

THE MINNESOTAN

The University Staff Magazine - October 1957





A Message from The President

Many new members of faculty and staff, a great host of new students, new prospects and new problems—all these we greet at the beginning of the new academic year with renewed confidence and commitment.

Heartening above all else, it seems to me, are two things: (1) the greater public awareness, nation-wide, of higher education—its meaning and needs, and (2) the action of the 1957 Minnesota Legislature bearing witness to that awareness.

The recently publicized report of the President's Committee on Education Beyond the High School and the appointment of an influential Minnesota Legislative Commission on Higher Education are symptomatic of the former, and the increased biennial support given the University by the Legislature is very significant and reassuring. This support gives us new encouragement and strengthened morale—with its substantial improvement of staff salaries which helps to restore the competitive position of the University in recruiting and retaining

top-level personnel; and with the generous recognition of our long-range needs for land and buildings to accommodate not only the larger numbers of students expected but also our expanding responsibilities for teaching, research, and public service. In this latter regard, it is important to remember that the Legislature, responding to public demands, went beyond the Regents' requests to appropriate funds for new types of research and service which the University is expected to undertake.

All this—our larger ongoing—requires very large public expenditures at a time when nationally, as well as in the states and locally, there is closer scrutiny of such expenditures and a discernible mounting resistance to the increased taxation to make them possible. Our more deeply renewed commitment to the public service—to “the advancement of learning, the search for truth, the instruction of youth, and the welfare of the state”—seems to me imperative thereby. More than ever we shall need, and desire, to justify the investment and the faith of the people of Minnesota.

In the two years of this biennium we shall have more to do, but with more and capable workers to do them. We must undertake the acquisition of approximately \$2,000,000 of new lands, the construction of more than \$20,000,000 of new buildings, the long-range planning of the riverside campus, the re-consideration of our internal organization and operations in the light of the all-University Survey study and recommendations, and a re-scrutiny of our University relationships with the state colleges, the private institutions, and the junior colleges of the state in collaboration with the Legislative Interim Commission.

These are large assignments for the institution as a whole, in addition to important reorganizational issues under consideration intramurally within various colleges and divisions. Above and beyond these pressing tasks, there are the larger imperatives of scholarship in every realm of

thought and human endeavor which are the reason for our being and the summons to our service.

Altogether, these necessities represent the challenge of change in an expanding social order to which an institution such as ours uniquely must respond—a challenge to the most resourceful intelligence and effort that together we can mobilize. They are a test of our institutional integrity which we shall welcome with conscience and with confidence.

f. l. Morrell, Jr.

on the cover...

... is Warner F. Clapp's interesting aerial photograph of the Minneapolis campus. Mr. Clapp, manager of the Photography Laboratory, was flown over the campus in June by Gordon D. Lewis, flight instructor, in a University-owned Piper Tri-Pacer plane.

THE MINNESOTAN

Vol. XI No. 1
Published by the Department of University Relations, 213 Administration Building, University of Minnesota, Minneapolis 14, Minnesota.

William L. Nunn, Director
Ann Tucker Editor
Lynne Iglitzin Associate Editor
Advisory Committee: Members of the University Public Information Council.

The Minnesotan is published monthly from October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2 a year, 25 cents a copy. Copies of this issue are on sale at Coffman Memorial Union Bookstore.

Photographs, unless otherwise credited, were taken by members of the University Photographic Laboratory.

Entered as second-class matter at the post office at Minneapolis, Minnesota.

Why Many University Employees Will Vote "Yes" for Social Security

Meetings have been held, questions have been asked and answered, lunch hour time has been preoccupied, and, in general, there has been much discussion among University civil service staff members about the Social Security Referendum on October 15. In light of the interest, the editor of THE MINNESOTAN asked 15 staff members, "Why will you vote 'yes' for the Social Security Referendum?" Strong reasons for voting 'Yes' came from people of many different classifications: secretaries, a mechanic, a shop foreman, an office supervisor, a building caretaker, and a plumber, to mention a few.

Here are their answers:

Ann L. Murphy, administrative secretary, College of Science, Literature, and the Arts: "I am glad to



Ann L. Murphy

vote for the acceptance of the Social Security program offered to University employees. Personal considera-

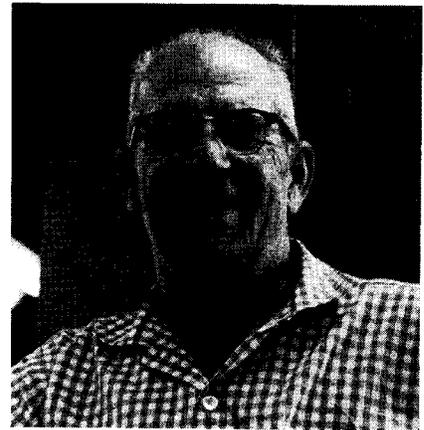
tions play no part in my vote as I will not profit from the plan. There is no question in my mind that acceptance of the plan would be advantageous to the state and its employees. It covers a variety of groups of people who will benefit from it not only now but for years to come. With the present trend toward higher costs of living, it seems imperative that state employees vote for acceptance of the benefits of Social Security. If we reject it now no future opportunity may be offered."

Robert J. Martin, senior general mechanic, Physical Plant Department, Duluth Branch: "I am strong for the Social Security program. For one thing, if I should get sick or disabled in some way when I am 50, my wife and family would still be protected. Another thing, if you have Social Security benefits when you enter University employment and there is no Social Security provision at the University, your benefits would decline. Social Security goes with you wherever you go. I think it is a more stable plan than what we have now."

Chester F. Lindstrom, junior librarian, Library: "It will be to our advantage to vote 'yes' for Social Security. I have always been a staunch supporter of SERA and feel that a combination of SERA and Social Security would be to our advantage. I believe, in this sense, while the state has a fine program

that to be aided by the federal project would, surely, improve the program as a whole."

O. B. Belanger, foreman of the electrical shop, Physical Plant Department: "I'm all for Social Security because, regardless of your status, you'll get more in actual dollars when you retire. Your wife would get money when she becomes 65 whether or not you are alive or dead. The total comes out much better for most anybody."



O. B. Belanger

Lois Ecklund, office supervisor, Department of Admissions and Records, St. Paul campus: "I think now that the legislature has given us the opportunity to join OASI (Social Security), we should take the opportunity. It should benefit both young and old alike."



Lois Ecklund

Harry Wilson, assistant supervising engineer, Physical Department: "Social Security is a big step in increased benefits for persons having retirement. They will get more than they ever have before. The new program provides especially rewarding benefits for long time University employees. This coordinated program will cost employees approximately the same amounts as the old program did. Costs will be increased only as Social Security benefit accessments are increased. And, a wife will get an annuity in case anything happens to the husband. So far, this has been an optional coverage. Under Social Security it would become a permanent part of the plan and the benefits would become larger. Benefits under Social Security include money for minor children in case of the death of the breadwinner. This was not true be-

Harry Wilson



fore. Also, Social Security is a plan which all state employees can afford to carry.

"All state employees will be given the opportunity to vote on this program on October 15. Favorable vote by 51 per cent of all the membership is necessary for adoption of Social Security. When an eligible person does not vote it is the same as the vote 'no.' All state employees should support this co-ordinated plan in order to procure additional benefits."



Marjorie J. Gerlich

Marjorie J. Gerlich, principle accounting clerk, Agricultural Experiment Station: "Social Security will increase our retirement benefits, a fact of major importance to everyone." She went on to point out that even the 19-year-old girl who is working only temporarily has a stake in the referendum since she may have to go to work in later years. If she does, she will then have accumulated some social security credit.

William Kehr, herdsman, College of Veterinary Medicine, St. Paul campus: "I'm for Social Security for the benefit of the employees—because I feel it gives us married people something for our families when we get older. It gives better survivors' benefits in case of death than does the other plan. Personally, I'd like to see it go through—for the group."



Viola Chandler

Viola Chandler, administrative secretary, Institute of Agriculture: "University civil service employees have been waiting a long time to be included in the Social Security retirement plan. Now we have the opportunity to vote 'yes' on the referendum on October 15, 1957."

Alberta Majerle, senior account clerk, business office, Duluth Branch: "While my coverage under this plan is not greatly changed, I know that for many on the staff this coordinated plan is considered a real advantage. I would be in favor of it on the grounds of the greatest good to the greatest number."

Roy E. Greve, building caretaker, Physical Plant Department, Duluth Branch: "I am in favor of the Social Security provision because it permits me to hold my Social Security level that would decline after a five-year period of not paying Social Security."

Maxine K. Dilliard, senior secretary, Office of Admissions and Records: "Certainly Social Security is a good overall thing for everyone. It is a disadvantage for someone to be at the University without Social Security and then to go somewhere else. Married women will still come out ahead on Social Security. If both

The Minnesotan

the husband and wife are alive at 65 they can collect Social Security for both of them. I am personally interested because I intend to keep on working and because my husband will be in one of the few professional fields not covered by Social Security."

Genevieve Johnson, senior secretary, Division of Science and Mathematics, Duluth Branch: "I think the Social Security plan is wonderful—a real protection to single people as well as to husbands and wives and their families."

Walter L. Nelson, plumber, Physical Plant Department: "For one thing, being one of the tradesmen who works at the University by the hour, I have no strong guarantee of permanent work such as the civil service staff members do. If I should

find it necessary to go back to working for a contractor, I would want to have Social Security so as to transfer it to my new job."

Vince Reed, building caretaker, Library: "Yes, as an individual I am in favor of Social Security. It provides a little more security for retirement. Now with a combination of the two retirement programs we could be better off."

Richard K. Ford, hospital orderly, University Hospitals: "Yes, Social

Security would be a very good thing for us . . . especially the increase in payments when we retire and the resulting better living conditions. People of the state deserve to have these added benefits."

Claus Fransen, senior custodial supervisor for Coffman Union: "I am in favor of the federal Social Security plan. The retirement benefits will be better. The disability benefits are very important, too, and will give me greater protection for my children and family."

Three University Units Change Status

The Department of Physical Education for Women and the Institute of Child Welfare have been transferred to the College of Education. These changes were effective July 1, 1957.

The Department of Physical Education for Women formerly operated as an independent administrative unit with its director reporting directly to the President. The internal organization remains unchanged with committees continuing their present functions. The external organization of the Department, however, is now channeled through the College of Education. Also, members of the staff of the Department now serve on College of Education committees as well as on Department committees.

The name of the Institute of Child Welfare will be retained, and courses offered by the Institute will be identified as "Child Development."

The University now has a College of Veterinary Medicine which was formerly the School of Veterinary Medicine of the Institute of Agriculture.

16 POSTPONE RETIREMENT HOPING FOR ADDED BENEFITS UNDER SOCIAL SECURITY

Sixteen civil service employees who were scheduled to retire on June 30 received the approval of the Board of Regents to continue working for the University for several months. This was done in order that they might qualify for the retirement plan coordinating Social Security and SERA which is subject to the October 15 referendum vote. If the coordinated plan is passed, these staff members will receive major increases in benefits as shown by the figures below:

Employee	Annuity Under the Proposed Social Security-SERA Plan	Annuity if the Staff Member Had Retired Under the Old Plan On June 30, 1957
"A"	\$ 89.55	\$ 22.82
"B"	135.16	78.42
"C"	112.00	56.92
"D"	64.59	16.39
"E"	165.15*	65.34
"F"	159.51**	81.12
"G"	99.36	44.60
"H"	119.86	82.14
"I"	243.98*	150.00
"J"	82.67	32.51
"K"	256.59*	174.44
"L"	104.56	55.11
"M"	159.08*	52.52
"N"	182.22*	63.88
"O"	109.87	60.87
"P"	95.33	38.61

*Includes additional OASI (Social Security) benefits for wife.
**Includes additional benefits for dependent husband.



William F. Brown, Jr.



George Philip Hager



Gardner Lindzey

NEW STAFF MEMBERS WELCOMED TO THE U

This fall, because of the anticipated increase in enrollment, the number of new staff members to appear on campus at the University of Minnesota is unusually large. THE MINNESOTAN welcomes all newcomers and would like to introduce a new dean, a new department head, three new professors, and eight new associate professors.

The new dean of the College of Pharmacy is Dr. George Philip Hager. His formal education in pharmacy, pharmaceutical chemistry, and biochemistry was obtained at University of Maryland, University of Colorado, and Northwestern. He served as a member of the faculty of University of Maryland College of Pharmacy for 11 years and was employed as research organic chemist at Eli Lilly and Company during the war and as senior scientist at Smith, Kline, and French for two years before coming to Minnesota. He has also served as consultant for several drug manufacturers, principal investigator under contract to Army Chemical Corps, and member of Cardiovascular Liter-

ature Project Advisory Board for the National Academy of Sciences.

The new head and professor of the Department of Agricultural Economics of the Institute of Agriculture is Dr. Sherwood O. Berg who attended the Central School of Agriculture and later received his Ph.D. from the University in 1951. In September, 1951, he was appointed American agricultural attache to Yugoslavia. Six years later he was transferred as agricultural attache for Denmark and Norway. The United States Department of Agriculture conferred the Superior Service Award upon him in 1956 for his record in Denmark. He has also been on the staff of the School of Agriculture of the South Dakota State College, Cornell University, and the University of Minnesota.

William F. Brown, Jr., newly ap-

pointed professor of electrical engineering of the Institute of Technology, has a rich background in teaching and professional experience. He received his Ph.D. degree from Columbia University in 1937 and served as physicist with the Naval Ordnance Laboratory in Washington, D. C., and as research physicist for the Sun Oil Company. He has also been a lecturer in physics, teaching pre-engineering physics courses at Columbia University for 10 years and has been an assistant professor of physics at Princeton. Prof. Brown comes to the University after two years as senior research physicist with Minnesota Mining and Manufacturing Company in St. Paul. His extensive list of publications includes a substantial part of the 17th volume of an international reference set which is titled *Encyclopedia of Physics*.

Newcomer Ralph E. Comstock replaces L. M. Winters, who retired this year, as professor in the Department of Animal Husbandry. Prof. Comstock received his B.S., M.S., and Ph.D. degrees from the University and has served here as instructor and assistant professor. In 1943 he joined the staff of the North Carolina State College with a joint appointment in animal husbandry and experimental statistics. He came to Minnesota from North Carolina in July.

Effective September 16, Gardner Lindzey became professor of psychology in the Department of Psychology. After receiving the B.A. and M.A. degrees from Pennsylvania State University, he earned the Ph.D. degree from Harvard in 1949. Then, for seven years, he was on the staff at Harvard. From 1956 to 1957, he was a professor at Syracuse University.

(Continued on page 14)

Douglas C. Basil



Harold W. Chase



Ralph E. Comstock



U HONORS 76 WHO HAVE RETIRED

“WHATEVER the University has become you have shared in the making. Whatever its greatness and glory, surely you deserve to share.”

These words of President J. L. Morrill summarized the tribute paid by the University of Minnesota last spring when 76 retiring employees were honored. They were given Certificates of Merit during the eleventh annual presentation ceremony on May 27. President Morrill; Malcolm M. Willey, vice president of academic administration; and William T. Middlebrook, vice president of business administration, officiated at the ceremony.

Vice President Willey opened the program, explaining it would be broadcast that afternoon over KUOM. He emphasized, “These honored guests today have made important contributions to their own professions while they have served the University, and they have been instrumental in impressing our students with high academic and personal ideals.”

Vice President Middlebrook explained, “Paying tribute to each one of you is indeed an honor. You’ve worked faithfully together on the University team, meeting the challenges of each year.”

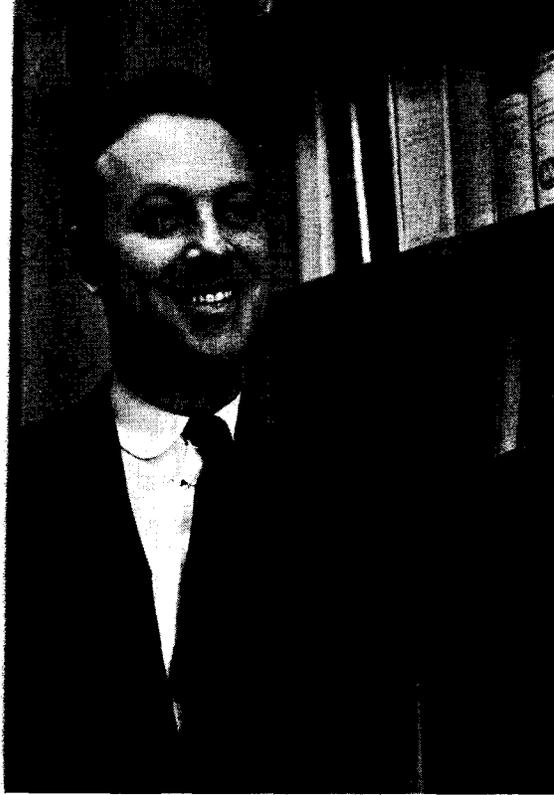
Then, President Morrill presented Certificates of Merit to each retiring staff member who has been at the University for more than 10 years. In conclusion, he said, “Loyalty of staff members to do all these jobs has been indispensable to the development of the University. In recognition of your achievement,” he added, “the Regents have caused your names to be inscribed in the official records of the University . . . as a personal token of esteem from your colleagues and from the whole University.”

(Continued on page 14)

Top left: President J. L. Morrill presents a Certificate of Merit to Mrs. Ruth E. Lawrence, director of University Gallery, who has worked for the U for 23 years.

Middle: Congratulations were in order during the reception held after the ceremony. From left to right are Dr. W. M. Craig, professor of neurologic surgery; Dr. D. M. Masson, professor of medicine; Dr. A. R. Barnes, professor of medicine; President Morrill; and Dr. R. E. Fricke, associate professor of radiology. The doctors are all on the staff of the Mayo Foundation, Rochester, Minn.

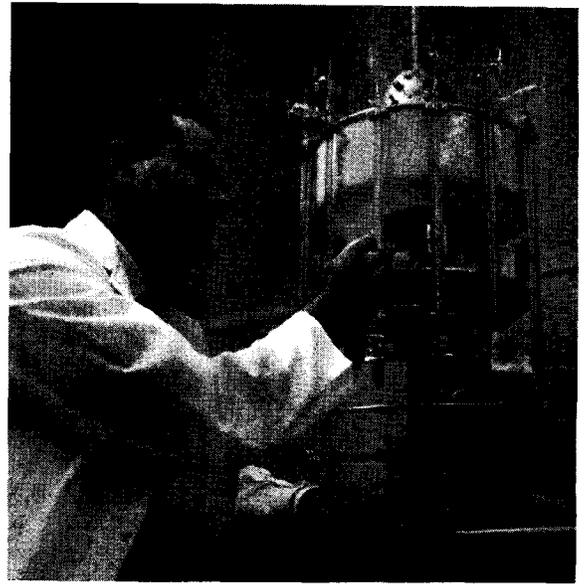
Bottom: KUOM broadcast the ceremonies which were held in the main ballroom of Coffman Union on May 27.



staff members

YOU SHOULD KNOW

A grant of \$13,500 from the Social Science Research Council will enable Herbert McClosky, associate professor of political science, to study political behavior for 2½ years.



Dr. Maynard Cohen, associate professor in the Department of Psychiatry and Neurology, is director of University Hospitals' neurology research program.

Robert H. Cameron, professor of mathematics, on the left, has been appointed chairman of the Department of Mathematics. E. W. McDiarmid, dean of the College of Science, Literature, and the Arts, also announced that John M. H. Olmsted, professor of mathematics, right, will be the associate chairman.



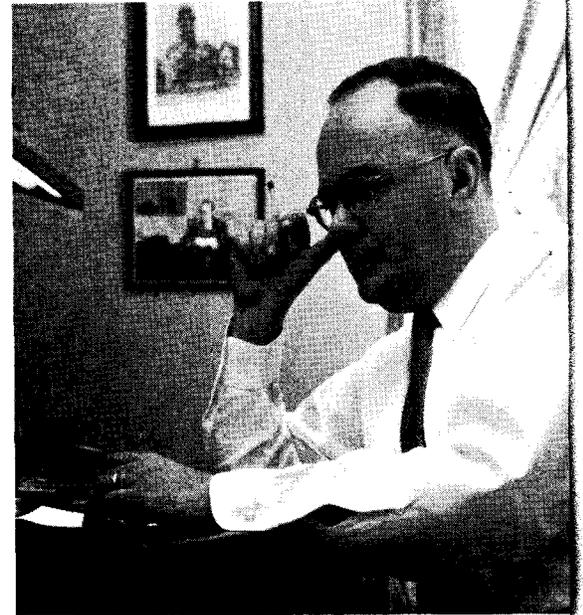
Eugene P. Pfeider, chief of the Division of Mineral Engineering, examines a research drill which is used for making holes in rocks preparatory to blasting.



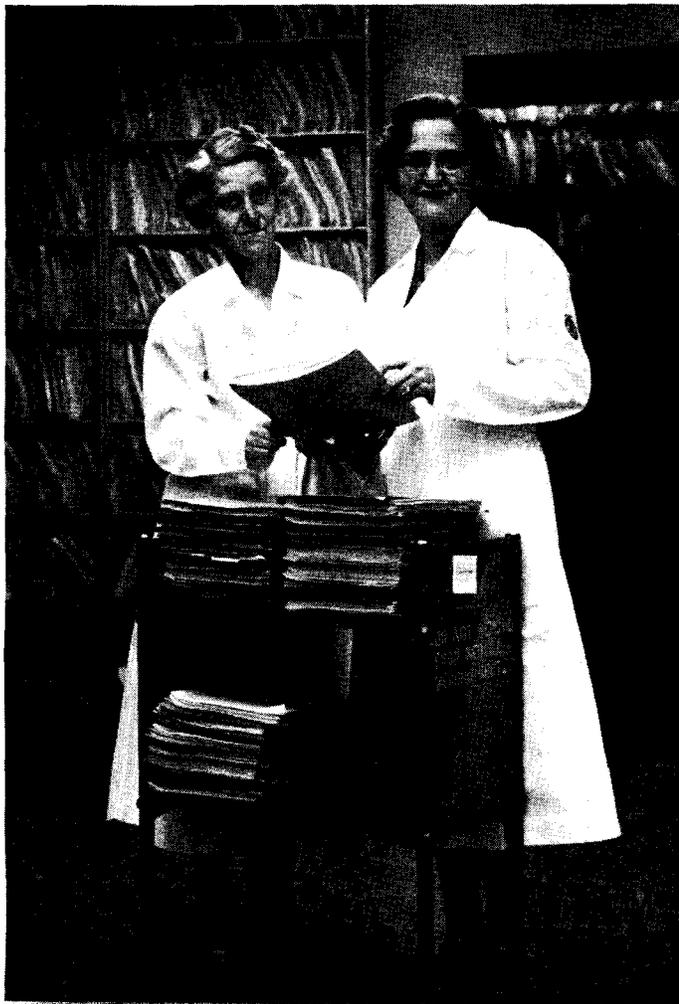


C. B. Hanscom, director of the Department of Protection and Safety, says that traffic is the biggest problem of his department, the law enforcement agency for the University.

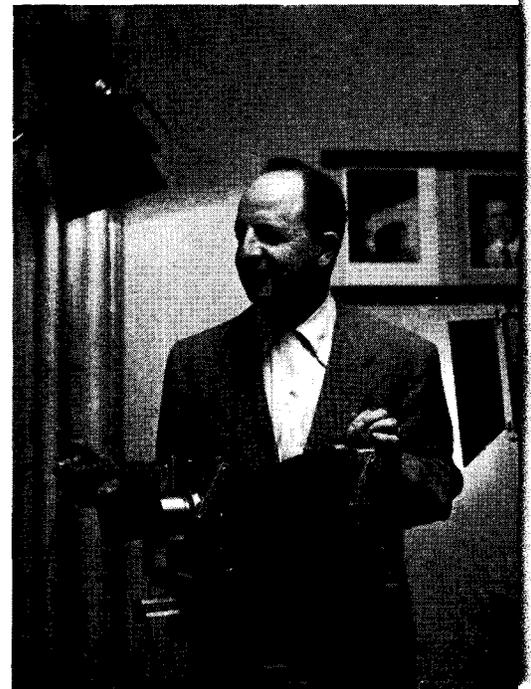
Gerhard von Glahn, professor and head of political science at UMD, is the author of the book, The Occupation of Enemy Territory, now in the page proof stage at University Press.



Left to right are pictured Alice Carlson, medical records librarian, research section, and Bertha Pfenninger, medical records supervisor, at University Hospitals. They are in charge of over 300,000 patient records which are kept permanently.



Walter O. Zambino, photographer, shoots most of THE MINNESOTAN's photographs and also takes portraits of staff members and students in Wesbrook Hall.



teaching, research, and service

U Staff Members Spent the Summer on Rewarding Projects

For the second year, department heads, deans, and directors have responded to THE MINNESOTAN'S appeal for news of the summer activities of University staff members. Here is a partial listing of the hot weather doings away from home of many of the University's people:

TEACHING

JOHN BERRYMAN, associate professor of humanities, lectured, at the invitation of the State Department, at the universities in Bombay, Calcutta, and New Delhi, India.

JOHN J. BITTNER, director of cancer biology, received the honorary degree of doctor of medicine and surgery from the University of Perugia, Italy, on July 28, during the Second International Symposium and lectured at the University of Milan, Italy; at Kantospital in Zurich, Switzerland; and at the Fourth Congress of the International Association of Gerontology at Marano and Venice, Italy.

