A. '53, University of Minnesota. Major: English. Minor: Art. Thesis: Edith Sitwell in the Symbolist Tradition. Major Adviser: Prof. Allen Tate.

Shukry Kamel Ibrahim, Cairo, Egypt,  
United Arab Republic

B.E.E.(Hons) '38, Cairo University (Egypt); Diploma '45, University of London. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Apparent Added Mass and Moment of Inertia of Cup-Shaped Bodies in Unsteady Incompressible Flow. Major Adviser: Prof. H. G. Heinrich.

Niles Henry Jefferson, Minneapolis

B.S. in Educ. '46, Moorhead State College; M.S. '53, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: The Biology of *Trypanosoma Chrysemidis* Roudabush and Coatney. Major Adviser: Prof. F. G. Wallace.

Roy Allen Johnson, Solway

B.Ch. '59, University of Minnesota; M.Sc. '61, University of British Columbia. Major: Organic Chemistry. Minor: Physiological Chemistry. Thesis: Phenanthridinones From Condensation of Indole-3-Fumarates with Acetylenic Carbonyl Compounds. Major Adviser: Prof. W. E. Noland.

William Lee Jordan, Aberdeen, S.D.

B.S. '54, M.S. '58, Northern State Teachers College. Major: Education. Minor: Educational Administration. Thesis: The Results of Speed and Accuracy Emphases on the Learning of a Selected Motor Skill in Golf. Major Adviser: Prof. R. J. Donnelly.

Robert Allin Kolstad, Albert Lea

B.S. '60, M.S. '62, University of Minnesota. Major: Microbiology. Minor: Genetics. Thesis: Studies on Actinophage for *Streptomyces Venezuelae*: Growth and Characterization. Major Adviser: Dr. S. G. Bradley.

Jesse Kay Lair, St. Paul

B.A. '48, M.A. '64, University of Minnesota. Major: Psychology. Minor: Journalism. Thesis: Splitsville: A Split-Half Study of Television Commercial Pretesting. Major Adviser: Prof. H. P. Longstaff.

George Stanwood Lamb, Minneapolis

B.A. '50, Macalester College; M.A. '60, University of Washington. Major: Education. Minor: Educational Psychology. Thesis: The Effect of Verbal Cues Upon Second and Third Grade Pupils' Responses on a Group Reading Test. Major Adviser: Prof. T. W. Clymer.

David Michael Long, Jr., Minneapolis

B.S. *cum laude* '51, Muhlenberg College; M.S. '54, M.D. '56, Hahnemann Medical College. Major: Physiology. Minor: Anatomy. Thesis: Some Effects of Temporary Pulmonary Arterial Ischemia. Major Adviser: Dr. M. B. Visscher.

Margaret Helene Mahoney, Great Falls, Mont.

B.A. '53, College of Great Falls; M.A. '55, University of Minnesota. Major: History. Minor: Classical Civilization. Thesis: A Study in Sumerian Administrative History of the Third Ur Dynasty. Major Adviser: Prof. T. B. Jones.

Milton Andrew Mays, Seattle, Wash.

B.A. '50, Tulane University; M.A. '57, University of London. Major: English. Minor: Art. Thesis: Uptown and Downtown in Henry James's America: Sexuality in the Business-Society. Major Adviser: Prof. Bernard Bowron.

Roy Charles Milton, St. Paul

B.A. *magna cum laude* '55, M.A. '63, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: Exact Properties of Rank Order Procedures Under Normal Shift Alternatives. Major Adviser: Prof. Milton Sobel.

Simon Michael Namenwirth, Amsterdam, The Netherlands

'57, Music Lyceum of Amsterdam (The Netherlands). Major: Music. Minor: French. Thesis: Twenty Years of Schoenberg Criticism: Changes in the Evaluation of Once Unfamiliar Music. Major Adviser: Prof. Johannes Riedel.

Owen Lloyd Nelson, International Falls

B.S. with distinction '57, M.S.E.E. '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Studies of Potential Barrier Parameters in Thin Film Metal-Oxide-Metal Devices. Major Adviser: Prof. D. E. Anderson.

Warren Howard Pepperdine, Boise, Idaho

B.A. '55, M.A. '56, University of Minnesota. Major: Speech and Theatre Arts. Minor: Music. Thesis: *On Lucha por la vida, The Struggle for Life in Three Plays of Miguel de Unamuno*. Major Adviser: Prof. K. L. Graham.

Larry Evan Roberts, Minneapolis

B.A. *magna cum laude* '60, University of Minnesota. Major: Psychology. Minor: Genetics. Thesis: A Methodological Study of the Effects of Electric Shock Stimulation in the Mouse. Major Adviser: Prof. D. T. Lykken.

Frank Ambrose Rose, Ayr, N.D.

B.S. '54, North Dakota State University; M.S. '60, University of Minnesota. Major: Dairy Husbandry. Minors: Animal Husbandry and Genetics. Thesis: Heritability of Persistency and the Genetic Relationship of Persistency with Production Traits. Major Adviser: Prof. C. L. Cole.

Robert Leroy Rosholt, Wooster, Ohio

B.A. *magna cum laude* '51, Luther College; M.A.P.A. '52, University of Minnesota. Major: Political Science. Minor: Economics. Thesis: Organizing the United States Civilian Space Effort: A Study of the National Aeronautics and Space Administration with Special Emphasis on Structural Change and Program Coordination. Major Adviser: Prof. L. M. Short.

Lyman Tower Sargent, Rochester

B.A. '61, Macalester College; M.A. '62, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Relationship Between Political Philosophy and Political Ideology: A Study of Etienne Cabet and His Communitarian Experiments. Major Adviser: Prof. M. Q. Sibley.

Terence Joseph Scallen, St. Paul

B.S. *cum laude* '57, College of St. Thomas; M.D. '61, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Chemical Synthesis of Cholesta-5,7,24-Trien-3 $\beta$ -OL and Demonstration of Its Conversion to Cholesterol in the Rat. Major Adviser: Dr. Ivan Frantz.

Marvin Ernest Seale, Winnipeg, Manitoba, Canada

B.Sc. in Agric. '48, University of Alberta; M.S. '51, University of Minnesota. Major: Animal Husbandry. Minor: Genetics. Thesis: The Inheritance of Growth Rate in Purebred and Crossbred Lambs. Major Adviser: Prof. R. E. Comstock.

Aletha Huston Stein, Long Beach, Calif.

B.A. with great distinction '60, Stanford University; M.A. '62, University of Minnesota. Major: Psychology. Minor: Child Psychology. Thesis: Imitation of Resistance to Temptation. Major Advisers: Profs. A. J. Hafner and J. C. Wright.

Harry Hart Stein, Minneapolis

B.A. '59, Antioch College; M.A. '62, University of Nebraska. Major: History. Minor: Political Science. Thesis: Lincoln Steffens: An Intellectual Portrait. Major Adviser: Prof. N. R. Amundson.

John Warren Vanderveen, Mount Vernon, N.Y.

B.S.Ch.E. '60, M.S. '61, University of Nebraska. Major: Chemical Engineering. Minor: Mathematics. Thesis: Mathematical Models of an Adiabatic Fixed Bed Reactor. Major Adviser: Prof. N. R. Amundson.

John Abram Voth, Morden, Manitoba, Canada

B.A. '55, B.Ed. '57, M.Ed. '59, University of Manitoba. Major: Education. Minor: Educational Psychology. Thesis: Dogmatism and Test Performance Relationships of Doctoral Graduates in Education. Major Adviser: Prof. C. P. Hooker.

Burton Jasper Weber, St. Louis, Mo.

B.A. '55, Washington University; M.A. '58, University of Minnesota. Major: English. Minor: Latin. Thesis: *The Construction of Paradise Lost*. Major Adviser: Prof. L. H. Ungar.



Emil Frederick Wilken, Buffalo  
B.Ed. '39, St. Cloud State College; M.A. '51,  
Sp.Ed. '59, University of Minnesota. Major:  
Educational Administration. Minor: Education.  
Thesis: An Analysis of the Total Local Prop-  
erty Tax Effort in Regard to the Support of  
Schools and Nonschool Governmental Units.  
Major Adviser: Prof. O. E. Domian.

Lawrence Ernest Williams, Youngs-  
town, Ohio  
B.S. in Phys. '59, Carnegie Institute of Tech-  
nology; M.S. '62, University of Minnesota.  
Major: Physics. Minor: Mathematics. Thesis:  
Inelastic Protons From He<sup>+</sup>. Major Adviser:  
Prof. J. H. Williams.

### **Doctor of Philosophy in Medicine**

Michael Stanley Gordon, Chicago, Ill.  
B.S. '61, M.D. '61, M.S. '61, University of  
Illinois. Major: Medicine. Minor: Pathology.  
Thesis: Effect of Ouabain and Calcium on  
Myofibrillar ATPase Activity of Postmortem  
and Surgical Human Heart Tissue in Conges-  
tive Failure. Major Adviser: Dr. H. B. Burchell.

### **Doctor of Philosophy in Surgery**

Raymond Clemens Doberneck, Min-  
neapolis  
B.S. '53, M.D. '56, Marquette University.  
Major: Surgery. Minor: Pathology. Thesis:  
The Relationship of the Pancreas to Peptic  
Ulceration: An Experimental Study. Major  
Adviser: Dr. O. H. Wangensteen.

# 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 near the upper part of 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

Institute of Technology .....	orange
College of Agriculture, Forestry, and Home Economics .....	maize
College of Education .....	light blue
School of Business Administration .....	drab
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 Intercollegiate Bureau of Academic Costume. This means that 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, 1965**

- 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 on the terrace of the Coffman Memorial Union. In case of rain, the ballroom will be used. Refreshments will be served.
- Those in the receiving line will be President and Mrs. Wilson; Dr. and Mrs. Helland; Vice President Emeritus and Mrs. Middlebrook; Mr. R. Walter Bachman, Jr., President, Minnesota Student Association; and Mr. Sheldon Gulinson, Vice President, Coffman Union Board of Governors.
- Assisting in the Reception are students and staff members, including those from the Senate Committee on University Functions, the Minnesota Student Association, the Union Board of Governors, the Army ROTC, and the Department of University Relations. Representatives from the following honorary societies have been invited: Arrowhead, Chimes, Grey Friars, Iron Wedge, and Mortar Board.



UNIVERSITY OF MINNESOTA

*August Commencement, 1965*

FRIDAY AFTERNOON, AUGUST 20, 4:00 P.M.

NORTHROP MEMORIAL AUDITORIUM

# *The Board of Regents* ---

The Honorable Charles W. Mayo, M.D., Rochester  
First Vice President and Chairman

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhorst, Olivia

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, 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 fourteenth 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 we offer preparation. Since its founding, the University has awarded more than 183,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 38,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, 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, the Hormel Institute at Austin, and at 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 pos-

sible 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 biological-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 38,403 students who enrolled at the University at the beginning of the 1964-1965 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 will institute an admissions policy based on controlled growth of total enrollment. This change in admissions requirements will hold the 1965-1966 enrollment to about 42,000 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 1965 LEGISLATURE granted the University \$81,300,000 for general operations and maintenance during the 1965-1967 biennium. In addition, the University received \$9,083,223 for University Hospitals; \$6,833,887 for special appropriations, including special extension and research activities; \$15,820,656 for new buildings, land, and the rehabilitation of existing buildings; and \$1,240,000 for the University of Minnesota, Morris.

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 1963-1964 showed that the University's current income and expenditures amounted to \$120,996,183.65. Of the total received, \$11,695,702.92 came from student tuition and fees; \$15,601,446.97 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; \$1,597,684.93 from intercollegiate athletics; \$17,881,472.49 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 \$8,117,653.39 from corporations, foundations, individuals, and endowment income for instruction, research,



prizes, scholarships, and the care of the sick. Also \$26,591,688.27 came from the federal government for instruction, research, and agricultural extension. The state provided \$39,510,534.68 or 32.7 per cent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$10,134,063.

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 various Special Project Programs, including scholarships, medical and technological research, and college service funds, which are 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

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**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 Miss Nancy Hughes, Graduate Student, 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.

**ORGAN PRELUDE:** From 3:30 to 4:00 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 4:00 p.m., Professor David K. Berninghausen, M.A., College of Liberal Arts, Faculty Marshal, will carry the Mace into the auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Berninghausen 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 on the table to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

*Trumpet Voluntary in D Major* - - - - - Purcell

**ON THE STAGE:** The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are Marshal Berninghausen; Professor John Stecklein, Ph.D., Bureau of Institutional Research, Marshal; Assistant to the Recorder Charles F. Liesenfelt, M.S., Admissions and Records; Professor Roy A. Schuessler, M.M., College of Liberal Arts; Captain James F. Iaconis, U.S.A., Assistant Professor of Military Science; Professor John Blackmore, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Assistant Dean Stephen G. Granger, Ph.D., University of Minnesota, Morris; Associate Dean John R. Borchert, Ph.D., Graduate School; Associate Dean Alfred L. Vaughan, Ph.D., University College; Dean William B. Lockhart, S.J.D., Law School; Dean Horace T. Morse, Ph.D., General College; Rabbi Louis Milgrom, B.S., Director of the B'nai B'rith Hillel Foundation on the Minneapolis Campus; The Honorable Bjarne E. Grottum, Regent of the University of Minnesota; Dr. George F. Budd, Ed.D., President of Saint Cloud State College, Commencement Speaker; Vice President William G. Shepherd, Ph.D., Academic Administration; Assistant Vice President Paul H. Cashman, Ph.D., Educational Relationships and Development; The Honorable Marjorie J. Howard, Regent of the University of Minnesota; The Honorable George W.

Rauenhorst, Regent of the University of Minnesota; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Dean Robert J. Keller, Ph.D., College of Education; Assistant Dean J. Stanley Barlow, Ph.D., Summer Session; Associate Dean Frank Verbrugge, Ph.D., Institute of Technology; Commander Edward O. Dietrich, U.S.N., Associate Professor of Naval Science; Associate Dean N. L. Gault, Jr., M.D., College of Medical Sciences; Captain John J. Denice, U.S.A.F., Assistant Professor of Aerospace Studies; Professor Nicholas A. Glaskowsky, Ph.D., School of Business Administration; Mr. Edwin A. Willson, B.E.E., President of the Minnesota Alumni Association; Professor James L. Hetland, LL.B., Law School, Marshal; Professor Edward Silberman, M.S., Institute of Technology, 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 remain standing for the National Anthem and the Invocation.

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

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:** Rabbi Milgrom.

**SPEAKING FOR THE UNIVERSITY:** Vice President Shepherd.

**COMMENCEMENT ADDRESS:** Dr. Budd, "The Limits of Freedom."

**CONFERRING OF ROTC CERTIFICATES:** Dr. Cashman will introduce Captain Iaconis, Commander Dietrich, and Captain Johnson, 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:** Dr. 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 Morse for the General College; Dean Ziebarth for the College of Liberal Arts; Associate Dean Vaughan for the University College; Assistant Dean Granger for the University of Minnesota, Morris; Associate Dean Verbrugge for the Institute of Technology; Professor Blackmore for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Keller for the College of Education; Professor Glaskowsky, for the School of Business Administration; Dean Lockhart for the Law School; Associate Dean Gault for the College of Medical Sciences; Associate Dean Borchert for the 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. Willson.

**PRESENTATION OF DIPLOMAS:** With Assistant Dean Barlow 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 Associate Dean Borchert.

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

*Phantasy in G Major* - - - - - Bach

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

# *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 as indicated on those listed below and upon such others as may meet the requirements for the Reserve Officers in the Armed Services.

## **DEPARTMENT OF MILITARY SCIENCE**

### **Second Lieutenant, Artillery**

James R. Larson, Minneapolis

Ivar E. Siqveld, St. Paul

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

William F. Wanner, Minneapolis

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

Cameron F. Hinke, Minneapolis

## **DEPARTMENT OF NAVAL SCIENCE**

### **Ensign, USNR**

Herbert F. Clark, Livingston, N.J.

## **DEPARTMENT OF AEROSPACE STUDIES**

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

Paul J. Seiler, 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 COLLEGE

### Associate in Arts

Delwin Duane Francis, Pipestone	Thiel Kent Reinecke, Hato Rey, Puerto Rico
John Henry Honour VII, Minneapolis	Edward Jean Rico, Minneapolis
Daniel Dwight Houlton, Minneapolis	Michael James Ripley, St. Paul
Lawrence John Huttle, St. Paul	Richard George Sanders, Minneapolis
Adrienne Rene Kessel, St. Paul	Mary Ann Schaber, Lindstrom
Ronald Emil Kovacik, Minneapolis	Kenneth James Smith, Minneapolis
Albert Lawrence Leitschuh, Minneapolis	Diane Marie Spielmann, Minneapolis
William Melvin Lundberg, Minneapolis	Kenneth Richard Stangenes, St. Paul
Mathew George Murphy, St. Paul	Charles Allen Taylor, Minneapolis
Leon Randolph Olson, Fosston	Darryl Alan Trangsrud, Minnetonka
Barton Edward Pulverman, Los Angeles, Calif.	Roger Reed Truen, St. Paul
	Lorraine Ann Vaughan, St. Paul
	Carol Lee Whiteman, Excelsior

## COLLEGE OF LIBERAL ARTS

### Associate in Liberal Arts

Dorothy Jo Stoffer Broms, St. Paul	Lynn Roxane Johnson, Minneapolis
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### Bachelor of Arts

James Edward Akenson, Minneapolis	Linda Wilson Bachelder, Minneapolis
Martha Jean Alderson, Minneapolis	Donald Charles Bacig, St. Paul
David Michael Anderson, Minneapolis	Frank Allison Barnard, Benson
Judy Kay Anderson, Minneapolis	Delores Ann Berg, Minneapolis
<i>Kristin Smith Angell, Portland, Ore., SUMMA CUM LAUDE</i>	Paul Richard Bergh, St. Charles
Claudette A. Robertson Aras, Minneapolis	Cynthia Helen Bjorklund, Minneapolis
Thomas Blake Auran, Hopkins	Donald Howard Bruce, St. Paul
	<i>Jean M. Tilsen Brust, St. Paul, SUMMA CUM LAUDE</i>

Richard Wayne Carlson, Minneapolis  
 Jerould L. Chazen, St. Louis Park  
 William Emil Chindlund, St. Paul  
 Harriette Bekke Ching, Minneapolis  
 Herbert Forrester Clark, Livingston,  
 N.J., SUMMA CUM LAUDE  
 Michael John Coffey, St. Paul  
 Richard Warren Connell, A.A., Min-  
 neapolis  
 Carol Ann Correa, Edina  
 Walter Joseph Couture, St. Paul  
 Carolyn Marie Dahlman, Minneapolis  
 Rollin Randolph Davis, Eagle Bend  
 Maxine Kirst Dilliard, St. Paul  
 Sharon Michele Dixon, St. Paul  
 Linda Louise Elliott, Minneapolis  
 Ann Louise Fenger, Edina  
 Morley Spencer Frantzick, Little Falls  
 Noemi Friedlander, Minneapolis  
 Donald Richard Gearhart, Jr., A.M.S.,  
 Minneapolis  
 Thomas Frederick Germain, Albany,  
 N.Y.  
 Donald Limond Gerrish, Minneapolis  
 Florence Mary Ginnaty, St. Paul  
 Suellen Glickman, Minneapolis  
 Linda Gurley, Bloomington  
 Virginia Lou Haaland, Frost  
 Robert John Halverson, A.A., Minne-  
 apolis  
 Bruce Eugene Hanson, St. Paul  
 Gary Kay Hanson, Bricelyn  
 Dentley Meloy Haugesag, Minne-  
 apolis, SUMMA CUM LAUDE  
 Peter Ludwig Hauser, Minneapolis  
 Marjorie Ann Hechtl, St. Paul  
 Selma Jeanne Heideman, Mahtomedi  
 Dan Richard Herrmann, Minneapolis  
 Louis Adams Hesse, Minneapolis  
 Susan Marie Howard, Winona  
 James Robert Jestus, Stewartville  
 Douglas Hilding Johnson, Duluth  
 Kenneth Kay Kelly, Jr., A.A., Austin  
 Pamela Jane King, Minneapolis  
 Joseph John Kuznik, Ely  
 Daniel Clayton Larson, Wabasha  
 Yvonne Pauline Larson, St. Louis Park  
 Anne Elizabeth Lee, Minneapolis  
 James Paul Le Gare, Minneapolis  
 Patricia Ann Lipetzky, Springfield  
 Frema Jane Lipschultz, St. Paul

Vaughn Martin Lueck, Minneapolis  
 Kristofer Torsten Lund, Mankato  
 George Howard Lundquist, Willmar  
 Lucretia Ann Mallory, Caledonia  
 Franklin Hammond Martin, St. Paul  
 John Harold Martinson, Brainerd  
 Michael Douglass McCulley, New  
 Orleans, La.  
 Mancel Talcott Mitchell, Jr., Minne-  
 apolis  
 Kenneth Elmo Moen, Minneapolis  
 Nancy Carolyn Moll, St. Paul  
 Stanley James Monson, Minneapolis  
 Robert Hans Mumm, Minneapolis  
 James Gary Myron, Mankato  
 Marilyn Ann Nelson, Minneapolis  
 Joseph Clifford Oliver, Kansas City,  
 Kan.  
 Richard Gordon Olsen, Minneapolis  
 Frederick Clarence Olson, Interna-  
 tional Falls  
 Rollance Edgar Olson, Cyrus  
 Verlyn Eddie Olson, Benson  
 Marlys Jean Otto, St. Paul  
 Jack Dean Parson, Ferguson, Mo.  
 Janet Frances Pawlak, Detroit Lakes  
 David Henry Pearlman, White Bear  
 Lake  
 Charles Herbert Pieper, Greenwood  
 Patricia Ann Pierre, Mahtomedi  
 Gerald Burton Pogoriler, St. Paul,  
 MAGNA CUM LAUDE  
 Peter Frederick Quirk, Minneapolis  
 Philip Martin Raup, Jr., St. Paul  
 Georganne Charolette Rentas, Minne-  
 apolis  
 Judith Jean Adkins Riese, Mendota  
 Heights  
 William Edward Roach, Faribault  
 Ronald Edward Rogosheske, St. Cloud  
 Gary Michael Rubin, Minneapolis  
 Gary Thomas Sanford, St. Louis Park  
 John Robert Schell, Delafield, Wis.  
 Sue Ann Schmidt, Minneapolis  
 Theresa Mary Halley Schultz, Prince-  
 ton  
 Sandra Sue Schulz, St. Paul  
 Richard George Seemann, Minne-  
 apolis  
 Paul Jerome Seiler, Minneapolis  
 John Edwin Selck, Lake City

Clyde Sever Severson, Minneapolis  
Barbara Harriet Soretsky, New York,  
N.Y.  
David William Southward, Minne-  
apolis  
Sondra Dee Spencer Steffenhagen,  
Winona  
Thomas Roy Sternal, Minneapolis  
Richard Wendell Strandberg, North  
St. Paul  
Elsie Lucille Stricklen, Minnetonka  
James Ray Swenson, Anoka  
Theodore Frederick Swift, A.M.S.,  
Saginaw, Mich.  
William Wirsen Sylte, Minneapolis  
Robert Perry Sylvester, St. Paul  
George William Terhune, Winne-  
bago

John David Thomas, St. Paul  
Faye Emilie Thorson, St. Paul  
Nancy Lee Trigg, A.A., Edina  
Milton Don Ulmer, Hosmer, S.D.  
Judith Marilyn Graf Veeder, Truman  
Glen Robert Walters, Minneapolis  
Diana Lois Warp, Minneapolis  
Roy Douglas Wegner, Minneapolis  
Patrick Francis Wells, St. Paul  
Robert Nixon Williams, Minneapolis  
Lera Lou Genevieve Wolner, Minne-  
apolis  
Steven Eugene Woolley, Edina  
Sally Ann Van Sickle Yaeger,  
Rochester  
Sara L. Zeece, Clinton, Iowa, *SUMMA*  
*CUM LAUDE*  
Burl Allen J. Zorn, Minneapolis

## UNIVERSITY COLLEGE

### Bachelor of Arts

Colleen Bernice M. Wicklund, Minneapolis

## UNIVERSITY OF MINNESOTA, MORRIS

### Bachelor of Arts

James Allan Carlson, St. Cloud  
Alan Morris Greig, Marshall  
Haakon Bruce Lie, Morris

Stuart John Starner, Hoffman  
Michael Patrick Thomas, Virginia

## INSTITUTE OF TECHNOLOGY

### Bachelor of Science

Thomas Richard Damiani, St. Paul  
Gene Warren Jorgensen, *Dunnell*,  
WITH DISTINCTION  
Bahram Mozayeny, Tehran, Iran  
Donald Louis Norrell, *Minneapolis*,  
WITH DISTINCTION\*  
John A. Palyvos, Athens, Greece,  
WITH DISTINCTION\*

Dan Frazier Patch, *Duluth*, WITH  
HIGH DISTINCTION\*  
William Paul Schopmeyer, *Mound*,  
WITH HIGH DISTINCTION  
Robert Oscar Straughn III, *Golden*  
*Valley*  
Gary John Stroebel, *Mapleton*, WITH  
HIGH DISTINCTION

\* Degree conferred as of June 12, 1965.



## **Bachelor of Architecture**

Michael Francis Gebhart, Minneapolis      Zephyrinus Chukwuemeka Ikejiofor,  
B.A., Lagos, Nigeria

## **Bachelor of Chemical Engineering**

Gilbert Bruce Overson, Minneapolis      Wayne Douglas Pinkston, Minneapolis

## **Bachelor of Chemistry**

Lawrence Thaddeus Larek, Rochester

## **Bachelor of Civil Engineering**

Thomas Michael Dawes, Robbinsdale      Dennis Arvid Nelson, Mahtomedi  
Patrick Coover Hughes, Hamel      Richard Brooks Robinson, Minne-  
James Owen Murphy, B.Min.E.,      apolis  
Waseca      Kenneth Roman Saffert, New Ulm

## **Bachelor of Electrical Engineering**

Warren Spencer Farstad, Minneapolis      William H. Gollwitzer, Truman

## **Bachelor of Geological Engineering**

Robert Bruce Cairns, Waukegan, Ill.

## **Bachelor of Geophysics**

Richard Claude Benson, Minneapolis

## **Bachelor of Mathematics**

*James Edward Frykman, Bottineau, N.D., WITH DISTINCTION*

## **Bachelor of Mechanical Engineering**

Robert Joseph Hart, Austin      Andrew George Wright, International  
John Robert Sjolund, Minneapolis      Falls  
James Douglas Walker, Hibbing

## **Bachelor of Metallurgical Engineering**

Peter Charles Hakanson, Minneapolis

## **Bachelor of Physics**

*David Jacob Schoon, Luverne, WITH DISTINCTION*

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

## Bachelor of Science

Sharon Marie Blackburn, Park Rapids, Home Economics	George Durwin Koenig, Minneapolis, Forestry
Janet Louise Cole, A.A., Austin, Home Economics	Armand Ronald Tjong-A-Hung, Para- maribo, Surinam, Agriculture

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

## Bachelor of Science

Judith Treichel Gammel, St. Paul, Home Economics Education	Loretta Kay Hanson, Anoka, Home Economics Education
Mary Jeanne Hallin, Hopkins, Home Economics Education	Marjory Lou Larson, Roseau, 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

Curtis Allen Armstrong, New Rich- land	Leland Dale Torgerson, Staples
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# COLLEGE OF EDUCATION

## Bachelor of Science

Cheri Arlene Albers, Minneapolis	Herbert Benz, Roseville
Judith Karen Anderson, Anoka	Kathleen Diane Hess Betzold, North- field
Geraldine Wenzel Beer, St. Paul	Cleo Erickson Bloemendaal, Wayzata
Mary Katherine Behlen, Appleton, WITH DISTINCTION	Bonnie Lee Blomgren, Tyler

Agnes Bobgan, Minneapolis  
 Susan Joette Brainerd, B.A., Minneapolis  
 Katherine Elizabeth Bruzek, Alexandria  
 Rebecca Ann Byhre, Richfield  
 Jeanette Hegg Chan, St. Paul  
 Dennis Edwin Copp, Minneapolis  
 Carol Susan Crowe, Dassel, WITH DISTINCTION  
 Ione Joyce Danner, Holt  
 Donald David Delvin, Minneapolis  
 Barbara Ann DeValerio, St. Paul  
 Glenn Roger Erickson, Minneapolis, WITH DISTINCTION  
 Richard Joseph Gahr, B.A., Minneapolis  
 Patricia Lee Geerdes, Richfield  
 Ilona Elizabeth Govrik, St. Paul  
 Sharon Lee Gren, Richfield  
 Beth McIver Hadley, Minneapolis  
 Katherine Vasecka Hebrink, Minneapolis  
 Lorraine Laura Hesley, St. Paul  
 Gloria Hedquist Hibbs, Coon Rapids  
 Helen Marie Hilger, St. Paul  
 Maxine Dorothy Hoopes, Minneapolis  
 Carol Ruth Hurlley, St. Paul  
 Karen Lea Hustad, B.A., Glenwood  
 Gloria Jean Itman, Minneapolis  
 Charlene Johnson Jassim, B.A., Minneapolis  
 Mary Ellen Stock Johnson, Fergus Falls  
 Diana Christine Smith Kamp, St. Louis Park, WITH DISTINCTION  
 Karen Lynn Kittler, Minneapolis  
 Audrey Mae Kuhnley, Minnetonka

Diana Louise Lace, Minneapolis  
 John Thomas Lieb, Faribault  
 Arlene Meredith Martin, Battle Lake  
 Violet May Parsons, St. Paul  
 Beatrice Pearson Passolt, Minneapolis  
 Carla Blake Paul, St. Paul, WITH DISTINCTION  
 Carl Richard Pedersen, Jr., Askov  
 Yvonne Ann Petersen, Minneapolis  
 Donald Robert Prescott, Princeton, WITH DISTINCTION  
 Gerald Duane Sauer, Richfield  
 Mary Ann Schell, Stevens Point, Wis.  
 Julia Marie Schillberg, B.A., Osceola, Wis.  
 Nancy Kay Schmitz, St. Paul  
 Sue Anne Severson, Minneapolis  
 Marian Kay Stoleson, Minneapolis  
 Judy Lynn Stolte, Minneapolis  
 Leslie Lee Swanson, B.A., St. Paul  
 Dorine Daniels Torke, Coon Rapids, WITH DISTINCTION  
 Virginia Lee Truen, St. Paul  
 Harold Allyn Ulseth, B.A., Minneapolis  
 Ruby Scott Van Horn, B.A., Minneapolis  
 Faith Gladys Vickerman, Hopkins, WITH HIGH DISTINCTION  
 William L. Warner, Jr., St. Paul  
 Gail Brice Cohen Weaver, B.A., University City, Mo.  
 Charlene Janet Wentz, Minneapolis  
 Carol Elaine Williams, Rochester  
 Charlotte Eleanore Winter, B.A., East Chicago, Ind.  
 Lera Lou Genevieve Wolner, Minneapolis, WITH DISTINCTION

## Master of Education

Margaret Ann Berg, B.S.N., St. Paul  
 Judith Lee Bergevin, B.S., Faribault  
 Phyllis Cipperley Blake, B.S.N., New Hope  
 Susan Woodard Broberg, B.S.N., Minneapolis  
 Mary Elizabeth Broderick, B.S.N., Minneapolis  
 Desmond Charles Brough, Hamilton, New Zealand

Beatrice Rae Byrne, B.S., Minneapolis  
 Rosalie Ann Morris Caffrey, B.S.N., Minneapolis  
 Elde Catherine Closway, A.A., B.S.N., Winona  
 Gail Comer Davis, B.S.N., Waco, Tex.  
 Bonnie Joan Ediger, B.S., St. Paul  
 Margaret Madson Elvin, B.S.N., Minneapolis

Carol Jean Flom, B.S.N., Minneapolis  
Grace Marie Frejlach, B.S., Minneapolis  
Laurence Allan Friedman, B.S., St. Paul  
Ralph Jerome Golberg, B.S., Duluth  
David Karl Gustafson, B.S., Minneapolis  
Lloyd Clifford Olson, Jr., B.S., Minneapolis

Elinor Skok Rothfork, B.S., Minneapolis  
Zelma Faye Scoville, B.S.N., Mitchell, S.D.  
Kenneth Charles Shaw, B.S., Atascadero, Calif.  
Thomas Neil Tarnowski, B.A., St. Paul  
Margaret Avis Woizeschke, B.S., Windom  
Frances Rose Wolbrink, B.S.N., Minneapolis

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Science in Business

Jerome Robert Bjurstrom, St. Paul  
Arthur Joseph Bourgeois, Rogers  
William Edward Christo, Minneapolis  
Dennis Lee Costello, Minneapolis  
Larry Richard Dardis, Milford, Iowa  
Terry Jay Dow, Minneapolis  
Michael Andrew Erickson, St. Paul  
Steven Rafael Gepner, Minneapolis  
Eric Odell Gunlogson, Clarkfield  
Irvin Henry Hankin, Minneapolis,

WITH DISTINCTION

Palmer A. Hults, Minneapolis  
Larry Allen Kilbride, Minneapolis  
Robert Willard Krinkie, St. Paul  
Loren Larry Law, Minneapolis  
Robert Orvel Linde, A.A., Minneapolis, WITH DISTINCTION  
Stuart Irving Marofsky, St. Paul  
Keith Edward Maxwell, Robbinsdale  
Robert William McGovern, Hopkins

Gary Albert Norton, St. Paul  
James Rebney Olsen, Minneapolis  
Dennis Marvin Palm, Minneapolis  
Charles Allan Parsons, Jr., Minneapolis  
Jeffrey Floyd Piper, St. Paul  
Michael Melvin Radtke, Minneapolis  
Richard Erwin Reiss, Minneapolis  
Frederick Wayne Schmeisser, Detroit Lakes

Theodore Sayle Sherr, Minneapolis,  
WITH DISTINCTION

Ivar Edward Sigveland III, St. Paul  
Thomas S. Stellick, Richfield  
Calvin Stewart Stilwell, St. Paul  
Paul William Sudmeier, Minneapolis  
William John Tomlinson, Minnetonka  
Robert Wilfrid Zender, St. James

### Bachelor of Science in Economics

Robert John Book, Jr., Edina  
Gerald Lee Johnson, St. Louis Park

Steven Virgil Larson, Robbinsdale  
Ronald Elwood Lohn, Willmar

## LAW SCHOOL

### Bachelor of Laws

Elliot Morton Cohen, B.A., Minneapolis

Judge Allen Dickson, B.A., Clairton, Pa.

# COLLEGE OF MEDICAL SCIENCES

## Bachelor of Science in Nursing

Audrey Jean Nethery, Faribault\*

## Bachelor of Science

Cathy Ortenstone Fritz, Fridley, Occupational Therapy, WITH DISTINCTION

Lois Patricia Hamblin, St. Paul, Medical Technology\*\*

Susan Howell Hanson, Beloit, Wis., Occupational Therapy, WITH DISTINCTION

Patricia Ann Montain, Minneapolis, Medical Technology\*\*

Sally Ann Stavn, Hibbing, Medical Technology\*\*

## Master of Nursing Administration

Mary Truelsen Aultfather, B.S., St. Paul

Ruth Aaberg Hassenpflug, B.S.N., Brookings, S.D.

Nellie J. Sommers, B.S., St. Paul

## Master of Public Health

Marion Jean Owen, B.S., Madison, Wis.

Stanley Duane Sorenson, B.S., Frost

Stella Setsuko Sugimoto, B.S.N., Paia, Maui, Hawaii

Mary Wong, B.S., San Francisco, Calif.

## Doctor of Medicine

Betty Jane Macnab, B.S., Finlayson

---

\* These degrees are conferred subject to the completion of nursing practice prior to December 18, 1965.

\*\* These degrees are conferred subject to the completion of practical work prior to December 18, 1965.

# GRADUATE SCHOOL

## Master of Arts

Bruce David Anderson, St. Paul

B.S. '55, University of Minnesota. Field of Concentration: Physical Education.

Gerald LeRoy Anderson, Duluth

B.S. '56, University of Minnesota. Field of Concentration: Educational Psychology.

Elaine Magnusson Argetsinger, Minneapolis

B.S. with distinction '40, University of Minnesota. Field of Concentration: Educational Psychology.

Richard Dean Arnold, Fullerton, Calif.

B.A. '60, University of California (Riverside). Field of Concentration: Curriculum and Instruction.

Robert William Ash, White Bear Lake

B.A. '56, B.S. '60, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Joseph Thomas Aubin, Virginia

B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.

David Edward Aune, Minneapolis

B.A. '61, M.A. with high honor '63, Wheaton College. Field of Concentration: Classical Civilization.

Maurcen Ann Austinson, St. Paul

B.S. with distinction '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Maripat King Bandt, Excelsior

B.S. with distinction '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Gene Raymond Bass, New Richmond, Wis.

B.S. '63, Wisconsin State College (Platteville). Field of Concentration: Agricultural Education.

Robert James Bauer, Mondovi, Wis.

B.S. '54, University of Minnesota. Field of Concentration: Music Education.

Raymond Duane Berg, International Falls

B.E. '50, Moorhead State College. Field of Concentration: Art Education.

Tim Gerald Bjella, Silver Bay

B.S. '57, Bemidji State College. Field of Concentration: Education.

James Earl Boren, Minneapolis

B.A. '35, College of Wooster. Field of Concentration: Curriculum and Instruction.

Charles Edward Brill, Minneapolis

B.A. '58, University of Minnesota. Field of Concentration: Journalism.

Alice Marie Brownlee, Minneapolis

B.S. '49, University of Minnesota. Field of Concentration: Educational Psychology.

Carolyn Ann Bryce, Eau Claire, Wis.

B.S. *cum laude* '57, Wisconsin State College (Eau Claire). Field of Concentration: Curriculum and Instruction.

Roger Henry Buranen, Tacoma, Wash.

B.S. '59, University of Minnesota. Field of Concentration: Industrial Education.

Jo Ann Burgess, Klemme, Iowa

B.A. '60, Colorado State College. Field of Concentration: Library Science.

Jeraldine W. Byrne, Chicago, Ill.

B.A. '63, University of Wisconsin. Field of Concentration: Library Science.

William Kenneth Campbell, Champlin

B.S. '59, University of Minnesota. Field of Concentration: Music Education.

Theodore Donald Carr, Wahpeton, N.D.

B.S.Educ. '56, University of North Dakota. Field of Concentration: Curriculum and Instruction.

Richard Ernest Carter, Two Harbors

B.S. '58, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Alice Mae Chelmo, St. Paul

B.S. '55, Wisconsin State College (Superior).  
Field of Concentration: Curriculum and Instruction.

Theodore Zinter Christensen, St. Paul

B.S. with distinction '51, M.Ed. '54, University of Minnesota. Field of Concentration: Educational Administration.

Ruth Dagman Curtis, Duluth

B.S. '54, Moorhead State College. Field of Concentration: Curriculum and Instruction.

Sister Mary Veronica Davison, Lady-smith, Wis.

B.S. '60, College of St. Scholastica. Field of Concentration: Music.

James Patrick Deane, Osseo

B.S.Phys.Ed. '55, College of St. Thomas. Field of Concentration: Physical Education.

Ted Gaylon Eastman, New Brighton

B.S. '55, St. Cloud State College. Field of Concentration: Music Education.

Warner Ellsworth Esterberg, Ely

B.S. '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Edward Samuel Evans, Jr., Hibbing

B.S. '58, St. Cloud State College. Field of Concentration: Education.

Faith Casebolt Ferguson, Kansas City, Mo.

B.A. '52, Central Missouri State College. Field of Concentration: American Studies.

Nancy Ruth Tufford Ferguson, Minneapolis

B.A. *cum laude* '59, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: Age-Mate and Non-Age-Mate Peers as Reinforcing Agents for Children's Performance.

George Robert Figy, Lansing, Mich.

B.A. '61, Michigan State University. Major: Geography. Minor: History. Thesis: Changes in the Recreational Use of a Metropolitan Fringe Lake: The Case of White Bear Lake, Minnesota.

Lyman Wayne Franzwa, Jr., Mondovi, Wis.

B.S. '57, Wisconsin State College (River Falls). Field of Concentration: Educational Administration.

Sister Mary Helen Frederick, St. Paul

B.A. '56, College of St. Catherine. Field of Concentration: Curriculum and Instruction.

Marvin Anthony Frein, Osage, Iowa

B.A. '56, College of St. Thomas. Field of Concentration: Educational Administration.

Lawrence Murray Friedenson, Duluth

B.S. '64, University of Minnesota. Field of Concentration: Education.

Melvin Ray George, Hopkins

B.S. with honors '59, M.S.Ed. '60, St. Cloud State College. Field of Concentration: Library Science.

Carl Robert Gerber, Bruce, Wis.

B.S. '50, Wisconsin State College (Eau Claire). Field of Concentration: Educational Administration.

Thomas Edward Gillach, Aurora

B.S. '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Sanford Williams Goin, Jr., Gainesville, Fla.

B.A. with honors '63, University of Florida. Field of Concentration: Library Science.

Michael Stuart Goldman, Minneapolis

B.A. '60, University of Minnesota. Field of Concentration: Psychology.

Bernie John Golz, Evansville, Wis.

B.S. with honors '50, Wisconsin State College (La Crosse). Field of Concentration: Physical Education.

Donald Alvin Grimes, Rosemount

B.S. '58, Winona State College. Field of Concentration: Educational Psychology.

Rita Margaret Grismer, Paynesville

B.S. '58, St. Cloud State College. Field of Concentration: Educational Psychology.

Gladys Evelyn Gudahl, Bricelyn

B.A. '50, Macalester College. Field of Concentration: Curriculum and Instruction.

Rauha Emily Hagemester, Robbinsdale

B.S. '27, University of Minnesota. Field of Concentration: Curriculum and Instruction.

James Nick Haidos, Los Angeles,  
Calif.

B.A. '53, University of Minnesota. Field of  
Concentration: Journalism.

Mildred Ruth Hambley, Crandon,  
Wis.

B.S. '58, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

John Lorenz Haubenstricker, Oak  
Park, Ill.

B.S.Educ. '61, Concordia Teachers College.  
Field of Concentration: Physical Education.

Ione T. Haverly, Bloomington

B.A. '42, Augsburg College. Field of Concen-  
tration: Curriculum and Instruction.

Ella Louise Hedman, Grand Rapids

B.A. '64, University of Minnesota. Field of  
Concentration: Journalism.

David Ellis Highnam, Mt. Vernon,  
Wash.

B.A. *magna cum laude* '63, Western Washing-  
ton State College. Field of Concentration:  
French.

Melvin Allen Hoke, Antigo, Wis.

B.S. with high honors '59, Wisconsin State  
College (Superior). Field of Concentration:  
English.

Arnold IntVeld, New Brighton

B.A. '58, Bethel College. Field of Concen-  
tration: History.

Dwight Wiley Jessup, St. Paul

B.A. with high honors '60, Bethel College.  
Major: History. Minor: Political Science. The-  
sis: Joseph Gilbert and the Minnesota Sedition  
Law: A Case Study in American Constitutional  
History.

Howard LeRoy Johnson, Chaska

B.S. '54, St. Cloud State College. Field of  
Concentration: Industrial Education.

Robert Raymond Johnson, Milaca

B.S. with honors '61, St. Cloud State College.  
Field of Concentration: Curriculum and In-  
struction.

Shirley Ann Johnson, Palisade

B.S. '62, Bemidji State College. Field of Con-  
centration: Curriculum and Instruction.

Sylvia Sue Johnson, Minneapolis

B.A. with highest distinction '57, State Uni-  
versity of Iowa. Field of Concentration: Educa-  
tional Psychology.

Tobin Harry Jones, Rochester

B.A. '62, University of Minnesota. Field of  
Concentration: French.

Daniel John Jurkovic, Minneapolis

B.A. '57, Concordia College. Field of Con-  
centration: Political Science.

Sister Mary Eliza Kenney, Phoenix,  
Ariz.

B.A. '56, Clarke College. Field of Concen-  
tration: Music.

Phyllis Kernoff, Passaic, N.J.

B.A. with honors '63, Douglass College. Major:  
Psychology. Minor: Statistics. Thesis: Affect  
and Short-Term Retention.

Margaret Schwab Kersteter, Minne-  
apolis

B.S. '61, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Beth Lewis King, Minneapolis

B.S. with distinction '48, University of Minne-  
sota. Field of Concentration: Educational Psy-  
chology.

Mary Kathryn Klaurens, Minneapolis

B.S. '59, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Carol Leola Koehmstedt, Overly, N.D.

B.A. *cum laude* '52, College of St. Scholastica.  
Field of Concentration: Library Science.

Robert August Koenig, Chetek, Wis.

B.S. with honors '55, Wisconsin State College  
(Superior). Field of Concentration: Educa-  
tional Administration.

Robert George Kotz, Stillwater

B.S. '59, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Michael Charles Kotzin, Chicago, Ill.

B.A. '62, University of Chicago. Field of Con-  
centration: English.

Kenneth Nord Kurtz, Minneapolis

B.A. '62, Miami University. Field of Concen-  
tration: Speech and Theatre Arts.



Carolyn Jeanne Landrud, Lombard,  
Ill.

B.S.Educ. '55, Drake University. Field of Concentration: Educational Psychology.

Barbara Ann Lanegran, St. Paul

B.A. '54, Macalester College. Field of Concentration: English.

Jerome David Larson, Minneapolis

B.S. '60, University of Minnesota. Field of Concentration: Industrial Education.

Carolynne Sue Lathrop, Oxon Hill,  
Md.

B.A. '59, Hood College. Field of Concentration: English.

Alois Joseph Lauer, Anoka

B.S. '51, University of Minnesota. Field of Concentration: Agricultural Education.

Sister Jane Frances Lemire, Duluth

B.S. '51, Wisconsin State College (Superior). Field of Concentration: Curriculum and Instruction.

Matthew Levison, Brooklyn, N.Y.

B.B.A. '59, College of the City of New York. Field of Concentration: Economics.

Lawrence Matson Linnett, Tyler

B.A. *cum laude* '58, University of Minnesota. Field of Concentration: Psychology.

Gerald Lee Lizotte, Melrose

B.S. '62, University of Minnesota. Field of Concentration: Music Education.

Robert Michael Madigan, St. Paul

B.A. '61, College of St. Thomas. Field of Concentration: Industrial Relations.

Gerald Richard Maeckelbergh, Duluth

B.S. '60, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Charles John Maguire, Dublin, Ireland

B.Agr.Sc. '60, University College (Ireland). Field of Concentration: Agricultural Education.

Stephen Lawrence Martin, Denver,  
Colo.

B.A. '64, University of Denver. Field of Concentration: Physical Education.

Elmer Harold Mattson, Northome

B.S. *magna cum laude* '58, Moorhead State College. Field of Concentration: History.

Larry Eugene McCaghy, Eau Claire,  
Wis.

B.A. *cum laude* '63, Wisconsin State College (Eau Claire). Field of Concentration: Music.

George Thomas Milkovich, Virginia

B.S.B. with distinction '63, University of Minnesota. Field of Concentration: Industrial Relations.

Michael Joseph Mulvaney, Minneapolis

B.S. '64, University of Minnesota. Field of Concentration: Education.

Bonnie Winter Murton, Minneapolis

B.S. '62, Iowa State University. Field of Concentration: Educational Psychology.

Clyde Robert Nelson, Austin

B.S. '59, Mankato State College. Field of Concentration: Educational Psychology.

Gary Lee Nelson, Roslyn, S.D.

B.A. '59, University of Minnesota. Field of Concentration: Educational Psychology.

Nicholas David Nelson, Laguna  
Beach, Calif.

B.A. '60, Augsburg College. Field of Concentration: History.

Marisue Green Nibe, Winnetka, Ill.

B.S. with high distinction '60, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Dwight C. Niles, Cambridge

B.S. '50, Bemidji State College. Field of Concentration: Industrial Education.

Diana Mai Niskern, Minneapolis

B.A. *cum laude* '64, Macalester College. Field of Concentration: Library Science.

Ardis Marnae Niemann Norberg, Minneapolis

B.A. '53, Hamline University. Field of Concentration: Art Education.

David Amos Nordlie, Litchfield

B.A. *cum laude* '60, Augsburg College. Field of Concentration: Industrial Relations.

Donald Russell Norha, Embarrass

B.S.B. '64, University of Minnesota. Field of Concentration: Industrial Relations.

Ramon Almich Oldenburg, Minneapolis

B.S. '54, Mankato State College. Major: Sociology. Minor: Psychology. Thesis: Consensus and the Hospital Work Group in Its Organizational Setting.

K. Richard Olsen, Billings, Mont.

B.A. '55, University of Minnesota. Field of Concentration: Journalism.

Manley Elmer Olson, St. Paul

B.S. '60, Wisconsin State College (River Falls). Field of Concentration: Educational Administration.

Carl Marnold Ostby, Jr., Olivia

B.A. '59, Concordia College. Field of Concentration: Mathematics.

John Barclay Patterson, Cuyahoga Falls, Ohio

B.A. '63, Kent State University. Field of Concentration: History.

Walter Erwin Peik, Brownton

B.S. '51, St. Cloud State College. Field of Concentration: Curriculum and Instruction.

Michael Linden Pesci, St. Paul

B.A. '64, Macalester College. Field of Concentration: Educational Psychology.

Paul Edward Peterson, Jr., Duluth

B.S. '61, University of Minnesota. Field of Concentration: Education.

Marcial Antonio Riquelme, Asuncion, Paraguay

Diploma '61, National University of Asuncion (Paraguay). Field of Concentration: Political Science.

Sharon Lonnie Rollier, Minneapolis

B.S.Educ. '60, Valparaiso University. Field of Concentration: Curriculum and Instruction.

Virginia Roosen Rowin, Minneapolis

B.A. '54, University of Minnesota. Field of Concentration: Educational Psychology.

Gerald Elmer Saisa, Virginia

B.S. '61, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Janice Elizabeth Savage, Hopkins

B.S. with distinction '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Oscar John Schmiede, Jr., St. Paul

B.A. '56, University of Wisconsin. Major: Philosophy. Minor: Psychology. Thesis: Augustine, Concerning Perceptual Error.

Barry D. Schneider, Chicago, Ill.

B.A. '53, Our Lady of the Angels Seminary; M.A. '61, Northwestern University. Field of Concentration: Journalism.

Richard Elmer Sells, Tekamah, Neb.

B.A. '63, Nebraska Wesleyan University. Field of Concentration: Industrial Relations.

Erma Ione C. T. Sentz, St. Paul

B.S. with distinction '57, University of Minnesota. Field of Concentration: Educational Psychology.

Sister Kathleen Marie Shields, St. Paul

B.A. '58, College of St. Catherine. Field of Concentration: Educational Administration.

Lee Howard Smith, Minnetonka

B.S. '58, Mankato State College. Field of Concentration: Education.

Susan Smart Smith, Kingston, R.I.

B.A. '64, Swarthmore College. Field of Concentration: Psychology.

Michael J. Stevenson, Durand, Mich.

B.S.Educ. '62, Central Michigan University. Field of Concentration: Physical Education.

Marvin Boyde Stotesbery, Graceville

B.S. '57, University of Minnesota. Field of Concentration: Agricultural Education.

Ina Jeanne Strong, Missoula, Mont.

B.A. with honors '60, Montana State University. Field of Concentration: French.

Michele Anne Swanson, Minneapolis

B.A. '63, University of Minnesota. Field of Concentration: English.

John Leo Thell, Parkers Prairie

B.S. '58, University of Minnesota. Field of Concentration: Agricultural Education.

Jay William Thompson, Minneapolis

B.A. '64, University of Minnesota. Field of Concentration: Industrial Relations.

Jayne Audrey Thompson, Minneapolis  
B.A. '61, Hamline University. Field of Concentration: Curriculum and Instruction.

Dorothea Ebert Trelstad, Zumbrota  
B.S. '61, Winona State College. Field of Concentration: Educational Psychology.

Bryant Lynn Ulseth, Thief River Falls  
B.A. '53, Concordia College. Field of Concentration: Music Education.

Lois Mae Huber VanDyck, St. Paul  
B.S. '54, Mankato State College. Field of Concentration: Curriculum and Instruction.

David Ainsworth Veeder, Rochester  
B.A. '62, University of Minnesota. Field of Concentration: German.

James Paul Vomhof, Winfield, Kan.  
B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

John Henry Waldow, Bloomington  
B.S. '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Judith Westheim Wallach, New York, N.Y.  
B.A. '64, Barnard College. Major: Library Science. Minor: Political Science. Thesis: A Study of the University of Minnesota Library School Graduates, 1951-1964.

Frithjof Rodney Wannebo, Grand Marais  
B.A. '52, Hamline University; M.A. '58, University of Minnesota. Field of Concentration: Educational Administration.

Maria Kellogg Warren, Duluth  
B.S. '59, University of Minnesota. Field of Concentration: Art Education.

Edwin Casper Wensman, White Bear Lake  
B.A. '57, St. John's University. Field of Concentration: Educational Psychology.

Sue Ann Woestehoff, Minneapolis  
B.S. with distinction '64, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Norman Ernest Wolfe, Waseca  
B.S. '59, Kansas State University; B.S. '63, Mankato State College. Field of Concentration: Education.

Jacob Francis Zollar, Duluth  
B.S. '62, University of Minnesota. Field of Concentration: Curriculum and Instruction.

## Master of Arts in Public Administration

James Francis Andre, Franklin  
B.A. '58, University of Minnesota. Major: Public Administration. Thesis: Real Estate Assessment Policy and Administration in Ramsey County, Minnesota.

James Peter Lind, Welch  
B.A. '54, University of Minnesota. Field of Concentration: Public Administration.

## Master of Business Administration

Stewart Dean Brown, Hillside, N.J.  
B.A. *cum laude* '62, Kenyon College. Field of Concentration: Business Administration.

John Donald De Francesco, Richfield  
B.S. '54, Johns Hopkins University. Field of Concentration: Business Administration.

Alan Lewis Eliason, Lindstrom  
B.M.E. '62, University of Minnesota. Field of Concentration: Business Administration.

James Severin Rausch, Big Stone City, S.D.  
B.A. '63, St. John's University. Field of Concentration: Business Administration.

Thomas Clement Roth, Willmar  
B.A. '63, St. John's University. Field of Concentration: Business Administration.

Richard Arlen Wagner, Ruthven, Iowa  
B.A. '56, Grinnell College. Field of Concentration: Business Administration.

## Master of Fine Arts

Urve Bakis, Sterling, Kan.

B.A. cum laude '59, Sterling College. Field of Concentration: Art.

Monroe Bell, Columbia, Mo.

B.A. '53, Hamline University. Field of Concentration: Music.

Clarence Edwards Denton, Brookings, S.D.

B.Sc.Educ. '50, University of Nebraska; M.A. '54, Louisiana State University. Field of Concentration: Theatre.

Merlin Arthur Olson, Minneapolis

B.A. '60, St. Olaf College. Field of Concentration: Art.

Patricia Ruth Zontelli, Deerwood

B.S. with distinction '62, University of Minnesota. Field of Concentration: Art.