ELLEN FROGNER, associate professor of English at the Duluth Branch, taught at the State University of New York at Fredonia, New York.

ROBERT L. HELLER, associate professor of geology at the Duluth Branch, taught at the University of Missouri geology field camp at Lander, Wyoming.

HUBERT M. LOY, associate professor of education, taught at Cornell University, Cornell, New York.

DR. C. WALTON LILLEHEI, professor of surgery, conducted a three week lecture tour in Belgium, Sweden, Switzerland, and France at the request of various European medical groups. He performed several heart operations in Paris to demonstrate the University of Minnesota techniques which are being adopted by surgeons throughout the world.

L. R. LUNDEN, treasurer and comptroller, participated for the 13th year as lecturer in the School of Banking at the University of Wisconsin. This school is conducted at the graduate level and has an enrollment of 1,200 students drawn from every state and several foreign countries.

ROBERT C. McCLURE, professor of law, taught busi-

ness law at the United States Naval Postgraduate School in Monterey, California.

WILLIAM L. NUNN, director of University Relations, conducted a workshop on public relations at Kansas State Teachers College and taught a graduate course in public relations at Colorado State University.

John J. Bittner, director of cancer biology, was given the honorary degree of Doctorate in Medicine and Surgery by the University of Perugia for his achievements, the fruit of his studies in the field of cancer research.



The Minnesotan

STEVEN OREY, instructor in mathematics in the College of Science, Literature, and Arts, attended an institute at Cornell University before joining the University of California staff at Berkeley as visiting assistant professor of mathematics for the coming academic year.

NELSON T. SPRATT, JR., professor of zoology, taught a course in embryology at the Marine Biological Laboratory at Woods Hole.

GALE L. SPERRY, instructor in music, taught at the Central Washington College of Education, Ellensburg, Washington.

ALLEN A. C. TATE, professor of English, directed an international seminar in the humanities at Harvard University.

LEONARD UNGER, professor of English, taught at the School of Letters at Indiana University.

MELVIN WALDFOGEL, assistant professor of art, taught a modern painting course at Harvard.

E. G. WILLIAMSON, dean of students, lectured at the Institute on College Administration at the University of Michigan; conducted a workshop in counseling and guidance for the State University Teachers' College in Potsdam, New York in late July; and conducted a second workshop at Potsdam in August.

RESEARCH

EMMA BIRKMAYER, associate professor, College of Education, studied the progress since the war of the schools of Germany for the State Department.

FRED H. BLUM, associate professor of social science, studied Quakerism and the industrial-social order, in cooperation with the Friends Social Order Committee in London, England.

ALLAN H. BROWN, professor of botany, studied the relationship of respiration to photosynthesis at the Botany School at Cambridge University, Cambridge, England.

STANLEY BRUCKENSTEIN, associate professor of analytical chemistry, served as visiting associated scientist in the Department of Nuclear Engineering at Brookhaven National Laboratory. He is working on analytical problems arising in the development of the liquid metal fuel reactor at Brookhaven.

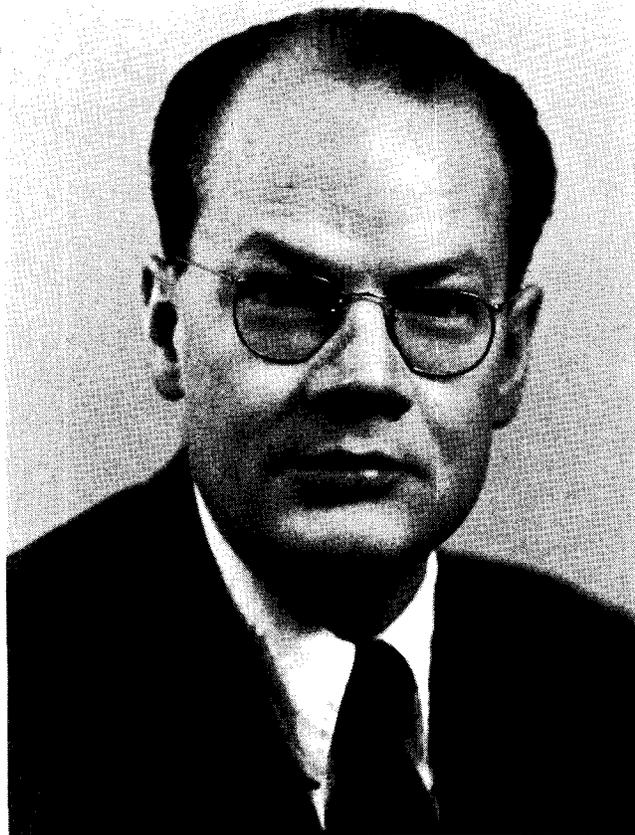
GEORGE S. BUSH, instructor in journalism, studied the editorial operations of *Look* magazine, New York City, and compiled several photo-stories.

HUAI CHIANG, associate professor of biology at the Duluth Branch, did research on the corn borer at Waseca.

J. CAMPBELL CRADDOCK, assistant professor of geology, worked on a geological research project in New Mexico after he finished teaching a field course in the Black Hills of South Dakota.

BRYCE CRAWFORD, JR., chairman of the School of Chemistry, served as visiting research associate at Varian Associates, Palo Alto, California, studying possible new applications of nuclear magnetic resonance spectrometers.

A. ORVILLE DAHL, professor and chairman of the



Bryce Crawford, Jr., chairman of the School of Chemistry, studied possible new applications of nuclear magnetic resonance spectrometers in Palo Alto, California.

Department of Botany, carried on research on pollen at the Arnold Arboretum of Harvard University, Jamaica Plain, Massachusetts.

ROBERT W. DICKERMAN, research assistant, and DWAIN D. WARNER, assistant professor of zoology, both members of the staff of the Museum of Natural History, conducted bird research in Mexico.

L. E. A. EITNER, associate professor of art, returned from Munich where he spent a year on a Fulbright.

JOSEPH G. GALL, assistant professor of zoology, pursued research on chromosome division in radioactive material at the Marine Biological Laboratory at Woods Hole, Massachusetts. He interrupted his work for two weeks to present a paper at the International Congress of Cytology at Saint Andrews, Scotland.

JOHN W. GRUNER, professor of geology, worked with the origin and mineralogy of uranium minerals with the Atomic Energy Commission in Wyoming and other western states.

DAVID W. FRENCH, associate professor of plant pathology, studied tree diseases with the United States Department of Agriculture Forest Service at Juneau, Alaska.

HOWARD G. HANSON, associate professor of physics at the Duluth Branch, conducted research on fluorescence for the United States Air Force.

DALE B. HARRIS, director of the Institute of Child Welfare, interviewed young men and women on the West Coast who had been preschool children at the Institute. AUDREY SCHECHTMAN, research fellow in the Institute, conducted a similar study in the east. Their work is concerned with a study of stability and change in aspects of personality through the years of childhood and adolescence, and of how individuals cope with stress in the experiences of growing up.

ANCEL KEYS, professor and director of the Physiological Hygiene Laboratory, left in August for an extensive trip to Europe to study the relationships of coronary heart disease to diet. He went first to England and the Scandinavian countries including Finland. He will also study the inhabitants of Crete and men in a village in southern Italy.

MARK M. KEITH, associate professor of biology at the Duluth Branch, studied leeches in Minnesota and Mexico.

HENRY LEPP, associate professor of geology at the Duluth Branch, conducted a geological survey in Saskatchewan, Canada.

ELLIS H. LIVINGSTON, associated professor of history at the Duluth Branch, conducted a study on the Nye Committee investigation of the munitions industry in Washington, D. C.

MARY MALCOLM, associate professor of music, studied teaching procedures of music theory and private study at the Fountainebleau School of Music, Fontainebleau, France.

DWIGHT E. MINNICH, professor and chairman of the department of zoology, spent the latter part of the summer at the Mount Desert Island Biological Laboratory, Salisbury Cove, Maine.

HAROLD M. MOONEY, associate professor of geophysics, served as geophysics consultant to the United States Corps of Engineers, Snow, Ice, and Permafrost Research Establishment. The results of their studies in Greenland will be used to determine proper construction sites for highways and buildings.

RAYMOND B. NIXON, professor of journalism, spent the spring and summer on a round-the-world tour gathering information about press and communications systems, as well as about schools of journalism, in many parts of the world. He received a grant from the Ford Foundation and is gathering materials for his teaching at the University.

MAGNUS OLSON, associate professor of zoology, visited biological stations on the West Coast.

MOSES PASSER, associate professor of chemistry at the Duluth Branch, toured Russian and other European peat research and processing centers and continued his basic research on peat for the Iron Range Resources and Rehabilitation Commission.

PETER A. SCHOECK, instructor and glaciologist in the department of mechanical engineering, spent the summer at Little America as chief geologist for the International Geophysical Year. He and his fellow workers were isolated without ship service during the summer months which are actually wintertime at the South Pole. He has been on leave from the University for two years and will return in another year.

T. MICHAEL SANDERS, JR., assistant professor of physics, did research at the Bell Telephone Laboratories in Murray Hill, New Jersey.

GROVER C. STEPHENS, assistant professor of zoology, continued his study of marine organisms at the Marine Biological Laboratory at Woods Hole, Massachusetts, with a grant from the National Science Foundation.

JAMES STEPHAN, professor of hospital administration, conducted hospital studies at Salt Lake City, Kansas City, and Wayne County, Michigan.

F. M. SWAIN, JR., professor of geology, did field work for the Pennsylvania Railroad in the northern Appalachian mountain area.

DR. JEROME T. SYVERTON, professor and head of the Department of Bacteriology and Immunology, attended several scientific conferences in Switzerland, Italy, and Scotland and continued his research in the field of tissue culture with a Commonwealth Fund grant for scholastic work.

JOHN R. TESTER, assistant scientist, Museum of Natural History, conducted ecological research in northwest-ern Minnesota on the virgin prairie tracts.

GERHARD VON GLAHN, professor of political science at the Duluth Branch, spent part of the summer in Chicago studying the economic and social thought of Johann Gottlieb Fichte.

DR. HELEN WALLACE, professor of maternal and child health, received a World Health Organization traveling fellowship and used it to observe maternal child health programs in Colombia, Peru, Chile, and Brazil.

DWAIN W. WARNER, assistant professor of zoology, spent most of the summer in Mexico studying the singing quail and gathering data for the book on the natural areas of Central and South America on which he is collaborating, under a grant from the Pan-American Institute for Geography and History.

ROGER E. WILK, instructor and counselor in the College of Education, taught at Montana State University for the second summer.

DONALD H. YARDLEY, associate professor of mining, collected special granite samples between the northern Minnesota border and Red Lake, Ontario, Canada.

SERVICE

JOHN E. ANDERSON, professor in the Institute of Child Welfare, attended the Fourth International Congress of Gerontology in Merano, Italy; the International Symposium on Medical and Social Aspects of Senile Nerv-

ous Diseases, in Venice; and the 15th International Congress of Psychology, in Brussels, Belgium.

DR. A. B. BAKER, professor of neurology, visited some of the major neurological centers in Europe and attended the meeting of the International Congress of Neurological Sciences in Brussels, Belgium.

THEODORE C. BLEGEN, dean of the Graduate School, attended the Anglo-American Historical Conference in London and visited the American Summer School in Oslo.

ROBERT L. BLISS, assistant professor of architecture, attended the Association of Collegiate Schools of Architecture seminar on "The Teaching of Architecture" in Aspen, Colorado.

HERBERT M. BOSCH, professor of public health engineering, served as consultant to the International Cooperation Administration for studies on public health engineering and the conduct of public health engineering seminars, in Brazil.

OSWALD H. BROWNLEE, professor in the School of Business Administration, completed 15 months of service on a United States State Department mission to Santiago, Chile.

RUSSEL M. COOPER, chairman of the Department of Interdisciplinary Studies and assistant dean of the College of Science, Literature, and the Arts, directed the Danforth Campus Community Workshop during the month of July. The Workshop was held at Sarah Lawrence College for the purpose of improving education in American liberal arts colleges.

JOHN D. DONKER, associate professor of dairy husbandry, acted as an adviser on an experimental set-up for the study of "low-solids-not-fat" in milk at the University of Florida.

RAFAEL DRUIAN, assistant professor of music, toured, as concertmaster with the Minneapolis Symphony Orchestra, in Europe and the Middle East during September. Ten instructors of music played with the orchestra: Bernard Adelstein, trumpet; Rhadames Angelucci, oboe; Marvin Dahlgren, percussion; Ray Fitch, double bass; Robert Jamieson, cello; Emil Opava, flute; William Santucci, bassoon; Andre Speyer, French horn; Paul Walton, tuba; and Cloyde Williams, clarinet and saxophone.

RODOLFO O. FLORIFE, associate professor of romance languages, and FRANK M. WHITING, director of University Theater, toured with the University Theater, doing *Our Town* and *A Midsummer's Night's Dream* in Brazil.

RICHARD K. GAUMNITZ, professor in the School of Business Administration, served as consultant to a group of meat packers on the study of management problems in industry.

SAMUEL S. GOLDICH, professor of geology, helped organize a geological and mapping project in Hawaii sponsored by the United States government.

RUTH GROUT, professor of health education, served as a consultant to the World Health Organization in Geneva, Switzerland.

ERNEST A. HEILMAN, professor emeritus of accounting, returned to Minneapolis this month for a brief leave from his work of assisting the University of Ankara, Turkey, in the establishment of a curriculum for the training of accountants. During the next year he will administer the newly organized program.

PERSHING B. HOFSLUND, associate professor of biology, served as naturalist at Gooseberry State Park on the northwest shore of Lake Superior.

THOMAS H. KING, professor of plant pathology, served as adviser in plant pathology to the College of Agriculture of Seoul National University of Korea.

ISAAK M. KOLTHOFF, professor and head of the Department of Analytical Chemistry, served as a delegate of the National Academy of Sciences' Research Council at the Congress of the International Union of Pure and Applied Chemistry in Paris in July. Dr. Kolthoff is president of the Analytical Chemistry Section of the International Union and vice president of the Union.

DR. MAURICIO MARTINS DA SILVA, assistant professor of pediatrics and research associate in the Department of Bacteriology and Immunology, recently participated in a round table on polio at the Fifth Pan-American Congress of Pediatrics held at Lima, Peru.

EUGENE P. PFLEIDER, professor and chief of mineral engineering, supervised the initial operating layout and equipment of the mining phases of the Moa Bay Nickel Mine in Cuba.

STEPHEN PRAGER, associate professor of physical chemistry, served as consultant for the Gaseous Diffusion Plant at Oak Ridge, Tennessee.

GEORGE M. SCHWARTZ, professor of geology, spent part of August and September as consultant geologist for the Phelps Dodge Corporation at Bisbee, Arizona.

HAROLD R. SEARLES, professor and dairyman, Agricultural Extension Service, judged Brown Swiss cattle at the Colombian Exposition in Bogota, Colombia, in August. Following the exposition he spent two weeks classifying Brown Swiss cattle on haciendas in Colombia.

WILLIAM G. SHEPHERD, professor and head of the Electrical Engineering Department, was chairman of the United States Commission Seven, of the International Scientific Radio Union, the section which is concerned with physical electronics. He was in charge of organizing a program for the Commission as its contribution to the 12th annual General Assembly to be held in Colorado this fall.

MALCOLM M. WILLEY, vice president of academic administration, represented the United States at two conferences on higher education in Europe—one in France and the other in Norway.

NEWCOMERS

(Continued from page 6)

A total of eight new associate professors are to be introduced. The first is Douglas C. Basil who joins the staff as associate professor in the School of Business Administration. After a year of study in England under the auspices of a Hudson's Bay Company scholarship, he served as instructor at Marquette University, investigated purchasing at the Falk Corporation of Milwaukee, and was a management consultant for Leblanc Company of Kenosha, Wisconsin. Since 1954, he has been an assistant professor at Northwestern University.

Harold W. Chase comes to the University of Minnesota as associate professor of political science. He holds the A.B., M.A., and Ph.D. degrees from Princeton University and from 1948 to 1950 was on the faculty of the University of Delaware. After two years in the Marine Corps he returned to Princeton as lecturer. In 1954 he was made assistant professor, teaching courses in state and local government and public administration.

Newly-appointed associate professor in the School of Business Administration, Robert S. Hancock, received his training at Cornell College, Mt. Vernon, Iowa, and at North Central College, Naperville, Illinois, and at the University of Illinois which granted him both the M.S. and Ph.D. degrees. He worked as accountant for a Chicago accounting and tax service and has taught marketing, credits and collections, and retailing at the University of Illinois. From 1941 to 1946 and in 1951-52 he served as finance officer and major in the United States Air Force. Since 1956, he has been an assistant professor at the University of Illinois.

With a distinguished athletic record, William W. Heusner, Jr., becomes associate professor of physical education. In addition to being a member of the United States Olympic Swimming Team in 1948, he was a member of the United Pan-American Games Swimming Team at Buenos

Aires in 1951 and was twice holder of a National Intercollegiate Swimming Championship and three times holder of the Western Conference Swimming Championship. He was named on All-American swimming teams for six consecutive years. Heusner has been an assistant professor and head swimming coach at Southern Illinois University.

Yale Kamisar, formerly associated with the law firm of Covington and Burlington, joins the Law School staff as associate professor. He received an A.B. degree from New York University in 1950 and his LL.B. from Columbia in 1955. In 1953 he was a research assistant in the Columbia Law School and in 1955 joined the firm of Covington and Burlington.

The second associate professor to join the School of Business Administration is I. Richard Savage who will devote one-third time to the School of Public Health. He was a member of the Statistical Engineering Laboratory of the National Bureau of Standards and research associate and acting assistant professor at Stanford University and comes to the University after working as a statistical and

mathematical consultant for the Center for Advanced Study in the Behavioral Sciences located at Stanford, California.

Aram Vartanian leaves his post as assistant professor of French at Harvard University to become associate professor in the Department of Romance Languages. He received his B.A. in 1944, his M.A. in 1947, and his Ph.D. in 1951 from Columbia University and has also been assistant professor of French at Tulane University.

The School of Physics has added Donald R. Yennie to the staff as associate professor. He received his mechanical engineering degree from Stevens Institute of Technology in 1945, served in the U. S. Navy until 1946 and returned to Stevens Institute as an instructor in physics until 1947. In 1951, he received his Ph.D. degree from Columbia University and in 1951-52 he was a member of the staff of the Institute for Advanced Study. He has been at Stanford University since 1952.

Unfortunately, THE MINNESOTAN does not have room to welcome all newcomers. But, may we say "We're glad you've come," to them all.

Retirement Party

(Continued from page 7)

Retiring employees included Harold J. Aase, Einar M. Aasen, Mayme J. Anderson, William Anderson, Raymond Aune, Alice Z. Baker, Dr. Arlie R. Barnes, Hugo Beckstrom, Retta Bede, Clara A. Blegen, Raymond W. Brink, Oscar Bordsen, Alfred L. Burt, Eleanor Carney, Ruth Christie, Marie L. Clausen, Rex W. Cox, Dr. Winchell M. Craig, Dr. Austin C. Davis, Anna Domning, and Carl Evenson.

Others were: Pauline E. Farseth, Henry M. Fast, Dr. Robert E. Fricke, Erford E. Frost, Myrtle Gable, Ray D. Goff, Margaret L. Grablander, Freda Graves, Elizabeth Graybeal, Dr. Henry V. Hanson, Dr. Hermina Hartig, Emma H. Hartman, Alice K. Hill, Jacob Homan, Lillian S. Hunter, and Oscar B. Jesness.

Others retiring were: Hilmer C. Johnson, William N. Johnson, Herman R. Landre, Thomas W. Larmore, Luella R. Larsen, Ruth Lawrence, Earl Leighton, Arthur V. Lindquist, Minnie Lund, Henrietta Lysaker, Hazel R. Markstrom, Carrie Martinson, Dr. Duncan M. Masson, Walter E. Maturen, Dr. Joseph C. Michael, Hattie Miller, and Dr. J. Arthur Myers.

Included were: Etta M. Newman, John O. Olson, Ernest S. Osgood, Benjamin W. Palmer, Dr. Paul S. Parker, Herbert L. Parten, Dr. Mark O. Pattridge, Mary Randolph, and Arvey Ramberg.

Others who retired were: Gustav A. Reifler, Charles H. Rogers, Ella J. Rose, Henry Rottschaefer, Robert F. Schuck, Christina Simons, Carl C. Thompson, Eves E. Whitfield, Johanna Williams, Lawrence M. Winters, Leo Wisbar, and Mary N. Wood.

THE QUESTION IS:

What Happened to the Earle Brown Gift To the University?

The Earle Brown Short Course Center will dominate the St. Paul campus, according to the proposed plan recently presented by Winston E. Close, advisory architect. The combination classroom building, auditorium, and dormitory will be located at the rear of the three main study areas: animal sciences, plant sciences, and the general classrooms and offices. Because of its size and place on the campus, the Center will coordinate, architecturally, these three groups of buildings, and will also provide a pleasing vista to people driving through the campus.

A major portion of funds for the Earle Brown Center will come to the University as a result of the eventual sale of the Earle Brown farm, of 750 acres located in Brooklyn Center a few blocks north of the Minneapolis city limits, which Mr. Brown, former Hennepin county sheriff, deeded to the University in 1949. The University has contracted to sell this land to the Winston Brothers Company of Minneapolis for use in their model housing development known as Garden City. This development follows the original studies which attracted much attention when first completed by Professor Close and was then known as the Close Plan. Mr. Brown retained a life interest in his farm. At the time of his gift, but, in order to get the project started, he released 300 acres to the University in 1954.

In the late spring of 1956, actual construction of

homes was begun by the Garden City Development Company, a subsidiary of the Winston Brothers Construction Company. This is a well-planned community of attractive and varied homes located on spacious lots. Eight models in split level and ranch styles are for sale at prices beginning at \$14,700. The plan now includes sanitary sewer, storm sewer, and central water supply; paving, curbing, lighting, natural gas, and telephone service; and sod and trees, which are in and paid for.

This ideal community is located close to churches of nearly every denomination. The residential areas are set carefully apart from the proposed controlled commercial area, and it is planned that the parks, civic center, and shopping centers will be easily accessible.

To date, 56 homes have been sold including five to University staff members. These are Vernon L. Ausen, room assignment and scheduling supervisor, Department of Admissions and Records; Paul A. Bloland, director, Student Activities Bureau; Kermit L. Garlid, instructor in chemical engineering; David L. Kanatz, senior personnel worker, Student Activities Bureau; and Joseph M. Wetzell, lecturer and research fellow, Hydraulics Laboratory.

As this unique housing development continues to grow and develop, the University will accrue income from Earle Brown's generous gift. In turn, all such funds will be saved for the construction of the Earle Brown Center. In the words of J. O. Christianson, director of agricultural short courses, perhaps the meaning of this generous gift can be explained:

"The Earle Brown Short Course Center will serve as a home for those 12,000 people a year who attend one or more of the 50 short course programs each year. The Center will serve, also, as a symbol of the constructive interest of the donor who has made it possible."

Pictured below is the proposed plan for the St. Paul Campus for 1970. The Earle Brown Short Course Center is located at the rear of the photo slightly left of center.



University of Minnesota Calendar of Events

OCTOBER, 1957

DEPARTMENT OF CONCERTS AND LECTURES

Special Presentation

October 8—Ballet Theatre.
(Northrop Auditorium, 8:30 p.m. Single tickets, \$1.50 to \$3.50. Reservations may be made at 105 Northrop.)†

UNIVERSITY ARTISTS COURSE MASTERPIECE SERIES

October 14—Richard Tucker, tenor, Metropolitan Opera.
(Northrop Auditorium, 8:30 p.m. Single tickets priced from \$1.00 to \$3.00. Reservations may be made at 105 Northrop Auditorium.)†

UNIVERSITY ARTISTS COURSE CELEBRITY SERIES

October 23—Lily Pons, soprano.
(Northrop Auditorium, 8:30 p.m. Single tickets, \$1.00 to \$3.00. Reservations may be made at 105 Northrop.)†
October 28—The Regimental Band and Massed Pipers of the Black Watch.
(Williams Arena, 8:30 p.m. Single tickets, \$1.50 to \$3.50. Reservations may be made at 105 Northrop.)†

THURSDAY MORNING CONVOCATIONS

October 3—President James Lewis Morrill.
October 7—Special convocation. Lt. Gen. Leslie R. Groves, U.S.A. Ret., vice president of Remington Rand, formerly in charge of the Manhattan Project which built the first atomic bombs of World War II.
October 10—John Scott, former foreign correspondent and now special assistant to the publisher of *Time* magazine, "Will Asia Go Communist?"
October 17—"Our Trouble Spots", by Paul H. Douglas, U.S. Senator from Illinois.
October 24—Chester Bowles, former Governor of Connecticut and Ambassador to India. (Topic to be announced.)
October 31—Earle Spicer, ballad singer.
(Northrop Auditorium, 11:30 a.m. Open to the public without charge.)

YOUNG PEOPLE'S UNIVERSITY THEATER

October 19-20—*Land of the Dragon* by Marge Miller. (Scott Hall Auditorium, 10:00 a.m., Oct. 19, and 3:30 p.m. Oct. 19-20. Single tickets at \$.50 may be purchased at the Theater Box Office, 18 Scott Hall.)