## Master of Science

Robert William Allard, Minneapolis

B.Phys. '59, University of Minnesota. Field of Concentration: Mathematics.

Michael John Bazin, London, England

Certificate '60, St. Luke's College (England). Field of Concentration: Zoology.

Robert William Benson, Rochester

B.A. '63, University of Minnesota. Major: Biochemistry. Minor: Physical Chemistry. Thesis: Oxygen Exchange Reactions Catalyzed by Myofibrils.

Clark Bergman, St. Paul

B.Phys. with high distinction '62, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Reaction  $C^{12}(Li^9, \alpha)N^{14}$  Near 2 MeV.

Thomas Chester Brinkman, Minneapolis

B.S. with distinction '63, University of Minnesota. Major: Mechanics and Materials. Minor: Metallurgy. Thesis: Damping, Stiffness, and Fatigue Properties of Structural Materials in Flexure.

William Parker Cane, Coudesport, Pa.

B.S.(Chem.) '62, University of Pennsylvania. Major: Biochemistry. Minors: Organic Chemistry and Physical Chemistry. Thesis: Models for Hydrophobic Interactions in Proteins.

Harriett Louise Copher, St. Louis, Mo.

B.S. in Nursing '63, University of Missouri. Field of Concentration: Public Health Nursing.

Charles Howard Cuykendall, Auburn, N.Y.

B.S. '62, Cornell University. Major: Agronomy. Minor: Botany. Thesis: A Comparison of the Effects of Sheep Grazing and Mower Clipping on Performance of Pasture Forages.

Todd Phillips Davidson, Minneapolis

B.E.E. '62, University of Minnesota. Field of Concentration: Business Administration.

Ellen Karine Erlandson, Ellsworth, Wis.

B.S. '62, University of Minnesota. Field of Concentration: Public Health Nursing.

Mervin Lee Freeman, Fergus Falls

B.S. '59, University of Minnesota. Field of Concentration: Agricultural Economics.

Andrew Hamilton Gibson, Buffalo, N.Y.

B.S. '40, University of Michigan; M.A. '55, Michigan State University. Field of Concentration: Genetics.

James John Grierson, Virginia

B.S.B. '64, University of Minnesota. Field of Concentration: Business Administration.

Jane Brownlee Hazelrig, Rochester

B.S. '58, University of Alabama. Major: Biophysics. Thesis: Simulation of Copper Metabolism.

Jacque Jerome Hohlfelder, St. Paul

B.Phys. with distinction '60, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Performance Studies of a High Isotopic Sensitivity Mass Spectrometer.

Ergun Kip, Erzincan, Turkey

Diploma '60, University of Ankara (Turkey). Field of Concentration: Agricultural Economics.

James Patrick Lennon, Minneapolis

B.A. *cum laude* '63, St. John's University. Field of Concentration: Mathematics.

Lawrence Anthony Liddiard, Minneapolis

B.S. with distinction '58, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Double Precision Floating Point Arithmetic.

Astrid Karona Mack, Miami, Fla.

B.S. '60, Bethune-Cookman College. Field of Concentration: Zoology.

May Yoshiko Manabe, Santa Clara, Calif.

B.S. '53, University of California (Berkeley). Field of Concentration: Agricultural Plant Physiology.

Larry Joseph McDonald, Minneapolis

B.Math. with high distinction '62, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Corrections to an Analytic Distorted Wave Approximation for High Energy Electron Scattering Calculations.

Kshounish Chandra Nag, Calcutta, India

B.Sc.(Agric.) '56, M.Sc. (Agric.) '58, Banaras Hindu U. (India). Major: Agronomy. Minor: Agricultural Plant Physiology. Thesis: The Effect of Five Legumes on Yields of Flax, Oats, Timothy and Brome.

Akira Nagashima, Murakami, Niigata, Japan

B.A. Com. '62, Waseda University (Japan). Major: Business Administration. Minor: Journalism. Thesis: Minnesota Businessmen's Image of Foreign Made Products by Semantic Differential Method.

Surgounda Anna Patil, Bhosa, Maharashtra, India

B.Sc.(Hons) '58, M.Sc. '59, University of Poona (India). Major: Statistics. Minor: Mathematics. Thesis: Compound Distributions of Infinitely Divisible Distributions.

Ivan Max Policoff, St. Paul

B.A. '50, B.S. '57, M.A. '59, University of Minnesota. Field of Concentration: Physics.

Charles Richard Pottenger, Sewickley, Pa.

B.S. '61, Pennsylvania State University. Major: Forestry. Minor: Organic Chemistry. Thesis: The Isolation and Characterization of Flavonoids From Aspenwood.

Ruth Hall Rogers, Elmira, N.Y.

B.S. '53, Columbia University. Field of Concentration: Public Health Nursing.

Harold Charles Seim, Spring Valley

B.S.Pharm. '63, University of Minnesota. Field of Concentration: Hospital Pharmacy.

Charles A. Stoerzinger, St. Paul

B.S.B. with high distinction '63, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: The Selectivity of Information After a Consumer Decision.

Gerald Edward Stokker, Minneapolis

B.Chem. '62, University of Minnesota. Major: Chemistry. Minor: Analytical Chemistry. Thesis: The Preparation of 1-Dimethylamino-3, 3-Diarylbutanes.

Michael Bahry Tamburro, Bristol, R.I.

B.Aero.E. '62, Rensselaer Polytechnic Institute. Field of Concentration: Mechanics and Materials.

Lawrence John Weirick, Minneapolis

B.S. with distinction '63, University of Minnesota. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: Diffusion of Calcium in Calcium Oxide Single Crystals.

Louis Wigginton, Dixon, Ill.

B.S.(Educ.) '61, Northern Illinois University. Field of Concentration: Agricultural Plant Physiology.

## Master of Science in Aeronautical Engineering

Joseph Adam Dsida, Chicago, Ill.  
B.S.A.E. '63, University of Michigan. Field of Concentration: Aeronautical Engineering.

Peter Daniel Lohn, Minneapolis  
B.S. with distinction '62, University of Minnesota. Field of Concentration: Aeronautical Engineering.

## Master of Science in Chemical Engineering

William Lien Chen, Taipei, China  
B.Sc. '59, Taiwan Provincial Cheng Kung University (China). Major: Chemical Engineering. Minor: Mathematics. Thesis: The Prolate Ellipsoidal Nuclear Reactor with Finite Reflector.

Tetsuya Miyake, Tokyo, Japan  
B.S.Eng. '59, University of Tokyo (Japan). Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Gamma Irradiation of Benzene Aqueous Solutions.

Charles Howard Swanson, Minneapolis

B.S. with high distinction '63, University of Minnesota. Major: Chemical Engineering. Minor: Microbiology. Thesis: Application of Bellman's Bottleneck Principle to Batch Microbial Growth.

## Master of Science in Civil Engineering

John Karl Arntson, Minneapolis  
B.S. with distinction '64, University of Minnesota. Field of Concentration: Civil Engineering.

Lyle David Finn, Patch Grove, Wis.  
B.S. '64, Wisconsin State College (Platteville). Field of Concentration: Civil Engineering.

Hari Kundanmal Jagasia, Karachi, Pakistan  
B.E.(Civil) '62, University of Karachi (Pakistan). Field of Concentration: Civil Engineering.

Ambar Nath Mukherjee, Calcutta, India  
B.E.(Civil) '58, Calcutta University (India). Field of Concentration: Civil Engineering.

Frank Ray Vollert, Spokane, Wash.  
B.S.C.E. '63, Gonzaga University. Field of Concentration: Civil Engineering.

## Master of Science in Dentistry

David Grant Anderson, Minneapolis  
B.S. '54, D.D.S. '56, University of Minnesota. Major: Dentistry. Minor: Physiology. Thesis: A Comparative Analysis of Two Methods Utilized in Measuring Vertical Jaw Relations in Edentulous Individuals.

George Edward Fischer, Marshall  
B.S. '58, D.D.S. '60, University of Minnesota. Major: Dentistry. Minor: Biochemistry. Thesis: The Effect of a Surface Bound, Positively Charged Membrane Upon Enamel and Calculus Formation Under *In Vitro* Conditions.

Frederick Douglass Peagler, New Milford, Conn.  
D.D.S. '48, Howard University. Major: Dentistry. Minor: Pathology. Thesis: An Inquiry into Some of the Factors Affecting Sex Chromatin.

Thomas Pifer Serene, Minneapolis  
B.S. '57, D.D.S. '59, University of Minnesota. Major: Dentistry. Minor: Microbiology. Thesis: Isolation and Characterization of Pleuropneumonia-Like Organisms From Human Root Canals.

## Master of Science in Electrical Engineering

James Casement, St. Paul

B.S.(Ch.E.) with honors '48, University of Illinois. Field of Concentration: Electrical Engineering.

Willard John Cecchi, St. Paul

B.S. with distinction '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Measurements of the Rise Statistics of Certain Gaussian Processes.

Marvin Leroy Geske, St. Paul

B.E.E. '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of Thin-Film Metal-Semiconductor Contacts.

Wayne Arthur Larson, Glenview, Ill.

B.S. with distinction '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Experimental Method of Determining the Departure From Gaussian of a Random Process.

Richard George Saunders, Aberdeen, S.D.

B.S.E.E. '57, South Dakota School of Mines and Technology. Field of Concentration: Electrical Engineering.

Gordon Chukeong Soong, Hong Kong, China

B.Sc. '57, Taiwan Provincial Cheng Kung University (China). Field of Concentration: Electrical Engineering.

## Master of Science in Industrial Engineering

Ted George Merry, Minnetonka

B.S. with distinction '64, University of Minnesota. Field of Concentration: Industrial Engineering.

Mahendra Nath, New Delhi, India

B.E.(Mech.) '61, University of Delhi (India). Field of Concentration: Industrial Engineering.

## Master of Science in Mechanical Engineering

Barton Eugene Dahneke, San Jose, Calif.

B.E.S. '63, Brigham Young University. Field of Concentration: Mechanical Engineering.

James Coleman Dunn, Columbia, Mo.

B.S.M.E. '61, University of Missouri. Field of Concentration: Mechanical Engineering.

Peter Severan Rhode, Duluth

B.A. '63, Carleton College. Field of Concentration: Mechanical Engineering.

## Master of Science in Mineral Engineering

Gordon Odin Prickett, St. Paul

B.Min.E. with high distinction '58, University of Minnesota. Major: Mineral Engineering. Minors: Business Administration and Economics. Thesis: The Design and Analysis of Experiments for Mine Development and Production.

## Certificate of Specialist in Education

Thomas Patrick Gleason, St. Paul

B.S. '51, M.A. '53, University of Minnesota. Field of Concentration: Special Education.

## Doctor of Philosophy

Robert Jan George Altevveer, Apeldoorn, Netherlands

M.S. '58, Springfield College. Major: Education. Minor: Physiology. Thesis: The Development, Standardization and Potential Application to Problems in Respiratory Physiology in Rest and Exercise of a New Miniature Oxygen Electrode. Major Adviser: Prof. R. E. McAdam.

Martin Elisha Bergeland, Dawson

B.S. with high distinction '57, D.V.M. '59, University of Minnesota. Major: Veterinary Pathology. Minor: Microbiology. Thesis: Studies of a Porcine Enterotoxemia Caused by *Clostridium Perfringens* Type C. Major Adviser: Prof. D. K. Sorensen.

Rudolph Barton Berryman, Minneapolis

B.A. '50, University of Omaha; M.A. '52, University of Minnesota. Major: Education. Minor: Music. Thesis: Two Methods of Musical Stylistic Analysis: An Experimental Evaluation. Major Adviser: Prof. P. S. Ivory.

Robert Bruce Brander, Sault Ste.

Marie, Mich.

B.S. '61, M.Wildlife Man. '62, University of Michigan. Major: Fisheries and Wildlife. Minor: Supporting Program. Thesis: Factors Affecting Dispersion of Ruffed Grouse During Late Winter and Spring on the Cloquet Forest Research Center, Minnesota. Major Adviser: Prof. W. H. Marshall.

Charles Richard Bruning, Morris

B.S. '49, M.A. '53, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: Comparisons of Institutional Press as Perceived by Selected Students in Church Related Schools. Major Adviser: Prof. R. J. Keller.

Rex Sehler Burns, Coronado, Calif.

B.A. '58, Stanford University; M.A. '63, University of Minnesota. Major: American Studies. Thesis: Middle Class Success and the Industrial Revolution, 1825-1830. Major Advisers: Profs. David Cooperman and J. J. Kwiat.

Arthur Robert Butz, New York, N.Y.

B.S. '56, M.S.E.E. '56, E.E. '59, Massachusetts Institute of Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: Perceptron Type Learning Algorithms in Non-Separable Situations. Major Advisers: Profs. R. P. Halvorson and E. B. Lee.

Peter Colwell, Brooklyn, N.Y.

B.A. '58, College of Wooster; M.A. '60, Ohio University. Major: Mathematics. Minor: Statistics. Thesis: On the Boundary Behavior of Functions Bounded and Analytic in the Unit Disk. Major Adviser: Prof. D. A. Storvick.

Duane William Condiff, St. Paul

B.S. with high distinction '61, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics and Physics. Thesis: Transport Phenomena in Fluids with Rotating Molecules. Major Adviser: Prof. J. S. Dahler.

John Chester Coulter, St. Cloud

B.S. '51, St. Cloud State College; M.A. '60, University of Minnesota. Major: Education. Minor: Zoology. Thesis: The Effectiveness of Inductive Laboratory, Inductive Demonstration, and Deductive Laboratory Instruction in Biology. Major Adviser: Prof. C. H. Boeck.

Rachel Dardis, Dublin, Ireland

Diploma '49, St. Mary's College (Ireland); M.S. '63, University of Minnesota. Major: Economics. Minor: Agricultural Economics. Thesis: The Welfare Cost of Agricultural Protection. Major Adviser: Prof. Edward Coen.

Kenneth Charles Edson, Boise, Idaho

B.A. cum laude '57, Chico State College; M.A. '61, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Factors Related to Changes in Environmental Expectations of College Freshmen. Major Adviser: Prof. Theda Hagenah.

Robert Lewis Field, Oshkosh, Wis.

B.S. '48, Winona State College; M.A. '53, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: An Analysis of Selected Pre-Student Teaching Experiences of Students in the College of Education, University of Minnesota. Major Advisers: Profs. R. J. Keller and D. C. Neale.

Frank Joseph Garosi, Wilmington, Del.

B.A. '58, University of Delaware. Major: History. Minor: Political Science. Thesis: The Ecclesiastical Policy of the Grand Duke Leopold of Tuscany 1765-1790. Major Adviser: Prof. W. E. Wright.

Raul Garza-Chapa, Monterrey, Mex.

Certificate '57, University of Nuevo Leon (Mexico). M.S. '61, Graduate College of the School of Agriculture (Mexico). Major: Plant Pathology. Minor: Genetics. Thesis: Studies on the Behavior of Single-Basidiospore Isolates and Heterokaryons of *Rhizoctonia Solani*. Major Adviser: Prof. N. A. Anderson.



**Perry James Gehring, St. Paul**

B.S. with distinction '60, D.V.M. '60, University of Minnesota. Major: Veterinary Physiology and Pharmacology. Minor: Physical Chemistry. Thesis: The Interrelationship Between Thallium and Potassium in Animals. Major Adviser: Prof. P. B. Hammond.

**Prem Kumar Gupta, Jammu, India**

B.Pharm. '57, M.Pharm. '58, Banaras Hindu University (India). Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: Studies on the Chemical Modification and Structure of Coumarins Occurring in Umbelliferous Plants. Major Adviser: Prof. T. O. Soine.

**Lauren Harris, Chicago, Ill.**

B.S. '61, University of Illinois; M.A. '63, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: The Effects of Delayed Reward and Stimulus Environment on Children's Visual Orientation and Speed of Performance in Instrumental Conditioning. Major Adviser: Prof. J. C. Wright.

**Ben Ray Jackson, Stillwater, Okla.**

B.S. '49, M.S. '54, Oklahoma State University. Major: Genetics. Minor: Botany. Thesis: Quantitative Inheritance in Crosses Among Four Tetraploid Wheats. Major Adviser: Prof. L. A. Snyder.

**Valdimar Kristjan Jonsson, Reykjavik, Iceland**

Certificate '60, Technical University of Denmark. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Experimental Studies of Turbulent Flow Phenomena in Eccentric Annuli. Major Adviser: Prof. E. M. Sparrow.

**Yoon Berm Kim, Seoul, Korea**

M.D. '58, Seoul National University (Korea). Major: Microbiology. Minor: Biochemistry. Thesis: Ontogeny of Immunoglobulin Synthesis. Major Adviser: Dr. D. W. Watson.

**Edward Lee Krehbiel, Long Beach, Calif.**

B.S. '58, California Institute of Technology; M.A. '62, Long Beach State College. Major: Genetics. Minor: Biostatistics. Thesis: An Estimation of the Cumulative Mutation Rates for Sex-Linked Recessive Lethals in Man Which Produce Fetal Deaths. Major Adviser: Prof. S. C. Reed.

**Thomas A. Krueger, St. Louis, Mo.**

B.A. '59, Antioch College; M.A. '60, University of Wyoming. Major: History. Minor: Political Science. Thesis: The Southern Conference for Human Welfare, 1938-48. Major Adviser: Prof. C. A. Chambers.

**James Donald Kuelbs, Clements**

B.A. *cum laude* '60, St. John's University. Major: Mathematics. Minor: Statistics. Thesis: Integration on Spaces of Continuous Functions. Major Adviser: Prof. R. H. Cameron.

**Gary Glen Kuhn, St. Paul**

B.A. *magna cum laude* '59, M.A. '61, University of Minnesota. Major: History. Minor: Area Studies: Latin American. Thesis: The History of Aeronautics in Latin America. Major Adviser: Prof. W. D. Beatty.

**James Cheng-Wu Kuo, Amoy, Fukien, China**

B.S. '59, National Taiwan University (China); M.S.Ch.E. '61, University of Washington. Major: Chemical Engineering. Minor: Mathematics. Thesis: Theoretical Studies of the Asymptotic Stability of a Mono-Molecular Reaction System in a Catalyst Particle. Major Adviser: Prof. N. R. Amundson.

**Dale Gordon Leathers, Lansford, N.D.**

B.A. *cum laude* '60, M.A. '63, University of Minnesota. Major: Speech and Theatre Arts. Minor: History. Thesis: A Descriptive Study of Revolutionary Reaction of the 1960's: The Rhetoric of Salvation. Major Adviser: Prof. E. G. Bormann.

**Su Rae Lee, Suwon, Korea**

B.S. '55, Seoul National University (Korea); M.S. '58, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Purification and Properties of Enzymes Which Attack Guar Gum. Major Adviser: Prof. Samuel Kirkwood.

**Robert Albin Lenberg, Bellevue, Wash.**

B.A. '55, Brigham Young University; M.S. '59, University of Minnesota. Major: Business Administration. Minors: Economics and Psychology. Thesis: Marketing in the Powered Pleasure Boat Industry: A Commodity Study. Major Adviser: Prof. E. H. Lewis.

Darwyn Ellsworth Linder, Minneapolis

B.A. *summa cum laude* '61, Macalester College. Major: Psychology. Minor: Educational Psychology. Thesis: Some Psychological Processes Which Mediate Task Liking. Major Adviser: Prof. Elliot Aronson.

Tracy Claud Linn, Norman, Okla.

B.S. '59, University of Oklahoma. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: B-Hydroxy-B-Methylglutaryl-CoA Reduction by an Enzyme From Rat Liver Microsomes. Major Adviser: Dr. I. D. Frantz.

Richard Hale Lyon, Fort Snelling

B.A. '47, M.S. '61, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Studies on the Physiology of Mycobacterium Tuberculosis. Major Adviser: Dr. H. C. Lichstein.

Karl Marhenke, Berkeley, Calif.

B.S. '57, University of California (Berkeley). Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: The Reaction of Tellurium (IV) with Dithizone. Major Adviser: Prof. E. B. Sandell.

Ralph Harold Marking, West Salem, Wis.

B.S. '57, Wisconsin State College (La Crosse). Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Combustion Calorimetry of Sulfur-Containing Organic Compounds. Major Adviser: Prof. Z. Z. Hugus, Jr.

Martin Howard Mattsson-Boze, Beaver Falls, Pa.

B.A. '58, M.A. '59, Northwestern University. Major: History. Minor: Philosophy. Thesis: James McHenry, Secretary of War, 1796-1800. Major Adviser: Prof. P. L. Murphy.

Robert Francis Modler, Chicago, Ill.

B.A. '61, Northwestern University. Major: Organic Chemistry. Minor: Chemistry. Thesis: Ring Expansion Reactions of Isatogens. Major Adviser: Prof. W. E. Noland.

Eldon James Null, Minneapolis

B.A. *cum laude* '48, Augustana College; M.A. '54, University of South Dakota. Major: Education. Minor: Educational Psychology. Thesis: The Relationships Between the Organizational Climate of a School and Personal Variables of Members of the Teaching Staff. Major Adviser: Prof. S. H. Popper.

Bobby Joe Payne, Oak Grove, La.

D.V.M. '56, M.S. '60, Texas A & M College. Major: Veterinary Pathology. Minor: Physical Chemistry. Thesis: Pathology of Malignant Lymphoma (Lymphocytic Leukemia) in Cattle. Major Adviser: Prof. J. H. Sautter.

Leonard Lieber Hirsch Pinkas, Norwalk, Conn.

B.S. '57, Cornell University; M.S. '61, Purdue University. Major: Agronomy. Minor: Biochemistry. Thesis: Influence of Genotype on Rate of Strontium Absorption by Barley. Major Adviser: Prof. L. H. Smith.

Sister Aloise Raiche, St. Paul

B.A. '60, College of St. Catherine; M.Ed. '62, Boston College. Major: Education. Minor: Educational Psychology. Thesis: Selected Teacher Characteristics and Verbal Behavior in the Classroom. Major Adviser: Prof. J. R. Curtin.

Abraham Schwartz Ross, Minneapolis

B.A. '60, Dartmouth College; M.A. '62, Syracuse University. Major: Psychology. Minor: Educational Psychology. Thesis: Modes of Guilt Reduction. Major Adviser: Prof. Elliot Aronson.

Orlando Rutherford Ruschmeyer, Stewart

B.A. *magna cum laude* '51, M.S. '56, University of Minnesota. Major: Public Health. Minor: Biochemistry. Thesis: A Study of Water Circulation and Related Hydrographic Phenomena in Western Lake Superior. Major Adviser: Dr. T. A. Olson.

John Carl Schlotthauer, Rochester

B.S. '52, D.V.M. '54, University of Minnesota. Major: Veterinary Parasitology. Minor: Microbiology. Thesis: Host-Parasite Relationships of *Dirofilaria Immitis* in the Dog. Major Adviser: Prof. H. J. Griffiths.

Walter Richard Schmeal, Minneapolis

B.S.(Ch.E.) '61, University of Illinois; M.S. '62, Northwestern University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Packed Bed Reactors with Recycle. Major Adviser: Prof. N. R. Amundson.

Ann Marie Schoelkopf, Minneapolis

B.S. with distinction '56, M.A. '63, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: Delay of Reinforcement Effects in the Discrimination Learning of Retardates. Major Advisers: Profs. Robert Orlando and M. C. Reynolds.

David Bruce Schroeder, St. Paul

B.S. '57, M.S. '62, University of Minnesota. Major: Plant Pathology. Minor: Forestry. Thesis: Seedling Blight, Stalk Rot and Ear Rot of Sweet Corn Caused by *Penicillium Oxalicum*. Major Adviser: Prof. M. F. Kernkamp.

Robert Ernest Stebbins, Sidney, Ohio

B.A. '53, Bowling Green State University; M.A. '60, University of Minnesota. Major: History. Minor: Political Science. Thesis: French Reactions to Darwin, 1859-1882. Major Adviser: Prof. J. L. Altholz.

David Arthur Stoppel, Minneapolis

B.S. '53, M.A. '55, University of Minnesota. Major: Education. Minor: Inorganic Chemistry. Thesis: An Experiment in Teaching College General Chemistry by Depictive and Quantitative Methods. Major Adviser: Prof. G. M. A. Mork.

Derek John Sturges, Potters Bar,  
England

B.A. '58, University of Oxford (England); M.S. '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Studies of the Hollow Cathode Discharge Mechanism. Major Adviser: Prof. H. J. Oskam.

Donald Clark Taylor, Lawtons, N.Y.

B.S. with distinction '59, Cornell University; M.S. '64, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: Income Improving Adjustments and Normative Supply Responses for Hogs and Beef in Southwestern Minnesota. Major Adviser: Prof. H. R. Jensen.

Meenakshisunder Venkatesan, Pudur,  
India

B.Com. '59, Bihar University (India); M.S. '62, University of Minnesota. Major: Business Administration. Minors: Journalism and Sociology. Thesis: An Experimental Investigation in the Conditions Producing Conformity to and Independence of Group Norms in Consumer Behavior. Major Adviser: Prof. R. S. Hancock.

Richard Earl White, Stillwater

B.B.A. '47, B.S. '49, M.A. '57, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Patterns of Institutional Press Among Selected Groups of Minnesota Junior College Students. Major Adviser: Prof. R. J. Keller.

Frank Henderson Wood, Minneapolis

B.A. *magna cum laude* '51, Harvard University; M.A. '53, Haverford College; B.S. '54, M.A. '62, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: Differences in the Attainment Value Placed on Achievement in School Activities by First- and Third-Grade Boys and Girls of High and Low Socioeconomic Background. Major Adviser: Prof. B. E. Balow.

## Doctor of Philosophy in Neurology

William John Riley, San Leandro,  
Calif.

M.S. '58, M.D. '60, University of Chicago. Major: Neurology. Minor: Anatomy. Thesis: Nerve Degeneration and Regeneration In Vitro: An Experimental Study. Major Adviser: Dr. A. B. Baker.

## Doctor of Philosophy in Surgery

Demetre Matthew Nicoloff, Lorain,  
Ohio

B.A. *cum laude* '54, M.D. *cum laude* '57, Ohio State University. Major: Surgery. Minor: Physiology. Thesis: The Relationship of Steroid Secretion by the Adrenal Glands to Gastric Secretion and Peptic Ulceration: Their Role in the Etiology of Stress Ulcer and Chronic Duodenal Ulcer. Major Adviser: Dr. O. H. Wangensteen.

Edward Turberville Peter, Mobile,  
Ala.

B.S. '54, M.D. '58, University of Alabama. Major: Surgery. Minor: Physiology. Thesis: Gastric Hemodynamics Observations in the Dog. Major Adviser: Dr. O. H. Wangensteen.

Robert Douglas Sellers, Minneapolis

B.A. '52, M.D. '55, Vanderbilt University. Major: Surgery. Minor: Pathology. Thesis: Changes in Cerebrovascular Permeability During Extracorporeal Circulation. Major Adviser: Dr. C. W. Lillehei.

# Academic Costume

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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 near the upper part of 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

Institute of Technology .....	orange
College of Agriculture, Forestry, and Home Economics .....	maize
College of Education .....	light blue
School of Business Administration .....	drab
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 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, 1965**

- 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 on the terrace of the Coffman Memorial Union. In case of rain, the ballroom will be used. Refreshments will be served.
- Those in the receiving line will be Vice President and Mrs. Shepherd; Dr. and Mrs. Budd; Dean and Mrs. Barlow; Mr. and Mrs. Willson; Mr. Howard Kaibel, Vice President, Minnesota Student Association; and Mr. Bruce Wilson, Secretary-Treasurer, Coffman Union Board of Governors.
- Assisting in the Reception are students and staff members, including those from the Senate Committee on University Functions, the Minnesota Student Association, the Union Board of Governors, the Naval ROTC, and the Department of University Relations.



UNIVERSITY OF MINNESOTA

*December Commencement, 1965*

SATURDAY EVENING, DECEMBER 18, 8:00 P.M.

NORTHROP MEMORIAL AUDITORIUM



# *The Board of Regents* \_\_\_\_\_

The Honorable Charles W. Mayo, M.D., Rochester  
First Vice President and Chairman

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhorst, Olivia

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, 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 fourteenth 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 we offer preparation. Since its founding, the University has awarded more than 184,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 42,000 students annually on its Minneapolis-St. Paul, Duluth, Morris, 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, the Hormel Institute at Austin, and at 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 Build-

ing 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 biological-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 42,178 students who enrolled at the University at the beginning of the 1965-1966 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 1965-1966 enrollment to about 42,000 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 1965 LEGISLATURE granted the University \$81,300,000 for general operations and maintenance during the 1965-1967 biennium. In addition, the University received \$9,083,223 for University Hospitals; \$6,833,887 for special appropriations, including special extension and research activities; \$15,820,656 for new buildings, land, and the rehabilitation of existing buildings; and \$1,240,000 for the University of Minnesota, Morris.

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 1964-1965 showed that the University's current income and expenditures amounted to \$128,980,874.07. Of the total received, \$12,727,274.12 came from student tuition and fees; \$17,855,486.75 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; \$1,496,963.54 from intercollegiate athletics; \$19,470,448.11 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 \$8,260,416.03 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$26,190,690.49 came from the federal government for instruction, research, and agricultural extension. The state provided \$42,979,595.03 or 31.4 per cent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$11,003,913.

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 various Special Project Programs, including scholarships, medical and technological research, and college service funds, which are 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

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**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Minneapolis Campus of the University this evening from 7:15 to 7:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mrs. James Whipkey, Graduate Student, 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.

**ORGAN PRELUDE:** From 7:30 to 8:00 p.m., Mr. Carl O. Bleyle, M.M., Teaching Assistant, Department of Music, will play.

**PROCESSION:** The audience is requested to remain seated so that all can see the procession. At 8:00 p.m., Professor Warren S. Loud, Ph.D., Institute of Technology, Faculty Marshal, will carry the Mace into the Auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Loud, 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 on the table to signal the beginning of the ceremony. During the procession, Mr. Bleyle will play:

*Trumpet Voluntary in D Major* - - - - - Clarke

**ON THE STAGE:** The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are Marshal Loud; Professor W. Edwin Emery, Jr., Ph.D., College of Liberal Arts, Marshal; Major John C. Gill, U.S.A.F., Assistant Professor of Aerospace Studies; Recorder True E. Pettengill, M.S., Admissions and Records; Professor Edwin L. Haislet, Ed.D., Director of Alumni Relations; Colonel William D. Beard, U.S.A., Professor of Military Science; Professor Nicholas A. Glaskowsky, Jr., Ph.D., School of Business Administration; Assistant Dean Keith N. McFarland, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Horace T. Morse, Ph.D., General College; Associate Dean H. Mead Cavert, M.D., College of Medical Sciences; Associate Dean Alfred L. Vaughan, Ph.D., University College; The Honorable Bjarne E. Grottum, Regent of the University of Minnesota; Vice President Stanley J. Wenberg, M.A., Educational Relationships and Development; The Reverend Douglas S. Pitts, B.A., Chaplain to Episcopal Students and Staff Members on the St. Paul Campus; Dr. Howard R. Bowen, Ph.D., President of the University of Iowa, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Vice President Laurence R. Lunden, LL.D., Business Administration; Vice President William G. Shepherd, Ph.D., Academic Administration; The Honorable George W. Rauenhurst, Regent of the University of Minnesota; Dean Bryce Crawford, Jr., Ph.D., Graduate School; Dean Willard L. Thompson, Ph.D., General Extension Division; Dean Athelstan Spilhaus, D.Sc., Institute of Tech-

nology; Dean Robert J. Keller, Ph.D., College of Education; Associate Dean Charles V. Netz, Ph.D., College of Pharmacy; Associate Dean John G. Turnbull, Ph.D., College of Liberal Arts; Captain James M. Marshall, U.S.N., Professor of Naval Science; Mr. Edwin A. Willson, B.E.E., President of the Minnesota Alumni Association; Professor Roy A. Schuessler, M.M., College of Liberal Arts; Associate Dean Robert K. Anderson, D.V.M., College of Veterinary Medicine, 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 remain standing for the National Anthem and the Invocation.

**THE NATIONAL ANTHEM:** The entire audience and Professor Schuessler, soloist, will sing:

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:** President Wilson.

**COMMENCEMENT ADDRESS:** Dr. Bowen, "On Living in a Revolution."

**CONFERRING OF ROTC CERTIFICATES:** Vice President Shepherd will introduce Colonel Beard, Captain Marshall, and Major Gill, who will present the candidates for commissions in their respective services. Certificates of ROTC completion will be presented by President Wilson.

**PRESENTATION OF CANDIDATES:** Vice President Shepherd will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction, Dean Thompson for the General Extension Division; Dean Morse for the General College; Associate Dean Turnbull for the College of Liberal Arts; Associate Dean Vaughan for the University College; Dean Spilhaus for the Institute of Technology; Assistant Dean McFarland for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Keller for the College of Education; Professor Glaskowsky for the School of Business Administration; Associate Dean Netz for the College

of Pharmacy; Associate Dean Cavert for the College of Medical Sciences; Dean Crawford for the Graduate School.

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

SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION: Mr. Willson, who will introduce Mr. Haislet.

PRESENTATION OF DIPLOMAS: With Vice President Wenberg 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 Wilson 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, 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: Mr. Bleye, organist.

*Prelude in E Flat Major* - - - - - *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 as indicated on those listed below and upon such others as may meet the requirements for the Reserve Officers in the Armed Services.

## **DEPARTMENT OF MILITARY SCIENCE**

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

William D. Levering, Long Lake

### **Second Lieutenant, Armor**

Edward G. Gale, Jr., St. Paul

### **Second Lieutenant, Army Intelligence**

Louis C. Suplick, Minneapolis

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

Pierce B. MacKay, Minneapolis

Peter F. Ucko, Minneapolis

### **Second Lieutenant, Ordnance Corps**

Richard A. Krahn, Minneapolis

Terry N. Telke, Minneapolis

Raymond E. Paulson, Jr., Minneapolis

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

Bruce G. Strand, Minneapolis



## **DEPARTMENT OF NAVAL SCIENCE**

### **Ensign, USN**

James M. Gill, Minneapolis

David M. Musolf, St. Paul

### **Ensign, SC, USNR**

Richard P. Taylor, Jr., Excelsior

## **DEPARTMENT OF AEROSPACE STUDIES**

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

David A. Arneson, Minneapolis

Charles L. Thysell, St. Paul

# *Candidates for Graduation* \_\_\_\_\_

Subject to the completion of all curriculum requirements at the close of the 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**

### **Accounting Certificate**

Frederick Albert Perlich, Minneapolis

### **Engineering Science Certificate**

Ralph Edison Barr, Jr., St. Paul

Richard Kin, New York, N.Y.

### **General Engineering Certificate**

Ronald Albin Larson, Minneapolis

## **GENERAL COLLEGE**

### **Associate in Arts**

Georgettia Jean Amrhien, Minneapolis

Suzanne Ellen Andersen, Minneapolis

Gary Jerome Anderson, St. Paul

John David Anderson, Minneapolis

John Harrington Anderson, Alexandria

Michael Paul Anderson, Minneapolis

Roger Alan Anderson, St. Paul

Hazen Dean Arnold, Minneapolis

Ruben Joe Arrington, Minneapolis

Ward Casler Ausman, Minneapolis

Bruce Travis Baldwin, Minneapolis

Michael Robert Bassett, Minneapolis

Paul Sigurd Becken, Minneapolis

Curtis Wayne Beireis, St. Paul

Helen Dianne Bertelson, Hopkins

Donald Richard Bixby, Bloomington

Bruce Bernhard Boehlke, Minneapolis

Michael Gary Bohn, St. Paul

Robert Kirk Brinkman, Minneapolis

Sherwin Filmore Brodsky, Minneapolis

Beverly Antoinette Bruneau, Minneapolis

James Robert Buck, St. Paul

Timothy Hart Burbank, Minneapolis

David Boe Burtness, Robbinsdale

Jerome Joseph Cain, Corcoran

Robert Allen Cameron, Minneapolis

Herbert James Carruthers, Minneapolis

James Michael Cassidy, Minneapolis

Robert Donald Causse, South St. Paul

Joan Gail Cederstrand, Minneapolis

Dennis Dalton Chatterton, Excelsior

Richard Glen Chelgren, St. Paul

JoAnn Lydia Christoferson, Minneapolis  
 Daryl Paul Clark, Minneapolis  
 Ilana Sue Clarren, Minneapolis  
 Perry Michael Cohler, St. Paul  
 Judy Lee Copa, Floodwood  
 Craig Carroll Corah, Minneapolis  
 Michael Henry Dahlmeir, Minneapolis  
 Thomas Lee Dale, St. Louis Park  
 Bryan John Daniels, Fridley  
 Walter Barta Denison, Minneapolis  
 John David Dewar, Minneapolis  
 James Frank Dickerson, St. Paul  
 Robert James Donnett, Stillwater  
 James Richard Enroth, Edina  
 Joan Arlene Erickson, Minneapolis  
 Richard Duane Erickson, Minneapolis  
 Ronald Dean Erickson, Minneapolis  
 Thomas Wilbrod Fahey, St. Paul  
 Timothy Lee Gadler, St. Paul  
 David Harold Garven, Minneapolis  
 Bruce Gary Glassman, St. Paul  
 James Anthony Grabowske, Minneapolis  
 Gary Bruce Grangroth, Minnetonka  
 Barbara Hovanetz Gray, Minneapolis  
 Dewey Rossevelt Greene, Minneapolis  
 Grant Dean Greseth, Watson  
 James Charles Grochowski, St. Paul  
 Gary Melvin Grose, Crystal  
 John Edward Gross, St. Paul  
 Allan John Gummow, Hopkins  
 Charles Franklin Gustafson, Minneapolis  
 Thomas H. Haight, St. Louis Park  
 Dale Wayne Hallen, Crystal  
 John Harold Halverson, Minneapolis  
 David Earl Hamberg, Minneapolis  
 Stephen Einar Hamborg, Robbinsdale  
 Roger Norman Hanes, Clarissa  
 Robert Lloyd Hangartner, Beaver Bay  
 Philip Teilmann Hansen, Minneapolis  
 Richard Myron Hanson, Minneapolis  
 Robert Benjamin Hargrove, Minneapolis  
 Robert Joseph Hebzynski, Minneapolis  
 Mark Steven Heinz, Shakopee  
 Larry Gordon Helgerson, Hopkins  
 John Wilfred Helman, Minneapolis  
 Donald Lee Hernke, Cannon Falls  
 Joseph Jeffrey Higgins, St. Paul  
 Charles Douglas Hise, Minneapolis  
 Earl Leonard Hoover, Edina  
 Gwen Joanne Hoppenrath, Minneapolis  
 Linda Jean Howard, Minneapolis  
 George Paul Huddle, St. Paul  
 Eugene Mathew Hunt, Minneapolis  
 Lionel Charles Hunter, St. Paul  
 Bruce Edward Hutchison, Minneapolis  
 Donald William Jansen, St. Paul  
 William Trent Jentink, St. Paul  
 Charles Lee Johnson, St. Louis Park  
 Harvey Dale Johnson, Minneapolis  
 Robert Warren Johnson, Minneapolis  
 Roger Gordon Johnson, Minneapolis  
 Thomas Leroy Johnson, Montevideo  
 Jaylene Abramovitz Karon, St. Paul  
 Joanne Marguerite Kellner, Robbinsdale  
 Charles Franklin Kemble, Coon Rapids  
 Keith Edmond Klett, St. Paul  
 William Ray Knetsch, Los Angeles, Calif.  
 Richard Keith Knights, Minneapolis  
 Joan Carol Knudsen, Minnetonka  
 Jay Fredrick Kreamer, Minneapolis  
 Gary Steven Krepis, Minneapolis  
 Lawrence Charles Kreuter, Minneapolis  
 David Marshall Kulenkamp, Minneapolis  
 Joanne Kay Kumagai, Minneapolis  
 Andrea Johana Labbe, Minneapolis  
 Larry Dewey David Ladwig, Canby  
 Judith Ann Larson, Minneapolis  
 Kenneth Ormand Larson, Minneapolis  
 Jerry Raymond LaShomb, St. Paul  
 Kenneth Roger Laveson, Minneapolis  
 Gerald Raymond LeValley, Minneapolis  
 Vernon Leon Levens, Minneapolis  
 John Carl Lindquist, Minneapolis  
 Paul Leroy Luxem III, Minneapolis  
 James Lawrence MacMaster, Minneapolis  
 Helen Kay Manos, St. Paul  
 Herbert William Marshall, Temple City, Calif.

Keith Jerome Martineau, West St. Paul  
 Michael William Mastro, St. Paul  
 Charles John Matson, White Bear Lake  
 Frans Graydon Matteson, Rush City  
 Robert Fredrick McFarlane, Minneapolis  
 Marsha Marie McIntyre, Wayzata  
 Victorian Leo Metzger, Minneapolis  
 Jeffrey Nordale Mills, Minnetonka  
 Alan Richard Mogol, St. Paul  
 Charles Anthony Mondyke, Minneapolis  
 Joseph Patrick Monno, St. Paul  
 George Wilde Moore, Minnetonka  
 Wayne Robert Moos, Richfield  
 Donald Kenneth Mottl, St. Paul  
 Kenneth Edward Nelsen, St. Paul  
 John Sigurd Nelson, Richfield  
 James Joseph Newbauer, St. Paul  
 Nancy Jean Niebuhr, Milwaukee, Wis.  
 Dennis Robert Nielsen, Minneapolis  
 David Dudley Nordhausen, Fairmont  
 Leonard Jerome Norman, St. Paul  
 John Gordon Nyquist, Roseville  
 Bernard James O'Grady, Minneapolis  
 Mary Josephine Olson, Minneapolis  
 Ronald Vaughn Olson, Hopkins  
 Anne Leslie Oman, Minneapolis  
 Irwin Raymond Panek, Jr., St. Paul  
 Linda Gene Patterson, Minneapolis  
 Gary Lawrence Pennewell, Edina  
 Pamela Jeanne Petersen, Minneapolis  
 Bruce Michael Peterson, Minneapolis  
 David Joel Peterson, Minneapolis  
 Ronald Allen Peterson, Richfield  
 Kathleen Ann Pillard, Minneapolis  
 Edward Jay Politinsky, Minneapolis  
 Richard Lee Potter, St. Paul  
 Christina Maria Potyondy, Minneapolis  
 Lawrence Edmund Probst, St. Paul  
 Gary Thomas Ranallo, Minneapolis  
 Gerald Thomas Regal, St. Paul  
 Thomas Edwin Rehnberg, St. Paul  
 John Sheridan Reitz, Lake Forest, Ill.  
 Dennis George Remeta, Minneapolis  
 Wayne Howard Rients, Lakefield  
 Mary Elizabeth Ring, Edina  
 Robert William Ronning, Minneapolis  
 William Alvin Roth, St. Paul  
 John Charles Salisbury, St. Paul  
 Sandra Marlene Saltzman, Minneapolis  
 Thomas Anthony Scales, Minneapolis  
 David Lloyd Scheusner, Minneapolis  
 Audrey Carol Schneider, St. Paul  
 Dennis Dale Scholtec, St. Louis Park  
 Donald James Schuldt, Minneapolis  
 Eileen Sue Sickle, Leavenworth, Kan.  
 Richard Myles Siegel, Fargo, N.D.  
 Robert James Simonet, Stillwater  
 Richard Theodore Skare, St. Paul  
 Mara Skujins, Minneapolis  
 Robert Leo Smith, Minneapolis  
 Janet Ruth Spetz, Minneapolis  
 Michael Wayne Springer, St. Paul  
 David Harvey Sproessig, White Bear Lake  
 Janice Mary Sramek, Minneapolis  
 James Hugh Stewart, St. Paul  
 Gary Paul Streng, New Richland  
 James Francis Stuhr, Minneapolis  
 Roy Owen Swanberg, Minneapolis  
 Steven John Swanholm, Minneapolis  
 Laura Lois Tanner, Minneapolis  
 Richard Leroy Vaughn, Edina  
 Daryll Maanum Velde, Minneapolis  
 George Charles Vikre, Ortonville  
 Rolf Allen Vinnes, St. Paul  
 Richard Alvin Vohs, Minneapolis  
 Thomas Patrick Wagner, St. Paul  
 Larry Ernest Wahala, Minneapolis  
 Regina Anne Weberg, Minneapolis  
 Cheryl Vicki Weinberg, St. Louis Park  
 Todd Kenneth Wennerstrom, Minneapolis  
 Dexter Lee Wesson, Minneapolis  
 Charles Rudolph Widell, Minneapolis  
 David John Wing, Minneapolis  
 Robert Bruce Winston, Jr., St. Paul  
 Hale Avery Witzman, Minneapolis  
 Robert Howell Worra, St. Paul  
 Henry Robert Wudlick, Minneapolis  
 Mary Anna Yaeger, Minneapolis  
 John Janis Zintnieks, St. Paul

# COLLEGE OF LIBERAL ARTS

## Associate in Liberal Arts

Curtis Bertsch, Minnetonka  
Nancy Jean Etten, St. Paul  
James Alfred Forrette, St. Paul  
Cheryl June Holstrom, Minneapolis  
Virginia Henriett Kaiser, St. Paul  
Barbara Irene Malmberg, Minneapolis

Linda Phyllis Marcus, St. Louis Park  
Lyle Harry Nagell, Minneapolis  
Jane Mary Ramola, Minneapolis  
JoAnn Patricia Schardt, Edina  
Bonnie M. Shapiro, Minneapolis  
Terry Howard Swenson, St. Louis Park

## Bachelor of Arts

Gail Susanna Anderson, Minneapolis  
Thomas Wilcoe Anderson, St. Paul  
Lynette Winifred Andresen, Mason  
City, Iowa  
Lester William Arlt, Glencoe  
Jeanette Anastasia Aushra, St. Paul  
Bonita Jean J. Barker, A.L.A., Minne-  
apolis  
Joan Elizabeth Benton, Minneapolis  
Nancy Lynn Johnson Bielke, Minne-  
apolis  
Gaylord John Bishop, Minneapolis  
Peter Albert Bleed, Minneapolis  
Ruth J. Fellman Block, Minneapolis  
Carol Lavonne Bremer, Red Wing  
*Margaret Mary Campbell, Minne-  
apolis, CUM LAUDE*  
David Warren Cartwright, St. Paul  
Constance Jane Cashman, Minne-  
apolis  
Stephen Bruce Casmer, Minneapolis  
Gerald Raymond Chapman, Minne-  
apolis  
Ole Leo Christensen, Aarhus, Den-  
mark  
Joann M. DeZurik Cierniak, St. Cloud  
Samuel Melvin Clark, St. Paul  
Terrence Lavern Clark, Minneapolis  
Joan Beverly Coil, A.L.A., St. Paul  
Murray Joel Cooper, Minneapolis  
Jean Curtiss, Cambridge  
Raymond Scott Davies, St. Paul  
Jane Spector Davis, St. Paul  
Donna Ellen Delaine, Wilmette, Ill.  
James Joseph Delmont, St. Paul  
Dennis Bruce Dickey, Minneapolis  
Martha Jay Drury, Richfield

John Franklin Ebner, Brainerd  
William Emil Eibrink, Minneapolis  
Richard Earl Ellingwood, Rochester  
Stephen Blood Emmett, Rochester  
Howard Bertil Engnell, Minneapolis  
Herbert Glenn Evans, Minneapolis  
Janet Fay Caroon Evans, Hibbing  
Genevieve Thompson Ferencik,  
A.L.A., Minneapolis  
*Naomi Mary Getty Fohlmeister,  
Willmar, MAGNA CUM LAUDE*  
Michola Foley, Minneapolis  
Edward Anthony Gale, Jr., St. Louis  
Park  
Patrick Vincent Galvani, St. Paul  
Rita Klingbeil Gables, R.N., Hutchin-  
son  
Anderson LeRoy Gearhart, Princeton  
John Townsend Gibbons, Minneapolis  
Phillip Allan Giesen, Minneapolis  
Robert Michael Giles, Minneapolis  
Michael David Goldner, Minneapolis  
Gene Lloyd Graves, St. Louis Park  
Michael John Greeman, St. Paul  
Rosalie G. Marsh Greeman, Minne-  
apolis  
*Richard Scott Gregory, Minneapolis,  
SUMMA CUM LAUDE*  
Robert Linus Haarman, St. Paul  
Philip Arthur Hagedorn, Minneapolis  
Alvin Knute Hagen, Little Falls  
Karen Elizabeth Sather Hagman,  
Minneapolis  
Carol Lee Halterman, G.D.H., Min-  
neapolis  
John Wayne Harris, Minneapolis  
William Lemuel Harvey, St. Paul

Terry Henry Havar, A.A., Minneapolis  
 John Russell Hedges, Faribault  
 Bruce Raymond Heinz, St. Paul  
 Nancy Lee Helgeson, Minneapolis  
 Evelyn Helen Ploetz Hemp, A.L.A.,  
 Minneapolis  
 Susan Loralee Rolph Henderson,  
 Minneapolis  
 Sally Ann Holmgren, St. Paul  
 Thomas Michael Hubler, St. Paul  
 Valerie June Malmsten Hume, Min-  
 neapolis  
 Eugene Wesley Ipsen, Minneapolis  
 Thomas Lee Jackson, A.A., Minne-  
 apolis  
 Kenneth William Jacobson, Minne-  
 apolis  
 Gary Robert Jahn, Edina, CUM LAUDE  
 Diane Arlene Johnson, Robbinsdale  
 Donna Marie Johnson, Minneapolis,  
 SUMMA CUM LAUDE  
 Lorens Edward Johnson, Center City  
 Wayne Louis Johnson, Minneapolis  
 Caryl Ann Lehman Jones, Minne-  
 apolis  
 Donna Mae Peterson Jones, Minne-  
 apolis  
 Robert Michael Josephs, Kensington  
 Thomas Orville Jukam, Howard, S.D.  
 Paul Katz, St. Paul  
 James Thomas Killeen, Minneapolis  
 Sharron DeGree Knutson, St. Paul  
 John Aloysius Kons, Minneapolis  
 Kathleen Marie Korslund, Hanska  
 Robert Luke Krawczewski, A.A., St.  
 Paul  
 David Blye Krocak, Minneapolis  
 Roger William Krueger, Bloomington  
 Timothy James Kuechenmeister, St.  
 Paul  
 Shari Ann Kutzler, West Concord  
 Jay Walter Kvale, Rochester  
 Daniel Ervin Lanoue, Marshall  
 Diane Evelyn Larson, Minneapolis  
 Pamela Joan Paige Larson, Stillwater  
 Peter Arvid Larson, Owatonna  
 Roger Ralph Lauffe, A.A., Austin  
 Judith Grisha Laurie, St. Paul  
 Richard Paul Lehan, Golden Valley  
 Merrilyn Maurer Leuthold, Minne-  
 apolis  
 Roberta Joffee Locke, Hancock, Mich.  
 Frederic Bruce Lorens, Minneapolis  
 Charles Gene Lyle, St. Paul  
 Pierce Boynton Mac Kay, Minneapolis  
 Leslie Sue Marcus, Minneapolis  
 James Arthur Marvin, Minneapolis  
 Kathleen Ann Maulik, St. Paul  
 Terence John McCloskey, St. Paul  
 Clyde Richard McCullough, Winona  
 Rosemary Magdalene Mc Dermott,  
 Chicago, Ill.  
 Robert Edward McDonald, Minne-  
 apolis  
 Mary Jane Hanmer Mc Hardy,  
 Hibbing  
 Dennis Stuart Medd, A.L.A.,  
 Waconia  
 MaryEtta Elizabeth Dwyer Moberg,  
 White Bear Lake  
 George Robert Moline, Minneapolis  
 Bryce Henry Mouw, Elk River  
 William Roger Mulligan, Luverne  
 Beverly Gay Dahl Murphey, Minne-  
 apolis  
 Elaine Margaret Murphy, North St.  
 Paul  
 Thomas William Murray, Minne-  
 apolis  
 Nancy R. Neill, Minneapolis  
 David Victor Nelson, Minneapolis  
 Raymond Daniel Nelson, Moorhead  
 Emily Calkins Nesvold, Brookings,  
 S.D.  
 Patrick Roland Norha, Ely  
 Carol Joyce Offerman, St. Paul  
 Marcia Ohlhausen, Minneapolis  
 Hans Louis Olsen, Hibbing  
 Lynda May Olson, Brainerd  
 Richard Lynn Oswald, Minneapolis  
 Katharine Lundy Patterson, St. Paul  
 Joan Berit Pedersen, St. Paul  
 Mary A. Perrizo, Norwood  
 Roger Elmer Petersen, Albert Lea  
 Frederick Darson Phillips, Minne-  
 apolis  
 Peter Frederick Powell, St. Paul  
 Joseph Edward Pung, St. Martin  
 John Craig Reitan, Bloomington  
 Keith Myles Rivard, Taylors Falls  
 James Lee Roberts, St. Paul  
 Nancy Karen Rosenblum, St. Paul

John Franklin Rudeen, St. Paul  
 Linda Lee Stillwell Rue, Cloquet  
 Angela Kathryn Ryan, Caledonia  
 Peter John Scheidler, Excelsior  
 Donna Jean Schlottman, Arlington  
 Charles Judd Schoen, Wayzata  
 Sandra Jean Nei Schulte, Goodhue  
 Judith Ann Schultz, St. Paul  
 Albert Theodore Schuster, Anoka  
 Wayne Christian Serkland, Fergus  
 Falls  
 Daniel Lee Setterberg, St. Paul  
 Paul Michael Skarstad, Moorhead,  
 CUM LAUDE  
 Gail Toba Smiler, Minneapolis  
 Harlan Paul Smith, Adams  
 Robert Edward Snook, Hopkins  
 Patricia Louise Anderson Sopper,  
 Pine City  
 Barbara Kaye Squibb, Hector  
 Diana Joy St. Mane, Minneapolis  
 Bruce Glen Strand, Fargo, N.D.  
 L. Card Suplick, Minneapolis  
 Thomas Marvin Swanson, St. Paul  
 Park  
 Russell Howard Swenson, St. Paul  
 Joyce Kathryn Hennessy Swoboda,  
 Winona  
 Richard Patten Taylor, Jr., Edina  
 Linda Janell Leatherman Thomas,  
 Minneapolis

Steven Gray Thomes, Minneapolis  
 Linda Street Thykeson, Fergus Falls  
 Robert William Trevis, Farmington  
 Peter Ferdinand Ucko, Minneapolis  
 Daniel Moore Upham III, Richfield  
 Jean Crawford Van Grasstek, South  
 St. Paul  
 Sandra Rita Wagner, Comfrey  
 Caron Marie Dick Wallen, Mountain  
 Lake  
 Paulette Elaine Eder Wank, St. Louis  
 Park  
 Patricia Justine Warhol, Minneapolis  
 LaRoy Carl Watson, A.A., Minne-  
 apolis  
 Hans O. Weber, Minneapolis, MAGNA  
 CUM LAUDE  
 Marva Cleo Webster, Minneapolis  
 Roxanne Lynn Wehrhan, Albert Lea  
 Karen Jean Whaley, Minneapolis  
 Ward Jefson Wheeler, St. Louis Park  
 Constance Joyce Willett, Minneapolis  
 Raymond Earl Williams, Minneapolis  
 Steven William Wishart, Richfield  
 John Steven Wolters, St. Paul  
 Meredith Lee Woodward, Minne-  
 apolis, CUM LAUDE  
 Nancy Michele Youngbeck, James-  
 town, N.D.  
 James Stanley Zdon, Minneapolis

## UNIVERSITY COLLEGE

### Bachelor of Arts

Judith Corinne Sorensen, Minneapolis

### Bachelor of Science

James Frank Stodola, Buffalo

# INSTITUTE OF TECHNOLOGY

## Bachelor of Aeronautical Engineering

Robert Sylvan Behrens, Northrop  
Jerry Frederick Gehler, Cameron, Wis.  
James Michael Gill, Minneapolis  
Glenn Bruce Gilyard, Minneapolis  
Bruce Raymond Koci, West St. Paul

Stephen Walter Kuhlman, Mankato  
Harold Edward Miller, Rochester  
Jack Alfred Pehrson, Minneapolis  
Michael Kirkland Welbaum, Minneapolis

## Bachelor of Agricultural Engineering

John William Reinke, Belle Plaine  
Mark Harold Sickman, Echo

Roger John Skluzacek, Webster

## Bachelor of Architecture

Glenn Edward Gauger, St. Paul  
William Henry Hennemuth, Minneapolis  
Roger Harper Martin, Jr., B.A.,  
Milton, Mass.