MUSIC DEPARTMENT CONCERTS

October 11—Organ recital by Edward Berryman, University organist.
(Northrop Auditorium, 8:30 p.m. Open to the public without charge.)
October 8, 15, 22, 29—Music Hours, programs to be announced.
(Scott Hall Auditorium, 11:30 a.m. Open to the public without charge.)

SIGNIFICANT UNIVERSITY TELECASTS

The University of Minnesota will telecast from 9:00 to 10:00 p.m., Monday through Friday, on KTCA-TV (Channel Two), the station of the Twin City Area Educational Television Corporation.

At Home with Music . . . a series of programs of music and informal conversations with performing artists, presented by the faculty members of the Department of Music, on Mondays from 9:00 to 9:30 p.m.

Your Government . . . news items of current interest will

be used as a springboard for discussions of the basic problems and principles of our government structure, presented by Asher N. Christensen, professor of political science, on Mondays from 9:30 to 10:00 p.m.

Selecting and Reading Current Books . . . a series of programs designed to arouse enthusiasm for reading, conducted by Mary Rice, associate professor in General College, on Tuesdays and Thursdays from 9:00 to 9:30 p.m.

In Search of Science . . . programs on the history of science by Mark A. Graubard, associate professor in the Department of Interdisciplinary Studies, on Tuesdays from 9:30 to 10:00 p.m.

The Artist at Work . . . John Rood, associate professor of art, will present guest artists from the faculty of the Art Department and will explain the problems and techniques they encounter in their work, on Wednesdays from 9:00 to 9:30 p.m.

Our Changing Society . . . Roy C. Francis, associate professor in the Department of Sociology, and guest experts from the Sociology Department will discuss current social problems in Minnesota, on Wednesdays from 9:30 to 10:00 p.m.

Town and Country . . . Ray Wolf, assistant professor and extension specialist in the Agricultural Extension Service, will divide each program between discussions of general agricultural problems and horticulture, on Thursdays from 9:30 to 10:00 p.m.

Minnesota's Wildlife Resources . . . Individual programs presented by Walter Breckenridge, professor and director of the Museum of Natural History, and guests will include such subjects as upland game birds, bird migration, and local trips for naturalists, on Fridays from 9:00 to 9:30 p.m.

TV Journal . . . Robert Lindsay, instructor in the School of Journalism, and guest members of the faculty, will present weekly analyses of current affairs, on Fridays from 9:30 to 10:00 p.m.

UNIVERSITY PRESS PUBLICATION DATES

October—*Tidings Out of Brazil*, translated by Mark Graubard with commentary by John Parker. Graubard is an associate professor, University of Minnesota, and Parker is curator of the James Ford Bell collection at the University of Minnesota Library. \$5.00.

UNIVERSITY GALLERY EXHIBITIONS

October—Works from the University Gallery's Permanent Collection; oils, watercolors, prints, drawings, and ceramics.
(The University Gallery is located on the third and fourth floors in Northrop Auditorium.)

ATHLETIC DEPARTMENT EVENTS

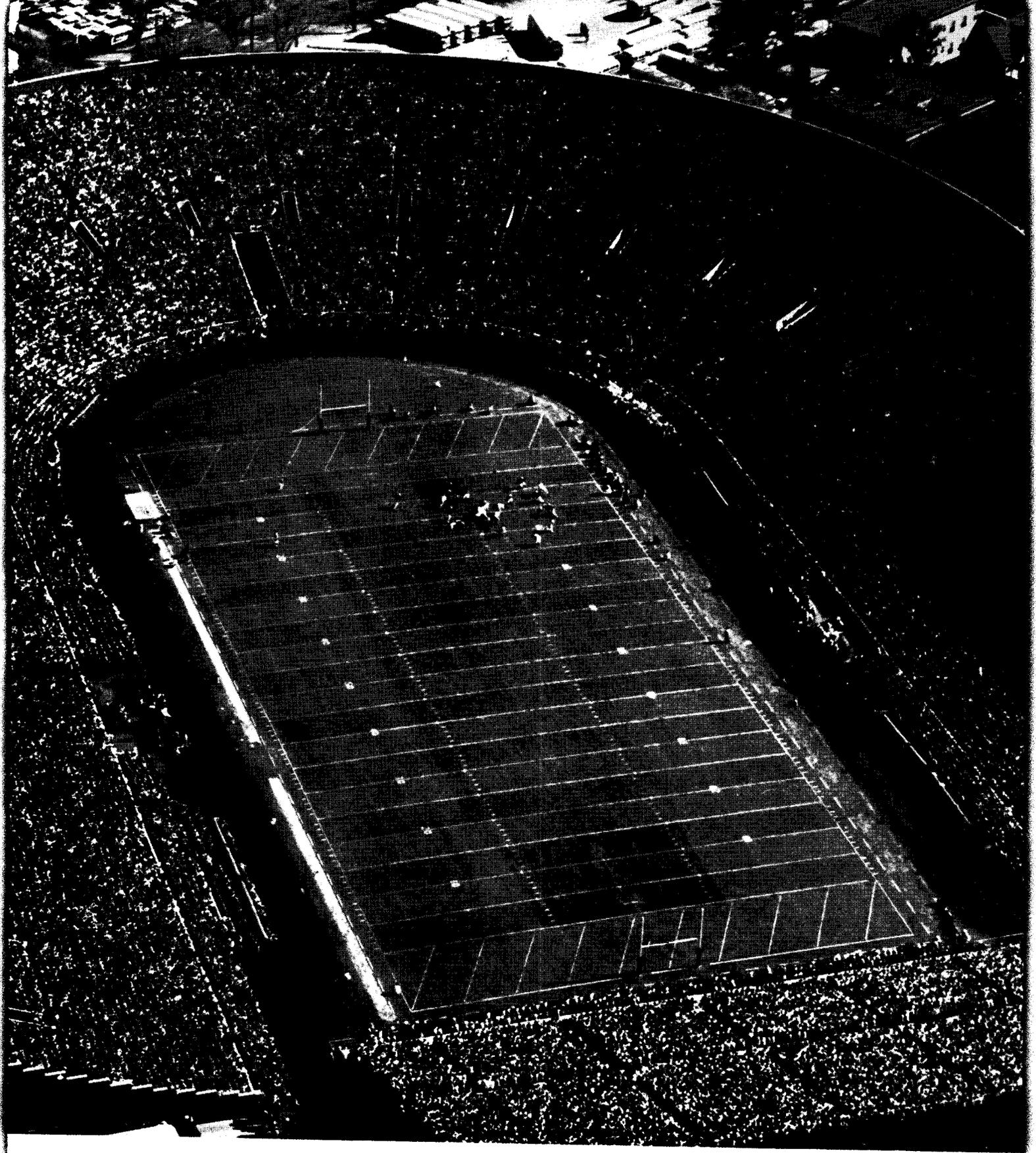
Football Games at Home

October 5—Purdue.
October 26—Michigan
(Memorial Stadium, 1:30 p.m. Single tickets at \$4.00. Counter sale of any unsold tickets begins Monday before each game at the Football Ticket Office, 109 Cooke Hall. For further ticket information call FE. 2-8101.)†

Cross Country Track Meet

October 26—Minnesota vs. South Dakota
(Nokomis Park, 10:30 a.m. Open to the public without charge.)

† Tickets for these events are also available at the Field Schlick Ticket Office in St. Paul and the Downtown Ticket Office, 188 Northwestern Bank Building in Minneapolis.



THE MINNESOTAN

The University Staff Magazine - November 1957

They Made Us Great



The new Cedar Creek Forest Laboratory, dedicated last September 14, contains an office, meeting room, classroom, research laboratories, and dormitories.

CEDAR CREEK—an outdoor classroom of over 3,900 acres, was made possible through the persistence and dedication of a handful of men who labored diligently throughout the past 20 years to bring a vision into reality.

The Cedar Creek Forest, located in Anoka and Isanti counties, is a natural history area which has been established for joint scientific and educational purposes. Its unusual features were first noticed about 30 years ago by three members of the University faculty. On some of their camping trips into the area, the late C. O. Rosendahl and the late F. K. Butters, who were both professors in the Botany Department at the time, recognized almost immediately the potentials of the spot. Subsequently, William S. Cooper, professor emeritus of botany, discovered the area by air and recommended that this rare evergreen locale be preserved. Plans were laid for the acquisition of a sufficient amount of land to assure the success of the project which was undertaken by the Minnesota Academy of Science, with the University of Minnesota as the public agency to administer the tract.

The first purchase was a modest one indeed—a 40-acre tract bought with funds provided by about 25 ded-

icated Academy and University individuals. These were the Depression years, and the donations were often as small as \$5.00. Among the many who were active in raising money for this project were three University faculty members: Arthur N. Wilcox, professor of horticulture; J. William Buchta, associate dean of the College of Science, Literature, and the Arts; and Professor Cooper. In addition to actual sums of money, a number of public-spirited citizens donated tracts of land, so that by 1950, some 750 acres were included in the Forest.

In 1954, the University and the Minnesota Academy were delighted to receive a grant of \$250,000 from the Max C. Fleischmann Foundation of Nevada for the further development of the Cedar Creek Forest. This made possible the purchase of still additional acreage, plus the construction of a laboratory building. The latter was just dedicated last September 14 and stands as a tribute to the generosity of numerous individuals and groups.

The Cedar Creek Forest includes so many various phases of natural history that the whole project is administered by the Graduate School of the University, under the directorship of Professor Wilcox. A number

of faculty members are on the Cedar Creek Advisory Committee. They are: Alexander C. Hodson, professor of entomology-economic zoology, chairman; Walter J. Breckenridge, director of the Museum of Natural History; Jonas J. Christensen, head of the Department of Plant Pathology, and Theodore H. Fenske, associate dean of the Institute of Agriculture.

Other members of the Advisory Committee are: Donald B. Lawrence, professor of botany; William H. Marshall, professor of entomology-economic zoology; Dwight E. Minnich, chairman of the Department of Zoology; Theodore C. Blegen, dean of the Graduate School, ex officio; Arthur N. Wilcox, ex officio. Representatives from the Minnesota Academy of Science on the Advisory Committee are Arthur Nash, Augsburg College; Andrew L. Seim, Gustavus Adolphus College, and Merle P. Meyer, assistant professor of forestry at the University of Minnesota.

On the Cover . . .

A helicopter sees a sold-out home football game as photo lab manager Warner Clapp watches Minnesota defeat Purdue on October 5.

The condition of the playing field is a credit to its grounds crew. For a behind-the-scenes look at what happens in the stadium when the fans go home, see the story on page 10.

THE MINNESOTAN

Vol. XI No. 2

Published by the Department of University Relations, 213 Administration Building, University of Minnesota, Minneapolis 14, Minnesota.

William L. Nunn, Director

Ann Tucker Editor
Lynne Iglitzin Associate Editor
Advisory Committee: Members of the University Public Information Council.

The Minnesotan is published monthly from October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2 a year, 25 cents a copy. Copies of this issue are on sale at Coffman Memorial Union Bookstore.

Photographs, unless otherwise credited, were taken by members of the University Photographic Laboratory.

Entered as second-class matter at the post office at Minneapolis, Minnesota.



Dr. William H. Crawford, dean of the School of Dentistry, Dr. Marion W. McCrea, associate dean, and Dr. Robert J. Corlin, associate professor of dentistry, demonstrate proper tooth-brushing procedure to a young State Fair enthusiast at the "Modern Dentistry and You" exhibit.

Autumn Means FAIR DAYS For University Exhibits

The time and talents of many University people help make the State Fair an outstanding event

THE HARVEST SEASON is traditionally state and county fair season across the nation, with countless numbers of individuals displaying their handicrafts, produce, and livestock for exhibition and competition.

For many years the familiar maroon and gold "University of Minnesota" banners over a number of exhibits have designated displays which instruct, inform, and serve the hundreds of thousands of Minnesota State Fair visitors. The time and talents of many University staff members have contributed substantially to the continued success and popularity of this wide variety of exhibits.

Today's State Fair visitor, whether he is from a rural or an urban area,

is interested in an ever-increasing number of exhibits. He wants to learn about new developments in farm equipment, household gadgets, vegetable and fruit-raising, and livestock production, as well as modern trends in art, education, medicine, and youth activities.

The University has kept pace with the growing emphasis on the educational aspect of the present-day State Fair with carefully-planned exhibits such as the "Modern Dentistry and You" display produced this year by the School of Dentistry.

Also serving an educational purpose were many of the exhibits prepared by the Institute of Agriculture. Farmers interested in increasing and

Evelyn D. Harme, instructor and assistant state 4-H Club leader, Stanley R. Meinen, assistant professor and assistant state 4-H Club leader, and Leonard L. Harkness, associate professor and state 4-H Club leader, all from the Agricultural Extension Service, inspect an exhibit which explained the International Farm Youth Exchange program conducted by the National 4-H Club Foundation.



November, 1957



Milo J. Peterson, left, professor and head of the Agricultural Education Department, examines the winning Future Farmers of America exhibit with former student Rudy Kezele, who is presently F.F.A. adviser and vocational agriculture instructor in Elk River, Minnesota.



Mrs. P. L. Johnsrud, St. Paul, J. O. Christianson, professor and superintendent of the School of Agriculture, Ralph E. Miller, associate professor in the School of Agriculture, left to right, foreground, and Ivar A. Glemming, instructor in the School of Agriculture, background, center, enjoy one of the reunion coffee hours held daily during the Fair for alumni of the School.

improving barley production, for example, could visit the exhibit developed by Jean W. Lambert, associate professor of agronomy and plant genetics; both city and rural visitors with apple-growing problems could consult with representatives from the Fruit Breeding Farm.

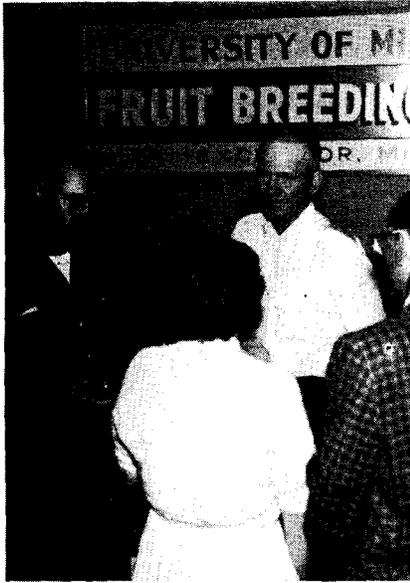
Individuals working with youth groups throughout the state could receive a wealth of information on 4-H projects in the building devoted solely to this activity. Livestock producers and dairy farmers could examine the University beef and dairy cattle on display in the livestock barns.

In addition to the services provided by this wide variety of exhibits, many University staff members contributed their share to the success of the Fair in a number of administrative capacities. Ramer D. Leighton, associate professor and Extension dairyman, was superintendent of

Josephine Nelson, assistant professor and assistant editor, Agricultural Extension, and Raymond Wolf, assistant professor and Extension information specialist, broadcast radio programs from the KUOM booth daily during the State Fair. Mrs. Nelson presented her Homemakers' Hour at 10:45 a.m.; Mr Wolf, the University Farm Hour at 12:30 p.m.



The Minnesotan



Foreman Walter H. Kroening and Juhl C. Larson, both from the Fruit Breeding Farm, discuss problems of apple-raising with interested spectators in the Horticulture Building.

James Wilcox, research assistant in agronomy and plant genetics, and Jean W. Lambert, associate professor of agronomy and plant genetics in the Institute of Agriculture, prepared this State Fair exhibit which offered barley farmers hints on good production practices.



November, 1957

cattle. Roland H. Abraham, professor and assistant director of the Agricultural Extension Service, Glenn T. McCleary, associate professor and district supervisor of county extension work, and Ralph W. Wayne, associate professor and Extension dairyman, were assistant superintendents of cattle.

Henry G. Zavoral, professor and Extension animal husbandman, was superintendent of the Swine Department, with Frank W. Forbes, associate professor and district supervisor of county extension work, and Robert E. Jacobs, associate professor and Extension animal husbandman, as assistant superintendents.

C. Gustav Hard, assistant professor and horticulturist, and Orrin C. Turnquist, associate professor and Extension horticulturist, were assistant superintendents of the State Fair Horticulture Department.

Philip A. Anderson, associate professor of animal husbandry, was superintendent of the Sheep and Wool Department.

Alfred L. Harvey, professor of animal husbandry, was superintendent of the Horse Department, with Robert M. Jordan, associate professor of animal husbandry, and Olaf E. Kolari, assistant professor of animal husbandry, assisting with the annual State Fair Horse Show.



Milk used by the University Food Services comes from dairy cattle like these exhibited during the State Fair. Pictured with "Minnehaha Brampton Nel" are Arthur Soli, left, dairy herdsman, and Ralph W. Wayne, associate professor and Extension dairyman.

Ramer D. Leighton, left, associate professor and Extension dairyman, and Roland H. Abraham, professor and assistant director of the Agricultural Extension Service, are pictured with "Minnesota Aster 2nd," one of the Herefords exhibited by the University.



BACKGROUND FOR DECISIONS

Is Effectively Provided by the Bureau of Institutional Research

HOUSED IN a rather inconspicuous-looking office in a corner of Burton Hall is an organization whose work leads to decisions which may affect every staff member of the University. Although it has been functioning steadily for over 30 years, the work of the Bureau of Institutional Research and its important role in providing background material for top-level decision-making has not always been adequately publicized.

This year, for example, at the request of the Administration, the Bureau of Institutional Research, under the leadership of its director, John E. Stecklein, provided information which assisted the President in allocating some of the funds granted by the Legislature for the 1957-58 fiscal year. The Bureau, through its new Administrative Research Unit, proposed a new basis for the distribution of funds for new staff positions among the various colleges.

Big 10 Cost and Statistical Study

The data utilized were made available by the participation of the University of Minnesota, along with nine other colleges and universities, in the California-Western Conference Cost and Statistical Study. This pioneer study provided comparative costs of instruction, administration, and physical plant at 17 midwest and western campuses—the first systematic large scale collection of such data. The Bureau of Institutional Research had gathered much of the data on the instructional phase of the study last year, data including: allocation of each staff member's time among such things as teaching, research, administrative duties, counsel-

ing, and professional services; the number, level, and type of courses being offered; the number of students in each course; and the departmental expenditures and staff involved in teaching the courses offered.

The data described above, gathered under similar conditions at each of the participating institutions, allowed comparisons of costs of instruction of departments and colleges within the University, at each level of instruction, with instructional costs of departments and colleges in other institutions studied. The deans of the different colleges have been encour-

aged to determine how the data provided by this study can be most useful to them in studying and improving the programs and staffing of their colleges.

In addition, the Administration has been able to make definite use of some of the data which have emerged from the study. The proposed basis for fund allocation mentioned earlier was developed to take into account the comparative expenditures and teaching loads of colleges from institution to institution, in distributing the money for new positions for 1957-58. Thus, if a given college of the

Dorlese Wardwell, office supervisor, John E. Stecklein, director, and Ann Nelson, secretary (standing), Bureau of Institutional Research, study blueprints of the eagerly-awaited proposed new third floor quarters of the Bureau in Burton Hall.



University of Minnesota was found to have a higher teaching load and/or a lower level of teaching expenditures per student class hour than the average in similar colleges in other institutions in the study, the allocation for this college was adjusted to improve its relative position. The proposed basis for allocation also took into account, for the first time, costs per student credit hour and the anticipated student credit hour increases at each level of instruction for each college i.e., the differential costs of instruction throughout the University.

New Administrative Unit

This study was the first major undertaking of the new administrative research unit which was added to the Bureau of Institutional Research this year. This new unit will undertake further analyses of the California-Big Ten data, as well as projects suggested by the Administration and the collection of administrative data. The major responsibility for conducting the research of this unit is shared by Earl Ringo and Richard Lindeman, research fellows.

In the past, the primary function of the Bureau of Institutional Research has been to deal with problems of a general educational nature within the University. Examples of such studies made by the Bureau are: a study of the library services at the University; a follow-up study of PhD students; a study of faculty characteristics; a faculty load study and an experimental study in teaching of physics. The Bureau is presently engaged in a pioneer study—the evaluation of the 1956 summer session program here at the University. Four phases of the summer session program are being studied: characteristics and attitudes of students and teaching staff (over 9,000 questionnaires were sent to students throughout the country—with a 90% return); the curriculum, and extra-curricular offerings, in comparison with offerings during the regular academic year. Major responsibility for projects in the general educational unit is carried by Mary



Gathered together for an informal conference are some of the members of the research staff of the Bureau of Institutional Research. Seated are Robert Lathrop, research fellow, and Mary Corcoran, research associate. Looking over their shoulders are Richard Lindeman and Earl Ringo, research fellows.

Corcoran, research associate, and Robert Lathrop, research fellow. Others who participate in the work of this unit are Lia Staicopolou, Robert Pomije, and John Kendall, research fellows.

All-University Unit

The Bureau of Institutional Research is an organization which was set up originally to provide an experimental design and research center for educational problems of all types at the university level. It is an all-University unit responsible directly to Malcolm M. Willey, academic vice-president, with a Senate Advisory Committee headed by Dale B. Harris, director of child welfare. It is not surprising that the Bureau often has been confused with another organization with a similar title, the Bureau of Educational Research. But, although both bureaus are housed in the same offices in Burton Hall, the

Bureau of Institutional Research is an independent unit which deals with problems which arise throughout the University as a whole. The Bureau of Educational Research, on the other hand, is a part of the College of Education and works primarily with staff members of that college.

The continued success of the Bureau reflects credit on John E. Stecklein, who has just completed his second year as director of the organization. Stecklein, who has a background in mathematics and physics and who has taught both subjects, first joined the Bureau in 1952 as a research associate. He is quick to point out that the smooth functioning of the Bureau is due, in no small part, to the competent managing of Dorolese Wardwell, office supervisor, who is now completing her 27th year with the office. Miss Ann Nelson, senior secretary, is also an active member of the staff.



Colonel Robert Bowen

Colonel Bowen, United States Marine Corps, has reported for duty as professor of naval science and commanding officer of the Naval Reserve Officers' Training Corps. He succeeds Captain Frank Bruner, who retired from the Navy last June. Before coming to the University, Colonel Bowen was assistant inspector general of the Marine Corps.



Sadie Currier

Sadie Currier, who will retire November 15, received a clock radio from the Agricultural Extension Service staff at a tea given in her honor recently. She has been with the Extension Service for 40 years and office supervisor since 1930. She plans to devote much of her future leisure time to volunteer work.

HAVE
YOU
MET



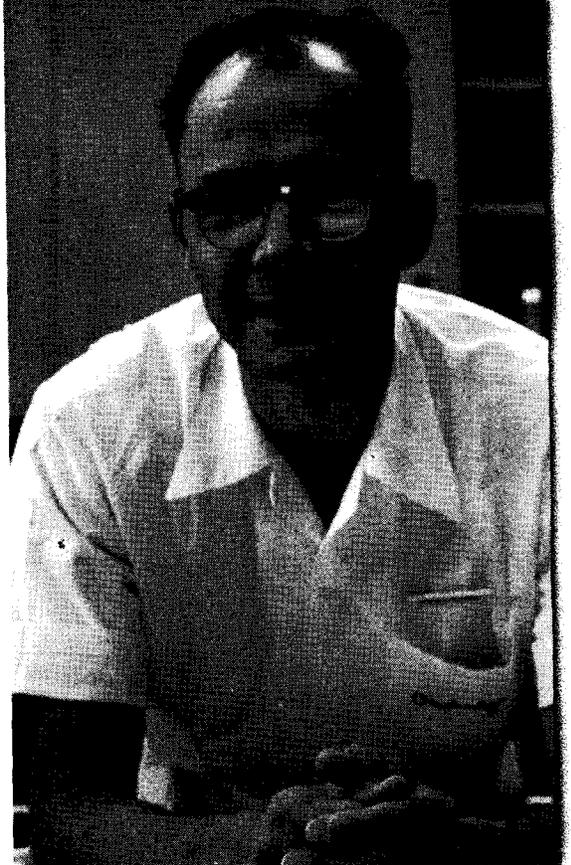
Wesley Simonton

Mr. Simonton, former chief catalog librarian for the University of Minnesota Library, has left the Library staff to become a full-time member of the teaching faculty of the Library School. His specialty is cataloging and classifying. Because of his great interest in education for librarianship, he has contributed part of his time to the program of the Library School for the past seven years.



Betty Maurstad

As curator of the University Art Gallery, located on the third and fourth floors of Northrop Memorial Auditorium, Betty Maurstad is responsible for loaning Gallery works to staff and students. She also works closely with the special exhibitions sponsored by the Gallery. Miss Maurstad, who has been curator since 1952, has been with the Gallery for 10 years.