Richard Anthony Moren, Coleraine  
Asko Aleksanteri Rasinpera, Hibbing,  
WITH HIGH DISTINCTION  
Keith LeRoy Sjoquist, Minneapolis

## Bachelor of Chemical Engineering

James Thomas Gumbusky, West St. Paul

James Edward Peshina, Minneapolis  
Frank Winfield Wilson, Minneapolis

## Bachelor of Chemistry

Loren Richard Schreader, St. Paul

Jerald Wayne Theodorson, Perham

## Bachelor of Civil Engineering

Lee Michael Bakken, Walnut Grove  
Stephen Robert Berglund, Milaca  
Raymond Joseph Burkel, Mankato  
Raymond Philip Cekalla, Duluth  
Richard William Chambers, St. Paul

John David Ernster, St. Paul  
Leonard Carl Newquist, St. Paul  
Thomas James O'Neill, Minneapolis  
Richard James Wallace, South St. Paul

## Bachelor of Electrical Engineering

Arnold Jerry Alderman, Blaine  
Ronald Elmer Anderson, Lamberton  
David Anton Arneson, Minneapolis  
Richard Lyle Arneson, Minneapolis  
Richard Frederick Bahneman, Buffalo  
David Francis Barnard, Minneapolis

Joseph William Beloy, Aurora  
William Lowell Bergen, Albert Lea  
James William Bergstad, Appleton  
Alphonse Joseph Bernard, Jr., Minneapolis  
Rodger Jerome Bieker, Minneapolis



Lanier Clois Brumback, Minneapolis  
 Michael Anthony Bukovich, Buhl  
 Charles Irving Burton, Brainerd  
 John Michael Bylund, Mora  
 Vernon Edward Christenson, Bloomington  
 James Louis Corr, Winsted  
 Robert John Currie, Duluth  
 Richard James Denson, Minneapolis,  
 WITH HIGH DISTINCTION  
 Gary Donald Enberg, Aitkin  
 Simon Andrew Fehn, Minneapolis  
 John William Field, Minneapolis  
 John William Fraser, Jr., Duluth  
 Lyle Roger Gerdis, Mankato  
 George Harold Grenander, Jr., Minneapolis  
 Thomas Edward Hagen, Mound  
 Michael Martin Haider, Jr., St. Paul  
 Paul Eugene Hove, Bricelyn  
 Patrick Joseph Hynes, Rosemount,  
 WITH DISTINCTION  
 Russell LeRoy Johnson, Renville  
 Thomas Joseph Jorgensen, Duluth  
 Roger John Kalina, Glenwood  
 Edward Phillip Keenan, St. Paul  
 Thomas Chesley Keene, St. Paul  
 Sheldon Colby Keith, Worthington  
 Roger Paul Kochevar, Eveleth  
 Leonard Joseph Koehnen, Mahtomedi  
 Richard George Laatt, Hill City, WITH  
 DISTINCTION  
 Gary Lynn LaBelle, Minneapolis

Thomas Clarke Lohse, Slayton  
 Dennis Scott Madison, Minneapolis  
 Robert Joseph Marks, Marshall  
 John Joseph Mayer, Waco, Tex.  
 Ronald Norman Monroe, B.A., St. Paul  
 David Martin Musolf, St. Paul, WITH  
 DISTINCTION  
 James Alan Olijneck, Minneapolis  
 Michael Francis Parenteau, Two Harbors  
 Harry Stephen Peterson, Brooklyn, N.Y.  
 Gerald Harold Petricka, Northfield  
 Robert Frederick Pierson, Minneapolis  
 Ronald Alex Podpeskar, Virginia  
 John Joseph Puhék, Hibbing  
 Roger LeRoy Quam, Hawley  
 Malcolm Dennis Reid, Mound  
 Roger Lee Reifler, Buffalo  
 Reynold Joseph Renzaglia, Virginia  
 Robert Allen Rustad, Elbow Lake  
 Michael Steven Schmidt, Spring Grove  
 Gary Ellis Schmitz, Winona  
 Gary Neil Sherburne, St. Paul  
 David Charles Steiner, Minneapolis  
 Terry Norman Telke, Minneapolis  
 Hubert Joseph Thibodeau, St. Paul  
 Terry William Toivanen, Virginia  
 Jerold Lorenz Tonn, Amboy  
 Robert James Wilcox, Duluth

### **Bachelor of Geological Engineering**

Thomas Sheldon Frankson, Austin  
 Thomas Jeffrey Lien, St. Paul

James Forrest Schleuder, Austin

### **Bachelor of Geophysics**

James Joseph Frawley, St. Paul

Delwyn Carval Piepenburg, Hutchinson

### **Bachelor of Mechanical Engineering**

David Elgar Aakre, A.A., Spring Valley, WITH DISTINCTION  
 Thomas Carlyle Basterash, International Falls

William Arthur Becker, St. Paul, WITH DISTINCTION  
 Floyd Kenneth Berger, Alberta  
 Alan James Cappel, Chisholm

*Kenneth Harold Danner, South St. Paul, WITH HIGH DISTINCTION*  
 Barney Dennis Dolby, St. Paul  
 Raymond Phillip Harrod, Jr., Mahtomedi  
 Fayiz K. Hilal, St. Paul  
 Robert Francis Hoeft, Lake City  
 Alfred Joseph Hoerner, St. Paul  
 Dale Walter Hoverman, St. Paul  
 Frank Anthony Janezich, Chisholm  
 Ellard Harold Krohnfeldt, Minneapolis  
 Loren Roger Kuusinen, St. Cloud  
 James Martin Maybach, Edina

Sidney Lou Messner, Hancock  
 Darrel Arthur Nelson, Richfield  
 Frederick D. O'Malley, Worthington  
 Donald Dean Schaefer, Minneapolis  
 Marvin Steven Seppanen, Alexandria,  
 WITH DISTINCTION  
 Andrew Caperton Shorter, Rochester,  
 WITH DISTINCTION  
 Orlo Eugene Soland, Duluth  
 Samuel Henry Stenson, Minneapolis  
 Joseph Louis Walkner, Minneapolis  
 Eugene Arthur Yonkovich, Lafayette  
 Dennis Eldon Zeidler, Annandale

### **Bachelor of Metallurgical Engineering**

Gary Frank Dolinar, Chisholm  
 Richard Allan Krahn, Minneapolis  
 Robert Samuel McClocklin, Owatonna  
 Charles LeRoy Thysell, North St. Paul  
 David Lyman Wockenfuss, Bloomington

### **Bachelor of Mineral Engineering**

John Charles Gould, Warba  
 Jon Frederic Voedisch, Minneapolis

### **Bachelor of Physics**

David Charles Black, Minneapolis

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

### **Bachelor of Science**

Henry Peter Anderson, Meadowlands, Forestry  
 Charles Joel Arntzen, Granite Falls, Agriculture  
 Howard Allan Aune, A.A., Grand Rapids, Forestry  
 Richard Andrew Baxter, Robbinsdale, Agriculture  
 Roderick Reid Bevis, Duluth, Agriculture  
 John Edmund Buenger, Minneapolis, Forestry  
 Sondra Irene Burfield, Houston, Home Economics  
 Wilmot A. Campbell, Bloomington, Agriculture  
 Judith Marion Carlson, Welch, Home Economics  
 Bjorn Martin Dahl, Minneapolis, Forestry  
 John Lee DeBoom, Avoca, Agriculture  
 Herbert Richard DeVries, Puposky, Forestry

Robert Thomas Dumke, Minneapolis, Agriculture  
 James Maurice Duxbury, Harmony, Agriculture  
 Martin Albin Erickson, Grand Rapids, Forestry  
 David Charles Feser, Wayzata, Agriculture  
 Wayne Louis Fischer, Lake Park, Iowa, Agriculture  
 Richard Wayne Geary, Owatonna, Forestry  
 Dennis Brent Gilbertson, Minneapolis, Agriculture, WITH DISTINCTION  
 Theos Arthur Grove, Hinckley, Agriculture  
 Robert James Gustafson, Red Wing, Forestry, WITH DISTINCTION  
 Mark Paul Haak, Stillwater, Agriculture  
 Chari Miller Hansen, Minneapolis, Home Economics  
 Kathleen Mary Haven, Minneapolis, Home Economics  
 VickyRae Hawes, Litchfield, Home Economics  
 Linnea Diane Hetherington, Bloomington, Home Economics  
 Philip Laverne Johnson, Roseau, Agriculture  
 Susan Bergford Johnson, Minneapolis, Home Economics  
 Kathleen Margaret Kiehn, Annandale, Home Economics  
 Edith V. Lagzdin, Hopkins, Home Economics  
 Jan Elin Larson, St. Paul, Home Economics  
 David Charles Lothner, B.S.B., Red Wing, Forestry, WITH DISTINCTION  
 James Marinaccio, Blauvelt, N.Y., Agriculture  
 Mary Elizabeth McKeen, St. Paul, Home Economics  
 Martin Gary Muske, Vernon Center, Agriculture  
 Allen Wayne Nelson, New Richland, Agriculture  
 Glenn Lawrence Nelson, Elbow Lake, Agriculture, WITH HIGH DISTINCTION  
 Malcolm Theodore Olson, Becker, Agriculture  
 Lois Arlene Rajala, Bigfork, Home Economics  
 David Newell Ree, Hanley Falls, Agriculture  
 Stephen Meyer Remmert, Springfield, Agriculture  
 Paul Lee Rice, Dover, Agriculture  
 John Fabian Ritz, Mankato, Agriculture  
 Daryl John Sauer, Minneapolis, Forestry  
 Patrick Floyd Sipes, Altoona, Pa., Agriculture  
 Elna May Thurston, New Brunswick, N.J., Home Economics  
 Donald Paul Untiedt, Edgerton, Agriculture, WITH DISTINCTION

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

### Bachelor of Science

John William Daly, St. Paul, Agricultural Education  
 Patricia Katherine Hall, Minneapolis, Home Economics Education  
 Joseph Anthony Hobson, LeCenter, Agricultural Education  
 Patricia Louise Jacobson, Eveleth, Home Economics Education  
 Duane Gary Leach, Winnebago, Agricultural Education  
 Virginia Elizabeth Mumm, Minneapolis, Home Economics Education

Paul R. Runyan, Bushnell, Ill., Agricultural Education  
Patricia Anne Taylor, Richfield, Home Economics Education

Chuck Merrill Will, Jordan, Agricultural Education

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

### Bachelor of Agricultural Business Administration

Jerome Gilbert Arnold, B.S., Paynesville

Gary Donald Sonstegard, Paynesville

## COLLEGE OF EDUCATION

### Bachelor of Science

Mary E. Root Alderson, Minneapolis

Christine Ann Anderson, B.A.,  
Brainerd

Janet Mary Smith Anderson, Minneapolis

Phyllis Sophie Anderson, St. Paul  
Constance Eve Haenny Baker, Edina  
Kathleen Ann Ball, St. Paul

Norman Clayton Bang, Minneapolis  
Kathryn Sara Behrend, Minneapolis  
Neson Neal Berman, A.A., Minneapolis

Curtiss Carlton Blake, Bloomington  
Dennis Franklin Blom, Richfield  
Margaret Anne Born, Minneapolis

Herbert Allen Brenden, New Brighton  
Mary Katherine Brenner, Minneapolis  
Deanna Schricker Briese, Minneapolis  
Elaine Charlotte Brohaugh, St. Paul  
David McCallum Brooks, A.A.,  
Rochester

Gerald Michael Brown, St. Paul  
Diane Rose Buhlmann, Aitkin

Jo-Ann Nielsen Butt, St. Louis Park,  
WITH DISTINCTION

Judith G. Carter, Minneapolis  
Elizabeth Shuman Clark, B.A., St.  
Paul

JoAnne Marie Colvin, St. Paul

Merlin Clay Cridlebaugh, Minneapolis

Ruth Marie Cronin, Minneapolis

Janet Sue Dahl, St. Paul

Marie Kraemer Delaney, Crystal  
Margaret Ann Del Grande, Hibbing

Patricia Marie DeMont, Excelsior

Robert Earl Drolet, Burnsville

Ingeborg Heinke Droune, Minneapolis

Vernon Sam Ege, Minneapolis

Phyllis Perlman Ettinger, Bloomington

Helen Cleone Feigum, Hancock

Dola Miller Francis, Stillwater

Burton Donald Frink, B.A., Duluth

Elaine Alma Funk, Mound

Jean Carol Goodrich, B.S.B., Wilson,  
N.Y.

Joseph Mark Gooley, Minneapolis

Joan Margaret Gotzian, B.A., Minne-  
apolis

Nancy Helen Hanna, St. Paul

Jacquelyn Jill Heacock, Edina

Barbara Ann Hedensten, Minneapolis

Bonnie Jean Heinen, St. Paul, WITH  
DISTINCTION

Jean Brenchley Henderson, B.A., St.  
Paul

Janet Marie Hetland, B.A., Minneapolis  
 Barbara Ann Higley, Minneapolis  
 Diane Carol Knutson Hilleman, Hastings  
 Robert Frank Hollinbeck, Minneapolis  
 Carolyn Marie Wakefield Idso, Duluth  
 Karen Marie Isaacson, Kimball  
 Barbara Lee Jensen, Edina  
 Donald Robert Johnson, B.A., Minneapolis  
 Joan Marie Johnson, Minneapolis, WITH DISTINCTION  
 Patricia Ann Johnson, Minneapolis  
 Sandra Lee Johnson, Western Springs, Ill., WITH DISTINCTION  
 Judith Marion Jungwirth, Minneapolis  
 Gale Betty Kaplan, B.A., Minneapolis  
 Cathleen Mary Kelder, B.A., Minneapolis  
 Justine Deutsche Kelly, St. Paul  
 Danny Monroe King, St. Paul  
 Robert John King, Kingston, Mass.  
 Tyrone Peter Knoff, B.A., Glenwood  
 William John Kopp, B.S.B., Minneapolis  
 Donna Jean Kremer, Perham  
 Jane Eleanor Larson, Cambridge  
 Jeanne Rae Kussrow Larson, Coon Rapids  
 William Dodd Levering, Long Lake  
 Peggy Rose Litchfield, Minneapolis  
 Judd Mark Ludlow, Cook  
 Carol Roberts Lutz, Durant, Okla.  
 Regina Hazel Mallett, St. Paul  
 Marian Palmquist Malstrom, Anoka  
 Nora Jasvee Mattsson, B.S.B., Minneapolis  
 Patricia Ann McFaden, St. Paul  
 Patricia Elaine McGrail, South St. Paul  
 Karen Lee Meixell, Albert Lea  
 Marietta Elaine Merrick, Minneapolis, WITH DISTINCTION  
 Susan Marie Moffett, Excelsior  
 Karin Molander, B.A., Minneapolis  
 Catherine Grace Mullen, A.L.A., St. Paul, WITH DISTINCTION  
 Nancy Marie Nachtsheim, Minneapolis  
 Gerald Clarence Nelson, Minneapolis  
 John Carlton Nelson, Minneapolis  
 Susan Ruth Nelson, B.A., Minneapolis  
 Roger Wesley Olson, Minneapolis  
 Geraldine Susanne Ouellette, St. Paul  
 Elizabeth Grow Patten, Faribault  
 John Charles Patten, Faribault, WITH DISTINCTION  
 Raymond Eugene Paulson, Jr., Minneapolis  
 James Turnham Pearson, Minneapolis  
 Grace Ann Peter, St. Paul  
 Lynn Ann Peterson, St. Paul  
 Constance Marie Pfeifer, Minneapolis  
 Carl Giovanni Pheil, Minneapolis  
 Gayle Darlene Plocker, Hopkins  
 Ruth Anne Jacobson Plourde, Stillwater  
 Jane E. Rogers Preston, White Bear Lake, WITH DISTINCTION  
 Sharon Mary Regan, Edina  
 Connee Quinn Rundquist, Watertown  
 Shirlee Ann Saatzler, St. Paul  
 Virginia Rose Schultz, Minneapolis  
 Wendy Joelaine Seagren, Minneapolis, WITH DISTINCTION  
 Rita Ann Dancik Shomonta, Minneapolis  
 Marcia Nelson Smith, Lindstrom, WITH DISTINCTION  
 Barbara Ellen Stein, Minneapolis  
 Marion Georgann Trovatten, Hanley Falls  
 Alice Lillian Voss, St. James  
 Gracy E. Carlson Waugh, Minneapolis  
 Donald Dean Week, A.A., B.A., Rochester  
 Jenny Marliese Durrenmatt Wegner, St. Paul  
 Barbara Ramsey Wehr, Edina  
 Darryl John Welde, A.A., St. Anthony Village  
 Donald Ralph Wentworth, Ortonville  
 Kathleen Anne Gaddis Wilson, Minneapolis  
 Ann Marie Woodward, Richfield  
 Dawn Dorothy Young, St. Paul  
 Karen Mary Zuercher, St. Paul, WITH DISTINCTION

## Master of Education

Andrew Paul Slater, Jr., B.S., Black River Falls, Wis.

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Lois Carolyn Lee, Minneapolis

### Bachelor of Science in Business

- Roy Edward Abbott, Bloomington  
Joseph Wilfred Barrett, Lakeville  
Raymond Joseph Boll, St. Bonifacius  
Frank Albert Brooke, Minneapolis  
Robert Enno Buuck, Minneapolis  
Robert Gerald Cahill, St. Paul  
Charles Arthur Carlson, Minneapolis  
Gary Allen Carlson, A.L.A., St. Louis Park  
Douglas C. Christoffersen, Stillwater  
Roger Vincent Crary, B.S. with distinction, M.A., Minneapolis  
Gerald Ervin Dannheim, New Ulm  
Robert Joseph Devaney, Minneapolis  
Leonard Paul Dorrian, Minneapolis  
Vincent Gerald Ella, A.A., Minneapolis  
Richard Jon Ellingson, Minneapolis  
Bruce Norman Theodore Engman, Minneapolis  
Ronald William Esau, A.A., Rochester  
John Frederick Farrington, Minneapolis  
Todd Stephen Ferguson, Minneapolis  
Jerry Paul Foley, South St. Paul  
Jerome James Goulet, Minneapolis  
Gary Martin Hackenmueller, B.A., Minneapolis  
John Edward Haggart, St. Paul  
William Henry Hanson, Jr., Minneapolis  
John Elroy Harrington, St. Paul  
William Lane Harris, Wayzata  
Lawrence Joseph Haselberger, Jr., St. Paul  
Rolland Michael Hokanson, Morris  
Douglas Patrick Hrdlicka, Stewartville  
Vern Lee Jarosak, St. Louis Park  
Ralph Duane Johnson, New Brighton  
Thomas Martin Kaliher, Minneapolis  
Richard John Kasner, Minneapolis  
Gary Marion Kurtzahn, Minneapolis  
Roy Hood LaFayette, Minneapolis  
James William Larson, A.A., Minneapolis  
Paul Robert Larson, St. Paul  
Stephen Wayne Marquesen, Hopkins  
*John William McCallum, Pipestone,*  
WITH DISTINCTION  
Harvey Henry Mills, A.A., White Bear Lake  
Marshall Arthur Ness, Minneapolis  
*Russell Blaine Noble, Robbinsdale,*  
WITH DISTINCTION  
William Peter Norell, Cambridge  
Patrick O'Halloran, St. Paul  
Donald Benjamin Olson, Minneapolis  
*Gary Steven Olson, A.L.A., Richfield,*  
WITH DISTINCTION  
William Charles Olson, Minneapolis  
Russell Alva Otto, Richfield  
Ronald Wayne Peters, Minnetonka Beach  
Bruce Meldean Piepho, St. Paul  
Richard Dean Schultz, Minneapolis  
Richard Alan Schwartz, West St. Paul  
Thomas Anthony Shomion, St. Paul  
*Sherwin Leland Singaas, Minneapolis,*  
WITH HIGH DISTINCTION  
George Warren Sonnichsen, Dodge Center  
Robert Charles Steiner, Jr., St. Paul  
Dwight Alan Strand, Bloomington  
Douglas Ernest Swenson, Chisholm

Douglas Adrian Watnemo, Fosston  
Michael Andrew Westergreen, Minneapolis

Raymond Oliver Wolcott, Jr., Minneapolis  
Stephen James Yurick, Fridley

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

Wallace Arthur Bengtson, Braham  
Richard Wallace Blood, St. Paul,  
WITH DISTINCTION  
Steven C. Bundul, Minneapolis

Gerald Jerome Ellingson, Minneapolis  
Darrel Michael LoCascio, Minneapolis  
Abbas K. Mawanda, Minneapolis  
Thomas Jeriel Owens, Crookston

## **COLLEGE OF PHARMACY**

### **Bachelor of Science in Pharmacy**

Cyrus Brooks Elliott, Jr., St. Paul  
Bruce Marcus Erickson, B.S., Minneapolis  
Gary Kenneth Gustafson, A.A.,  
Excelsior

Donald John Hagberg, Mound  
James Michael Holm, St. Louis Park  
Keith Duane Johnson, Minneapolis  
William Clarence Marquette, Duluth  
John Robert Wittren, Minneapolis

## **COLLEGE OF MEDICAL SCIENCES**

### **Bachelor of Science**

Carol Nancy Debelak, Hibbing,  
Medical Technology\*  
Barbara Jane Drosman, Fairmont,  
Medical Technology\*  
Marilyn Dawn Lauring, International  
Falls, Medical Technology\*  
Linda Ann Lewis, Minneapolis, Medi-  
cal Technology\*  
Jan Marie Lindstrom, A.A., Ranier,  
Medical Technology\*  
Linda Louise Livingston, A.A., Ro-  
chester, Medical Technology, WITH  
DISTINCTION\*

Julia Ann Mattson, Hibbing, Medical  
Technology\*  
Judith Ann Rodda, Eveleth, Medical  
Technology\*  
Pamela Lucille Schaaf, Minneapolis,  
Medical Technology\*  
Virginia Mary Seabold, St. Paul,  
Medical Technology\*  
Mary Elizabeth Severn, Fergus Falls,  
Medical Technology\*

### **Master of Public Health**

Constance Catherine Gass, B.S.,  
Bloomingdale, N.J.

Darleen Louise Sickert, B.S., Waverly,  
Iowa

### **Doctor of Medicine**

Bruce Martin Carlson, B.A., M.S., Minneapolis

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\* These degrees are conferred subject to the completion of practical work prior to March 19, 1966.

# GRADUATE SCHOOL

## Master of Architecture

James Edward Dalton, Fostoria, Ohio  
B.Arch. '64, Miami University. Major: Architecture. Minor: City Planning. Thesis: A Hotel, Office, and Apartment Complex for the State Capitol of Minnesota.

Donald Duane Dommer, Moorhead  
B.Arch. '63, University of Minnesota. Major: Architecture. Minor: Art. Thesis: A Plan and Design for a Small College.

Raymond Casimer Matulionis, Racine, Wis.

B.Arch. '61, University of Illinois. Major: Architecture. Minor: City Planning. Thesis: Church Architecture and the Changing Liturgy.

Shiv Inderpal Singh, Chandigarh, India

B.Arch. (Hons) '60, Indian Institute of Technology (India). Major: Architecture. Minor: City Planning. Thesis: High Density Housing for Riverside Park Community Minneapolis, Minnesota.

## Master of Arts

Max Lee Amberson, Helena, Mont.  
B.S. Agric. '55, Montana State College. Field of Concentration: Agricultural Education.

Robert Richard Anderson, Minnetonka Beach  
B.A. *cum laude* '62, B.S. '64, University of Minnesota. Field of Concentration: Art Education.

Roger Hartley Anderson, Minneapolis  
B.A. '63, Carleton College. Field of Concentration: Educational Psychology.

William Ward Anderson, St. Paul  
B.A. *cum laude* '64, University of Minnesota. Field of Concentration: Psychology.

Richard L. Archer, New Brighton  
B.S. '60, University of Minnesota. Field of Concentration: Educational Psychology.

Raymond Joseph Arko, Bloomington  
B.S. '48, M.A. '61, University of Minnesota. Field of Concentration: Educational Psychology.

Carol Lundberg Avelsgaard, Northome  
B.A. *magna cum laude* '60, University of Minnesota. Field of Concentration: Mathematics.

Harris L. Balko, Almena, Wis.  
B.S. '54, Wisconsin State College (Superior). Field of Concentration: Music Education.

Judith Deutsch Bennett, New York, N.Y.  
B.A. *cum laude* '55, City College of New York. Major: Sociology. Minor: Anthropology. Thesis: The Would-Be Architect: A Study of Social Factors Relating to Success and Failure in Occupational Choice.

Marilyn Joyce Benson, Bigelow  
B.A. with highest honors '62, Bethel College. Field of Concentration: English.

Ronald Leland Benson, New Hope  
B.A. *cum laude* '56, St. Olaf College. Field of Concentration: Educational Psychology.

David Arvin Berkus, St. Paul  
B.A. '64, University of Minnesota. Field of Concentration: Journalism.

Daniel Alexander Bever, Marine on St. Croix  
B.A. '54, College of St. Thomas. Field of Concentration: Educational Administration.

Duane Ardell Bingham, Minneapolis  
B.S. '58, Iowa State University. Field of Concentration: Industrial Education.



Sister Mary Hildebrand Boeckers, St. Paul

B.A. '55, College of St. Benedict. Field of Concentration: Latin.

Linda Swanson Bradley, Glastonbury, Conn.

B.A. magna cum laude '60, Bates College. Field of Concentration: Curriculum and Instruction.

James Arlyn Bragg, Aurora, Ill.

B.A. '59, Elmhurst College. Field of Concentration: Educational Administration.

William D. Brunner, Rochester

B.S. '60, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Elisabeth Bruncke Burch, Alexandria, Va.

B.A. magna cum laude '29, Macalester College. Major: Library Science. Minor: General Science. Thesis: Description of Procedures for the Professional Staff of the *Bibliography of Agriculture* Published by The National Agricultural Library, United States Department of Agriculture.

Ronald Robert Burland, New Brighton

B.S. '60, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Robert Charles Colligan, Bagley

B.S. '60, Bemidji State College. Field of Concentration: Educational Psychology.

David Arthur Corsini, Westwood, Mass.

B.A. '61, Bowdoin College. Major: Child Psychology. Minor: Educational Psychology. Thesis: The Relative Effectiveness of Different Consequences for Incorrect Responses in Children's Learning.

Marilyn Joan Olson Dahm, Rapid City, S.D.

B.S. '54, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Bernard Robert Dailey, Inver Grove Heights

B.S. '60, Wisconsin State College (River Falls). Field of Concentration: Educational Psychology.

Joan Deines, Kingman, Ariz.

B.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Arthur David Dittberner, St. Paul

B.S. Educ. '55, Concordia Teachers College. Field of Concentration: Curriculum and Instruction.

June Markgraf Dunn, Renville

B.S. Educ. '58, Concordia Teachers College. Field of Concentration: Curriculum and Instruction.

Beverly Corinne Durkee, Minneapolis

B.A. '52, B.S. Law '53, B.S. '63, University of Minnesota. Field of Concentration: Mathematics.

Donald Lawrence Empson, Marine on St. Croix

B.A. '65, University of Minnesota. Field of Concentration: Library Science.

Arthur David Erickson, Sauk Centre

B.S. '56, St. Cloud State College. Field of Concentration: Library Science.

Rodney Oscar John Erickson, Glenwood

B.A. '56, Augsburg College. Field of Concentration: Library Science.

Mary Janice Fariday, Minneapolis

B.S. Educ. '38, University of Nebraska; B.S. '60, University of Minnesota. Field of Concentration: Curriculum and Instruction.

David John Field, Chichester, Sussex, England

B.A. (Hons.) '64, University of Leicester (England). Field of Concentration: Sociology.

Patricia Hills Finlayson, Dhahran, Saudi Arabia

B.A. *summa cum laude* '61, Rice University. Major: History. Minor: Political Science. Thesis: Resistance Theory in *Du Droit Des Magistrats*.

John Robert Finnegan, Sr., St. Paul

B.A. magna cum laude '48, University of Minnesota. Major: Journalism. Minor: Political Science. Thesis: The Press and the Pullman Strike: An Analysis of the Coverage of the Railroad Boycott of 1894 by Four Metropolitan Daily Newspapers.

**Ursula Freyseng, Berlin, Germany**

Free University of Berlin (Germany). Major: Sociology. Minor: Economics. Thesis: The Relation of Maternal Employment to Family Support Patterns.

**Elizabeth Ann Furnish, Iowa City, Iowa**

B.A. '64, State University of Iowa. Field of Concentration: Library Science.

**Arlene Aretta Welch Gable, Minneapolis**

B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

**Janet Olive Gage, Marathon, Wis.**

B.S. '53, Viterbo College. Field of Concentration: Educational Psychology.

**Charles Mallory Gaile, Minneapolis**

B.A. '63, University of Minnesota. Major: Political Science. Minor: Sociology. Thesis: Politics and Economics in Imperial Russia: A Case Study in the Prerequisites of Industrial Take-Off.

**Katherine Mawdsley Garosi, Wilmington, Del.**

B.A. '61, University of Delaware. Field of Concentration: Library Science.

**Frank Geretz, Minneapolis**

B.A. *magna cum laude* '61, University of Minnesota. Field of Concentration: Mathematics.

**Patrick George Gerster, St. Paul**

B.A. '64, College of St. Thomas. Field of Concentration: American Studies.

**Dennis Vernon Gilbertson, Spring Valley, Wis.**

B.S. '61, Wisconsin State College (River Falls). Field of Concentration: Education.

**John Adolph Gjernes, Livonia, Mich.**

B.S. '56, Bemidji State College. Field of Concentration: Physical Education.

**Arthur J. Gohl, St. Paul**

B.S. '63, University of Minnesota. Field of Concentration: Industrial Education.

**William Harry Grandjean, Columbia Heights**

B.S. '49, University of Minnesota. Field of Concentration: Educational Administration.

**Howard Lewis Hall, Minneapolis**

B.A. '58, University of Minnesota. Field of Concentration: Library Science.

**Lloyd Arvid Halvin, Covina, Calif.**

B.S. '59, University of Minnesota. Field of Concentration: Industrial Education.

**Mohamed Nabil Hamdy, Cairo, Egypt, United Arab Republic**

B.A. '57, Cairo University (Egypt). Field of Concentration: Library Science.

**Susan Jean Harley, St. Paul**

B.A. *cum laude* '64, University of Minnesota. Field of Concentration: Psychology.

**Larry Allen Harris, Minneapolis**

B.S. with honors '62, St. Cloud State College. Field of Concentration: Educational Psychology.

**Othmar Bernard Henkel, Fond Du Lac, Wis.**

B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

**Dennis Richard Henneman, Chippewa Falls, Wis.**

B.A. '62, North Central College. Field of Concentration: Speech and Theatre Arts.

**Roger William Hoel, New Hope**

B.S. '57, University of Minnesota. Field of Concentration: Education.

**Carol Gay Horvei, Minneapolis**

B.S. with distinction '61, University of Minnesota. Field of Concentration: Physical Education.

**Jerry Shao-Shiong Huang, Kiangsi, China**

B.A. '59, National Chengchi University (China). Field of Concentration: International Relations.

**Jeremy Michael Hughes, Lansing, Mich.**

B.A. '62, University of Dayton. Field of Concentration: Educational Administration.

Nematallah Naguib Ibrahim, Alexandria, Egypt, United Arab Republic  
B.Com. (Econ.) '60, Alexandria University (Egypt). Field of Concentration: Economics.

Alice Amelia Jacobsen, Minneapolis  
B.A. '53, Augsburg College. Field of Concentration: Educational Psychology.

Sigurd Karl Jacobson, St. Paul Park  
B.S. '59, University of Minnesota. Field of Concentration: Educational Administration.

Ann Cartwright Jaede, Minneapolis  
B.S. '57, University of Minnesota. Field of Concentration: Educational Psychology.

Marcia Sandro Janke, Holloway  
B.S. '60, General Beadle State Teachers College. Field of Concentration: History.

John Richard Jerhoff, Jr., St. Paul  
B.S. '63, University of Minnesota. Field of Concentration: Educational Administration.

Troels Johansen, St. Hedinge, Denmark  
Diploma '63, Jonstrup Statsseminarium (Denmark). Field of Concentration: Education.

Charles Berthil Johansson, Minneapolis  
B.A. '64, University of Minnesota. Field of Concentration: Psychology.

Donald Guy Johnsen, Kenmare, N.D.  
B.S. '55, North Dakota State University. Field of Concentration: Agricultural Education.

Albert Arthur Johnson, Bagley  
B.S. '60, Bemidji State College. Field of Concentration: Educational Psychology.

David Jon Johnson, Rochester  
B.A. '59, University of Minnesota. Field of Concentration: Library Science.

Donald Frederick Kasbohm, Minneapolis  
B.S. with honors '62, St. Cloud State College. Field of Concentration: Curriculum and Instruction.

John Dickson Kendall, Minneapolis  
B.A. cum laude '48, M.A. '51, Harvard University; M.A. '64, University of Minnesota. Major: Library Science. Minors: English and Italian. Thesis: Juan Gonzalez De Mendoza and His *Historia De La China: An Essay in Historical Bibliography*.

Rhoda Helyne Kimmel, Philadelphia, Pa.  
B.S. Educ. with distinction '53, University of Minnesota. Field of Concentration: Speech Pathology.

Darrell Ronald Kinning, St. Paul  
B.S. '58, University of Minnesota. Field of Concentration: Industrial Education.

Sister Laurice Koering, Eau Claire, Wis.  
B.A. '40, College of St. Benedict, M.Ed. '57, University of Minnesota. Field of Concentration: Music.

Richard Norman Kohlhasse, Virginia  
B.S. '58, Bemidji State College. Field of Concentration: Educational Psychology.

Erwin Henry Kost, Pine Ridge, S.D.  
B.S. '59, Augustana College. Field of Concentration: Curriculum and Instruction.

Rosemarie Poltin Kroening, St. Paul  
B.S. with distinction '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Stark William Edward Lash, Wynne-wood, Pa.  
B.S. Educ. '56, State Teachers College (Pa.). Field of Concentration: Curriculum and Instruction.

Nancy Carol Laubengayer, Ithaca, N.Y.  
B.S. '63, Cornell University. Major: Child Psychology. Minor: Educational Psychology. Thesis: *The Effects of Training on the Spatial Egocentrism of Preschoolers*.

Sister M. Kateri LaVan, Sinsinawa, Wis.  
B.M.E. '58, Rosary College. Field of Concentration: Music Education.

Max L. Leget, Sutherland, Iowa  
B.A. *cum laude* '44, Buena Vista College.  
Field of Concentration: Library Science.

John Wayne Lewin, Minneapolis  
B.A. '61, University of Minnesota. Major:  
Speech and Theatre Arts. Minor: English.  
Thesis: An Introductory Survey of Archetypal  
Elements in Selected Plays.

Gary Libman, Burbank, Calif.  
B.A. '62, Whittier College. Field of Con-  
centration: American Studies.

Marcia Lindley, St. Cloud  
B.A. '63, Wellesley College. Field of Con-  
centration: Psychology.

James William Long, Louisville, Ky.  
B.A. '63, University of Dayton. Major: Latin.  
Minor: Classics. Thesis: The Syntax of the  
Latin Verb in Thomas of Celano's *Vita Prima*  
Sancti Francisci.

Benjamin Harry Lowenberg, New  
York, N.Y.  
B.A. '63, City College of New York. Field of  
Concentration: Industrial Relations.

Rowena Lee Mandell, Brooklyn, N.Y.  
B.A. '60, Brooklyn College. Major: Speech  
Pathology. Minor: Child Psychology. Thesis:  
An Investigation of the Relationship Between  
Motivation and Task Difficulty in Dysphasic  
Subjects.

Merry Carroll McArthur, St. Paul  
B.S. '62, University of Minnesota. Field of  
Concentration: Botany.

Patricia Ann McCauley, Minneapolis  
B.A. '57, B.S. '58, University of Minnesota.  
Field of Concentration: Curriculum and In-  
struction.

Theodore Wallace Meckstroth,  
Lewiston, Idaho  
B.A. *cum laude* '62, Whitman College. Field  
of Concentration: Political Science.

Gerald John Middents, Hopkins  
B.S. Com. with highest distinction '54, State  
University of Iowa. Field of Concentration:  
Educational Psychology.

Michael David Miller, Independence,  
Mo.  
B.S. '64, University of Kansas. Field of Con-  
centration: Journalism.

Karl Rolf Mirus, Berlin, Germany  
Free University of Berlin (Germany). Field  
of Concentration: Economics.

Kenneth Andrew Monson, Rosemount  
B.S. '48, South Dakota State College. Field of  
Concentration: Agricultural Education.

Miriam Lois Esther Monson, Still-  
water  
B.A. *summa cum laude* '61, Hamline Univer-  
sity. Field of Concentration: Educational Psy-  
chology.

Roger C. Mueller, Minneapolis  
B.A. *cum laude* '57, Macalester College. Field  
of Concentration: English.

Rachel Florence Munson, Atwater  
B.S. '58, University of Minnesota. Field of  
Concentration: Home Economics.

Karlo K. Mustonen, Logan, Utah  
B.S. '58, Utah State University. Field of Con-  
centration: Library Science.

Wayne Roger Nelson, Minneapolis  
B.S. '60, University of Minnesota. Field of  
Concentration: Industrial Education.

Phillip John Nielsen, St. Paul  
B.S. with distinction '60, University of Minne-  
sota. Field of Concentration: Education.

Corrine Ruth Nirenstein, Winnipeg,  
Manitoba, Canada  
B.A. '63, University of Manitoba. Major:  
Child Psychology. Minor: Educational Psy-  
chology. Thesis: Peers as Agents of Social Re-  
inforcement.

Yvette Marie Boe Oldendorf, St. Paul  
B.A. '61, Macalester College. Field of Con-  
centration: Political Science.

Sister Mary Jacob Orlett, Winona  
B.A. '61, College of St. Teresa. Field of Con-  
centration: Mathematics.

- Ryan Martin Ostebo, St. Paul**  
B.A. '60, Dartmouth College. Field of Concentration: History.
- Sulamit Ilse Ozolins, Minneapolis**  
Philipps University of Marburg (Germany).  
Field of Concentration: French.
- Gene John Paicurich, Minneapolis**  
B.A. '63, University of Minnesota. Major: Library Science. Minor: History. Thesis: A History of the Library Overdue Book Penalty and a Survey of Its Use Today in the University Library.
- Anthony Louis Panzica, Buffalo, N.Y.**  
B.S. '62, State University College (Buffalo, N.Y.). Field of Concentration: Educational Psychology.
- Helen Welch Parris, Minneapolis**  
B.M. '44, University of Wisconsin. Field of Concentration: Journalism.
- Diane McCleary Payne, Tucson, Ariz.**  
B.A. '60, University of Minnesota. Major: Speech and Theatre Arts. Minor: Psychology. Thesis: The Roles of Imagined Speaker and Listener in Selected Poems of E. E. Cummings.
- Lavona Irene Person, Minneapolis**  
B.A. '57, Gustavus Adolphus College. Field of Concentration: Speech and Theatre Arts.
- Alice Lorraine Peterson, Stillwater**  
B.S. with distinction '54, University of Minnesota. Field of Concentration: Educational Psychology.
- Gertrude Isabelle Piers, Albert Lea**  
B.A. '31, North Dakota State Teachers College. Field of Concentration: Educational Psychology.
- Susan Baker Prindle, Sherborn, Mass.**  
B.S. '63, Ursinus College. Major: Child Psychology. Minor: Psychology. Thesis: The Use of Selective Reinforcement Techniques in Modifying the Behavior of a Nonsocial Preschool Child.
- Joanne Kathleen Protheroe, Winnipeg, Manitoba, Canada**  
B.A. '60, B.Ed. '62, University of Manitoba. Field of Concentration: Educational Psychology.
- Franklin Delano Quam, Stewartville**  
B.S. '59, University of Minnesota. Field of Concentration: Agricultural Education.
- Carol Jean Quinn, Minneapolis**  
B.A. with honors '61, University of Florida. Field of Concentration: Library Science.
- Robert Emmett Quirk, St. Paul**  
B.A. '61, University of Minnesota. Field of Concentration: Economics.
- George Lowell Redman, Mankato**  
B.S. '63, Hamline University. Field of Concentration: Curriculum and Instruction.
- Judith Marie Ringsmuth, Wakefield, Mich.**  
B.S. '61, College of St. Scholastica. Field of Concentration: Home Economics Education.
- Diana Everett Rushing, Longview, Tex.**  
B.A. '61, University of Texas. Major: Child Psychology. Minor: Psychology. Thesis: Resistance to Temptation and Delay of Gratification in Preschool Children.
- Kenneth Edward Saelens, Hastings**  
B.S. with honor '61, Mankato State College. Field of Concentration: Education.
- William Dean Sausele, St. Paul**  
B.S. '54, Gustavus Adolphus College. Field of Concentration: Educational Administration.
- John Lowell Scherer, Jr., Minneapolis**  
B.A. *cum laude* '64, University of Minnesota. Major: History. Minor: Philosophy. Thesis: The Road Not Taken: Attitudes of Alexander Herzen and Nikolai Stankevich Toward Western Europe.
- Charles LeRoy Schmidt, Aurelia, Iowa**  
B.S. '58, Iowa State University. Field of Concentration: Agricultural Education.
- Richard Myron Schultz, Winona**  
B.S. with honor '61, Winona State College. Field of Concentration: Educational Psychology.
- Joyce Williams Sefer, Minneapolis**  
B.S. '49, University of Minnesota. Major: Speech Pathology. Minor: Psychology. Thesis: The Relationship Between Word Association and Grammatical Classes in Aphasia.

David Selby, Minneapolis

B.A. '60, Purdue University. Field of Concentration: Industrial Relations.

Raymond Ephriam Seth, Minneapolis

B.A. '63, Reed College. Major: Psychology. Minor: Mathematics. Thesis: Hitmax Cut Accuracy of a Latent Taxa Model as a Function of Sample Size.

Luther Bernhard Severtson, Canby

B.S. '58, South Dakota State College. Field of Concentration: Agricultural Education.

Margaret Ethel Sharpe, Minneapolis

B.A. with honor '56, North Central College. Field of Concentration: Curriculum and Instruction.

Sister Michael Maureen Sheil, Davenport, Iowa

B.A. '56, Marycrest College. Field of Concentration: Library Science.

Jane Sumiko Shiraki, Kapaa, Kauai, Hawaii

B.S. with distinction '63, University of Minnesota. Field of Concentration: Psychology.

Henry Esberg Sloss, Jr., San Francisco, Calif.

B.A. '62, University of California (Berkeley). Field of Concentration: English.

Janice R. Smith, Minneapolis

B.S. with distinction '57, University of Minnesota. Field of Concentration: Art Education.

Arlin Duane Snesrud, Minneapolis

B.S. '61, University of Minnesota. Field of Concentration: Music Education.

Theodore Snow Kalispell, Mont.

B.S. '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Henry Allen Snyder, St. Paul

B.S. '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Nick A. Srdar, Duluth

B.S. '56, University of Minnesota. Field of Concentration: Educational Administration.

Ann Marie Steen, Anoka

B.S. '62, University of Minnesota. Field of Concentration: Educational Psychology.

Ruth Meyerson Stein, Minneapolis

B.A. '46, University of California (Los Angeles); B.S. '61, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Barbara Jean Straus, Beverly Hills, Calif.

B.S. Educ. '63, Miami University. Field of Concentration: Journalism.

Doris Ann Swanson, Alcester, S.D.

B.A. '60, University of South Dakota. Field of Concentration: Library Science.

Sister Enid Sweeney, Duluth

B.A. '53, College of St. Scholastica. Field of Concentration: Educational Psychology.

Barth Kenneth Thompson, Ketchikan, Alaska

B.A. *magna cum laude* '50, Luther College. Field of Concentration: Library Science.

Raymond Earl Thompson, Minnetonka

B.A. '51, Gustavus Adolphus College. Field of Concentration: Educational Psychology.

Renate Christa Tietz, Minneapolis

B.A. '62, University of Minnesota. Field of Concentration: Library Science.

Kathleen Letourneau Tobias, Minneapolis

B.S. *cum laude* '57, University of Minnesota. Major: Speech Pathology. Minor: Educational Psychology. Thesis: The Social Position of Children Having Functional Articulatory Defects.

Lois Marie Toedter, Minneapolis

B.S. '56, Eastern Oregon College. Field of Concentration: Curriculum and Instruction.

Janet Kathryn Townsend, New Ulm

B.S. '58, Mankato State College. Field of Concentration: Physical Education.

Beverly Ann Travland, Duluth

B.S. *cum laude* '63, University of Minnesota. Field of Concentration: Library Science.

George Dimitri Tselos, Minneapolis  
B.A. '61, Carleton College. Field of Concentration: History.

Erman O. Ueland, Fertile  
B.S. '55, North Dakota State University. Field of Concentration: Agricultural Education.

Ronald William Underwood, Minneapolis  
B.A. '54, University of Minnesota. Field of Concentration: Library Science.

Kermit Ludwig Valleen, Lindstrom  
B.A. '60, Augsburg College. Field of Concentration: History.

Napoleon Athanassios Vassiliou, Skotoussa, Larissa, Greece  
Diploma '46, Aristotle's University of Salonica (Greece). Field of Concentration: Agricultural Education.

Herbert Raymond Voss, Portage, Wis.  
B.S. '55, Wisconsin State College (River Falls). Field of Concentration: Speech and Theatre Arts.

Keiko Kobayashi Wada, Ashikaga, Japan  
B.S. '53, Tsuda College (Japan). Field of Concentration: Statistics.

Sister M. Clementine Wagner, Milwaukee, Wis.  
B.A. *cum laude* '61, Alverno College. Field of Concentration: Area Studies: East and South Asia.

Peter YuanKai Wang, Chochiang, Republic of China  
B.Ed. '54, Taiwan Normal University (China). Field of Concentration: Physical Education.

Herbert Yorke Weber, Minneapolis  
B.A. '63, University of Minnesota. Field of Concentration: Journalism.

Martin H. Weltman, Kansas City, Mo.  
B.A. '61, Grinnell College. Field of Concentration: History.

Glen Carl Woker, Owatonna  
B.A. '57, St. Olaf College. Field of Concentration: Educational Psychology.

John Amadeus Wolter, Fridley  
B.A. '56, University of Minnesota. Field of Concentration: Library Science.

John LeRoy Youngstrom, Rush City  
B.S. *cum laude* '62, University of Minnesota. Field of Concentration: Educational Administration.

Samuel Joseph Zeoli, Philadelphia, Pa.  
B.A. '63, LaSalle College. Field of Concentration: French.

## Master of Arts in Public Administration

Darrel Leonard Grice, Laurens, Iowa  
B.S. '59, Iowa State University. Major: Public Administration. Thesis: Some Aspects of Dairy Cooperatives as Agricultural Interest Groups.

Robert William Ince, Minneapolis  
B.A. '63, University of Minnesota. Major: Public Administration. Thesis: The Application of the Sala Model to the Study of the Administration of Ghana.

Yvonne Scruggs Perry, Philadelphia, Pa.  
B.A. '55, North Carolina College at Durham. Major: Public Administration. Thesis: Launching the Leadership Program: A Case Study of Decision-Making by Philadelphia's Housing Coordinator.

Joseph Rajbansee, Manzanilla, Trinidad, W.I.  
B.A. '63, M.A. '64, University of Minnesota. Major: Public Administration. Thesis: The Application of the Bazaar-Canteen Model to the Administration of Ghana.

## Master of Business Administration

Gerald Patrick Clancy, St. Boniface,  
Manitoba, Canada

B.A. '55, University of Manitoba. Field of  
Concentration: Business Administration.

Kenneth Frank Dowell, Minneapolis

B.M.E. '48, University of Minnesota. Field of  
Concentration: Business Administration.

Robert James Kohlstedt, Minneapolis

B.S.B. '62, University of Minnesota. Field of  
Concentration: Business Administration.

Charles Roger Litecky, Minneapolis

B.A. '64, University of Minnesota. Field of  
Concentration: Business Administration.

Marvin Aloysius Luger, St. Paul

B.Aero.E. '55, University of Minnesota. Field  
of Concentration: Business Administration.

Anthony Joseph Vertin, Minnetonka

B.S. '57, Massachusetts Institute of Technol-  
ogy. Field of Concentration: Business Admin-  
istration.

Donald Raymond Wahlund, Minne-  
apolis

B.B.A. '47, University of Minnesota. Field of  
Concentration: Business Administration.

Jay Carter Warmington, Chicago, Ill.

B.S.B. '63, Miami University. Field of Concen-  
tration: Business Administration.

## Master of Fine Arts

David Luther Hanson, Albert Lea

B.A. *cum laude* '63, University of Minnesota.  
Field of Concentration: Music.

Frances Joerg Hanson, Caledonia

B.A. *cum laude* '63, University of Minnesota.  
Field of Concentration: Music.

## Master of Science

Sister Ste. Claire des Anges Angers,  
Quebec City, Quebec, Canada

B.S. with high distinction '59, University of  
Laval (Canada). Field of Concentration:  
Home Economics.

Edna Erlene Baker, Ridgeland, S.C.

B.S. '61, South Carolina State College. Field  
of Concentration: Zoology.

Leroy Allen Baker, St. Paul

B.A. *cum laude* '60, Northwest Nazarene Col-  
lege. Field of Concentration: Physics.

Barry Bruce Bare, South Bend, Ind.

B.S.F. with distinction '64, Purdue University.  
Field of Concentration: Forestry.

Carol Sander Bathke, St. Paul

B.S. '61, University of Minnesota. Field of  
Concentration: Home Economics.

Robert Edward Bell, Minneapolis

B.S. '62, Oregon State University. Major:  
Geology. Minor: Zoology. Thesis: Geology and  
Stratigraphy of the Fort Peck Fossil Field  
Northwest McCone County, Montana.

Sidney Bruce Benson, St. Paul

B.S.Pharm. '63, University of Minnesota. Field  
of Concentration: Hospital Pharmacy.

Alvin Marvin Berg, Viroqua, Wis.

B.A. '61, Luther College. Major: Organic  
Chemistry. Minor: Physical Chemistry. Thesis:  
A Comparative Synthesis of Five-Membered  
Cyclic Acyloins, Employing Heterogeneous and  
Homogeneous Acyloin Reaction Conditions.

Arthur Joseph Botting, Belle Harbor,  
N.Y.

B.S. '56, St. John's College; M.D. '60, New  
York Medical College. Major: Pathology. Mi-  
nor: Hematology. Thesis: Juvenile Fibroma-  
toses.



Harry Benson Burcalow, Bruce, Wis.

B.S. (Agric.) '61, University of Wisconsin. Field of Concentration: Dairy Husbandry.

Salvatore Frank Cagnina, Lodi, N.J.

B.S.Phys. '63, Massachusetts Institute of Technology. Field of Concentration: Physics.

Richard Joseph Callaway, New Orleans, La.

B.S. '58, Yale University. Major: Geology. Minor: Geophysics. Thesis: Selenium Content of Pyrites of the Central and Western United States.

Philip Robert Carlson, New Brighton

B.S. '57, University of Minnesota. Field of Concentration: Mathematics.

James David Clausen, Owatonna

B.S. with distinction '63, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: A Study of Low-Cycle Fatigue Damage.

David R. Cline, Virginia

B.A. '59, University of Minnesota. Major: Fisheries and Wildlife. Minor: Botany. Thesis: Woodland Pond Habitat Selection in Ducks.

Donald Elmer Dennison, White Bear Lake

B.S. '57, Gustavus Adolphus College. Field of Concentration: Entomology.

Darlene Obena Dommel, Crystal Bay

B.S. Nsg. with high distinction '63, University of Minnesota. Field of Concentration: Public Health.

Owen Sydney Durigan, Minneapolis

B.S. with distinction '58, University of Minnesota. Major: Mechanics and Materials. Minor: Aeronautical Engineering. Thesis: The Effects of Distributed Axial Forces on the Dynamic Stability of Columns.

Alan Ryan Ek, Golden Valley

B.S. with distinction '64, University of Minnesota. Field of Concentration: Forestry.

Cesaria Pamarang Eugenio, Tomano, Rosales, Pangasinan, Philippines

B.S.Agric. '61, University of the Philippines. Major: Plant Pathology. Minor: Genetics. Thesis: Genetic Studies of *Pleurotus Ostreatus* (Fr.) Kummer.

Joseph Jerome Ferretti, Chicago, Ill.

B.S. '60, Loyola University. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Studies on the RNA of *Rhodospseudomonas Spheroides* During Physiologic Adaptation.

Thomas Jelstrup Fitch, Minneapolis

B.Ch.E. '63, University of Minnesota. Major: Geophysics. Minor: Mathematics. Thesis: A Study of Short Period Microseisms Recorded in Northern Alaska.

Helen Dorothy Furber, Portland, Ore.

B.S. '64, University of Oregon. Field of Concentration: Public Health.

A. Gretchen Cotterman Gephart, Minneapolis

B.S. '55, University of Minnesota. Field of Concentration: Public Health.

Husam Hassan Ghalib, Baghdad, Iraq

B.S.Agric. '59, Arkansas State College. Field of Concentration: Horticulture.

Gerald William Gilstad, St. Paul

B.S. '55, United States Naval Academy. Major: Physics. Minor: Mathematics. Thesis: The Stopping Power of Aluminum, Beryllium, Carbon, Nickel and Silicon Monoxide for Low Energy Lithium Ions.

Herman Ernest Gollwitzer, Truman

B.Math. '62, University of Minnesota. Major: Mathematics. Minor: Electrical Engineering. Thesis: Applications of the Method of Steepest Descent to Optimal Control Problems.

Katherine Graff, Rhinebeck, N.Y.

B.S. (Nsg.) *cum laude* '59, Syracuse University. Field of Concentration: Public Health.