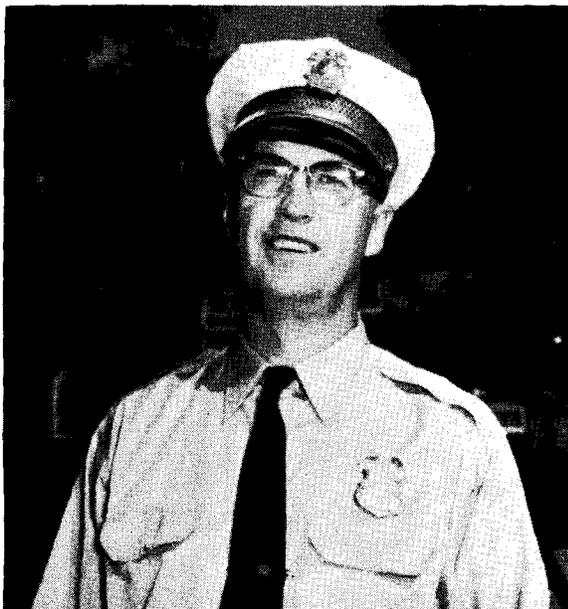


Leonard Frank

Well-liked by patients, nurses, and all staff members with whom he works, Leonard Frank has served as an orderly in the Department of Psychiatry and Neurology at the University Hospitals since 1942. He terms his duties as "very gratifying." Mr. Frank is the father of twin boys, age two, and a third son, age five.

Ole Wendfeldt

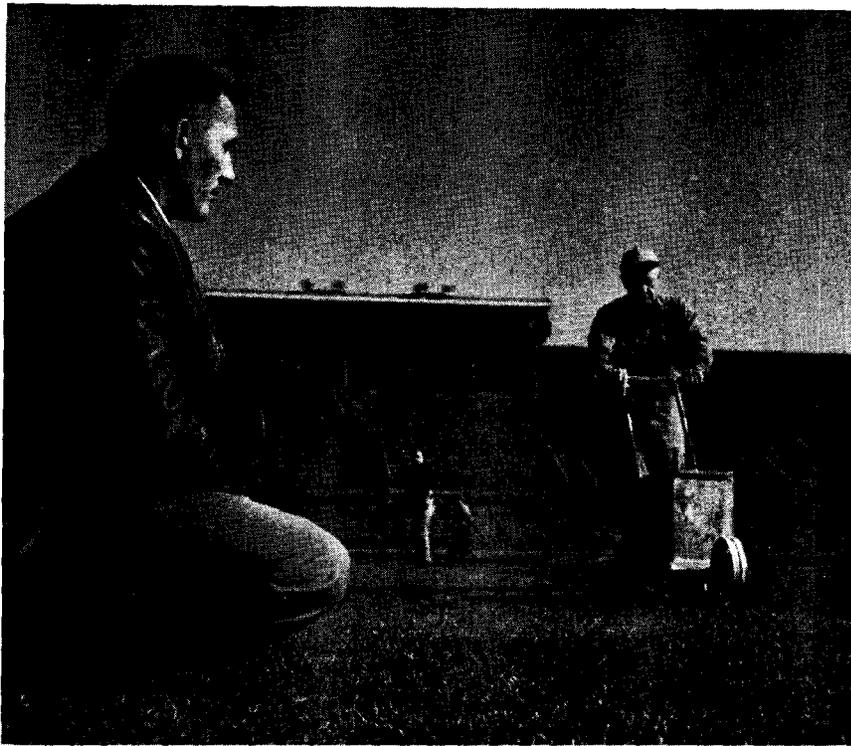
A 21-year veteran of the Duluth Police Force, Mr. Wendfeldt is the new roundsman on the Duluth campus. His duties include traffic management, property protection, and general safety measures at UMD.



Gustave Scheffler

As safety supervisor for all University of Minnesota locations, Gustave Scheffler is the man who checks on all potential safety hazards which might cause on-campus accidents. A newcomer to the staff, Mr. Scheffler comes to the University from a Des Moines, Iowa, insurance firm where he served as assistant manager of accident prevention.





Virgil Dwinell, grounds crew foreman, watches closely as Arthur Ribble operates the field-marking apparatus. The yard lines are carefully marked with a special lime mixture the week before each home football game.

THEIR JOB:

Healing Stadium Football Wounds

The University's 300-foot Football Lawn Gets Professional Care From Stadium Grounds Crew

IT IS DOUBTFUL that the most meticulous lawn enthusiast tends his property with the close attention to detail given the playing field in Memorial Stadium by its grounds crew the week before each home football game.

From the time the last quarter ends on Saturday, until kick-off time for the following home game, this crew, under the supervision of Virgil Dwinell, grounds crew foreman, and Joseph P. Leverone, custodial and grounds superintendent, physical plant, and Burton E. Kingsley, supervisor of athletic admissions and facilities, makes the condition of the stadium its primary concern.

Mr. Dwinell is seeing his second season of stadium action this year, although he is no newcomer to the University of Minnesota. As custodian of buildings at the West Central School and Experiment Station in

Morris, Minnesota, he also had some part-time coaching duties. His predecessor as grounds crew foreman was the late and beloved Arthur Smith who, through his many years (1927 to 1956) of devoted service to the University, became an extremely popular and well-known campus figure.

At the close of each game, the 700 Boy Scout ushers are instructed to keep fans off the playing field to cut down on the wear and tear on this carefully-tended area. The following morning the regular grounds crew, plus a specially-recruited staff of 50 students and staff members, combs the stands and bleacher seats, cleaning up the debris left by the Saturday crowds.

The regular, permanent members of the grounds crew are Jack Nelson, Arthur Ribble, Joseph Moy, Charles Hiberling, and Stanley Cook. These stadium experts continue a more con-

centrated cleaning-up process all during the following week. They must also be on the alert for broken and damaged seats which could cause serious injuries. The entire seating area of the stadium, the temporary west bleachers in particular, is checked and rechecked for potential safety hazards before each game.

Safety also enters into the many reasons for careful attention to the playing field itself. Beginning Monday morning, the grounds crew examines the entire area, looking for kicked-up clods of turf. These clods, or even slight indentations in the field, could be responsible for sprained ankles or even more serious injuries on Saturday.

Early in the week the grass must be cut and the entire field watered. From Wednesday on, weather becomes the determining factor. If rain or snow is predicted, the field must

be marked every five yards with a lime mixture on Wednesday and the entire field covered. If fair weather is in store, the field will not be marked until later in the week and then left uncovered. Decisions such as this are the responsibility of Isaac J. Armstrong, director of physical education and athletics for men.

Meantime the whole area has been rolled (in alternate directions every five yards) to form a pleasing geometric pattern when viewed by fans sitting high in the stands.

The football team does not practice in the stadium until late Friday afternoon, because the work of the previous week is all done on the practice field. This means the field itself has nearly a full week to recover from its Saturday injuries.

Toward the end of the season, snow may create a problem, particularly for the late November Wisconsin game. Then the tractors used for grass-cutting make way for snow plows, and a special crew must be called in to man this equipment; an additional crew must also be called in whenever it becomes necessary to cover the field with the mammoth tarpaulins.

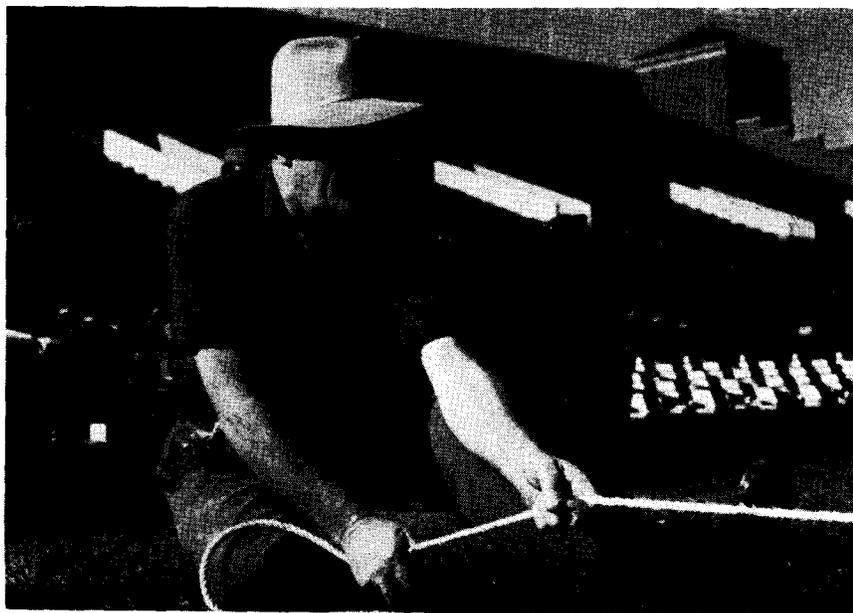
After the last home game, the field is left uncovered and unattended; the temporary bleacher seats come down; the track seats are removed, and the grounds crew shifts its efforts to maintaining Williams Arena and the Field House for winter and spring sports events.

Memorial Stadium comes to life again in the spring with such events as the State High School Track Meet, the intercollegiate track meets, the annual spring reviews presented by the R.O.T.C. groups, and June commencement.

As soon as commencement is over, work is resumed on the playing field. The grounds crew returns to fertilize, aerate, seed, and sod. During the summer of 1957, the field was re-sodded from the East goal line to the West 20-yard line, between the "hash marks". The remainder of the field was all reseeded; black dirt was added to the low areas and weed control used on the entire field.

This period of care, effort, and preparation culminates in the eagerly-awaited first football Saturday when the Golden Gophers enter the stadium to demonstrate the results of their period of preparation for the season ahead.

Jack Nelson plays a part in the field-marking procedure, too, as the rope he holds in position serves as a guide for the marking machine.



November, 1957

Have You Heard?

Belgian Conference

- President J. L. Morrill attended a conference on "The North Atlantic Community", held in Bruges, Belgium, in September. Present were 120 European and North American scholars and intellectuals, political leaders, economists, educators, and journalists, all concerned with strengthening and reshaping the influence of the Western World in international thought and affairs.

Nursery School

- Wives of many staff members perform countless services for their communities. One group, under the leadership of Mrs. Donald Zander, has organized the Northeast Cooperative Nursery School in Minneapolis. This school, held three mornings each week, is directed by a professionally-trained worker, assisted by one mother each day. Staff wives active in the project are Mrs. J. Merle Harris, Mrs. George Mann, and Mrs. Harlan M. Smith.

Mr. Zander is on the staff of the Student Activities Bureau; Mr. Harris, General College; Dr. Mann, University Hospitals, and Mr. Smith, School of Business Administration.

Lecture Series

- "Man and His Scientific Quest", the fall lecture series sponsored by the General Extension Division, is stressing the contribution made by chemistry to man's scientific quest. Bryce L. Crawford, Jr., chairman of the School of Chemistry, is coordinator for the series. Speakers for the October lectures were Farrington Daniels, head of the Department of Chemistry at the University of Wisconsin, Samuel Kirkwood, associate professor of Agricultural Biochemistry, and Finn J. Larsen, director of research at the Minneapolis-Honeywell Regulator Company.

November speakers include William P. Martin, head of the Department of Soils, Morris E. Nicholson, head of the Department of Metallurgy, and Rufus W. Lumry, professor of physical chemistry.

PEAT: Resource of the Future

Agriculture Research Opens Endless Possibilities for Farmers Everywhere

IF OUR rapidly growing population ever makes it necessary, Minnesota farmers can turn a huge land reservoir into food production. That land is peat—seven and a half million acres of it, or 14 percent of the total acreage of the state, which, although potentially good soil, is not now being utilized.

Peat could be a boon to farm and home owners in scores of other ways as well. It can be put to work in greenhouses, in dairy and poultry barns, on home lawns, and in industry. Just how valuable peat may be in future years is borne out by current research on the St. Paul Campus. Peat is not being used more extensively right now because it has not been economical for farmers to handle it, and because there has been no good classification system for distinguishing the different kinds of peat.

Classification System

Rouse S. Farnham, resident associate in soils at the Institute of Agriculture, has established a simple classification system for all Minnesota peat soils, to meet the requirements of anyone who might use peat—farmers, home owners, or industrialists. The system is based primarily on the kind of material in the peat, its ability to absorb water, its mineral content, and other physical and chemical characteristics.

Possible agricultural uses for peat are almost limitless. For example, ways to use peat for establishing lawns are being tested in current research at the University's Fruit Breeding Farm at Excelsior. This work is being conducted by Leon C. Snyder, head of the Department of Horticulture, and R. J. Stadtherr, instructor in horticulture.

In greenhouse pot tests, several foreign-produced peat fertilizers are being tested on oats, lettuce, and tomatoes. The value of peat as a "soil conditioner" is also being tested, as is a process for using Minnesota peat for the production of an inorganic nitrogenous fertilizer. Professor Snyder and Richard E. Widmer, assistant professor of horticulture, are comparing flowers growing on peat-sand-soil mixtures with flowers grown on sandy soil. Several fertilizers and peat products are being compared on both kinds of soil.

Mr. Farnham and Charles A. Simkins, assistant professor and extension specialist, ran a series of test plots around the state in 1956, when they conducted fertility studies on peat soils. This year they set up additional plots so that after more testing, they can accurately tell what type of fertilizer every peat soil needs to raise good crops.

As a soil, peat can be used for any crop: corn, grain, vegetables, or

pasture. In Europe, peat soils are drained and used to provide the best pasture possible for dairy cows. Moss peat makes a fine mulch for roses, for landscaping, for evergreens, and for greenhouse nurseries. Peat is also good for ornamental plants which need a slightly acid soil, and it makes good material for packing certain plants that are sold from nurseries. In Norway, peat is already being used to produce "decomposable pots" for plants which require an early start, and for many potted flower plants for transplanting. If it could be cheaply processed, moss peat would make an ideal poultry house litter, because of its absorbency. Now, most of the peat used for these purposes in Minnesota is imported from Canada or Germany.

Continuing research in this field will no doubt uncover countless new practical uses for peat. Already the persistence of the scientists at the Institute of Agriculture has had valuable results for Minnesota farmers.

Rouse S. Farnham, resident associate in soils, examines a sample of moss peat which is similar to products now being marketed for mulching roses and trees. The darker variety on the left represents decomposed woody peat which is excellent for top dressing for lawns and gardens.



DULUTH CAFETERIA—HEART OF THE CAMPUS

The Place Where 50,000 Cups of Coffee Are Consumed Each Month!

FROM ABOUT 6:00 a.m. until 10:00 p.m. daily, the coffee pot is on in the cafeterias at the Duluth Branch of the University of Minnesota. During the 16 hours in between, it is the busiest utensil in the whole, gleam-

ing expanse of pleasant dining environment. It has to be busy to keep up with the coffee hunger of the Duluth Branch campus.

Mrs. Miriam Schroeder, principal food service supervisor, who directs

all of UMD's food services, estimates that about 50,000 cups of coffee are consumed each month by campus residents and guests. "They really like their coffee," she observes.

Knowing the coffee habits of a busy college community of more than 2,500 persons is just a small part of the responsibility she has in maintaining an adequate and varied supply of foods which meet the exacting tastes of a college-age trade.

"We can't cook the way Mother does back home," Mrs. Schroeder confesses, "because no quantity cooking system can put just the right amount of salt, pepper or spice in Johnny's food—the way Mother can. But many of us who prepare the meals here have raised or are raising families of our own. We can benefit a little from that experience in feeding this big college family of ours."

Mrs. Schroeder had a background of 15 years of catering and restaurant experience when she came to UMD in 1952. In the five years she has been on the Duluth campus, she has had a good chance to observe changing trends in collegiate appetites. "It's funny," she muses, "one fall, the freshmen will really go for a particular dish. The next year, the freshman crop will have nothing to do with it."

Nevertheless, there are perennial favorites. "I don't think these people will ever tire of hotdogs and hamburgers. They seem to disappear by the binful. And we could have chile every day, and casserole dishes are always in big demand. On the other hand, we would have to close down in short order if we had to depend upon our beef liver or creamed soup trade."



Mrs. Pearl B. Truscott and Mrs. Marcella Glad, food service workers at the Kirby Student Center cafeteria, prepare a tray of salads for the front counter.

Getting prepared for the afternoon "coffee break" at the Torrance Hall cafeteria are Mrs. Violet Lindholm, clerk, and Mrs. Mabel Sumner and Mrs. Glenora Jahr, food service workers.



November, 1957



Mrs. Ruth T. Letcher and Mrs. Esther Lindberg, food service workers, supervise the addition of just the right touch of seasoning to the luncheon special.

As the Duluth campus grows, the cafeteria keeps pace. Senior members of the UMD staff can recall the cramped cafeteria quarters located on the ground floor of Washburn, not too many years ago. Then the cafeteria was moved to the ground floor of Torrance Hall, the original women's dormitory on the lower campus. As enrollment increased, the Torrance food front took on the aspect of Memorial Stadium food dispensaries between halves.

The Torrance facility is still maintained for the convenience of the lower campus, but the big operation has now moved to Kirby Student Center which was dedicated last June by President J. L. Morrill. With its spacious brightness and attractive decor, plus its abundant elbow room for both food preparation and dining, the Kirby Center cafeteria is a dream facility for anyone who worked in the cramped, outdated quarters of the previous cafeterias.

Mrs. Schroeder supervises a staff of 50, including 35 full-time and 15 part-time people. Now banquets and large dinners at the rate of one or two a week have been added to the growing service program. Various rooms in Kirby can be used now to accommodate groups from 35 to 500 people.

A walk through the new kitchen, sparkling with the latest in ovens, grills, vegetable processing equipment, refrigerators, and dish and utensil cleaning apparatus indicates why the present cafeteria can produce three times more food than that prepared in the former kitchen in Torrance.

With a double volume at the counters, downward price adjustments have also been made possible, Mrs. Schroeder notes. Because she is cost-conscious, she appreciates how important an extra nickel or dime is to the dwindling

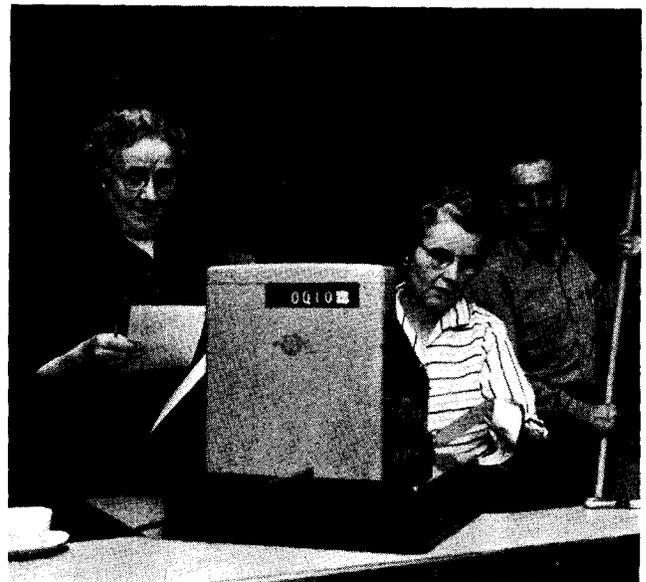
purse that usually goes along with a growing young appetite.

The cafeteria staff hears enough praise to offset the occasional criticism that seems part and parcel of every campus cafeteria.

Mrs. Schroeder concludes, "It is a lot of work, and the hours get pretty long sometimes. But there is a challenge to a job like this that you wouldn't get elsewhere. You get to know the students and it's good to know that you can help them."



Mrs. Miriam Schroeder, principal food service supervisor at the Duluth cafeteria, gives a tray of salads a finishing touch before they go on the display shelf.



Mrs. Lillian Sullivan and Mrs. Helen Foss, cafeteria clerks, check out noon receipts as George Johnson, building caretaker, looks on.

University of Minnesota Calendar of Events

NOVEMBER, 1957

MINNEAPOLIS SYMPHONY CONCERTS

Subscription Series

November 1—Opening concert. All orchestral program.
November 8—Yehudi Menuhin, Rafael Druian, violinists.
November 15—Ernest von Dohnanyi, pianist.
November 22—Isaac Stern, violinist.
November 29—Berlioz "Requiem"
(*Northrop Auditorium*, 8:30 p.m. Single tickets from \$1.75 to \$4.00. Reservations may be made at 106 Northrop or by phoning University extension 6225.)†

Sunday Twilight Concerts

November 10—All-Strauss program.
November 24—Grieg anniversary program. Richard Zgodava, pianist.
(*Northrop Auditorium*, 4:30 p.m. Admission \$1.00. Ticket sales open at the Auditorium Box Office at 3:30 p.m. on the day of the concert.)

UNIVERSITY ARTISTS COURSE MASTERPIECE SERIES

November 13—Moura Lympany, pianist.
(*Northrop Auditorium*, 8:30 p.m. Single tickets, \$1.00 to \$3.00. Reservations may be made at 105 Northrop. Tickets for this event are also available at the Field Schlick and Downtown Ticket Offices on Monday of the week before the performance.)

CONVOCACTIONS

November 7—"Timberline and Tundra", a film lecture by Cleveland P. Grant, wild life film producer.
November 14—Mario Braggiotti, pianist and humorist. (Two performances, 11:30 a.m. and 12:30 p.m.)
November 21—Minneapolis Symphony Orchestra in rehearsal.
(*Northrop Auditorium*, 11:30 a.m. Open to the public without charge.)
November 27—Student Assembly for Football Awards. (11:30 a.m., Main Ballroom, Coffman Memorial Union.)

GIDEON SEYMOUR MEMORIAL LECTURE

November 3—Lester B. Pearson, former president of the United Nations General Assembly, and former secretary of external affairs for Canada.
(*Northrop Auditorium*, 4:30 p.m. Admission by ticket only.)

UNIVERSITY THEATER PERFORMANCES

Regular Performances

November 7-9, 12-17—*The Teahouse of the August Moon* by John Patrick.
November 28-30—*The Taming of the Shrew* by William Shakespeare.
(*Scott Hall Auditorium*. Performances at 8:30 p.m., except Nov. 12 and 17 which are matinees only at 3:30 p.m. Single tickets at \$1.25 may be purchased at the Theater Box Office, 18 Scott Hall.)†

Special Performances

November 19-24—*Camille* by Alexander Dumas. (Arena Theater, Shevlin Hall.)
November 19-24—*The Thunderstorm* by August Strindberg. (Studio Theater, Scott Hall.)
(Time for both productions is 8:30 p.m. except Nov. 24 which is a 3:30 p.m. matinee. Tickets at \$1.25 are on sale only at the *Scott Hall* Box Office.)

MUSIC DEPARTMENT CONCERTS

November 6—Piano recital by Paul Freed of the Music Department faculty.
(*Northrop Auditorium*, 8:30 p.m. Open to the general public without charge.)
Thursday Music Hours. Programs announced weekly.
(*Scott Hall Auditorium*, 11:30 a.m. Open to the public without charge.)

SIGNIFICANT UNIVERSITY TELECASTS

Monday, 9:00 p.m.—*At Home With Music* featuring the faculty of the Department of Music.
9:30 p.m.—*Your Government* with Asher N. Christensen.
Tuesday, 9:00 p.m.—*Selecting and Reading Current Books* with Mary Rice.
9:30 p.m.—*In Search of Science* with Mark A. Graubard.
Wednesday, 9:00 p.m.—*The Artist At Work* with John Rood.
9:30 p.m.—*Our Changing Society* with Roy G. Francis.
Thursday, 9:00 p.m.—*Selecting and Reading Current Books* with Mary Rice.
9:30 p.m.—*Town and Country* with Raymond Wolf.
Friday, 9:00 p.m.—*Minnesota's Wildlife Resources* with Walter J. Breckenridge.
9:30 p.m.—*TV Journal* with Robert Lindsay.

UNIVERSITY GALLERY EXHIBITONS

November 8-30—Sculpture by Antoine Bourdelle. (The University Gallery is located on the third and fourth floors of *Northrop Auditorium*.)

UNIVERSITY PRESS PUBLICATIONS

November—*The Bacteriology of Tuberculosis* by Egons Darzins, M. D., Anoka State Hospital. \$10.00.
November—*The Wine of Eternity*, Short Stories from the Latvian, by Knuts Lesins of Minneapolis. \$3.75.
November—*Reporting The Wars* by Joseph J. Mathews, professor of history, Emory University. \$6.50.

MUSEUM OF NATURAL HISTORY

SUNDAY FILM PROGRAMS

November 3—"Minnesota Prairie Wildlife"
November 10—"Minnesota's Hawk Mecca"
November 17—"Red Lake Bog Country"
November 24—"The Valley and the Stream"
(*Museum of Natural History Auditorium*, 3:00 p.m. Open to the public without charge.)

ATHLETIC DEPARTMENT EVENTS

Football Games at Home

November 2—Indiana (Homecoming.)
November 23—Wisconsin (Dads' Day.)
(*Memorial Stadium*, 1:30 p.m. Single tickets at \$4.00. Counter sale of any unsold tickets begins the Monday before each game at 109 Cooke Hall.)

Cross Country Track Meet

November 2—Iowa State College
(*Lake Nokomis*, 10:00 a.m. Admission free to public.)