David Francis Grigal, Virginia

B.S. with high distinction '63, University of Minnesota. Major: Forestry. Minor: Biostatistics. Thesis: Variation in Percent Earlywood of Jack Pine Stands with Factors Hypothesized to Affect Auxin Production.

Mary Ann Patricia Guye, Hibbing

B.S. '61, College of St. Scholastica. Field of Concentration: Public Health.

Richard Harold Hannah, Brandon, Manitoba, Canada

B.A. '48, McMaster University. Field of Concentration: Zoology.

Michael Andrew Opper, Prince  
Albert, Saskatchewan, Canada

B.S.F. '58, University of New Brunswick. Field  
of Concentration: Forestry.

Eugene Morton Paymar, St. Paul

B.S.Phys. with distinction '61, University of  
Minnesota. Major: Physics. Minor: Mathe-  
matics. Thesis: Stability of a Strong Magnetic  
Pulse in a Plasma.

George William Rehm, Columbus,  
Ohio

B.S.Agric. '63, Ohio State University. Major:  
Soil Science. Minor: Biochemistry. Thesis:  
Sulfur Oxidation and Supplying Power of  
Some Minnesota Soils.

Jorgen Rokne, Voss, Norway

B.Com. '59, Norwegian School of Economics  
and Business Administration. Major: Business  
Administration. Minor: Geography. Thesis:  
Present Position and Future Aspects of Ameri-  
can Retailing.

Muhammad Ayyaz Sahibzada,  
Manshehra, Pakistan

B.Sc. '56, B.Sc.F. '58, University of Peshawar  
(Pakistan). Field of Concentration: Forestry.

Arthur Louis Schipper, Jr., Minne-  
apolis

B.S.F. '62, University of the South. Major:  
Plant Pathology. Minor: Biochemistry. Thesis:  
Sources of Fungal Inoculum and Its Effect  
on Cellulosic Fiberboard.

Philip Schladweiler, Madison

B.S. '62, University of Minnesota. Major:  
Fisheries and Wildlife. Minor: Forestry. The-  
sis: Movements and Activities of Ruffed  
Grouse (*Bonasa Umbellus* (L.)) During the  
Summer Period.

Lewis James Schoenwetter, St. Paul

B.B.A. '60, University of Wisconsin. Field of  
Concentration: Business Administration.

Duane Edward Soland, Minneapolis

B.Geophys. '58, University of Minnesota. Field  
of Concentration: Mechanics and Materials.

Rachel Rita Speltz, Rollingstone

B.S. '62, College of St. Teresa. Field of Con-  
centration: Public Health.

Joyce Geffen Steinberg, Woodland  
Hills, Calif.

B.A. '47, Brooklyn College. Field of Concen-  
tration: Mathematics.

Gary Rice Stringam, Rosemary,  
Alberta, Canada

B.S. '61, Brigham Young University. Major:  
Genetics. Minor: Agricultural Plant Physiol-  
ogy. Thesis: Tetrasomic Inheritance of a Lethal  
Character in *Medicago Sativa* L.

Wayland Roger Swain, Boone, Iowa

B.A. '60, Ottawa University. Field of Concen-  
tration: Environmental Health.

Elaine Christine van Leeuwen, New  
Hyde Park, N.Y.

B.S. *magna cum laude* '62, Boston University.  
Field of Concentration: Public Health.

James Joseph Verrant, Minneapolis

B.S. with distinction '60, University of Min-  
nesota. Field of Concentration: Mathematics.

Ann Carol Vogel, New Ulm

B.A. '64, University of Minnesota. Field of  
Concentration: Zoology.

Herbert Nickolas Walch, Winona

B.S. with high distinction '63, University of  
Minnesota. Field of Concentration: Agricul-  
tural Economics.

Arnold Ira Walder, St. Paul

B.S. '54, Tufts College; M.D. '58, State Uni-  
versity of New York. Major: Biochemistry.  
Minor: Pathology. Thesis: Purification of Hu-  
man Kidney Transamidinase—An Experimental  
Study.

Sinn Shyong Wang, Tamsui, Taiwan,  
China

B.S.Agric. '61, National Taiwan University  
(China). Field of Concentration: Forestry.

Benjamin Franklin Watson, Minne-  
apolis

B.A. '57, Indiana University. Major: Micro-  
biology. Minor: Biochemistry. Thesis: Inter-  
mediary Metabolism of a Fruiting *Myxobac-*  
*teria*.

Litta Elizabeth Winkler, Metamora,  
Ill.

B.S. with distinction '61, University of Min-  
nesota. Field of Concentration: Public Health.

## Master of Science in Aeronautical Engineering

Kenneth Bruce Buchanan, St. Paul

B.S. '63, University of Minnesota. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: Opening Dynamics of Parachutes in Freestream and in the Wake of an Aircraft, With and Without Ground Effect.

## Master of Science in Chemical Engineering

Richard Carl Christenson, St. Paul

B.S. with distinction '58, University of Minnesota. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Calculation of Control System Response Characteristics Using a Digital Computer.

Donald Joseph Nemanic, Aurora

B.Ch.E. '51, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Dynamic Simulation of a Multicomponent Distillation Column.

## Master of Science in Civil Engineering

Julian Mang Foo Kau, Honolulu,  
Hawaii

B.S. '59, United States Naval Academy; B.C.E. '61, Rensselaer Polytechnic Institute. Major: Civil Engineering. Minor: Civil Engineering. Thesis: Simplified and Direct Design Methods for Vibration Isolation Structures Involving Two Masses and Two Degrees of Freedom.

## Master of Science in Dentistry

Bryan Kent Ericson, Rochester

D.D.S. '62, University of Nebraska. Major: Dentistry. Minor: Pathology. Thesis: Osteoradionecrosis of the Jaws.

## Master of Science in Dermatology

Donald Dee Harville, Morgan, Tex.

B.S. '55, Baylor University; M.D. '58, University of Texas. Major: Dermatology. Minor: Pathology. Thesis: Heparin Precipitable Fraction: I. Study of Assay and Relationship to Fibrinogen; II. Clinical Studies.

## Master of Science in Electrical Engineering

Keun Ho Chang, Seoul, Korea

B.E.E. '63, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: The Study of the Backscatter Fraction and Secondary Electron Emission From a Tungsten Single Crystal.

Nick Gust Constantine, St. Paul

B.S. with high distinction '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Preparation and Properties of Gold-Polymer-Gold Thin Film Devices.

David Harold Gobeli, Minneapolis

B.S. with high distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Interaction of Four Millimeter Microwaves with a Semiconductor Post.

Philip Niles Hamilton, Maple Plain

B.S. with high distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Application of the Differential Approximation Method in System Identification.

Raymond Anthony Janssen, Ceylon

B.S. with high distinction '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Some Statistical Distributions of a Linear System Under Impulsive Loading.

Stanley Russell Lang, Jr., Elkhorn, Wis.

B.E.E. '60, University of Florida. Major: Electrical Engineering. Minor: Physics. Thesis: Investigation of Transistor Switching Circuits.

Thomas Brantley Linnerooth, Stillwater

B.S. with distinction '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Alkali Ion Doping of the Metal-Oxide Interface.

Ronald Vern Ogren, Hibbing

B.S. with distinction '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in an F. M. Detector.

Charles Leonard Olson, Brookfield, Ill.

B.M.E. '62, General Motors Institute. Major: Electrical Engineering. Minor: Mathematics. Thesis: Stability Analysis of Nonlinear Control Systems with Two Cascaded Nonlinearities.

Lee Wentworth Olson, Navarre

B.S. with distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Design and Evaluation of an MHD Fluid Flywheel.

Russell Harris Schmidt, Minneapolis

B.S. with honor '55, Winona State College. Major: Electrical Engineering. Minor: Mathematics. Thesis: Silicon Planar Unijunction Transistors.

Raghu Nandan Sharma, New Delhi, India

B.Sc.(Hons) '57, University of Delhi (India). Field of Concentration: Electrical Engineering.

Dy Yau, Cantilan, Surigao Sur, Philippines

B.S.E.E. *magna cum laude* '62, University of San Carlos (Philippines). Major: Electrical Engineering. Minor: Mathematics. Thesis: Stress Effects in Transistors.

## Master of Science in Industrial Engineering

Yucel Kut Aktansel, Istanbul, Turkey

B.S. with distinction '64, University of Minnesota. Field of Concentration: Industrial Engineering.

Vijay Laxman Kelkar, Poona, India

B.E.E. with distinction '62, University of Poona (India). Field of Concentration: Industrial Engineering.

## Master of Science in Mechanical Engineering

Tsuyoshi Hiroki, Tokyo, Japan

B.S.E. '60, University of Tokyo (Japan). Major: Mechanical Engineering. Minor: Aeronautical Engineering. Thesis: Combustion in Solid Propellant Rocket Motors Undergoing Despressurization to Produce a Quench.

Charles Waylon Hixon, Fort Worth, Tex.

B.S.M.E. '63, Arlington State College. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Laminar Flow Development in a Rectangular Duct of Aspect Ratio 2:1.

**Sanjib Kumar Mukherji, Calcutta,  
India**

B.E. '60, University of Calcutta (India). Field of Concentration: Mechanical Engineering.

**James Woodson Ramsey, Minneapolis**

B.S. with high distinction '61, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Apparatus for the Calorimetric Measurement of the Total Hemispherical Emittance of Solid Surfaces.

**Rodney Brewer Rask, Graceville**

B.S. with high distinction '64, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Film Cooling with Helium Injection Through a Porous Wall Into a Turbulent Boundary Layer.

**Douglas Carl Sjoquist, Vaxjo, Sweden**

B.M.E. '63, University of Minnesota. Field of Concentration: Mechanical Engineering.

## **Master of Science in Medicine**

**Charles Dudley Farmer, Rochester**

B.A. '55, M.D. '58, Indiana University. Major: Medicine. Minor: Physiology. Thesis: A Single Injection Technique for the Simultaneous Measurement of Glomerular Filtration and Effective Renal Plasma Flow Utilizing Radioiodinated Diatrizoate and Orthoiodohippurate.

**Gene Gerald Hunder, Rochester**

B.A. '54, M.D. '58, University of Minnesota. Major: Medicine. Minor: Physiology. Thesis: Characterization of Dextran Eluates From Erythrocytes of Normal Persons and Patients with Rheumatoid Arthritis.

**John Chung-Lam Lee, Hong Kong,  
China**

B.A. '57, M.D. '61, University of Toronto. Major: Medicine. Minor: Physiology. Thesis: Changes in Blood Coagulation Factors Associated with Chronic Ulcerative Colitis: With Special Reference to Hypercoagulability.

**Thomas John Lehar, Minneapolis**

B.A. '55, B.S. '58, M.D. '58, University of Minnesota. Major: Medicine. Minor: Hematology. Thesis: Effect of Focal Irradiation on Human Bone Marrow.

**John Edward Mielke, Appleton, Wis.**

B.S. '55, M.D. '58, University of Wisconsin. Major: Medicine. Minor: Physiology. Thesis: Renal Function Before, During, and After Intracardiac Surgery with the Use of Extracorporeal Circulation.

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

**Jong Jeng Chen, Chiayi, Taiwan,  
China**

B.S. '61, Taiwan Provincial Cheng Kung University (China). Major: Mineral Engineering. Minor: Geophysics. Thesis: Force-Displacement Characteristics of Indiana Limestone at High Confining Pressure.

## **Master of Science in Neurology**

**Wigbert Christian Wiederholt,  
Rochester**

M.D. '55, University of Wurzburg (Germany). Major: Neurology. Minor: Basic Neurological Sciences. Thesis: End-Plate Noise: A Study of Its Characteristics and Its Origin.

## Master of Science in Obstetrics and Gynecology

James Patrick Thompson, Jr., Bloomfield, N.J.

B.S. '57, Georgetown University; M.D. '61, Seton Hall. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: Ovarian and Parovarian Tumors in Infants and Children.

## Master of Science in Otolaryngology

Alen Munson Fuller, Lawton, Okla.

M.D. '61, University of Oklahoma. Major: Otolaryngology. Minor: Pathology. Thesis: Oto-Neurologic Manifestations of Chemodectomas of the Glomus Jugulare.

Rollie Emer Rhodes, Jr., Tulsa, Okla.

B.A. '53, M.D. '57, University of Louisville. Major: Otolaryngology. Minor: Pathology. Thesis: The Role of Exfoliative Cytology in the Detection of Malignant and Pre-Malignant Lesions of the Oral Cavity.

Raymond Harold Stecker, Barron, Wis.

B.S. '53, M.D. '58, University of Wisconsin. Major: Otolaryngology. Minor: Pathology. Thesis: Iontophoresis of Na<sup>22</sup> and I<sup>131</sup> into the Inner Ear of the Guinea Pig.

## Master of Science in Physical Therapy

John Duncan Allison, St. Paul

B.S.Phys.T. with distinction '54, University of Minnesota. Major: Physical Therapy. Minors: Anatomy and Psychology. Thesis: A Study of the Relationship of Children's Feet to Shoes with Emphasis on Heel Fit.

## Master of Science in Plastic Surgery

Bruce Walton Taylor, Sydney, Australia

B.D.S. '51, University of Sydney; D.D.S. '54, University of Toronto; M.D. '60, University of British Columbia. Major: Plastic Surgery. Minor: Pathology. Thesis: Dermoids of the Head and Neck.

## Master of Science in Surgery

Javier Michel Ochoa, Guadalajara, Mexico

B.S. '50, M.D. '56, Autonomous University of Guadalajara (Mexico). Major: Surgery. Minor: Pathology. Thesis: The Association of Diaphragmatic Hiatal Hernia and Gastroesophageal Malignancy.

Knud Christian Stobbe, Milwaukee, Wis.

B.S. '51, University of Berlin (Germany); M.D. '59, University of Louisville. Major: Surgery. Minor: Pathology. Thesis: Pancreatic Lithiasis.

## Master of Science in Urology

John Alan Blum, Wilmette, Ill.

B.A. *cum laude* '54, Dartmouth College; M.D. '58, New York University. Major: Urology. Minor: Antaomy. Thesis: Silicone Rubber Ureteral Prostheses.

## Certificate of Specialist in Education

James Collier Crewe, Minneapolis

B.A. '61, M.A. '63, University of Minnesota. Field of Concentration: School Psychological Services.

Anne Bosanko Green, St. Paul

B.A. *magna cum laude* '48, M.A. '64, University of Minnesota. Field of Concentration: School Psychological Services.

Jerome Koenig, Minneapolis

B.A. '52, College of St. Thomas; M.A. '61, University of Minnesota. Field of Concentration: Counseling.

Emma Elizabeth Nelson, Kearney, Neb.

B.A. Educ. '54, M.S. '61, Kearney State College. Field of Concentration: School Psychological Services.

Margaret Thomas Strandjord, Roseville

B.A. '51, DePauw University; M.A. '53, University of Minnesota. Field of Concentration: School Psychological Services.

Edwin Ellsworth Stuart, Stillwater

B.A. *cum laude* '49, Macalester College; M.A. '52, University of Minnesota. Field of Concentration: School Psychological Services.

Roger LeRoy Wald, Roseville

B.A. *magna cum laude* '53, College of St. Thomas; M.A. '60, University of Minnesota. Field of Concentration: Counseling.

## Doctor of Philosophy

Norman Myron Abrahams, Minneapolis

B.A. '60, M.A. '62, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Effect of Key Length and Item Validity on Overall Validity, Cross Validation Shrinkage and Test-Retest Reliability of Interest Keys. Major Advisers: Profs. D. P. Campbell and M. D. Dunnette.

Loren Edwin Ahlrichs, Waseca

B.S. '54, Iowa State University; M.S. '59, University of Minnesota. Major: Soil Science. Minor: Botany. Thesis: Ammonium Fixation and Release on Some Minnesota Soils. Major Adviser: Prof. J. M. MacGregor.

Robert Thomas Alciatore, New Orleans, La.

B.A. '54, Spring Hill College. Major: Education. Minor: History and Philosophy of Education. Thesis: The Relationship of Conventional and Experimental Ph.D. Programs to Later Faculty Service. Major Adviser: Prof. R. E. Eckert.

Robert Ritchie Alexander, Tauranga, New Zealand

B.A. '34, B.T. '37, University of Calcutta (India); M.A. '50, University of New Zealand. Major: Education. Minor: English. Thesis: Integration in New Zealand and the Part Played by Education. Major Adviser: Prof. R. H. Beck.

Syed Mahboob Ali, Hyderabad, India

B.Sc.(Agric.) '49, Osmania University (India); M.S. '64, University of Minnesota. Major: Genetics. Minor: Plant Pathology. Thesis: Recurrent Selection for General Combining Ability Based on Inbred Lines Performance Per-Se in Corn (*Zea Mays*). Major Adviser: Prof. E. H. Rinke.

Willis Eugene Anthony, St. Peter

B.A.B.A. '60, M.S. '62, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: Size Structure and Growth of Livestock Slaughter Firms. Major Adviser: Prof. D. F. Fienup.

Robert James Barta, Duluth

B.A. '60, M. A. '62, University of Minnesota. Major: Spanish. Minor: Italian. Thesis: The Traditional Peninsular Lyric as Reflected by Rosalia De Castro (Affinities of Subject and Form: *Cantares Gallegos, Follas Novas*). Major Adviser: Prof. H. F. Williams.

Shmuel Ben-Dor, Ramat-Jan, Israel

B.A. '57, Hebrew University (Israel); M.A. '62, University of Minnesota. Major: Anthropology. Minors: Education and Sociology. Thesis: Eskimo and Settlers in a Labrador Community. Major Adviser: Prof. R. F. Spencer.

Robert Max Berdahl, Sioux Falls, S.D.

B.A. *cum laude* '59, Augustana College; M.A. '61, University of Illinois. Major: History. Minor: Political Science. Thesis: The Transformation of the Prussian Conservative Party 1866-1876. Major Adviser: Prof. O. P. Pflanze.

Howard Emil Bergstrom, Minnetonka

B.S. with distinction '48, M.A. '55, University of Minnesota. Major: Education. Minor: History and Philosophy of Education. Thesis: Job Performance of Young Workers in Relation to School Background: A Pilot Approach. Major Adviser: Prof G. M. A. Mork.

Ellen Berscheid, Colfax, Wis.

B.A. '59, M.A. '60, University of Nevada. Major: Psychology. Minor: Educational Psychology. Thesis: The Effect of Communicator-Communicatee Value Similarity and Dissimilarity Upon Opinion Change. Major Adviser: Prof D. H. Bramel.

Paul Wesley Bransford, Edina

B.A. '38, Duke University; M.D. '42, Harvard University. Major: Psychiatry. Minor: Child Psychology. Thesis: Experimental Demonstration of Difficulties in the Development of a Classification for Children's Behavioral Disorders. Major Adviser: Dr. D. W. Hastings.

Franklin Wagner Briese, Minneapolis

B.A. *cum laude* '59, M.S. '63, University of Minnesota. Major: Biostatistics. Minor: Mathematics. Thesis: Estimation of Tissue Volumes From Studies of Histologic Sections. Major Advisers: Drs. B. W. Brown, Jr. and R. B. McHugh.

David Griffith Briggs, St. Paul

B.A. *magna cum laude* '54, M.S. '55, Dartmouth College. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Measurement of the Thermal Conductivity of Gases by a Transient Method. Major Advisers: Profs. R. J. Goldstein and W. E. Ibele.

Robert Harold Brookshire, Lake Preston, S.D.

B.A. '61, Huron College; M.A. '64, University of Minnesota. Major: Speech Pathology. Minor: Psychology. Thesis: The Differential Effects of Three Verbal Punishers on the Disfluencies of Normal Speakers. Major Advisers: Profs. E. H. Henrikson and R. R. Martin.

Carole Okun Brown, Minneapolis

B.A. *summa cum laude* '56, M.A. '61, University of Minnesota. Major: English. Minor: Philosophy. Thesis: The Literary Career of Parson Yorick: A Study of Laurence Sterne's *The Sermons of Mr. Yorick and A Sentimental Journey*. Major Adviser: Prof. R. E. Moore.

Wendell Charles Brustman, Minneapolis

B.A. '58, Concordia Theological Seminary. Major: Psychology. Minor: Psychiatry. Thesis: Adjectival Self-Description in Schizotypes. Major Adviser: Prof. P. E. Meehl.

William Maynard Bugbee, Clinton, Iowa

B.A. '57, State University of Iowa; M.S. '62, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Studies on the Aggressiveness of Race 15B and Race 56 and Progenies From Crosses of these Races of *Puccinia Graminis* Var. *Tritici*. Major Adviser: Prof M. F. Kernkamp.

Bartell Wilson Cardon, Jr., Oakland, Calif.

B.A. '60, Brigham Young University; M.A. '63, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: The Relationship of Incentive Preference to Incentive Effectiveness as a Function of Age and Sex in Children. Major Adviser: Prof. J. D. Duker.

Bruce Martin Carlson, Minneapolis

B.A. *summa cum laude* '59, Gustavus Adolphus College; M.S. '61, Cornell University. Major: Anatomy. Minor: Zoology. Thesis: Experimental Observations on Implant-Induced Supernumerary Limbs in the Newt, *Triturus Viridescens*. Major Adviser: Dr. W. J. L. Felts.

Robert E. Carlson, Minneapolis

B.B.A. '58, M.A. '59, University of Minnesota. Major: Business Administration. Minor: Educational Psychology. Thesis: An Empirical Evaluation of Selected Hypotheses From A *Theory of Work Adjustment*. Major Adviser: Prof. H. G. Heneman, Jr.



**Ping Chien Chen, Tamsui, Taiwan,  
China**

B.S. in Eng. '56, National Taiwan University (China). Major: Chemical Engineering. Minor: Mathematics. Thesis: Two-Phase Flow Through Apertures. Major Adviser: Prof. H. S. Isbin.

**Dah Yu Cheng, Taipei, China**

B.S. '57, Taiwan Provincial Cheng Kung University; M.S.M.E. '61, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Measurement of the Viscosity of the Atomic Hydrogen. Major Adviser: Prof. P. L. Blackshear.

**Donald Chi-An Chiang, Kaohsiung,  
Taiwan, China**

B.Sc. '53, Taiwan Provincial Cheng Kung University (China). Major: Fluid Mechanics. Minor: Mathematics. Thesis: Steady Flow of an Electrically Conducting Liquid Through a Rectangular Duct with Perfectly Conducting Walls Parallel to the Applied External Magnetic Field. Major Adviser: Prof. T. S. Lundgren.

**Larry Lee Claypool, Ash Grove, Mo.**

B.S. '53, Southwest Missouri State College; M.S. '58, University of Minnesota. Major: Dairy Industries. Minor: Biochemistry. Thesis: Studies on Milk Lipase Activation. Major Adviser: Prof. J. J. Jezeski.

**Robert Finley Coleman, Memphis,  
Tenn.**

B.A. '59, Georgetown College; M.S. '60, Vanderbilt University. Major: Speech Pathology. Minor: Linguistics and Comparative Philology. Thesis: Duration Gradients of Jitter and Judged Auditory Roughness. Major Adviser: Prof. R. M. Wendahl.

**Harold Eugene Cooper, Guy, Ark.**

B.S. '59, M.S.E. '61, Arkansas State Teachers College. Major: Genetics. Minor: Anthropology. Thesis: Hereditary Factors in the Stein-Leventhal Syndrome. Major Adviser: Prof. S. C. Reed.

**Arthur Joseph Coury, Lansford, Pa.**

B.S. '62, University of Delaware. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: On the Syntheses of 1,4-Dialkyl-4-arylhexahydroazepines and 2,6-Dialkyl-2-aryl-6-azabicyclo[3,2,1]Octanes. Major Adviser: Prof. C. F. Koelsch.

**Richard Dwight Coy, Danvers**

B.A. '55, St. John's University; M.A. '60, University of Minnesota. Major: History. Minor: Geography. Thesis: Cushman K. Davis and American Foreign Policy 1887-1900. Major Adviser: Prof. R. C. Lochr.

**Arnold Jay Dahm, Pella, Iowa**

B.A. '58, Central College; M.S. '60, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Effective Mass of Ions in Liquid Helium II. Major Adviser: Prof. William Zimmermann, Jr.

**Pranabendu DasGupta, Calcutta,  
India**

B.A.(Hons) '56, University of Calcutta; M.A. '58, Jadavpur University (India); M.A. '62, University of North Carolina. Major: Comparative Literature. Minor: English. Thesis: The "Subjective" Tradition: A Comparative Analysis of the Dramatic Motives in the Plays of W. B. Yeats and Rabindranath Tagore. Major Adviser: Prof. J. D. Hurrell.

**Stanley Lynn Deno, Minneapolis**

B.A. '58, St. Olaf College. Major: Educational Psychology. Minor: Psychology. Thesis: Multiple Discrimination Learning as a Function of Conceptual Similarity Among Picture and Word Stimuli. Major Adviser: Prof. D. C. Neale.

**John Taylor deValcourt, New Iberia,  
La.**

B.S. *summa cum laude* '58, St. Michael's College; M.S. '63, University of Minnesota. Major: Mathematics. Minor: Education. Thesis: A Study of Axial Symmetry of Planar Convex Sets. Major Adviser: Prof. Heinrich Guggenheimer.

**Richard Ryland Dohm, Minneapolis**

B.A. '52, M.A. '61, University of Minnesota. Major: Political Science. Minors: Architecture and Sociology. Thesis: Politics and Pollution: Defeat of the 1961 Proposal for a Metropolitan Sanitary District in the Minneapolis-Saint Paul Area. Major Adviser: Prof. G. A. Warp.

**Abbas Abbas Mohammad El-Said El-  
Awady, Cairo, Egypt, United Arab  
Republic**

B.Sc. '58, Cairo University (Egypt). Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Studies on Bridged Complexes of Cobalt (III) and Chromium (III). Major Adviser: Prof. Z. Z. Hugus, Jr.

Sayed Mostafa El-Kandelgy, Cairo,  
Egypt, United Arab Republic

B.Sc.(Agric.) '58, Cairo University (Egypt); M.S. '64, University of Minnesota. Major: Plant Pathology. Minor: Entomology. Thesis: Effect of Red Clover Flower Extract and Sugars on Infection of *Gomphrena Globosa* by Red Clover Vein-Mosaic Virus. Major Adviser: Prof. R. D. Wilcoxson.

Dean C. Engel, Kenmare, N.D.

B.S. '50, Minot State College; M.A. '56, University of North Dakota. Major: Speech Pathology. Minor: Educational Psychology. Thesis: Modification of the Distribution of Stuttering as a Result of a Conditioning Procedure. Major Adviser: Prof. E. H. Henrikson.

Sidney Feinleib, New York, N.Y.

B.A. '60, M.A. '61, Columbia University. Major: Physical Chemistry. Minor: Physics. Thesis: The Dependence of Internal Conversion Efficiency on Exciting Wavelength. Major Adviser: Prof. Sanford Lipsky.

Laurence Peter Feldman, Kent, Ohio

B.S.B.A. '58, M.B.A. '59, Washington University. Major: Business Administration. Minors: Psychology and Sociology. Thesis: The Location of Franchised Retail Automobile Dealerships in the Twin Cities Metropolitan Area. Major Adviser: Prof. R. S. Hancock.

Bruce Alan Finlayson, Tulsa, Okla.

B.A. *magna cum laude* '61, M.S. '63, Rice University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Approximate Solutions of Equations of Change; Convective Instability by Active Stress. Major Adviser: Prof. L. E. Scriven II.

George Browning Flamer, Fargo, N.D.

B.S. '61, North Dakota State University; M.A. '64, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: Conditions of Positive and Negative Transfer in Children's Verbal Learning. Major Adviser: Prof. J. C. Wright.

John Everett Foss, River Falls, Wis.

B.S. '57, Wisconsin State College (River Falls); M.S. '59, University of Minnesota. Major: Soil Science. Minor: Geology. Thesis: Soil Genesis Study of a Lithologic Discontinuity Observed in Glacial Drift in Western Wisconsin. Major Adviser: Prof. R. H. Rust.

James Douglas Gilchrist, Winnipeg,  
Manitoba, Canada

B.S.(E.E.) '59, M.S.(E.E.) '61, University of Manitoba. Major: Electrical Engineering. Minor: Mathematics. Thesis: State Reconstruction: Synthesis of Feedback Controllers. Major Adviser: Prof. E. B. Lec.

Richard Duane Green, III, Morrisville,  
Pa.

B.S.Pharm. with honors '61, Philadelphia College of Pharmacy. Major: Pharmacology. Minor: Physiology. Thesis: The Effect of Drugs on the Active Transport and Tissue Binding of Catecholamines in the Uterus of the Rat. Major Adviser: Dr. J. W. Miller.

Elsa Shapiro Greenberg, Washington,  
D.C.

B.A. *cum laude* '59, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: The Prediction of Social Behavior in Children From Psychiatric Data. Major Adviser: Prof. R. D. Wirt.

James Thomas Greene, Athens, Ga.

B.S.F. '50, M.F. '56, University of Georgia. Major: Forestry. Minors: Botany and Genetics. Thesis: Selection for Tracheid Length in Loblolly Pine (*Pinus Taeda* L.). Major Adviser: Prof. S. S. Pauley.

Louis John Grimm, St. Louis, Mo.

B.S. '54, St. Louis University; M.S. '60, Georgia Institute of Technology. Major: Mathematics. Minor: Physical Chemistry. Thesis: General Solutions of Nonlinear Difference Equations. Major Adviser: Prof. W. A. Harris, Jr.

David Theodore Grimsrud, Bismarck,  
N.D.

B.A. '60, Concordia College; M.S. '63, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Measurements of the Velocity of Sound in Gaseous Helium Three and Helium Four at Low Temperatures. Major Adviser: Prof. J. H. Wernitz, Jr.

James William Gruebele, Wishek,  
N.D.

B.S. '58, North Dakota State University; M.S. '61, Iowa State University. Major: Agricultural Economics. Minor: Economics. Thesis: Changing Market Structure of the Minnesota Dairy Manufacturing Industry. Major Adviser: Prof. E. F. Koller.

Charles Herbert Haight, Minneapolis  
B.S. with high distinction '59, M.S.A.E. '62, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Shock Structure in a Gas of Rigid Non-Central Particles. Major Adviser: Prof. T. S. Lundgren.

Abdolhossein Haji-Sheikh, Dezful,  
Iran

Engineer '56, University of Tehran (Iran); M.S.E. '59, M.A. '61, University of Michigan. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Application of Monte Carlo Methods to Thermal Conduction Problems. Major Adviser: Prof. E. M. Sparrow.

David Gordon Hanson, Minneapolis

B.S. with distinction '60, M.S.E.E. '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Low Frequency Fluctuation Phenomena of a Gaseous Discharge. Major Adviser: Prof. Aldert van der Ziel.

Lowell Dennis Hanson, Winthrop

B.S. '51, M.S. '56, University of Minnesota. Major: Soil Science. Minors: Agricultural Economics and Geography. Thesis: Soil Characteristics and Changes in Minnesota Agricultural Land Use. Major Adviser: Prof. W. P. Martin.

Edward Frederick Haskins, Minneapolis

B.A. *magna cum laude* '59, M.S. '62, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: The Developmental Biology of the Eumycetozoon *Echinostelium Minutum*. Major Adviser: Prof. N. S. Kerr.

Robert A. Hermes, Hallettsville, Tex.

B.S.Ch.E. '62, University of Texas. Major: Chemical Engineering. Minor: Mathematics. Thesis: Flow of Viscoelastic Fluids Past a Flat Plate. Major Adviser: Prof. A. C. Fredrickson.

Walter Roscoe Higbee, Indianola,  
Iowa

B.A. '50, M.A. '53, State University of Iowa. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: Social Comparison Processes Among Mentally Retarded Adults in a Sheltered Workshop. Major Adviser: Prof. D. G. Force.

Glen Ray Himmelberg, Stinnett, Tex.

B.S. '59, M.S. '60, Texas Technological College. Major: Geology. Minor: Physical Chemistry. Thesis: Precambrian Geology of the Granite Falls-Montevidéo Area, Minnesota. Major Adviser: Prof. W. C. Phinney.

Charles Steele Holt, Chicago, Ill.

B.S. '59, Beloit College; M.S. '62, University of Wisconsin. Major: Fisheries and Wildlife. Minor: Entomology. Thesis: Effect of Light Intensity on the Stream Drift of *Gammarus Pseudolimnaeus* Bousfield and *Baetis Vagans* McDunnough in Valley Creek, Washington County, Minnesota. Major Adviser: Prof. T. F. Waters.

Asad Husain, Patna City, Bihar, India

B.A. (Hons) '51, M.A. '53, Patna University (India); M.A. '56, University of Minnesota. Major: International Relations. Thesis: British India's Relations with the Kingdom of Nepal From 1857 to 1947. Major Adviser: Prof. C. H. McLaughlin.

Syed Mushtaq Husain, Karachi,  
Pakistan

B.Sc. '54, University of Lucknow (India); M.S. '58, University of Karachi (Pakistan). Major: Agricultural Plant Physiology. Minor: Soil Science. Thesis: Studies on the Phenomenon of Apical Dominance and Its Relationship to Nutrient Accumulation in *Pisum Sativum* L. Var Alaska. Major Adviser: Prof. A. J. Linck.

Richard Ray Johnson, Cloquet

B.Phys. with distinction '60, M.S. '62, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Properties of Nuclear Level Densities From Inelastic Proton Scattering. Major Adviser: Prof. N. M. Hintz.

Ruth Elizabeth Jones, Red Wing

B.A. '45, M.A. '62, University of Minnesota. Major: Spanish. Minor: Area Studies: Latin America. Thesis: A Study of the Baroque Elements in the *Persiles Y Sigismunda* of Miguel DeCervantes Saavedra. Major Adviser: Prof. Arturo Serrano-Plaja.

Ralph Arthur Kallman, Minneapolis

B.A. *cum laude* '56, M.A. '61, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: On Using the Iltou Integral to Solve a Certain Partial Differential Equation. Major Adviser: Prof. R. H. Cameron.

**Joseph Max Kanamueller, Chicago, Ill.**

B.S. magna cum laude '60, St. Joseph's College. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Cyclic Chalcogen-Nitrogen Compounds: Some Interactions of Amines with Chalcogen Halides and Pseudohalides. Major Adviser: Prof. R. C. Brasted.

**Jeanne Rice Kenmore, Minneapolis**

B.S. '48, University of Minnesota; M.A. '54, San Francisco State College. Major: Education. Minor: Child Psychology. Thesis: Associative Learning by Blind Versus Sighted Children with Words and Objects Differing in Meaningfulness and Identifiability Without Vision. Major Adviser: Prof. Robert Orlando.

**Chulsoon Khang, Seoul, Korea**

B.A. '59, Michigan State University; M.A. '62, University of Minnesota. Major: Economics. Minor: Statistics. Thesis: A Neoclassical Growth Model of a Resource-Poor Open Economy. Major Adviser: Prof. J. S. Chipman.

**Toru Kihara, Tokyo, Japan**

B.S. '57, M.S. '64, University of Minnesota. Major: Botany. Minors: Biochemistry and Organic Chemistry. Thesis: Studies on Bacteriopheophytin-Containing Particles Isolated From *Rhodospirillum Rubrum*. Major Adviser: Prof. A. W. Frenkel.

**Douglas Clare Kriesel, Owatonna**

B.S.Pharm. '60, University of Minnesota. Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: Synthesis of Some N-Substituted Derivatives of Norpethidine as Potential Analgesics. Major Adviser: Prof. Ole Givold.

**Robert Rutledge Lansford, Hatch, N.M.**

B.S.Agric. '61, M.S. '62, New Mexico State University. Major: Agricultural Economics. Minor: Economics. Thesis: Personal Attributes of Farmers Related to Earnings. Major Adviser: Prof. T. R. Nodland.

**Swee-Yong Lee, Singapore, Malaysia**

B.Sc. '59, Nanyang University (Singapore). Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: Syntheses From  $\gamma$ -Cyano- $\gamma$ -Phenylpimelonitrile; Ethyl 3-Dimethylamino-1-Phenylcyclohexanecarboxylate Hydrochloride—An Analog of Demerol. Major Adviser: Prof. C. F. Koelsch.

**Robert George Lindsay, St. Paul**

B.A. '53, M.A. '54, University of Wisconsin. Major: Journalism. Minor: Political Science. Thesis: Earth Satellite Communications: Issues and Portents. Major Adviser: Prof. M. V. Charnley.

**Eugene William Linse, Jr., St. Paul**

B.A. '44, Concordia Seminary; M.A. '50, Northwestern University. Major: Political Science. Minor: History. Thesis: Due Process in Practice: A Study of Police Procedures in Minneapolis. Major Adviser: Prof. Samuel Krislov.

**Dorothy Rose Locffler, La Crosse, Wis.**

B.S. '50, M.S. '59, University of Wisconsin. Major: Educational Psychology. Minor: Psychology. Thesis: Attitude Changes of Education Students Toward Four Concepts of Teachers and Teaching. Major Adviser: Prof. R. E. Wilk.

**Chris Luneski, Eugene, Ore.**

B.A. with honors '56, Johns Hopkins University; M.A. '59, University of Minnesota. Major: Business Administration. Minor: Law. Thesis: The Theory of the Investment Decision: A Pragmatic View. Major Adviser: Prof. R. G. Berryman.

**Baldev Raj Luther, Delhi, India**

B.A. (Hons) '42, M.A. '44, M.A. '46, University of the Panjab (Pakistan). Major: Psychology. Minor: Psychiatry. Thesis: A Comparative Study of Some Arousal-Related Measures in Psychiatric Patients and Surgical Patients. Major Advisers: Profs. D. T. Lykken and William Schofield.

**Robert Nathan MacLeod, Isle**

B.S. '54, M.A. '58, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: Persistence in Teaching Among Male Special Area Graduates in Education. Major Advisers: Profs. R. L. Donnelly and D. C. Neale.

**Lawrence Charles Mantini, Chisholm**

B.A. '49, M.A. '50, University of Minnesota. Major: Spanish. Minor: Linguistics and Comparative Philology. Thesis: Rumanian Word Formation. Major Adviser: Prof. W. T. Pattison.

Frederick Leon Marsh, Richmond,  
Va.

B.A. '58, Blackburn College. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: An Electroanalytical Study at the Continuously Deposited, Mercury-Coated, Rotating Platinum Electrode. Major Adviser: Prof. Stanley Bruckenstein.

James Lee McCartney, Lincoln, Neb.

B.A. '58, M.A. '60, University of Nebraska. Major: Sociology. Minor: Psychology. Thesis: The Support of Sociological Research: Trends and Consequences. Major Adviser: Prof. E. D. Monachesi.

Michael Mecherikoff, Santa Barbara,  
Calif.

B.A. '54, Westmont College; M.A. '56, University of Minnesota. Major: Psychology. Minor: Biostatistics. Thesis: Differentiated Nonverbal Responses in Two Verbal Mediation Paradigms. Major Advisers: Profs. J. J. Jenkins and Kenneth MacCorquodale.

James Peter Meinke, St. Paul

B.A. '55, Hamilton College; M.A. '61, University of Michigan. Major: English. Minor: Art. Thesis: The Writings of Howard Nemerov. Major Advisers: Profs. C. H. Foster and S. H. Youngblood.

Dwight Robert Miller, Bowling Green,  
Ohio

B.A. '52, M.A. '55, University of Omaha. Major: Educational Psychology. Minor: Child Psychology. Thesis: Incentive Strength on a Spatial Distance Dimension in the Mentally Retarded. Major Adviser: Prof. Robert Orlando.

Wolodymyr J. Minkowycz, Minne-  
apolis

B.S. with distinction '58, M.S.M.E. '61, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Laminar Film Condensation of Water Vapor on an Isothermal Vertical Surface. Major Adviser: Prof. E. M. Sparrow.

Mary Louise Mobberley, St. Paul

B.A. *summa cum laude* '56, Macalester College. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Evidence for the Existence of Multiple Pools of Late Cholesterol Intermediates in the Rat. Major Adviser: Dr. Ivan Frantz.

Edward Leigh Mutsch, Madelia

B.A. *cum laude* '61, St. Olaf College. Major: Organic Chemistry. Minors: Physical Chemistry and Inorganic Chemistry. Thesis: The Reaction of Certain Sulfones with the Grignard Reagent. Major Adviser: Prof. R. M. Dodson.

Marvin Lyle Nelson, Brainerd

B.S. '52, M.S. '59, University of Minnesota. Major: Dairy Husbandry. Minor: Veterinary Anatomy and Physiology. Thesis: A Study of the Genetic Relationships of Solids-Not-Fat Production in Bovine Milk. Major Adviser: Prof. C. L. Cole.

Richard Thomas Newcomb, San Jose,  
Calif.

B.A. '49, St. John's College (Calif.); M.B.A. '53, Stanford University. Major: Economics. Minor: Business Administration. Thesis: The Impact of Technical Change on the Iron Ore Industry. Major Adviser: Prof. J. M. Henderson.

John Stayne Nordin, Minneapolis

B.S. '61, University of Minnesota. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Interfacial Phenomena Governing Microalgae Adhesions to Surfaces. Major Adviser: Prof. H. M. Tsuchiya.

Ralph Edward Packard, Jr., Salt Lake  
City, Utah

B.S. with honors '60, Brigham Young University; M.A. '62, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Development and Evaluation of a Programmed Instructional Approach to the Informational Aspect of College New Student Orientation. Major Adviser: Prof. Theda Hagenah.

Damodar M. Pai, Mangalore, India

B.S. '54, University of Madras; D.I.I.S. '58, Indian Institute of Science (India); M.S.E.E. '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Fluctuation Studies in Cadmium Sulphide Photoconductors. Major Adviser: Prof. K. M. van Vliet.

Moon Jae Pak, Seoul, Korea

B.M.S. '56, M.D. '60, Yonsei University (Korea). Major: Physiology. Minor: Physical Chemistry. Thesis: Evaluation of a Rapid-Flow Technique in the Measurement of Tracer Movements in a Single Cardiac Cycle. Major Adviser: Dr. Victor Lorber.

Paul William Palmberg, Valley Springs, S.D.

B.S. with high distinction '59, M.S.E.E. '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Electron Diffraction and Secondary Emission Studies on Sodium-Covered Germanium. Major Adviser: Prof. W. T. Peria.

Norman Eugene Pellett, Atlantic, Iowa

B.S. '58, Iowa State University; M.S. '64, University of Minnesota. Major: Horticulture. Minor: Agricultural Plant Physiology. Thesis: Cold Acclimation of Container Grown Hetzi Juniper. Major Adviser: Prof. R. E. Widmer.

Bette Jean Peltola, Richfield

B.A. magna cum laude '59, B.S. '60, M.A. '62, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Study of the Indicated Literary Choices and Measured Literary Knowledge of Fourth and Sixth Grade Boys and Girls. Major Adviser: Prof. R. N. Odland.

Robert Morgan Peters, Lakefield

B.S. '55, M.S. '58, Mankato State College. Major: Education. Minor: Educational Psychology. Thesis: Some Factors Related to Achievement of Personal-Business Knowledges and Understandings of High School Students. Major Adviser: Prof. R. G. Price.

Kenneth Jonas Pierre, Trinidad, West Indies

B.Sc. '60, M.S. '62, University of British Columbia. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Constitution of the Hemicellulose of Fescue Grass (*Festuca Arundinacea* Shreb.). Major Adviser: Prof. Samuel Kirkwood.

Donald John Pluth, Estherville, Iowa

B.S. '58, M.S. '62, University of Minnesota. Major: Soil Science. Minor: Forestry. Thesis: A Site Evaluation for Jack Pine in North-Central Minnesota. Major Adviser: Prof. H. E. Arneman.

Fred Paul Roessel, Jr., St. Louis Park

B.B.A. with high distinction '58, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: Disappearances of Semi-Stabilized Retinal Images as a Function of Cell Assemblies, Field Effects, and Angle of Orientation. Major Adviser: Prof. D. L. LaBerge.

Marion Alan Rogers, Lewisville, Ind.

B.A. '58, Earlham College; M.S. '62, University of Minnesota. Major: Geology. Minor: Biochemistry. Thesis: Organic Geochemistry of Some Devonian Black Shales From Eastern North America: Carbohydrates. Major Adviser: Prof. F. M. Swain.

Alfred Anthony Rossi, Chicago, Ill.

B.S. '57, Loyola University; M.A. '60, University of Kansas. Major: Speech and Theatre Arts. Minors: Art and English. Thesis: A Critical Study of the Philosophy of Theatre and the Techniques of Stage Direction of Tyrone Guthrie. Major Adviser: Prof. K. L. Graham.

Ferdinand Alexander Ruplin, Minneapolis

B.A. '56, M.A. '61, University of Minnesota. Major: German. Minor: Linguistics and Comparative Philology. Thesis: A Consideration of Humor in the Middle High German Courtly Epic with Special Emphasis on Gottfried's *Tristan Und Isolde*. Major Adviser: Prof. Cecil Wood.

Belkacem Saadallah, Guemar, Algeria

B.A. '59, Cairo University (Egypt); M.A. '62, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Rise of Algerian Nationalism: 1900-1930. Major Adviser: Prof. H. C. Deutsch.

Rajinder Singh Saini, Punjab, India

B.Sc.(Agric.) '53, Panjab University (India); M.S. '62, University of Minnesota. Major: Entomology. Minor: Plant Pathology. Thesis: The Ovicidal Effects of Phorate (O,O-Diethyl S-(Ethylthiomethyl) Phosphorodithioate) on Six-Spotted Leafhopper, *Macrostelus Fascifrons* (Stal.). Major Adviser: Prof. L. K. Cutkomp.

Krishna Murari Lal Saxena, Lucknow, India

B.Sc. '51, M.Sc. '53, University of Lucknow (India). Major: Statistics. Minor: Mathematics. Thesis: Some Nonparametric Bayesian Estimation Problems. Major Adviser: Prof. Milton Sobel.

Herbert Schlossberg, Minneapolis

B.A. '59, Bethel College; M.A. '61, University of Missouri. Major: History. Minor: Philosophy. Thesis: Pierre Bayle and the Politics of the Huguenot Diaspora. Major Adviser: Prof. J. B. Wolf.

**George Seddon, Perth, West Australia**

B.A. (Hons) '47, University of Melbourne; M.S. '65, University of Minnesota. Major: Geology. Minors: Botany and Zoology. Thesis: Middle Paleozoic Conodonts From the Llano Uplift, Central Texas. Major Advisers: Profs. P. E. Cloud, Jr. and R. E. Sloan.

**Masakazu Shoji, Tokyo, Japan**

B.S. '58, University of Tokyo (Japan). Major: Electrical Engineering. Minor: Physics. Thesis: On the Limiting Noise of Field Effect Transistors. Major Adviser: Prof. Aldert van der Ziel.

**Thomas Hale Short, Woodland,  
Wash.**

B.S. Phys. '57, University of Washington. Major: Physics. Minor: Mathematics. Thesis: (p,d) Reactions in  $1p_{3/2}$  Shell Nuclei at 40 Mev. Major Adviser: Prof. N. M. Hintz.

**Donald Zane Spicer, St. Paul**

B.A. magna cum laude '59, University of Minnesota; M.A. '60, Columbia University. Major: Mathematics. Minor: Physics. Thesis: Group Algebras of Vector-Valued Functions. Major Adviser: Prof. C. A. McCarthy.

**Robert Harold Springer, Hastings**

B.S. '58, M.S.E.E. '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Vapor Phase Chemical Activation of Oxide Cathodes. Major Adviser: Prof. D. E. Anderson.

**William Paul Stephens, Las Cruces,  
N.M.**

B.S. Agric. '48, M.S. '49, University of Tennessee. Major: Agricultural Economics. Minor: Economics. Thesis: Economic Efficiency in the Shipment of New Mexico Feeder Cattle. Major Adviser: S. A. Engene.

**Russell Harry Susag, Mound**

B.C.E. with distinction '56, University of Minnesota. Major: Civil Engineering. Minor: Chemical Engineering. Thesis: The Effect of Chlorination on the Deoxygenation Behavior of Waste Waters. Major Adviser: Prof. G. J. Schroeffer.

**Duane Holton Tack, Marshall**

B.S. with high distinction '58, M.S.E.E. '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Coherent Reception of Pulsed Signals with Linear Arrays in Traveling Noise Fields. Major Adviser: Prof. R. F. Lambert.

**Glen Robbins Thompson, Stanton**

B.A. '51, Carleton College; M.S.W. '53, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: Effects of Number of Relevant Stimulus Dimensions and Kind of Verbal Pretraining on Transposition in Retardates. Major Adviser: Prof. Robert Orlando.

**Peter John Torvik, Underwood**

B.S. with distinction '60, M.S. '62, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Dynamic Loads on the Edge of an Elastic Plate. Major Adviser: Prof. Robert Plunkett.

**Ralph Troll, Rock Island, Ill.**

B.S. with honors '57, M.S. '58, University of Illinois. Major: Zoology. Minor: Botany. Thesis: Parasitic Amoebae and Associated Micro-Organisms in Laticiferous Plants. Major Adviser: Prof. F. G. Wallace.

**Fu-Kang Tsou, Chang-Chou, China**

B.E. '43, National Central University (China); M.S. '58, University of Toronto. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Velocity Field, Hydrodynamic Stability, and Heat Transfer for Boundary-Layer Flow Along a Continuous Moving Surface. Major Advisers: Profs. R. J. Goldstein and E. M. Sparrow.

**Truman Dale Turnquist, Grasston**

B.A. '61, Bethel College. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Iron (III)-8-Hydroxyquinoline Equilibria. Major Adviser: Prof. E. B. Sandell.

**Cornelis Van der Schans, Gouda,  
The Netherlands**

B.Sc. (Agric.) '61, McGill University. Major: Horticulture. Minor: Agricultural Plant Physiology. Thesis: Cold Acclimation of Bark and Roots of *Cornus Stolonifera* Accompanying Changes in the Saturation of Fatty Acids. Major Adviser: Prof. C. J. Weiser.

**Harry V. Wall, Mountain Lake**

B.S. '56, Mankato State College; M.A. '60, University of Minnesota. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: Two-Choice Discrimination Learning of Mentally Retarded Children as a Function of Tactile and/or Visual Stimulus Properties. Major Adviser: Prof. D. G. Force.

Paul Willard Weiblen, Miller, S.D.

B.A. with high distinction '50, Wartburg College; M.A. '52, M.S. '65, University of Minnesota. Major: Geology. Minor: Physical Chemistry. Thesis: A Basic Funnel Shaped Intrusion in the Duluth Gabbro Complex Lake County, Minnesota. Major Adviser: Prof. W. C. Phinney.

Ronald Earle Welty, Winona

B.S. '56, Winona State College; M.S. '61, University of Minnesota. Major: Plant Pathology. Minor: Entomology. Thesis: Factors Influencing Wilt of Muskmelon Caused by *Fusarium Oxysporum* Form *Melonis*. Major Adviser: Prof. C. J. Eide.

Eugene Michael Wewerka, St. Paul

B.A. '62, University of Minnesota. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Reactions of Mercuric Iodine in Solution with Metallic Mercury. Major Adviser: Prof. M. M. Kreevoy.

Howard Y. Williams, Jr., St. Paul

B.A. *cum laude* '48, M.A. '51, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Student Perceptions of the Personal Traits and Teaching Procedures of Good and Poor College Teachers. Major Adviser: Prof. R. E. Eckert.

Hans Kuomin Wong, Albert Lea

B.S. '59, North Dakota State University. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Study of a Photochemical Redox Reaction Sensitized by Chlorophyll. Major Adviser: Prof. R. S. Livingston.

Ross Joseph Wood, Richland, Wash.

B.A. '54, M.B.A. '55, University of Michigan; M.A. '62, University of Minnesota. Major: Biostatistics. Minor: Statistics. Thesis: Uniformly Most Powerful Similar Tests for Detecting Radioactive Decay. Major Adviser: Dr. B. W. Brown, Jr.

Chien Heng Wu, Taipei, Taiwan,  
China

B.S. Eng. '57, National Taiwan University (China); M.S. '62, University of Kansas. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Electric Waves in Semi-Infinite Plates. Major Adviser: Prof. Robert Plunkett.

Rodger Edmund Ziemer, Amery, Wis.

B.S. with high distinction '60, M.S.E.E. '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Multi-Level Digital Signalling in Impulsive Noise Channels. Major Adviser: Prof. R. F. Lambert.

Dwight Judson Zulauf, Tacoma,  
Wash.

B.S. '49, University of Oregon; M.S. '49, Columbia University. Major: Business Administration. Minor: Law. Thesis: Accounting Analysis and the Ability to Pay Wages. Major Adviser: Prof. R. G. Berryman.

## Doctor of Philosophy in Medicine

Gerald Joseph Goldenberg, Winnipeg,  
Manitoba, Canada

M.D. '57, University of Manitoba. Major: Medicine. Minors: Anatomy and Biochemistry. Thesis: The Metabolism of Polyamines by Normal and Neoplastic Mammalian Cells. Major Adviser: Dr. Samuel Schwartz.



## Doctor of Philosophy in Radiology

Franz Josef Hallermann, Ahlen, West  
Germany

M.D. '56, University of Muenster (Germany).  
Major: Radiology. Minor: Physiology. Thesis:  
Left Ventricular Volumes in Dogs Measured  
by an Indicator Dilution and an Angiocardiographic  
Method: A Comparison and Critical  
Evaluation of Both Methods. Major Adviser:  
Dr. C. A. Good.

## Doctor of Philosophy in Surgery

Robert Romeo Cassella, New Castle,  
Pa.

B.S. '53, University of Notre Dame; M.D. '60,  
University of Pittsburgh. Major: Surgery.  
Minor: Pathology. Thesis: Pathology of Acha-  
lasia of the Esophagus. Major Adviser: Dr.  
A. L. Brown, Jr.

Carlos Pestana, Suarez, Mexico City,  
Mexico

B.S. '52, M.D. '56, National University of  
Mexico. Major: Surgery. Minor: Pathology.  
Thesis: The Function of the Thymus in Pigs.  
Major Adviser: Dr. G. A. Hallenbeck.

# Academic Costume

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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 near the upper part of 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 Extension Division .....	orange and drab
College of Pharmacy .....	olive
Graduate School	
Candidates for Doctors' Degrees .....	black

College of Medical Sciences .....	green
Graduate School	
Candidates for Masters' Degrees .....	black
General College .....	crimson and white
Institute of Technology .....	orange
College of Agriculture, Forestry, and Home Economics .....	maize
College of Education .....	light blue
College of Liberal Arts .....	white
School of Business Administration .....	drab
University College .....	old gold and white

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, 1965**

- 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. Wilson; Dr. and Mrs. Bowen; Mr. and Mrs. Willson; Mr. R. Walter Bachman, President, Minnesota Student Association; Mr. Robert Weinhagen, President, Coffman Union Board of Governors.
- Members of the Men's Glee Club, under the direction of Mr. Johannes U. Dahle, B.S., Department of Music, will present Christmas carols during the Reception.
- Assisting in the Reception are students and staff members, including those from the Senate Committee on University Functions, the Minnesota Student Association, the Union Board of Governors, the Naval ROTC, and the Department of University Relations.