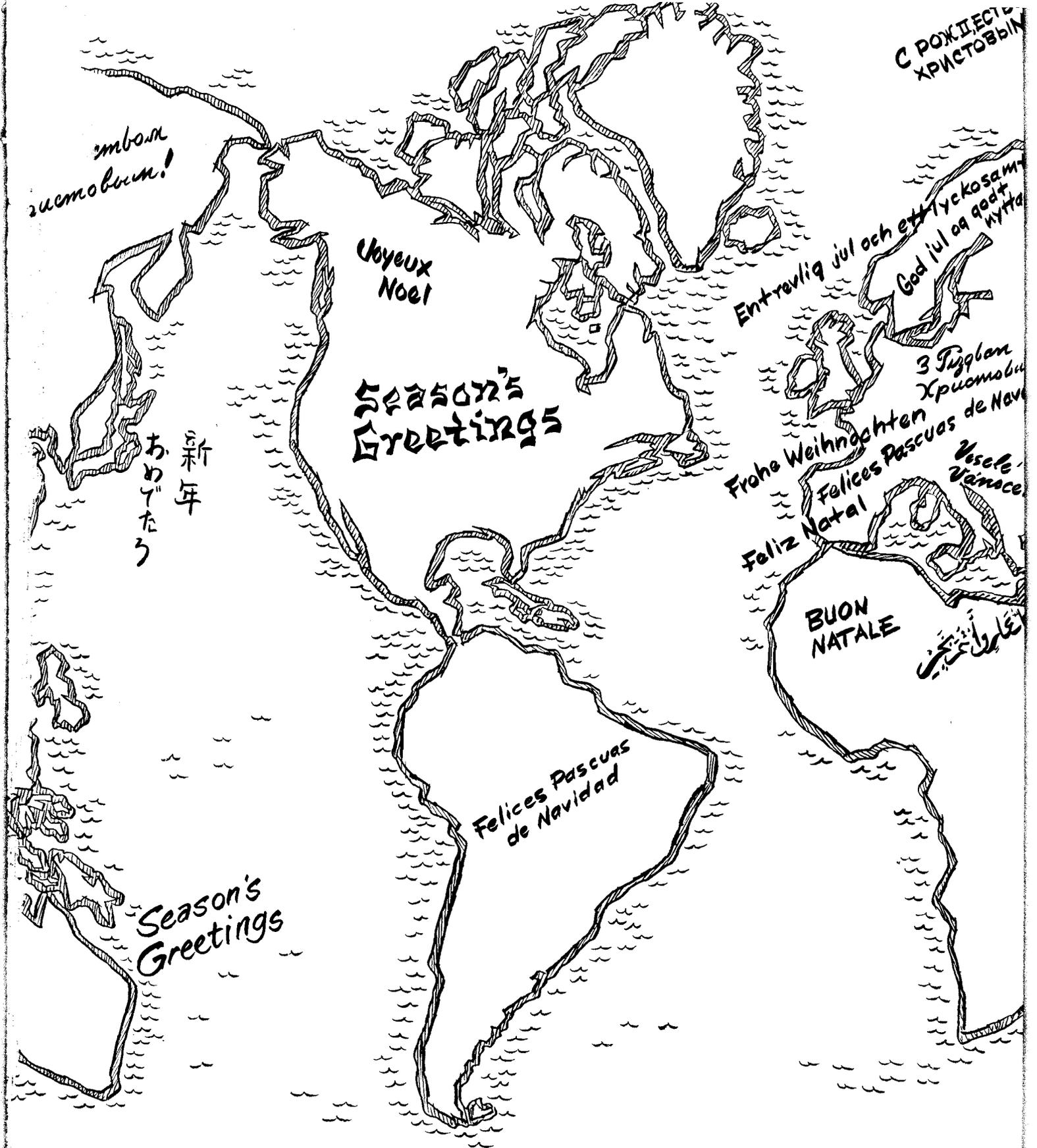
Basketball

November 26—Varsity Basketball Preview
(*Williams Arena*, 8:00 p.m. Admission free to public.)

Hockey

November 30—Minnesota vs. Alumni
(*Williams Arena*, 8:30 p.m. General admission fee at gate.)

† Tickets for these events are also available at the Field Schlick Ticket Office in St. Paul and the Downtown Ticket Office, 188 Northwestern Bank Building in Minneapolis.



THE MINNESOTAN

The University Staff Magazine - December 1957

They Made Us Great



William A. Schaper

ON MAY 11, 1957, the University of Minnesota received a grant of \$10,000, and this bequest, although not unusual in itself, marked the close of a unique chapter in the University's history.

The story begins in 1917, during the anti-German hysteria which characterized the whole country during World War I. Unknown informants accused Professor William A. Schaper, then chairman of the Political Science Department at the University of Minnesota, and a native American of German ancestry, of "rabid pro-Germanism." Subsequently, Professor Schaper was summoned before the Board of Regents for a hearing.

When he discovered that there were no specific charges against him, that no accusers were to be brought forward to face him, Professor Schaper's response was to uphold firmly the humanitarian principles in which he believed. Reiterating his unwavering

loyalty to the United States, he explained that he could feel no enthusiasm for a war the avowed purpose of which was to destroy the German government, and to demolish an army in which he had relatives.

Immediately after the session, the Regents passed a resolution that "his attitude of mind . . . renders him unfit . . . to discharge the duties of his position," and decided to dismiss him without compensation. Professor Schaper was given no opportunity to answer any of the charges in detail, since they were never put into writing.

Schaper went into business for a while in Minneapolis, and finally returned to the academic world as head of the School of Finance at the University of Oklahoma, where he remained until his death.

Fortunately for the prestige of the University of Minnesota, however, the story was not to end there. Thanks to the untiring efforts of Schaper's former colleagues, particularly William Anderson, professor emeritus, and the late Cephas Allin, and also to a marked reduction in the general fear and tension prevalent at this later date, the case was reopened in 1938. Passing a resolution notable in its support of the principles of academic freedom, the Board of Regents rescinded its earlier action, granting to Schaper the title of professor emeritus, and the sum of \$5,000 in lieu of his academic salary for the year, 1917-18. Liberals everywhere praised the action as showing that a great university was courageous enough to admit publicly mistakes and repudiate its earlier actions.

At that time, in Oklahoma, Professor Schaper wrote of his deep regard for the University of Minnesota, a place which evoked faithful friends and beneficial academic associations for him. He applauded the

resolution as "a step forward in the recognition of the sound principles of academic freedom and tenure."

Professor Schaper died in 1955, in Oklahoma, and his wife died six days later. Their will left a bequest of \$10,000 to the University of Minnesota, and an equal amount to the University of Oklahoma.

On the Cover . . .

Greetings of the season are exchanged this time of year in most of the lands across the face of the earth. In Christian and non-Christian civilizations alike, strangers greet strangers, and friends exchange gifts and hospitality, whether they are commemorating the anniversary of the birth of Christ, the period of the winter solstice, the beginning of a new calendar year, or observing the holiday rites begun centuries ago by pagan ancestors.

These salutations and good wishes may be expressed in Arabic, Chinese, French, Russian, Portuguese — but whatever the language, the spirit of friendship and good will is the same.

For THE MINNESOTAN'S around-the-world holiday theme, many individuals who teach these and other languages at the University of Minnesota have contributed greetings from their respective departments. For their translations and interpretations of holiday-time around the world, see pages 3, 4, and 5.

THE MINNESOTAN

Vol. XI

No. 3

Published by the Department of University Relations, 213 Administration Building, University of Minnesota, Minneapolis 14, Minnesota.

William L. Nunn, Director

Ann Tucker Editor
Lynne Iglitzin Associate Editor
Advisory Committee: Members of the University Public Information Council.

THE MINNESOTAN is published monthly from October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2 a year, 25 cents a copy. Copies of this issue are on sale at Coffman Memorial Union Bookstore.

Photographs, unless otherwise credited, were taken by members of the University Photographic Laboratory.

Entered as second-class matter at the post office at Minneapolis, Minnesota.

Feliz Natal

Sretan Bozic

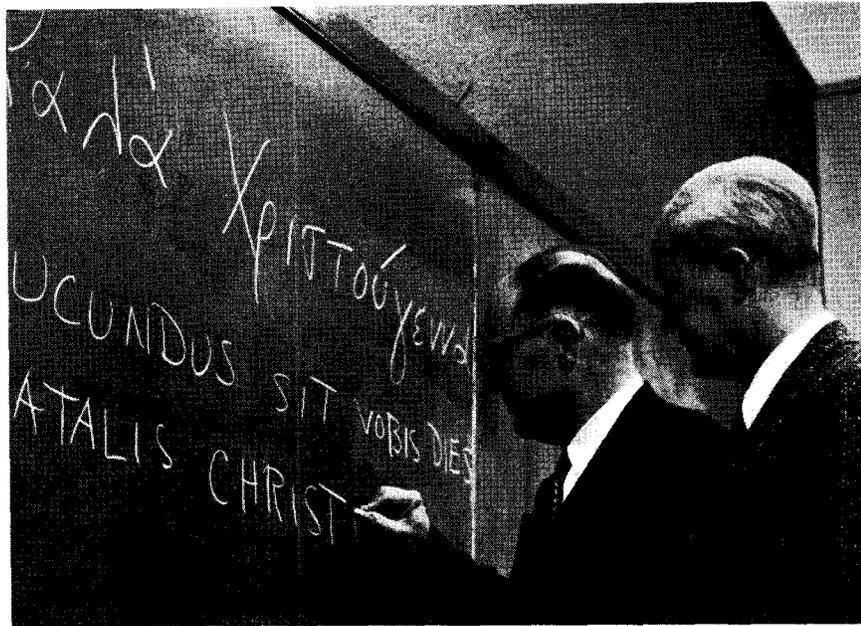
Vesele Vanoce

Buon Natale

Frohe Weihnachten

God jul og godt nyttar

Priecigus Ziemas Suethus



Norman J. DeWitt, chairman of the Classics Department, finishes a Latin version of a holiday greeting, as William A. McDonald, professor of classics, watches. Professor McDonald contributed the Greek greeting at the top of the blackboard.

Around the *Holiday* World In 20 Languages

University Language Departments Contribute Season's Greetings

JULES VERNE foresaw the possibility of going around the world in 80 days. Now satellites can whirl around the world in a matter of minutes.

University of Minnesota personnel can circle the globe without leaving the Minneapolis campus, for here are represented individuals from the four corners of the earth, either as staff members or as students.

In addition, the University offers courses in the geography, history, art, music, political ideologies, and languages of many of the world's peoples. It is the languages with which this issue of *THE MINNESOTAN* is most concerned on the following pages.

Instructors of the 20 languages taught at the University have contributed the following versions of traditional season's greetings in various lands around the world.

Greetings From Other Centuries

- The Romans, as pagans, had a festival on December 17, reports Norman J. DeWitt, chairman of the Depart-

ment of Classics. This celebration was known as the Saturnalia, and the greeting exchanged by the Romans was probably *Io Saturnalia*. If the Roman civilization was in existence today, the Christianized holiday greeting would read *Festivus sit tibi dies natalis Christi; felix faustusque novus annus*.

- If an Anglo-Saxon like King Alfred had wished to extend season's greetings to his friends, he probably would have said something like *Beoth ge myrge on thaem haligan daege Cristes gebyrde, ond sie eow saelig thaet niewe gear*.

John W. Clark, professor of English, translates this greeting "Be ye merry on the holy day of Christ's birth, and be to you happy the new year." He adds, however, that a "merry" Christmas day greeting would be unlikely, for the day was a very solemn religious occasion. The Anglo-Saxons "made merry" in the manner of their pagan ancestors during the winter solstice celebration which was observed the two weeks following Christmas.

December, 1957

Celebrations in Romance Language Lands

French, Spanish, Italian, and Portuguese are the four languages represented in the Department of Romance Languages. The instructors contributing the following Christmas information include Armand A. Renaud, visiting professor (French); James A. Cuneo, associate professor (Spanish); Elizabeth Nissen, associate professor (Italian); and Rodolfo O. Floripe, associate professor (Portuguese).

- Professor Renaud tells of the colorful and significant *Noel* or Christmas in France. The midnight Christmas eve church service is followed the next day by the *Reveillon*, a very special holiday buffet feast. This is the day for the children; they awake excitedly to see what *Le Pere Noel* or *Le Petit Jesus* has left in their small shoes. The parents exchange their gifts (*Les Etrennes*) on New Year's Day.

The customary French holiday greetings are *Joyeux Noel* (Merry Christmas), and *Bonne et Heureuse Annee* (A Good and Happy New Year).

- Christmas in Spain and the 18 Spanish-speaking countries of Latin America is chiefly a religious celebration. On Christmas eve, or *La Noche*

Buena, the whole family attends midnight mass (*Misa de Gallo*).

The children do not receive their gifts until January 6. During the previous night the Three Wise Men pass by and fill each child's shoes with gifts. The Wise Men represent three continents, (Europe, Asia, and Africa), one with white, one with yellow, one with black skin.

Spanish mothers sometimes smear a bit of charcoal on their children's cheeks during the night to show them that Balthasar, the black king, kissed them. This ceremony symbolizes to the child the equality of the races, and the goodness in each.

The Spanish holiday greeting, according to Professor Cuneo, is *Felices Pascuas de Navidad y Prospero Ano Nuevo*.

- In Italy Christmas means a time of lovely toys for the children, and delightful Christmas foods like *panettone* and *julekake* for everyone.

The holiday season traditionally ends on Twelfth Day or *Befana*. To the children this means the name of the witch who will reward or punish them, whichever they deserve. Students in Rome celebrate the *Befana* with noise, and a snake dance in Piazza Navona.

Miss Nissen's Italian greetings in-

clude *Buon Natale*, *Buon Anno*, and *Buone Feste* (Merry Christmas, Happy New Year, Season's Greetings.)

- Professor Floripe writes that the most common holiday salutation in Portuguese is *Feliz Natal, E Um Ano Novo Muito Prospero E Feliz*, which means "Merry Christmas and A Very Happy and Prosperous New Year." He adds that the celebration of the holidays in Portugal and Portuguese-speaking Brazil is much like the celebration in this country, with more emphasis on the religious aspect.

Season's Greetings from Scandinavia

The holiday greetings exchanged in Norway and Sweden are familiar to many Minnesota residents. The Department of Scandinavian Languages teaches both Swedish and Norwegian, and the respective greetings were provided by Mrs. Lilly Lorenzen, instructor of Swedish, and Marion Nelson, instructor of Norwegian.

Mrs. Lorenzen's greeting is *En trevlig jul och ett lyckosamt 1958* (A Merry Christmas, and a Happy 1958), and Mr. Nelson's Norwegian salutation is *God jul og godt nyttar* (Merry Christmas and Happy New Year.)



Three Romance language professors get together for an informal conference. From left to right are Rodolfo O. Floripe, associate professor, Elizabeth Nissen, associate professor, and Armand A. Renaud, visiting professor.



Mrs. Lilly Lorenzen, instructor of Swedish, and Marion Nelson, instructor of Norwegian, explain a Scandinavian travel folder to James A. Cuneo, associate professor of Romance languages.



Richard B. Mather, associate professor of Chinese, seated, translates a textbook phrase for T. B. Irving, associate professor of Arabic, and Edward M. Copeland, instructor of Japanese.



Thomas F. Magner, chairman of the Department of Slavic and Oriental Languages, shows Pearl C. Niemi, assistant professor of Russian, and Wassilij Alexeev, visiting lecturer in Russian, how to play the "gusle", a Yugoslavian musical instrument.

Holiday Wishes in Slavic, Oriental Tongues

- The Department of Slavic and Oriental Languages represents languages spoken by a good portion of the peoples of the earth. For many of them, Christmas is not a religious event, yet there are greetings for festivals held at approximately the same time of year.
- The Orthodox Russian Christmas falls on January 7 by the Julian calendar. The appropriate greeting is *S Rozhdstvom Khristovym* or "Best wishes on the occasion of Christ's birth." The Russian language is taught by Thomas F. Magner, chairman of the Department of Slavic and Oriental Languages, Pearl C. Niemi, assistant professor, and Wassilij Alexeev, visiting lecturer.
- Professor Magner also teaches Serbo-Croatian. The "Merry Christmas" greeting in this tongue is *Sretan Bozhich*.
- The transliteration of the Chinese holiday greeting is *Shengdan jr syi* or "Joy of the Holy Birthday", according to Richard B. Mather, associate professor of Chinese.
- The Japanese New Year's greeting, *Shinnen omedato*, is much more common than the Christmas greeting, *Meri Kurisumasu*, states Edward M. Copeland, instructor of Japanese.
- The Arabic peoples have a greeting, *Kull camin wantum bi khayr*, which is used for yearly events. It is the equivalent of "Many happy returns of the day." Arabic is taught by T. B. Irving, associate professor.

Other Slavic "Merry Christmas" greetings representing languages not now being taught at the University include the Czech *Vesele Vanoce*, the Latvian *Priecigus Ziemas Svetkus*, and the Polish *Wesołego Bożego Narodzenia*.

December, 1957

"Weihnachten" in Germany

- Gerhard H. Weiss, instructor, Department of German, reports that the German holiday season begins officially on the first Sunday in Advent, when the first candle on the advent wreath is lighted. The second, third, and fourth candles follow on subsequent Sundays, preparing the way for the Christmas eve celebration when the tree itself, with real candles, is revealed to the entire family for the first time.

Then the joyful greeting *Frohe Weihnachten und ein gesegnetes neues Jahr*, Merry Christmas and Happy New Year, echoes through German homes and streets.



Gerhard Weiss, instructor of German, reads a recent edition of one of Western Germany's outstanding newspapers.

Have You Heard?

Business School Departmentalized

• The School of Business Administration has been departmentalized and now comprises the Department of Business Administration and the Department of Economics. Robert J. Holloway, assistant dean of the School, now heads the Department of Business Administration, with Walter W. Heller, professor in the School of Business Administration, as chairman of the Department of Economics. Reuel I. Lund, associate professor, has been named assistant dean of the School, replacing Professor Holloway.

Richard L. Kozelka, dean of the School of Business Administration, recommended the departmentalization to the Board of Regents to facilitate the growing program in the fields of both business administration and economics.

Microfilms Presented to Library

• The Minneapolis Star and Tribune Company recently presented to the University Library microfilms of the newspaper's morning circulation from 1867 to 1943. This file may be used by anyone, according to Edward B. Stanford, director of University Libraries.

Shattuck Citations

• Four faculty members have been nominated by Shattuck School, Faribault, Minnesota, to receive citations for "outstanding contributions to secondary education." They are: Charles W. Boardman, professor emeritus of education, Nelson L. Bossing,

Robert J. Keller, and Dora V. Smith, all professors in the College of Education.

Listenership Data

• The A. C. Nielsen Company, marketing research organization, has compiled a list of all U. S. radio stations which are listened to one or more times monthly by at least 10 per cent of all the families in the one or more counties they serve. Of the 130 educational radio stations, only 14 surpass this level of listening, and one of these is KUOM, the University of Minnesota radio station.

School of Mines Status

• As a result of recent action by the Board of Regents, the School of Mines and Metallurgy, a part of the Institute of Technology, is now made up of the Divisions of Mineral Engineering, Metallurgical Engineering, and the Mines Experiment Station.

Professor Strathmore R. B. Cooke is head of the School and chief of the Division of Mineral Engineering. Henry H. Wade is director of the Mines Experiment Station.

Physical Metallurgy has been transferred to the School of Chemistry where it will function as the Department of Metallurgy under Professor Morris E. Nicholson.

Direct Representation in Senate

• The University Senate has amended its constitution to provide for direct Mayo Foundation representation. The amendment provides for selection of three Mayo Foundation professors or associate professors and one Mayo Foundation assistant professor or instructor.

Mr. Jesness Honored

• O. B. Jesness, former head of the Agricultural Economics Department, was honored recently at a ceremony held in Haacker Hall on the St. Paul Campus. A portrait of Mr. Jesness, presented to the University by the Minneapolis Chamber of Commerce, was unveiled during the brief ceremony. The distinguished agriculturalist retired in June, 1957, and was succeeded by Dr. Sherwood O. Berg.

IT Dean to Visit Antarctica

• Athelstan Spilhaus, dean of the Institute of Technology, will visit Antarctica this month as a member of the executive committee of the United States International Geophysical Year program. In November he attended a meeting of the executive board of UNESCO in Paris and a meeting of the Ninth Pacific Science Congress in Bangkok, Thailand.

Outstanding Geology Teacher

• George A. Thiel, chairman of the Department of Geology and Mineralogy, was selected the outstanding geology teacher of the year by the Association of Geology Teachers.

Receives Citation

• Laurence R. Lunden, University treasurer and comptroller, recently received a citation for "meritorious accomplishment" from the Board of Trustees of Grinnell (Iowa) College.

26 Receive Fall Quarter Regents' Scholarships

• Recipients of Regents' Scholarships for the fall quarter have been announced by the Civil Service Committee. These tuition-free scholarships are available to Civil Service personnel who wish to take University courses related to their work.

The fall quarter recipients include: Barbara J. Arndt, senior secretary, College of Education; Harold A. Belsheim, principal laboratory attendant, School of Chemistry; David J. Berg, senior accountant, Office of the Comptroller; Rosemary Buckley, senior clerk-typist, Medical Administration; Roland H. Daugherty, associate scientist, Aeronautical Engineering; Noor-

bihi Day, laboratory technologist, Pediatrics; Delores Dickinson, clerk-typist, Veterans' Counseling Center; Alden E. Domning, senior general mechanic, Agricultural Engineering, St. Paul Campus; Marion B. Erickson, secretary, Cloquet Forest Experiment Station. Miss Erickson will attend the Duluth Branch of the University.

Additional recipients include: Hildegard Hof, junior scientist, Physiology Department; Kathleen Jongedyk, junior scientist, Radiation Therapy; Victoria Kennedy, secretary, Mechanical Engineering; Alton L. Kollmann, bookstore manager, Agricultural Bookstore, St. Paul Campus; Gertrud Ostrem, senior laboratory technician, Cancer Biology; Esther Peterson, senior clerk, Student Counseling Bureau; Lenore

Sausser, senior laboratory technician, Anatomy Department; Mary Scheller, junior scientist, Physiological Chemistry; Gertrude Shevlin, senior clerk, Education Seminar Library; Mary Simonds, senior laboratory technician, Physiology Department; Kathryn Smith, laboratory technologist, College of Veterinary Medicine, St. Paul Campus; Anita Teufert, senior clerk-typist, College of Mortuary Science; Joan P. Thorson, junior scientist, Physiology Department; and Alice Tombouljian, laboratory technologist, Department of Medicine.

UMD recipients are Fred Anderholm, senior bookstore manager; Gloria Jean Swanson, secretary, Placement Bureau, and Lloyd Wolverton, building caretaker, Physical Plant.

University Faculty Members Star on EDUCATIONAL TV

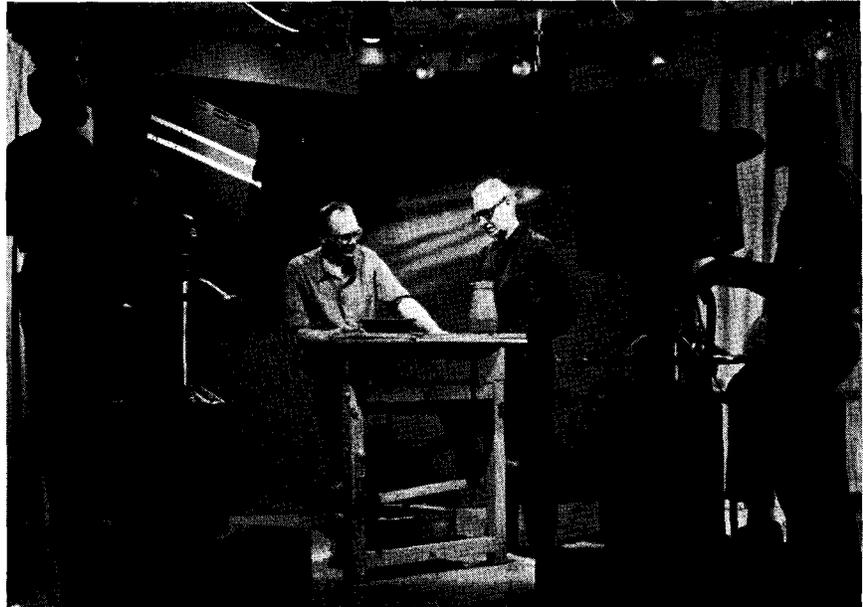
FOR FIVE HOURS a week, Studio 4, on the ground-floor of Eddy Hall on the Minneapolis campus, reverberates with the proverbial "... 3 minutes ... 2 minutes ... 1 minute ... YOU'RE ON THE AIR!" of the entertainment world. Since early fall, the University of Minnesota has been engaged in a whirl of television activity marked by the launching of its series of programs on the new Twin City Educational Television Station, KTCA-TV, Channel 2.

KTCA-TV is a non-profit corporation, licensed by the Federal Communications Commission, and is an entity completely separate from the University. However, through a contractual agreement, the station houses its studio and transmitter on the St. Paul campus. Although the University has previously sponsored and produced various television programs and series for commercial stations, this is its first sustained venture into the field of educational television.

Between the hours of 9-10 p.m., Monday through Friday, University of Minnesota Television offers viewers an extremely varied diet. The nine half-hour shows are diverse in their subject-matter, personalities involved, and type of format used.

The range of the shows includes a telecourse, "Your Government," given by Asher N. Christensen, professor of political science, which can be used as partial fulfillment for extension credit. Preceding this is a program of informal concerts and discussions with faculty members of

December, 1957



Under the watchful eyes of student television cameramen, Warren MacKenzie, lecturer in art, demonstrates the latest techniques in pottery-making to John Rood, professor of art and host-commentator of the program, "The Artist At Work."

the Music Department, "At Home With Music," introduced by Norman Abelson, assistant professor of music.

A show which has both performance and demonstration aspects to it is "The Artist at Work" with John Rood, professor of art, as host-commentator. Both the program, "In Search of Science" with Mark A. Graubard, associate professor of interdisciplinary studies, and the series on "Minnesota's Wildlife Resources" with Walter J. Breckenridge, director of the Minnesota Museum of Natural History, are essentially demonstration shows, and in both extensive use is made of such visual aids as films and models.

Mary Rice, assistant professor of literature and writing in General College, who conducts the program,

Walter J. Breckenridge, director of the Minnesota Museum of Natural History, and Thomas Quigley, program supervisor and member of the Television Production Center, go over last-minute arrangements for Professor Breckenridge's program, "Minnesota's Wildlife Resources."





Mary Rice, assistant professor of literature and writing, Sheldon Goldstein, director of the Television Production Center of the University, and Mark A. Graubard, associate professor of interdisciplinary studies, check schedules for the Tuesday evening programs presented by Mrs. Rice and Professor Graubard.

studio, emanate directly from the Eddy Hall studio on the Minneapolis campus.

Since the series is now in its fourth month of operation, Sheldon Goldstein, television program director, points out, it is possible to begin to appraise the over-all programming. From the audience point of view, there seems little question that the response to the University's programs has been extremely enthusiastic, as judged by the very large and very favorable mail which the studio has been receiving. In future months it is hoped to supplement these informal reports with program appraisals from panels of viewers.

"It is our aim," explains Mr. Goldstein, "to make educational broadcasting palatable, interesting, and enjoyable." In most cases, the goal is to try to combine high audience appeal with subject-matter integrity.

It is the strong feeling of those responsible for University of Minnesota Television that the effective teaching, interesting presentations, good grasp of the subject-matter, and stimulating personalities which all of the individuals who participate in the series possess, give the programs sufficient merit to assure them of an ever-growing audience.

A story of a lawyer who has been stimulated to purchase easel and paints and of an insurance salesman who has taken a second look at his piano exercises, helps to inform those associated with the shows that they are succeeding in arousing latent interests and enthusiasms in the television audience. Still another indication of keen audience interest in the programs is the increased demand which libraries and bookstores report for books discussed on the various programs.

"Selecting and Reading Current Books," and Robert Lindsay, instructor in journalism, who moderates "TV Journal," a program on current events, often include panel discussions and interviews as well as the more traditional lecture approach on their shows.

Panel discussions are also widely used on "Our Changing Society" with Roy G. Francis, associate professor of sociology, while interviews are the basic format on "Town and County," a show concerned with gardening, agriculture, and homemaking, which features Raymond S. Wolf, assistant professor and extension specialist.

The programs in the University's hour are under the direction of the Television Production Center of the University of Minnesota, headed by Sheldon Goldstein, television program director. The Production Center is part of the newly established Department of Radio and Television Broadcasting which is under the direction of Burton Paulu. All the programs, except the one on agriculture, which originates from the St. Paul

"Behind the scenes" at the program, "Our Changing Society" with Roy G. Francis, associate professor of sociology, are Arden Ebert (left), engineer, at the audio controls, and William T. Dale, program supervisor, who directs the show.



The Minnesotan

The smooth functioning of the University programs can be credited to the efficiency of the staff of the Television Production Center. In addition to Mr. Paulu and Mr. Goldstein, there are three program supervisors who produce and direct the various programs: William T. Dale, Thomas Quigley, and Jean Lowe.

The all-important crew which is responsible for keeping the television equipment in operating repair consists of the following individuals: Lawrence A. Brogger, chief engineer; Philip Jedlicka, Arden Ebert, Paul Allison, and Everett Lindgren, engineers. There are student crews to man the cameras and transform the small studio into nine varied sets.

An extremely vital part of the operation of University of Minnesota Television is exercised by the Television Program Advisory Committee. This is a committee of faculty members whose task is to make recommendations as to program content, timing of schedules, policies of emphasis, presentation, and so forth. The Committee, under the chairmanship of Burton Paulu, includes the following members: Harvard H. Arnason, chairman of the Department of Art; Frank T. Benson, Jr., instructor in General College, and Jan O. M. Broek, professor of geography.

Other members of the Advisory Committee are: Mitchell V. Charnley, professor of journalism; Dr. N. L. Gault, Jr., director of Continuation Medical Education; Theodore Hornberger, chairman of the Department of English; William S. Howell, chairman of the Department of Speech and Theater Arts; Benjamin J. Lazan, associate dean of the Institute of Technology; Julius M. Nolte, dean of the General Extension Division; William L. Nunn, director of University Relations; Harold B. Swanson, associate professor and editor of Information Service; Stewart C. Thomson, assistant director of the School of Public Health, and E. W. Ziebarth, dean of the Summer Session.

December, 1957



Getting warmed up for a recent session on Chopin presented on the program, "At Home With Music", are Bernhard Weiser (left) and Norman Abelson, assistant professors of music.

Two engineers on the Television Production Center engineering staff are shown in the control room of Studio 4. Philip Jedlicka (foreground) mans the video controls, as Everett Lindgren corrects or "shades" the camera balance of the picture.



*New University Gamma Ray Facility
Provides Tools to Explore the
Peaceful Uses of Atomic Energy*

Radiation Research Spearheads Way to Better Living

THE RADIOACTIVE contents of a slim, pencil-shaped tube can either vastly enrich or completely obliterate the existence of man.

Ten of these "pencils" of radioactive cobalt now rest at the bottom of a pool filled with 16 feet of water inside a heavily-shielded room in the new University Gamma Irradiation Facility, located adjacent to the Chemical Engineering Building on the Minneapolis campus.

The pencils of cobalt emit gamma rays which are energy radiations similar to, but more penetrating than, x-rays, and their economic potentialities are just beginning to be realized. The University Facility, which is unique among research centers of its type, will utilize the talents and scientific knowledge of scores of staff members in many diverse colleges and departments, for there are over 100 University individuals now involved in some aspect of atomic energy research.

Subjects of Experimentation

On what subjects will these indi-

viduals be conducting experiments, and why?

The subjects of experimentation may be as small as a seed, or as large as a cow, for genetic mutations induced by gamma radiation can lead to important plant and animal improvements.

For example, higher yields and better stem rust resistance changes have been produced in wheat and certain varieties of barley, oats, corn and peanuts. Irradiation may also be used along with antibiotics in the preservation of food, or gamma rays may be passed through food products killing bacteria, mold, insects, and other micro-organisms that cause spoilage or deterioration.

An even more vital field of investigation concerns the effects of radiation upon higher mammals.

In the area of radiation chemistry, researchers are hoping that radiation techniques may lead to the production of new and cheaper chemicals. Irradiated polyethylene is an exam-

ple of a plastic whose properties were improved by radiation.

How Experiments are Conducted

The subject of experimentation (the seed or the animal, for example), is placed in a container in the same room (the "cave") which stores the pencils of cobalt. Of course, no human hand manipulates the cobalt when it is raised from the depths of the pool and brought into closer contact with the subject of the experiment. A pair of scrawny, claw-like, artificial arms acts as a slave manipulator, with the human operator as its guide. He is located nearby, with a three-foot thickness of glass between him and the radioactive cobalt.

Safety Precautions

The fact that the human operator can be this near the source of radioactivity, and the even more basic fact that the Gamma Ray Facility itself was constructed in the midst of a busy, populated campus proves that radiation can be safely harnessed to do man's bidding.



Herbert S. Isbin, associate professor of chemical engineering, is responsible for the University's new Gamma Irradiation Facility.

However, certain basic safety precautions must be observed at all times. This is the responsibility of the Division of Environmental Health and Safety of the University Health Service. All programs involving radiation are administered by health physicists who are trained and experienced in the handling of radioactive materials, and who are fully competent to deal with all associated health hazards. Representing the Health Service in this program are health physicists Ralph O. Wollan, who participated in the design of the Facility, and Clayton R. Lagerquist, who is currently supervising operations. All persons who enter the cave are preceded by a health physicist who carries a portable radiation survey instrument. In addition, a continuously operating radiation monitoring system has been provided, including alarms and interlocks in the control system. This system prevents entry into the cave if radiation exposure exceeds the permissible limits.

Nuclear Operations Group

This unique Gamma Radiation Facility, which provides the tools to explore the peaceful uses of atomic energy, was made possible by the cooperation of a number of state industries and the University of Minnesota. The industries are organized into what is formally known as the Minnesota Nuclear Operations Group, which is made up of 28 organizations, all of which are keenly aware of the potentialities of atomic energy developments.

The three founding companies were Northern States

Power, Minneapolis-Honeywell, and General Mills, all extensively engaged in nuclear research in their particular fields of interest. The following firms joined the Group soon after. Each has a particular interest in nuclear research, whether it is in the field of engineering, medicine, biology, agriculture, or other specialized areas:

Crown Iron Works, E. J. Longyear Company, Northwestern National Bank, Thorshov and Cerny, Pillsbury Mills, Electric Machinery Manufacturing, International Milling, Archer-Daniels-Midland, Cargill, Western Oil and Fuel, Land O'Lakes Creameries, Marsh and McLennan, and Toro Manufacturing, all of Minneapolis; First National Bank, Minnesota Farm Bureau Service Company, St. Paul Fire and Marine Insurance, Wood Conversion, Remington Rand Univac, and Walter Butler Company, all of St. Paul; Minnesota Power and Light, Duluth; Central Research Laboratories, Red Wing; Green Giant, Le Sueur; Northwest Paper, Cloquet, and George A Hormel Company, Austin.

Shortly after this group was organized, it appointed a three-man operating committee including Hibbert M. Hill, chief engineer for Northern States Power; Finn J. Larsen, Honeywell research director, and John E. Barkley, manager of physical and chemistry research for General Mills Mechanical Division.

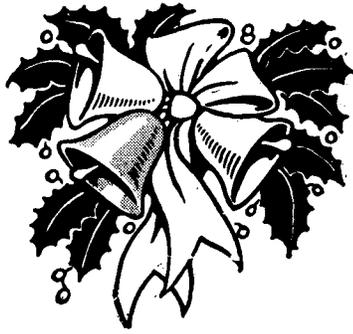
This committee, in turn, consulted with Athelstan F. Spilhaus, dean of the Institute of Technology, for its members realized they could not advance rapidly in the field of atomic energy without a supply of men trained in all phases of nuclear technology. Thus, the University became a member of the group, and Herbert S. Isbin, associate professor of chemical engineering, was named the University representative and the man responsible for the Facility.

University Participation Outlined

The very presence of the new Facility is a challenge to the scientific minds engaged in atomic energy research in various University departments. Proposed research projects will involve individuals from the Institute of Agriculture, Chemical Engineering, Radiation Therapy, Bacteriology, Biochemistry, Physiological Chemistry, Mechanics and Materials, Botany, and Chemistry, to mention only a few.

Most important is the fact that the Facility will become a vital part of the teaching and demonstration programs in the training of nuclear engineers and scientists. Major staff efforts, in fact, will be directed toward teaching and research activities, although service testing will be offered on a limited scale. In addition, the Facility is available for use by all of the member companies of the Minnesota Nuclear Operations Group.

It is a great credit to each of these member companies that this Facility was made financially possible. Surely great developments in the peacetime use of atomic energy will be the end result of their vision, their scientific curiosity, and their desire to improve the living standards of modern man.



A Joyous Noel Rings Out From University Carillon

HARK, the Herald Angels Sing, The First Nowell, Silent Night” — all the familiar and well-loved Christmas carols will ring out across the Minneapolis campus during the holiday season. As University staff members walk or drive to and from their offices each day, as they work at their desks and hear the bells chime the beginning and end of each class hour, they will be enjoying the holiday anthems long

associated with the Yuletide season. Although the music officially originates from an automatic roll player located in the carillon room of Northrop Auditorium, it is also true that it first originated with a Minneapolis music-lover, Mr. Harry Rowatt Brown, who gave the carillon to the University in 1948 as a memorial to his wife, Frances Miller Brown. He has had a continuing interest in his

gift throughout the past decade, and in addition to a bell maintenance and scholarship fund, he has donated the automatic roll players which now play the tunes heard many times each day.

Choice of these songs (aside from the special seasonal presentations) is purely accidental, according to Leland Bauck, senior engineer, Audio-Visual Department. Mr. Bauck is responsible for the maintenance of the carillon equipment. The several automatic players are rotated at random.

Before the automatic rolls were installed last year, the bell melodies were played manually on a double keyboard instrument. The musicians responsible for this music were Paul Oberg, chairman of the Department of Music, Edward Berryman, assistant professor of music, and, occasionally, the student holding a scholarship for this purpose.

On special occasions, such as the recent concert by noted carillonneur Anton Brees, the bells are still operated manually. These “bells”, however, are really not bells at all. They are electronic replicas of Flemish and English-cast bells, and are actually metal rods struck by hammers. The resulting sound is produced electronically.

Electronics and automation — both have come to the carillon room at Northrop, but there is still nothing streamlined or electronic about the age-old Christmas melodies the bells will produce during the coming weeks.



Leland Bauck, senior engineer, Audio-Visual Department, and Harry Rowatt Brown, who donated the carillon to the University, look on as nationally-known carillonneur Anton Brees presents a special bell concert.



Vivian Anderson

As senior salad maker at the Coffman Memorial Union Cafeteria, Mrs. Anderson is an authority on students' salad tastes. Their top preference: the standard tossed salad. Her own favorite is a fruit plate. A veteran of nearly 12 years experience, Vivian Anderson says the Cafeteria salad staff tries to make each plate attractive, as well as tasty and nourishing.



Phillip Anderson

As associate professor of animal husbandry on the St. Paul Campus, Phillip Anderson is a man of long experience in livestock production and meats work. A staff member of the Institute of Agriculture since 1915, he has specialized in marketing slaughter hogs and cattle by carcass weight and grade.

HAVE YOU MET?

Henrietta Novy

An enthusiastic flower gardener, Miss Novy won a sweepstakes prize at the St. Anthony Park flower show last summer. She has been with the University since 1938, first as a secretary at the West Central School and Experiment Station in Morris, Minnesota. In 1944 she joined the Department of Agricultural Biochemistry on the St. Paul Campus, where she is now principal secretary.



Dr. Walter Fansler

Dr. Fansler was recently elected Phi Beta Pi man-of-the-year by the national medical fraternity. He is director of the Department of Proctology at the University of Minnesota Hospitals.



Helen Trader

Mrs. Trader, a new member of the Department of Home Economics at the Duluth Branch, uses "mirror magic" in her teaching. The specially-designed overhead mirror allows students a clear view of her demonstration work.



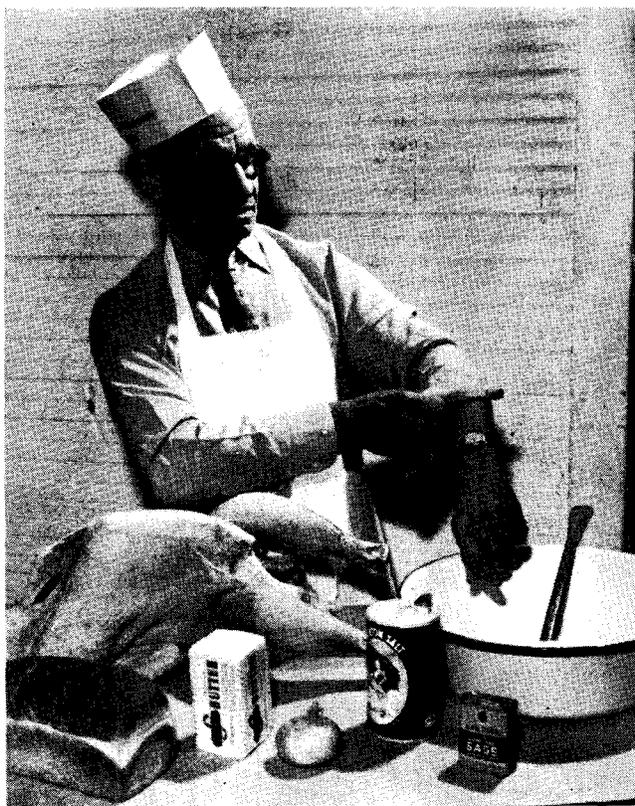
Let's Talk Turkey

No Stuffin' Nonsense About This Professor's Famous Recipe

TO COUNTLESS numbers of housewives "in the know", a Christmas turkey without that famous "Non-Soggy Stuffing" is a disappointing turkey indeed!

Thus it is that THE MINNESOTAN is happy to reprint, by popular demand, this turkey dressing recipe, originated by a long-time former faculty member of the University, William A. Billings.

A number of years ago, Billings, professor emeritus of the Agricultural Extension Service, gave his famous recipe over a local radio station. The announcer invited the radio audience to call or write for a mimeographed copy of the recipe. Eight telephone operators were swamped for four hours handling calls. A few days later, the broadcast was repeated on a national hook-up over 125 stations. After 35,000 calls for the recipe, announcers had to explain that the supply of recipes had been exhausted.



William A. Billings, associate professor emeritus of the Agricultural Extension Service, gets ready to make another Christmas memorable with his famous turkey dressing.

As recently as last November 21, Professor Billings was a special guest on "Town and Country", the program sponsored by the Institute of Agriculture on KTCA-TV, Channel 2. Once again, response to his recipe was overwhelming.

In 1950, Professor Billings was the recipient of a meritorious service award presented by the United States Department of Agriculture in recognition of his services to Minnesota farmers. Throughout the years, Professor Billings has contributed numerous articles to various state and national publications on turkey-growing. His own publication, the "Turkey News Letter," which he kept up until his retirement in 1956, was so popular that it had readers in every state and in many countries throughout the world.

My Recipe for Non-Soggy Stuffing by W. A. Billings

Take 2 or 3 loaves of dried-out bread and trim off the outside crust. Then cut the loaves into chunks about hand size. With a fairly coarse grater, finely crumble the chunks into a large pan.

Have someone who does not cry easily chop a medium-size onion into very fine particles. This is to give the dressing a certain amount of "oomph". Stir the chopped onion into the grated bread and add just enough salt to taste right.

Now add fresh powdered sage, shaking it on lightly as you stir it into the bread. PULEEEEESE, do not use too much sage — just enough to taste tangy, but not to gag you.

Now comes the test of your generosity. (If you are stingy, or if you like the usual, or soggy dressing, stop right here.) Melt a whole pound of good butter and have your helper pour the melted butter slowly over the mass while you stir it in evenly.

That's all there is to it! The dressing is complete. Don't add another solitary single thing. **DO NOT MOISTEN WITH WATER.** The finished product will be a golden color, still light and fluffy, although slightly moistened with melted butter.

Now to put the dressing into the bird. Have someone tip the helpless turkey up on the back of its neck and spoon in the dressing. Shake the carcass slightly to settle the dressing. **DO NOT PACK IT DOWN.** Don't even push it down with your spoon. Merely spoon in all the bird will hold and stop there and sew up the incision.

This dressing will not go as far as that soggy dressing because everybody will be hollering for more. If you have some "makin's" left after filling the bird, place it in a casserole and on top lay the neck, gizzard, liver and heart. Slide this into the oven toward the end of the roasting period and you will have a bit extra for the second helpers. It won't be quite as good, but still better than the soggy kind.

University of Minnesota Calendar of Events

DECEMBER, 1957

MINNEAPOLIS SYMPHONY CONCERTS

Subscription Series

December 6 — Robert Casadesus, pianist.
December 13 — Philippe Entremont, pianist.
December 27 — Lya de Barberis, pianist.
(Northrop Auditorium, 8:30 p.m. Single tickets from \$1.75 to \$4.00. Reservations may be made at 106 Northrop or by phoning University extension 6225.)†

Sunday Twilight Concerts

December 8 — "The Nutcracker" by Tchaikovsky. Bob DeHaven, narrator.
December 29 — Ballet Music.
(Northrop Auditorium, 4:30 p.m. Admission \$1.00. Ticket sales open at the Auditorium Box Office at 3:30 p.m. on the day of the concert.)

DEPARTMENT OF CONCERTS AND LECTURES

University Artists Course Masterpiece Series

December 12 — Royal Ballet (formerly Sadler's Wells.)
(Northrop Auditorium, 8:30 p.m. Single tickets priced from \$2.00 to \$5.00. Reservations may be made at 105 Northrop.)†

Special Presentations

December 11, 14 — Royal Ballet.
(Northrop Auditorium. Performances at 8:30 p.m. December 11 and 14, and a matinee at 2:00 p.m. on December 14. Single tickets priced from \$2.00 to \$5.00. Reservations may be made at 105 Northrop.)†

Convocation

December 5 — Organ Recital by Edward Berryman.
(Northrop Auditorium, 11:30 a.m. Open to the public without charge.)

Commencement

December 19 — You Chan Yang, Ambassador from Korea.
(Northrop Auditorium, 8:00 p.m. Admission by guest card only.)

UNIVERSITY THEATER PERFORMANCES

December 3-8 — *The Taming of the Shrew* by William Shakespeare.
(Scott Hall Auditorium. Performances at 8:30 p.m. except Dec. 3 and 8 which are matinees only at 3:30 p.m. Single tickets at \$1.25 may be purchased at the Theater Box Office, 18 Scott Hall.)†

MUSIC DEPARTMENT CONCERTS

December 3, 10 — Tuesday Music Hours (Programs to be announced.)
(Scott Hall Auditorium, 11:30 a.m. Open to the public without charge.)
December 10 — University Symphony Orchestra concert, Paul Oberg, conductor.
(Northrop Auditorium, 8:30 p.m. Open to the public without charge.)

SIGNIFICANT UNIVERSITY BROADCASTS

(Heard over KUOM, the University radio station, 770 on the dial.)
Fridays, 3:45 p.m. — Community Calendar with Audrey June Booth.
December 21-28 — Christmas Music Festival.
(Beginning at 2:00 p.m. December 21, all KUOM music programs will feature Christmas music, opening with Handel's "Messiah.")

January 1 — Holiday Request Program.

(Special New Year's Day program from 1:00-5:00. KUOM listeners are invited to send in their requests for classical favorites.)

SIGNIFICANT UNIVERSITY TELECASTS

(Seen over Channel 2, KTCA-TV, the station of the Twin City Area Educational Television Corporation.)

Monday, 9:00 p.m. — *At Home With Music* featuring the faculty of the Department of Music.
9:30 p.m. — *Your Government* with Asher N. Christensen.
Tuesday, 9:00 p.m. — *Selecting and Reading Current Books* with Mary Rice.
9:30 p.m. — *In Search of Science* with Mark A. Graubard.
Wednesday, 9:00 p.m. — *The Artist At Work* with John Rood.
9:30 p.m. — *Our Changing Society* with Roy G. Francis.
Thursday, 9:00 p.m. — *Selecting and Reading Current Books* with Mary Rice.
9:30 p.m. — *Town and Country* with Raymond Wolf.
Friday, 9:00 p.m. — *Minnesota's Wildlife Resources* with Walter J. Breckenridge.
9:30 p.m. — *TV Journal* with Robert Lindsay.

UNIVERSITY GALLERY EXHIBITONS

December 1-8 — Sculpture, Watercolors, Drawings by Antoine Bourdelle.
Through December — Exchange Exhibition of University of Minnesota Student and Faculty Art for Korea.

UNIVERSITY PRESS PUBLICATIONS

December — *Autonomic Imbalance and the Hypothalamus: Implications for Physiology, Medicine, Psychology, and Neuropsychiatry* by Ernst Gellhorn, M.D., professor of neurophysiology, University of Minnesota. \$8.50.

MUSEUM OF NATURAL HISTORY SUNDAY FILM PROGRAMS

December 1 — "Island Treasure"
December 8 — "Earth Power"
December 15 — "Our Mr. Sun"
December 22, 29. No program. Museum open.
(Museum of Natural History Auditorium, 3:00 p.m. Open to the public without charge.)

ATHLETIC DEPARTMENT EVENTS

Home Basketball Games

December 2 — Southern Methodist University
December 5 — Iowa State College
December 14 — Minnesota Alumni
December 30 — Yale University
(Williams Arena, 8:00 p.m. Unsold single reserved tickets at \$2.00 go on sale the Monday of the week before the game at the Athletic Ticket Office, 108 Cooke Hall. General admission on sale at gate only. \$1.25 for adults and \$1.00 for those under age 16.)

Home Hockey Games

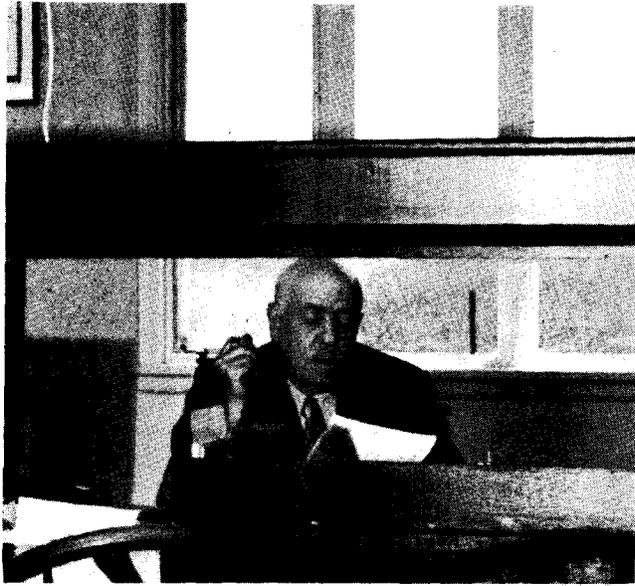
December 6, 7 — Michigan Institute of Technology
December 21 — U. S. Nationals
December 27, 28 — Harvard University
(Williams Arena, 8:30 p.m. Mail order ticket sale for single game reserved tickets at \$1.75 opened November 25 and closes one week before each game. Over-the-counter sale of unsold tickets begins the Monday before each game. General admission on sale at gate only. \$1.00 for adults and \$.60 for those under 16.)

† Tickets for these events are also available at the Field Schlick Ticket Office in St. Paul and the Downtown Ticket Office, 188 Northwestern Bank Building in Minneapolis.

THE MINNESOTAN

The University Staff Magazine - January 1958





Charles Lesley Ames is pictured in his attractive library building which contains, in addition to this pleasant reading room, book stacks, a vault room, two studies, offices, an accessions room, and a convenient seminar room for informal discussion groups.

They Made Us Great

AN EARNEST young man's intense reaction to a stirring account of the Sepoy Mutiny of 1857 provided the germ of an idea which grew into one of the most unique collections of publications on South Asia presently available in this country.

That young man, Charles Lesley Ames of St. Paul, became vice president of the West Publishing Company. His collection of publications became the highly-reputed Ames Library of South Asia.

Fifty years ago, Mr. Ames' interest in India was aroused by W. H. Fitchett's book *The Tale of the Great Mutiny*, which told of the grim Sepoy Mutiny in the mid-nineteenth century. His interest in Indian history gradually expanded to encompass neighboring countries.

As his interest expanded, so did his private library of valuable periodicals. By 1946 the collection became so extensive that its owner deeded it in trust to a Board of Trustees which included such well-known figures as Harold E. Wood, Irving Clark, Perrie Jones, Herbert F. Goodrich, Laurence M. Gould, Benjamin A. Griggs, James Lewis Morrill, Harold E. Stassen, and Ruth E. Clark.

On July 11, 1952, the Board of Regents of the University of Minnesota entered into an agreement with this Board of Trustees. The agreement provided for the trans-

ferral of the Ames Library to the University on or before June 29, 1961, the exact date to be decided by the trustees.

Mr. Ames' very generous gift offer also included a provision to continue to house the library in its present modern, specially-designed structure as long as the University finds it convenient. This structure adjoins Mr. Ames' suburban residence located in rural Dakota County, seven miles south of St. Paul.

Although the strongest section of the library collection is concerned with historical material, other subjects represented on a large scale are Religion, Caste, Art, Architecture, Economics, Government, Law, Botany, Zoology, Geology, Medicine, Public Health, Linguistics, and Literature.

In addition to the number of valuable books, there are hundreds of pamphlets, clippings, government documents, more than 100 files of periodicals, and excellent maps — all of great value to students, scholars, and researchers who seek, through their efforts, to extend American understanding of South Asia.

The young man whose imagination was so stirred by Indian history a half century ago has gone a long way toward realizing his dream of creating the most complete library on South Asia in the Western Hemisphere.

On the cover . . .

The inspiring sight of Coffman Memorial Union at night is a familiar one to countless numbers of staff members who take advantage of the building's many facilities for recreation, dining, social, and cultural activities.

Providing a genuine service to the campus community, Coffman Union opened its doors October 4, 1940. It was named in honor of the man who led the drive to make the dream of a college union at Minnesota come true—Lotus D. Coffman, president of the University from 1920 to 1938.

THE MINNESOTAN

Vol. XI

No. 4

Published by the department of University Relations, 213 Administration Building, University of Minnesota, Minneapolis 14, Minnesota.

William L. Nunn, Director

Ann Tucker Editor
Lynne Iglitzin Associate Editor
Advisory Committee: Members of the University Public Information Council.

The Minnesotan is published monthly from October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2 a year, 25 cents a copy. Copies of this issue are on sale at Coffman Memorial Union Bookstore.

Photographs, unless otherwise credited, were taken by members of the University Photographic Laboratory.

Entered as second-class matter at the post office at Minneapolis, Minnesota.

The Minnesotan



Members of the St. Anthony 4-H "Flyers" Club in St. Paul watch a demonstration on lighting presented by Mrs. Doris Carlson Waring, Ramsey County assistant home agent. To Mrs. Waring's left is Mrs. Glenn Prickett, adult leader of the group for six years. The St. Anthony Flyers 4-H group is representative of the 34 city and suburban clubs in the Twin Cities area.

University Provides Leadership for 48,000 4-H'ers

Staff members help make this outstanding youth program a Successful venture in molding better citizens for tomorrow

PROFOUNDLY AFFECTING the course of agriculture in the United States is a youth program which has as its ultimate goal the creating of better farmers, better homemakers, better citizens.

The very founding of the 4-H organization is a credit to the pioneers in the leadership of rural youth. These men and women were eager not only to make rural life more attractive to the young people who were beginning to drift away from the American farm 50 years ago, but to instill in them the highest principles of good character development, good citizenship, and "learning by doing" in the fields of agriculture and homemaking.

One of these outstanding pioneers was the beloved T. A. "Dad" Erickson, University of Minnesota professor emeritus of agricultural education, who served as a state 4-H leader in Minnesota for nearly 30 years. His autobiography *My Sixty Years With Rural Youth* was published by University of Minnesota Press in 1956.

"Dad" Erickson's dream was to transmit the highest possible ideals to these youngsters, as well as to teach them the practical importance of their motto to "make the best better."

This same goal is pursued today by the dedicated group of University staff members all over the state who devote so much of their time and energies to the 4-H program and to the 48,000 members in 2,000 state clubs.

The University and the 4-H movement have a close-working, interwoven relationship. The very machinery of the program is set up so that the University of Minnesota provides its administrative leadership in this state.

On a national level the 4-H program is one phase of an educational system of cooperative extension work in agriculture and homemaking. Participating in this national system are the United States Department of Agriculture, the state land-grant colleges, and the individual counties. The Federal Extension Service of the USDA gives the national leadership; the State Extension Service gives the state leadership.

University Leadership

As the land-grant college in Minnesota, the University does its share in leading the 4-H movement by providing a full-time staff of 11 people on the St. Paul Campus, and extension agents in each county.

The work of the St. Paul campus staff members is largely administra-

tive. They travel throughout the state helping county extension agents plan training for local leaders; they also aid in organizing local club activities. They are in charge of such statewide events as the 4-H Health Camp and the 4-H Conservation Camp, both held at Itasca State Park, the Junior Leadership Conference on the St. Paul Campus, the Junior Livestock Show, and the extensive 4-H program of demonstrations and exhibits at the Minnesota State Fair.

Work of County Agents

Agricultural, home, and 4-H club agents administer and direct the club's programs in Minnesota's 91 extension counties. Each of these agents is a member of the University staff.

All of these individuals strive to maintain the interest of 4-H members in club work until they reach the age of 21. This means encouraging their activities on into their college years. 4-H members on the University of Minnesota Campus have an opportunity to get acquainted and work together through such organizations as the Gopher 4-H Club and Clovia, an organization for girls who are present or former Club members.

More than half of the 32 Minnesota 4-H members who were awarded trips to the National 4-H Club Congress in Chicago last month in recognition of

their work in particular projects were enrolled in college. Seven of them were University students, two enrolled in the School of Agriculture. Four of these young people won national awards for their achievements.

Value of Membership

They are a credit to their leaders, sponsoring organizations, and certainly to their families and themselves, for in the final analysis it is the individual member who is most responsible for the important role his club plays in his life and the lives of his fellow club members. When these youngsters join a 4-H group, they agree to follow the high ideals and standards adopted by the club, and to learn by doing by carrying specific projects in homemaking, agriculture, and community leadership.

The goals of fine character development and good citizenship are the end results of working together, competing with each other, taking charge of meetings, planning programs, and taking part in community service projects.

The bases for these goals are expressed in the 4-H pledge:

"I pledge my head to clearer thinking; my heart to greater loyalty; my hands to larger service; my health to better living; for my club, my community and my country."

A Monday morning meeting is routine procedure for the state 4-H club staff. Here they examine records of members who are being considered as delegates to the National 4-H Conference in Washington, D. C., next June.

Left to right, clockwise, are Helen Jacobson, state club agent; Bernard Beadle, Howard Newell, and Earl Bergerud, all district 4-H Club leaders; Evelyn Harne, assistant state 4-H club leader; Leonard Harkness, state 4-H club leader; Sylvia Walker and Arleen Barkeim, state club agents; Stanley Meinen, assistant state 4-H Club leader, and Loretta Schell, state club agent.



Mathematics Plays Vital Role at University

Part I—SLA Department Members Prove Theorems for Relaxation

Two former chairmen of the Mathematics Department, William L. Hart and William H. Bussey, confer with present chairman, Robert H. Cameron, standing, over highlights of departmental history.



Although the great hue and cry concerning the dire need for well-trained mathematicians and physicists has only recently attracted popular attention, mathematics has long played a vital role at the University of Minnesota.

Throughout the years, the field of mathematics has expanded to such an extent that there are at present no less than two Departments of Mathematics, one in the College of Science, Literature, and the Arts, the other in the Institute of Technology.

In this issue of THE MINNESOTAN we begin a two-part series on "Mathematics at the University" with an article on the goals and functions of the SLA Mathematics Department. In the next issue of the magazine, the second part of this article will describe the specific growth and accomplishments of the Mathematics Department in the Institute of Technology.

THESE DAYS, when so much publicity is focused on matters mathematical and physical, it should come as no surprise to frequenters of Folwell Hall to learn that the SLA Mathematics Department now occupies nearly the whole first floor of the building. And not only that—they have even begun to filter down into the basement, as well.

Departmental Objectives

Robert H. Cameron, chairman of the Department of Mathematics in the College of Science, Literature, and the Arts, explains that there are a number of closely related purposes which he and his faculty members are pursuing. "For one thing," Professor Cameron explains, "the goal is to train students to carry on the traditions of mathematics and extend them further." This involves the training of future teachers of the field, on both the secondary and col-

lege level, and the guidance of their creative research work.

In view of the current demands for teachers of mathematics, it is a source of pride that the over 40 education students presently majoring in mathematics represents the largest group of its kind among all the Big 10 universities. His associates are quick to point out that much of the credit for this impressive number of mathematics students who choose to enter the profession of teaching goes to William L. Hart, professor of mathematics, and principal adviser for the education students. Professor Hart's textbooks on mathematics have



Professor Monroe D. Donsker explains the intricacies of an equation in probability to Assistant Professors Glen E. Baxter and Ronald C. Bzoch.

achieved national circulation and recognition.

In addition to its role in preparation for teaching, mathematics is viewed as a tool or service to the student who plans to enter any of various specialties in the physical, biological, and social sciences. In addition to teaching, the student of mathematics can consider such career possibilities as work in industry, statistics, government, and in the actuarial profession, to name just a few.

Cultural Role

In the third place, all the members of the mathematics faculty are emphatic in stressing the role of their department in the Arts College, a role designed to help the student achieve a well-rounded liberal education. They stress the fact that their aim is to make the student sensitive to mathematical thought so that he will be able to appreciate the implications of the great ideas which many men of genius and insight in the field have contributed to our culture.

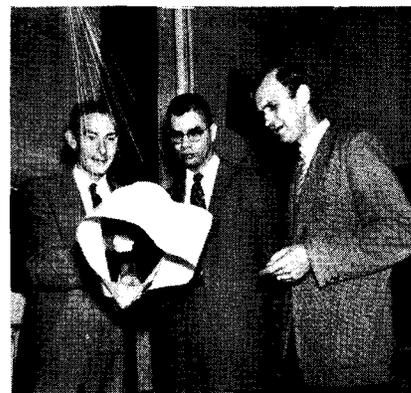
"Mathematics opens a new level of appreciation and thinking," points out Professor Cameron. "In this field, students find out that an argument is not just a bull session based on in-

dividual opinions, and thus they can experience the pleasure of working out an argument or theorem to a conclusive answer on which all will finally agree."

Research Work

There is a high level of advanced research activity in the Department, explains John M. H. Olmsted, associate chairman. This is reflected in the fact that several individuals are working with federal agencies, that there has been a steady flow of published papers from faculty members, and that approximately 20 Ph.d.s have been graduated within the past 10 years.

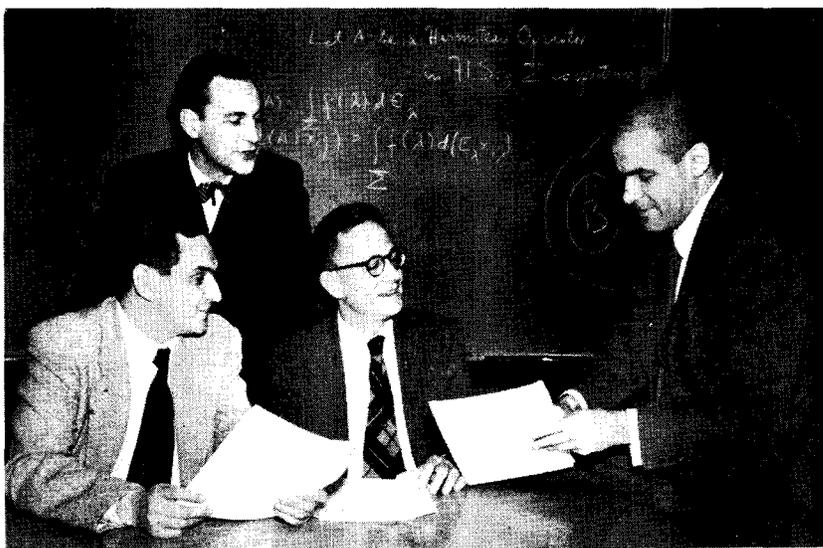
Members of the SLA Mathematics Department have been particularly fortunate in the outstanding quality



Professor John M. Slye uses his four dimensional model of "a hole that isn't there" to explain a problem in topology to Instructor Lawrence R. Harper and Associate Professor Bjarni Jonsson.

of their department chairmen over the years. Raymond W. Brink, professor emeritus, just retired as head of the department, after completing over 20 years in that position. William H. Bussey, professor emeritus of mathematics, and also a former chairman of the department, retired in 1948, putting to an official end over 40 years of association with

Several members of the Mathematics Department confer over their research in topological algebra. Seated are Assistant Professor Jesus Gil de Lamadrid, Professors Gerhard Kalisch and Bernard Gelbaum. Standing is Hans Radström, visiting professor from Sweden.



The Minnesotan

the University. Professor Bussey attends frequent meetings of the Mathematics Colloquium, and continues to take an active interest in all departmental activities.

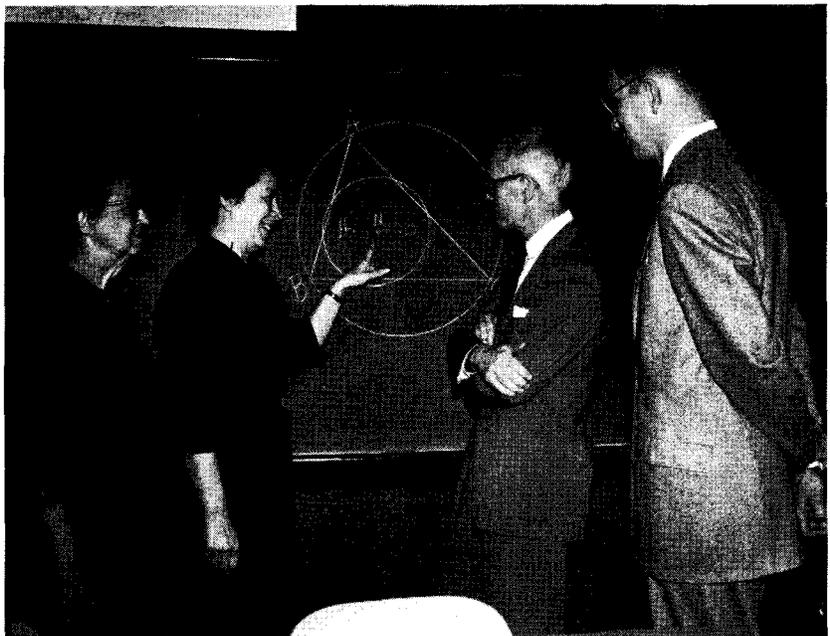
Faculty Activities

Many members of the mathematics faculty are presently engaged in research in specialized areas of the field. Working in the area of topological algebra are Professors Bernard R. Gelbaum and Gerhard K. Kalisch, and Assistant Professor Jesus Gil de Lamadrid. Hans Radström, visiting professor from Sweden, is also active in this field. Professor Kalisch was just recently honored by being appointed by the Minnesota State Board of Education to a newly organized committee set up to study the teaching of science and mathematics in the secondary schools of the state.

Active in the area of probability, that is, the study of chance or random processes, are Professors Cameron and Monroe D. Donsker, and Assistant Professor Glen E. Baxter. During winter and spring quarters of this year, Erik Sparre Andersen, visiting professor from Denmark, will also participate in the work on this topic.

Topology

Assistant Professor John M. Slye is active in the field of topology, which deals with primitive concepts of geometry, while Associate Professor Warren S. Loud is pursuing the study of differential equations. Associate Professor Bjarni Jonsson is



Pointing out a subtlety in geometry are Associate Professors Gladys Gibbens and Elizabeth Carlson, Professor John Olmsted, and Assistant Professor David Storvick.

working in the areas of algebra and logic.

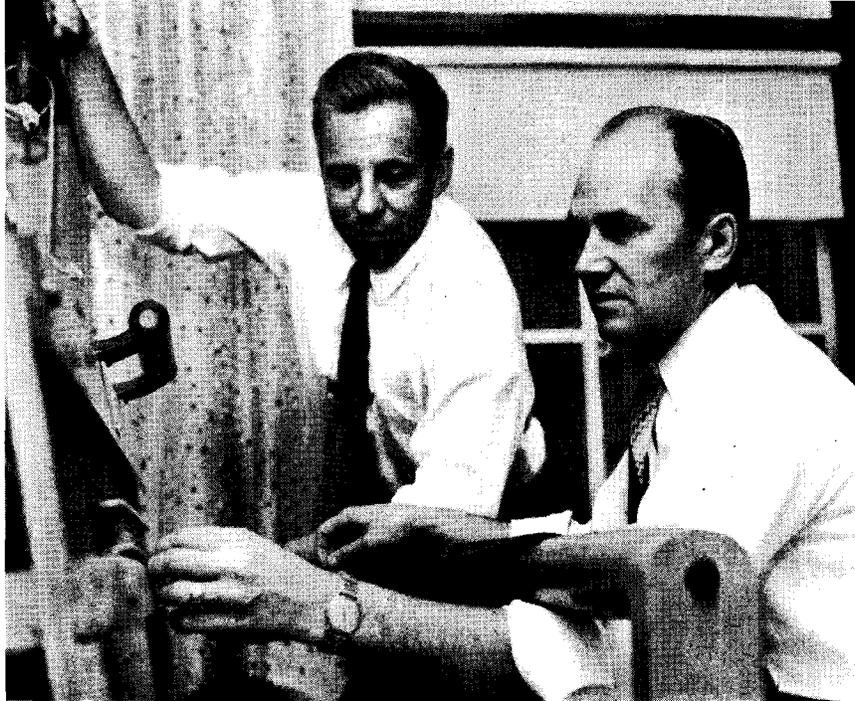
Other members of the SLA Department of Mathematics interested in these and related fields of research include: Associate Professors Elizabeth Carlson and Gladys Gibbens; Assistant Professors Ronald C. Bzoch, Charles Hatfield, Jr. and David Storvick; Lecturer Glen F. Clanton; Instructors Lawrence R. Harper, Edward O. Nelson, and Sarabeth Barnes.

Anne E. McClanahan is Senior Secretary for the Mathematics Department.

The members of this department are all individuals fully aware of their important responsibility for instilling knowledge of the vital area of mathematics into today's students. That they are eminently successful in fulfilling their goals is shown by the enthusiasm and fine quality of their graduates.

Assistant Professor Charles Hatfield Jr. and Associate Professor Warren S. Loud settle a fine point in a differential equation, as Senior Secretary Anne E. McClanahan stands by to record their ideas.





Have You Met?

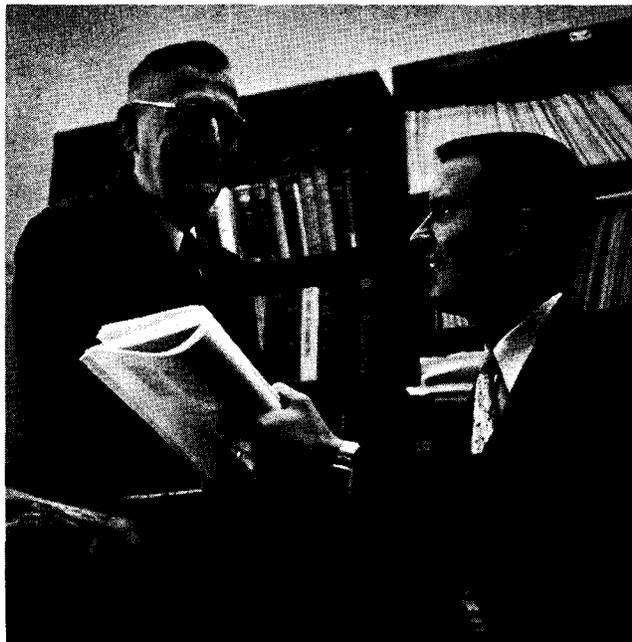
Rudolph Schauer and William Boyce

Talented newcomers to the UMD Art Department are instructor Rudolph Schauer, versatile in many art fields but a specialist in silver work, and William G. Boyce, assistant professor and educational curator of Tweed Gallery.

Professor Boyce is pictured working on one of the looms he has set up in his apartment to pursue his active interest in weaving.

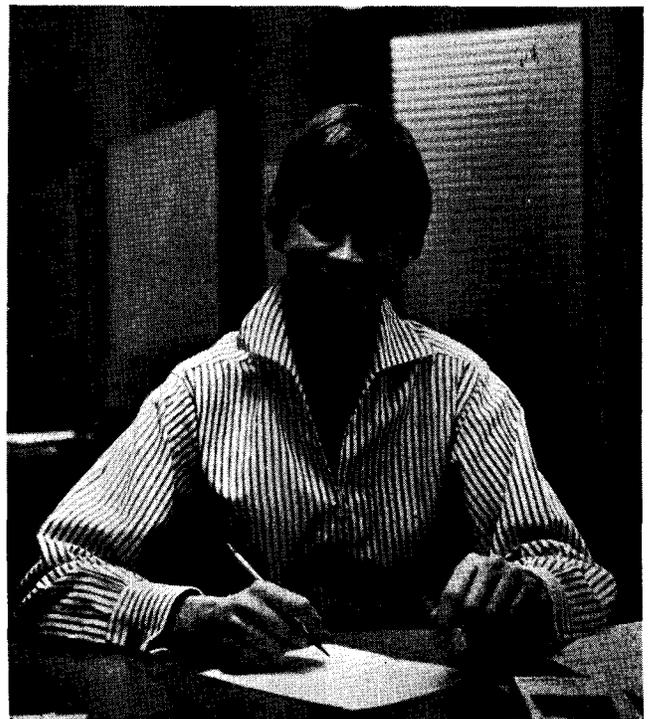
Reuel Lund and Robert Holloway

Reuel I. Lund, left, new assistant dean of the School of Business Administration, discusses an administrative matter with Robert J. Holloway, new chairman of the Department of Business Administration. The School was recently departmentalized into the Department of Business Administration and the Department of Economics, which has as its chairman, Walter W. Heller.



Gerry Morris

Prospective University employees are greeted by smiling Gerry Morris, who presides over the reception desk in the Employment Bureau of the Civil Service Personnel Department. Miss Morris joined the department as senior clerk-typist in September.





Skuli Rutford and Edna Jordahl

Skuli Rutford, director of the Agricultural Extension Service, congratulates Mrs. Edna Jordahl, Moorhead, Minnesota, on her recent award in the tenth annual information service contest sponsored by the Service for extension agents.

As Clay county home agent, Mrs. Jordahl won this award for the second year for her work in bringing home economics information to women through use of her county newspapers, visual aids, and newsletters. The busy home agent is also the new president of the Minnesota Home Agents' Association.

Dennis Wolters and Arthur Nordland

Early risers may encounter these men on the campus walks some snowy morning between 2 and 8 o'clock. Drivers Dennis Wolters and Arthur Nordland must keep the University snow removal equipment in ready-to-operate condition at all times. They may be called to work at any hour of the night to clean snow from the walks before the morning rush to classes begins.



Alice Beiersdorf

Setting up schedules, handling correspondence, and keeping track of a busy physician's many activities are just a few of the duties Alice Beiersdorf performs as secretary to Dr. C. Walton Lillehei, professor of surgery.

Rufus Lumry

Rufus W. Lumry, professor of physical chemistry, was an active participant in discussions at the UNESCO Conference on Enzymes held last fall. In his capacity as a United States representative, Professor Lumry traveled to Tokyo for the conference.



Have You Heard?

Elected Division Chairman

• Rodney A. Briggs, associate professor of agronomy and plant genetics, has been named vice-chairman of the seed production and technology division of the American Society of Agronomy.

Receives Grant

• Willem J. Luyten, chairman of the Department of Astronomy, has received a grant-in-aid from the Research Corporation for his basic research on "Determination of Orbital Motions and Masses in Binaries with White Dwarf Components."

Re-elected President

• Burton Paulu, director of the Department of Radio and Television Broadcasting, has been re-elected president of the National Association of Educational Broadcasters.

Stadium Committee Appointed

• President J. L. Morrill has appointed a 12-man advisory committee to study the Memorial Stadium problem. The group will consider proposals to enlarge the present facilities and the possibility of building a new stadium. Included on this committee are representatives of University alumni, regents, staff, students, and the general public. Representing the staff are Isaac J. Armstrong, director of the Department of Athletics, William T. Middlebrook, vice president, Business Administration, and Max O. Schultze, professor of agricultural biochemistry. Marshall W. Ryman, business manager of the Department of Athletics, will serve as committee secretary.

President of Theatre Group

• Harold L. Hayes, associate professor of speech and director of the Duluth Branch University Theatre, has been elected president of the North Central Theatre Association.

Attend Music Meeting

• Paul M. Oberg, chairman of the Department of Music, and James Aliferis, professor of music, participated in the recent annual meeting of the National Association of Schools of Music held in Chicago. Professor Oberg was elected vice president of region four of the Association.

SPAN Adviser

• Gerhard H. Weiss, instructor in German, will advise the German-speaking group of Minnesota college students traveling to Switzerland under the 1958 summer SPAN project.

Geologist Heads Society

• George M. Schwartz, director of the Department of Geology, has been named president of the Society of Economic Geology.

Staff Members in Who's Who

• Biographies of 248 members of the active University staff appear in the 1956-57 edition of *Who's Who in America*. In addition, 59 retired staff members are listed. Eight of this number are women. Nearly half of those listed are associated with the College of Medical Sciences.

Science Foundation Institutes

• The Minneapolis and Duluth campuses will be the scenes of two of the 1958 National Science Foundation institutes for high school and college teachers of science. The UMD program will include work in general science, mathematics, biology, chemistry, and physics. The Minneapolis campus will offer two institutes, one each in biology and physics. William R. McEwen, chairman of the UMD Division of Science and Mathematics, will direct the Duluth Branch program.

• The National Science Foundation has also made grants recently to two University of Minnesota professors; one to J. W. Buchta, Department of Physics, and one to William H. Marshall, Department of Entomology and Economic Zoology.

Prepares Report

• Theodore C. Blegen, dean of the Graduate School, directed the preparation of a report for the Research Foundation of the State University of New York recommending creation of a central "integrated" state university on a single campus in New York State.

Sunday Recreation Sessions

• Every Sunday though April 27, 1958, Cooke Hall on the Minneapolis Campus will be open from 2:30 to 5:00 p.m. for staff and family recreation sessions. All facilities will be available for activities such as swimming, volleyball, badminton, basketball, handball, squash, weightlifting, gymnastics, trampoline, and tennis.

There is no initiation fee or admission charge. Wives, children, and friends of all staff members are cordially invited to participate, although guests will be limited to four per staff member unless special permission is obtained from the intramural office at 203 Cooke Hall.

Speaks in Missouri

• Tracy F. Tyler, coordinator of the Korean Project, delivered two addresses in St. Joseph, Missouri, last month. He discussed the Project at meetings of the St. Joseph Rotary Club and the senior class of a local high school.

Doctoral Degree Statistics

• For the third consecutive year the University of Wisconsin ranked first among American universities in number of doctoral degrees granted for the 1955-56 academic year. The Wisconsin total was 349 doctoral degrees. The University of California at Berkeley was second with 304, and Teachers' College, Columbia University, and the University of Minnesota both granted 299.

Named Indian Chief

• Philip D. Jordan, professor of history, was made a member of the Chippewa Indian Tribe in Walker, Minnesota, last summer. More than 100 Indians in full regalia were present for the ceremony which was attended by nearly 2,000 Northern Minnesota residents and tourists. Professor Jordan was named Chief Ojib-ig-wigay-anini which means "Big Writer." His honor stemmed from his work on the book *The People's Health* which included a chapter on the health of the Indians and the children's book *Fiddle Foot Jones of the Northwoods*.



Philip D. Jordan

The Minnesotan

*Baby daughter beats the clock to
Help her talented mother win top
National baking contest honors*

LOAF OF BREAD BRINGS \$5,000 TO UMD COUPLE

ONE OF THE busiest days a young University of Minnesota geology instructor has had since joining the Duluth campus faculty last fall was an October day when he had no classes. He spent it accepting congratulations and granting interviews to radio and television personalities.

"You'd think I had won an honor," happily protested Richard W. Ojakangas, "but I didn't do a thing except pick a wonderful girl for a wife."

The wonderful girl is the former Beatrice Luoma of Floodwood, Minnesota, who won the \$5,000 second prize award in the 1957 national Pillsbury Bake-off Contest for her "Chunk O'Cheese" bread recipe.

But the best recipe in the world would not have brought results had not young Catherine Lee Ojakangas cooperated. She was born a full two weeks before she was expected to arrive, allowing her mother to travel to Beverly Hills, California, to compete for the top awards, as one of the 100 finalists.

She heard emcee Art Linkletter announce her second-place prize at a special banquet on October 16. She says he even pronounced her name correctly, with the help of Finnish actress Taina Elg.

Where has the \$5000 prize money gone? Some has been used to pay travel bills from last year's European tour; some has gone into the bank for Richard Ojakangas' Ph.D. program; some for a new electric range, and a substantial portion for a food order from the small Warba, Minnesota, store, where the winning cook bought the flour for her baking entry.

Chunk O' Cheese Bread

$\frac{1}{2}$ cup warm water	$\frac{1}{2}$ cup cornmeal
4 to $4\frac{1}{2}$ cups sifted all-purpose flour	2 teaspoons salt
1 lb. American process cheese, cut into $\frac{1}{2}$ -inch cubes	$\frac{1}{2}$ cup molasses
$1\frac{3}{4}$ cup water	2 tbsp. shortening
	1 pkg. dry yeast or 1 cake compressed

In saucepan combine water, cornmeal, and salt. Bring to a boil. Cook until slightly thickened, stirring constantly. Remove from heat. Add molasses and shortening. Cool to lukewarm.

In mixing bowl, soften yeast in water. Blend in cornmeal mixture. Gradually add flour to form a stiff dough. Knead on floured surface until smooth (about five minutes.) Place in a greased bowl and cover. Let rise in warm place until light and doubled in size (1 to $1\frac{1}{2}$ hours.) Add cheese. Knead on floured surface until cheese cubes are distributed evenly.

Divide dough into two parts. Shape into round loaves on a board sprinkled with corn meal. Place in two 8-inch round layer pans lined with aluminum foil and well-greased. Let rise in warm place until light and doubled in size (about one hour). Bake in moderate oven (350 degrees) 45 to 55 minutes until deep brown. Makes two loaves.

Mr. and Mrs. Richard Ojakangas



Continuation Center Observes 21st Birthday

*First of its kind in the country,
the Center has 109,000 "alumni"*

A GROUP of dedicated young ministers, eagerly seeking additional knowledge to help them counsel their parishioners during the gloomy days of the Depression, provided University of Minnesota President Lotus D. Coffman with a challenging idea one day in 1933.

Perhaps, he mused, other professional men and women had a conscious or subconscious hunger for further knowledge on up-to-date techniques in their respective fields — education, medicine, law, dentistry, business, engineering. If this were true, he felt the University owed it to these individuals to provide them with the tools — both physical and intellectual — to learn these new techniques.

The dream of 1933 became a reality on November 13, 1936, when the Center for Continuation Study on the Minneapolis Campus opened its doors to receive its first students for an institute on cooperative management.

On its twenty-first birthday, this unique institution could look back with pride to a cumulative student body of over 109,000, a faculty of over 30,000, and a total of 1,886 courses. The Center was not only the first of its kind in the country; it remained alone in its field for several years after its founding.

It is a complete "Center" in the truest sense of the word, with its dormitory, dining facilities, classrooms, social center, and chapel all under one roof. The very name was the offspring of two of its early enthusiasts — Malcolm M. Willey, then University dean, and Harold Benjamin, former assistant dean of the College of Education. Dean Benjamin became the first director of the Center, followed by Julius Nolte, present dean of the General Extension Division.

Under the skillful guidance of Dean Nolte, the number of institutes conducted by the Center multiplied itself many times during its second year of existence. Requests for use of the institution became so numerous that often schedules had to be made for two years in advance.

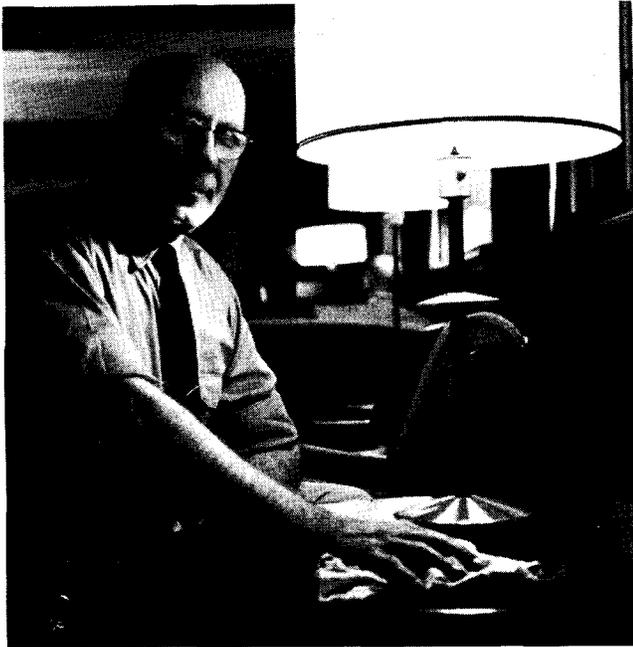
This increasing number of interested groups and the over-all, continuing popularity of the Center throughout the years since 1936 is a distinct credit to its founders, to its thousands of students and faculty members, and certainly to its loyal staff.



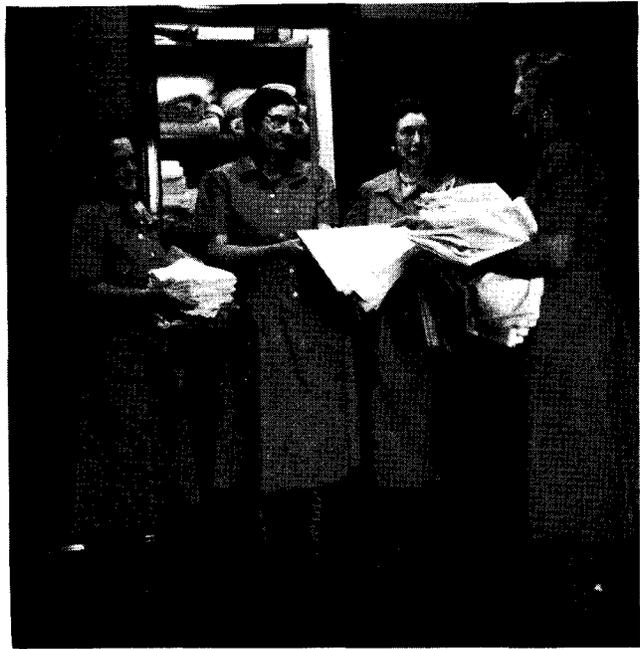
Evelyn Ross Dick, dormitory manager, and Judy Hess, senior clerk-typist, greet two high school principals at the registration desk, while Jean Lynes takes care of the busy Center switchboard. The registrants attended a recent Secondary School Principals' Workshop.



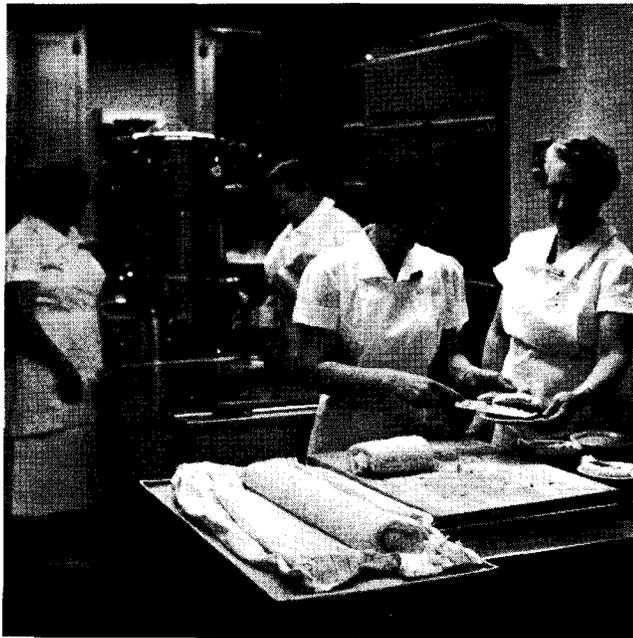
The foursome pictured above is responsible for the administration of the Center and its many annual institutes. Elizabeth Cless, program consultant, is seated, with Merrill K. Cragun, course coordinator, James E. Spear, program director, and Fred E. Berger, director of the Center, standing, left to right.



Tony Munson, building caretaker, is responsible for maintaining the pleasant, home-like surroundings of the Continuation Center, which includes, in addition to its dormitory area, a large, central lounge, dining and kitchen facilities, seminar rooms, and a chapel.



The dormitory area of the Center, which can accommodate up to 72 individuals, is kept in good order by custodial workers Lena Loeb, Amanda Freedland, Helen Hauser, and Elsie Quilling.



Refreshments for the lunch and coffee breaks which are an integral part of every Center institute come from the compact kitchen staffed by Rhoda Moe, food service worker, and Clara Larson, assistant cook, foreground, and Hazel Bullis, senior food service worker who is in charge of the kitchen staff, and Alice Robinson, food service worker, background.



Valeria Fleischhacker, seated, supervises Center office activities. In the photo above she passes on some assignments to Elizabeth Quinlan, senior clerk-typist, and Kathleen Minton, secretary.

10,000 Telephone Calls A Day Keep University Switchboard Humming

HOW WOULD YOU like a telephone bill of \$13,800 per month? This is the average monthly telephone bill of the University of Minnesota on its Minneapolis campus alone. The St. Paul campus telephone bill averages a mere \$3,800 per month!

William O. Cook, assistant to the supervisory engineer, and the man who is in charge of all telephone operations at the University, explains that a large portion of the above figures is paid for by the various departments themselves. A huge room full of expensive equipment is needed to keep operations running, not to mention the thousands of feet of cables which run through the tunnels to the various buildings from the central switchboard.

It is only when one enters a deceptively small room on the third floor of the Administration Building, however, that one begins to realize the enormity of the telephone operations at the University. Here, at the University Switchboard, are the 1600 lines which cover some 2300 telephones on the Minneapolis campus. Calls for the St. Paul campus and for the University Hospitals are handled on different switchboards.

Twenty-four hours a day the switchboard is kept humming, as approximately 10,000 calls are handled daily. Maxine Lidberg, telephone operations supervisor, estimates that each of the telephone operators working under her direction handles about 150-200 calls an hour during the day.

An important function of the telephone operator, particularly at night, is to take any emergency calls that might come in. For instance, a special danger signal "beeps" in on the Switchboard should anything go amiss at the Linear Accelerator Building where nuclear research is carried

Under the watchful eye of their supervisor, Mrs. Lidberg, operators on the University Switchboard keep the lines humming. From the foreground are Mildred Campbell, Florence Sandness, Florence Wiggins, Ruth Rossman, Maxine Phelps, Laura Semple, and Edith Corbett.

on. Also, all accident, fire, police, and other emergency calls are handled directly by the switchboard.

The amount of knowledge that the 15 operators who man the board during the course of each day and night possess is fantastic. Mrs. Lidberg claims that it takes at least one year before she can consider an operator fully trained. It is not surprising that the large majority of the present operators have been on the same job for many years.

By the end of each year, the operators have memorized extension numbers for most of the people on campus. In addition, they have to be able to handle the strange assortment of questions which are put to them each day, and for which they are expected to have ready answers.

"Does the University buy bodies?" is a thought-provoking question which confronts the operators on occasion. (Answer: No—a person may will his body to the University if he so chooses.) The operator who was asked this mysterious question, "How do you take the smell of a dead body out of a car?" sidestepped the issue by referring the party to the School of Chemistry.

Often people call up with various problems on their minds, and vent their irritation on the hapless operator who has taken the call. Not so long ago, a man called up and asked for "Edna". To the polite explanation that this was hardly enough information to locate anyone, the man replied



angrily that Edna was his daughter, that she had left home early that morning and hadn't returned. "Well," he quizzed the operator impatiently, "where is she?"

Although only seven people operate the board at any one time, it takes 10 full-time operators to handle the Minneapolis campus switchboard. The operators, some of whom have been on the job for over fifteen years, are: Lillian Anderson, Mildred Campbell, Edith Corbett, Maxine Phelps, Martha Roden, Ruth Rossman, Florence Sandness, Laura Semple, Marie Steele, and Florence Wiggins.

In addition, there are two full-time operators on the St. Paul switchboard. They are Edith Nelson, who has a record of close to 40 years of service, and Frieda Johnson. The three part-time operators who do relief work on the Minneapolis switchboard are Patricia Tighe, Emily Collier, and Evelyn Nowakowski.

THE QUESTION IS:

How Successful Has the Credit Union Been at the University?

ALTHOUGH IT HAS been in operation for less than one year, the University branch of the State Capitol Credit Union has already met with considerable success in making credit union services available to staff members and their families.

1,000 Members

Membership in the Credit Union has been growing steadily until at present there are approximately 1,000 faculty and civil service personnel who have joined the group. The principal reasons for joining a credit union are the opportunity to practice thrift by consistent saving, and the chance to secure low cost loans.

To date, the amount of savings received from University staff members is \$186,715.20. Since the branch opened, about 500 loans have been granted, amounting to a total of over \$400,000. The University branch has been able to lend more than it has received, since the main office of the State Capitol Credit Union has been supplying a large percentage of the funds.

Loans to Staff Members

By far the largest number of loans to staff members has been for consolidation of debts, explains D. G. Reimer, manager of the University branch of the State Capitol Credit Union. Credit union facilities have enabled many to enjoy the convenience of paying their debts to one source at the low interest rate of one per cent per month on the unpaid balance. In addition, loans are insured against death or total permanent disability and are scheduled on a semi-monthly basis to coincide with pay periods of staff members.

A substantial number of loans have been made to staff members for the purchase of new and used cars, and for medical and hospital accounts. A few people have used loans to assist them in financing trips to do research abroad, or simply for vacation purposes. Loans have also been issued to cover a variety of needs such as purchases of furniture and clothing, tuition, income tax, and court fees and fines.

In the short time that the University branch has been

opened, two staff members have died, and in both cases their loan balances were cancelled and their share savings doubled. This bears out credit union philosophy that in practically all cases, "debts die with the debtor".

Savings Benefits

The savings aspect of credit union membership carries with it equally good benefits. Savings earn interest at the rate of 3½ per cent compounded annually, and are doubled in the event of death. Amounts over \$2,000 earn an interest rate of over 4¼ per cent. All savings are withdrawable at any time without notice.

A number of University staff members have been active in promoting knowledge of the credit union facilities on the various campuses.

Robert W. Bridges, principal engineer, has been appointed the representative of the credit union on the Duluth campus, and he will undertake to organize meetings in various departments there.

Discuss Payroll Deduction

The Credit Union Advisory Committee, composed of faculty and civil service representatives, under the chairmanship of Edwin C. Jackson, assistant comptroller, meets monthly to discuss plans to promote membership and participation in credit union services. Members of the committee have been discussing the implementation of a payroll deduction plan for savings for University staff members.

There is little doubt, Mr. Reimer points out, that payroll deductions would be of benefit to staff members, as well as to the credit union itself. The plan would enable a greater percentage of individuals to save regularly and conveniently by having a set amount deducted each pay-day.

The credit union would gain a substantial increase in membership, which in turn would mean additional amounts of share savings and deposits, and reduction of its operating costs. This would mean marked increase in lending for personal and mortgage loans.

University of Minnesota Calendar of Events

JANUARY, 1958

MINNEAPOLIS SYMPHONY CONCERTS

Subscription Series

January 3 — Rafael Druian, violinist
January 10 — Andres Segovia, guitarist
January 17 — All-orchestral program
January 24 — Roberta Peters, soprano
Gerard Samuel, guest conductor
January 31 — Karl Boehm, guest conductor
(Northrop Auditorium, 8:30 p.m. Single tickets from \$1.75 to \$4.00. Reservations may be made at 106 Northrop or by phoning University extension 6225.) †

Sunday Twilight Concerts

January 5 — Gershwin, Broadway program
Thelma Hunter, pianist
January 19 — All-Tchaikovsky program
Rafael Druian, violinist
January 26 — Evening in Paris
Eva Knardahl, pianist
(Northrop Auditorium, 4:30 p.m. Admission \$1.00. Ticket sales open at the Auditorium Box Office at 3:30 p.m. on the day of the concert.)

DEPARTMENT OF CONCERTS AND LECTURES

University Artists Course Masterpiece Series

January 16 — Joseph Szigeti, violinist
January 29 — Vienna Boys' Choir.
(Northrop Auditorium, 8:30 p.m. Single tickets priced from \$1.00 to \$3.00. Reservations may be made at 105 Northrop.) †

Thursday Morning Convocations

January 9 — University Theatre-on-Tour Production of *The Taming of the Shrew*
(Two performances: 11:30 a.m. and 12:30 p.m.)

January 16 — Julien Bryan, travel film lecturer
January 23 — William Clauson, balladeer-guitarist
January 30 — Organ recital by Edward Berryman
(Northrop Auditorium, 11:30 a.m. Open to the public without charge.)

MUSIC DEPARTMENT CONCERTS

Date to be Announced — Double piano recital by Barbara Blon and Marvin Busse
(Scott Hall Auditorium, 3:30 p.m. Open to the public without charge.)

Tuesday Music Hours. Programs announced weekly.
(Scott Hall Auditorium, 11:30 a.m. Open to the public without charge.)

SIGNIFICANT UNIVERSITY BROADCASTS

(Heard over KUOM, the University radio station, 770 on the dial.)

Monday through Friday — *Highlights in Homemaking*
(Featuring Jo Nelson and guests, 10:45 a.m.)

Monday through Saturday — *Midday Newscast and The Afternoon News*

(12:15 p.m. and 4:30 p.m. Prepared in cooperation with the School of Journalism, emphasizing University news.)

January 8, 14, and 21 — *Minneapolis Symphony Orchestra Young People's Concerts*
(Broadcast at 1:30 p.m. from Northrop Auditorium and the St. Paul Auditorium.)

SIGNIFICANT UNIVERSITY TELECASTS

(Seen over Channel 2, KTCA-TV, the station of the Twin City Area Educational Television Corporation.)

Monday, 9:00 p.m. — *At Home With Music*, featuring the faculty of the Department of Music.

9:30 p.m. — *Shakespeare* with Robert E. Moore, associate professor of English.

Tuesday, 9:00 p.m. — *Asia in World Politics* with Werner Levi, professor of political science.

9:30 p.m. — *Primitive Religion* with Robert F. Spencer, professor of anthropology.

Wednesday, 9:00 p.m. — *American Folk Songs* with Gene Bluestein, instructor in English.

9:30 p.m. — *Shakespeare* with Robert E. Moore.

Thursday, 9:00 p.m. — *TV Journal* with Robert Lindsay, instructor in journalism.

9:30 p.m. — *Town and Country* with Raymond Wolf, assistant professor, Agricultural Extension Service.

Friday, 9:00 p.m. — *Your State Parks* with J. Merle Harris, associate professor in General College.

9:30 p.m. — *Speaking of the Classics* with Norman J. DeWitt, chairman of the Department of Classics.

UNIVERSITY GALLERY EXHIBITONS

Through January — "The Painter and the Mountain"
(Works by Marsden Hartley, assembled and circulated by the University of Nebraska galleries.)

Through January — Faculty Show by members of the University Department of Art.

MUSEUM OF NATURAL HISTORY SUNDAY FILM PROGRAMS

January 5 — "Waterbirds"
January 12 — "Teamwork on the Mesabi"
January 19 — "Exploring Caves"
January 26 — "A Museum at Work"
(Museum of Natural History Auditorium, 3:00 p.m. Open to the public without charge.)

ATHLETIC DEPARTMENT EVENTS

Home Basketball Games

January 4 — Purdue University
January 25 — University of Iowa
(Williams Arena. The Purdue game begins at 8:00 p.m.; the Iowa game, which is being televised nationally, at 3:30 p.m. Mail order sale for single game reserved tickets at \$2.00 closes one week prior to each game. Over-the-counter sale of unsold tickets begins at 108 Cooke Hall on the Monday before each game. General admission on sale at gate only: \$1.25 for adults; \$1.00 for individuals under 16.)

Home Hockey Games

January 10-11 — Michigan State University
January 17-18 — University of North Dakota
January 31-February 1 — Denver University
(Williams Arena, 8:30 p.m. Mail order sale for single game reserved tickets at \$1.75 closes one week prior to each game. Over-the-counter sale of unsold tickets begins at 108 Cooke Hall the Monday before each game. General admission on sale at gate only: \$1.00 for adults; \$.60 for those under 16 years of age.)

Wrestling

January 20 — University of Iowa
January 27 — Oklahoma State University
(Williams Arena, 7:30 p.m. General admission at gate: \$.60.)

Swimming

January 30 — University of Nebraska
(Cooke Hall, 7:30 p.m. General Admission at gate: \$.60.)

Gymnastics

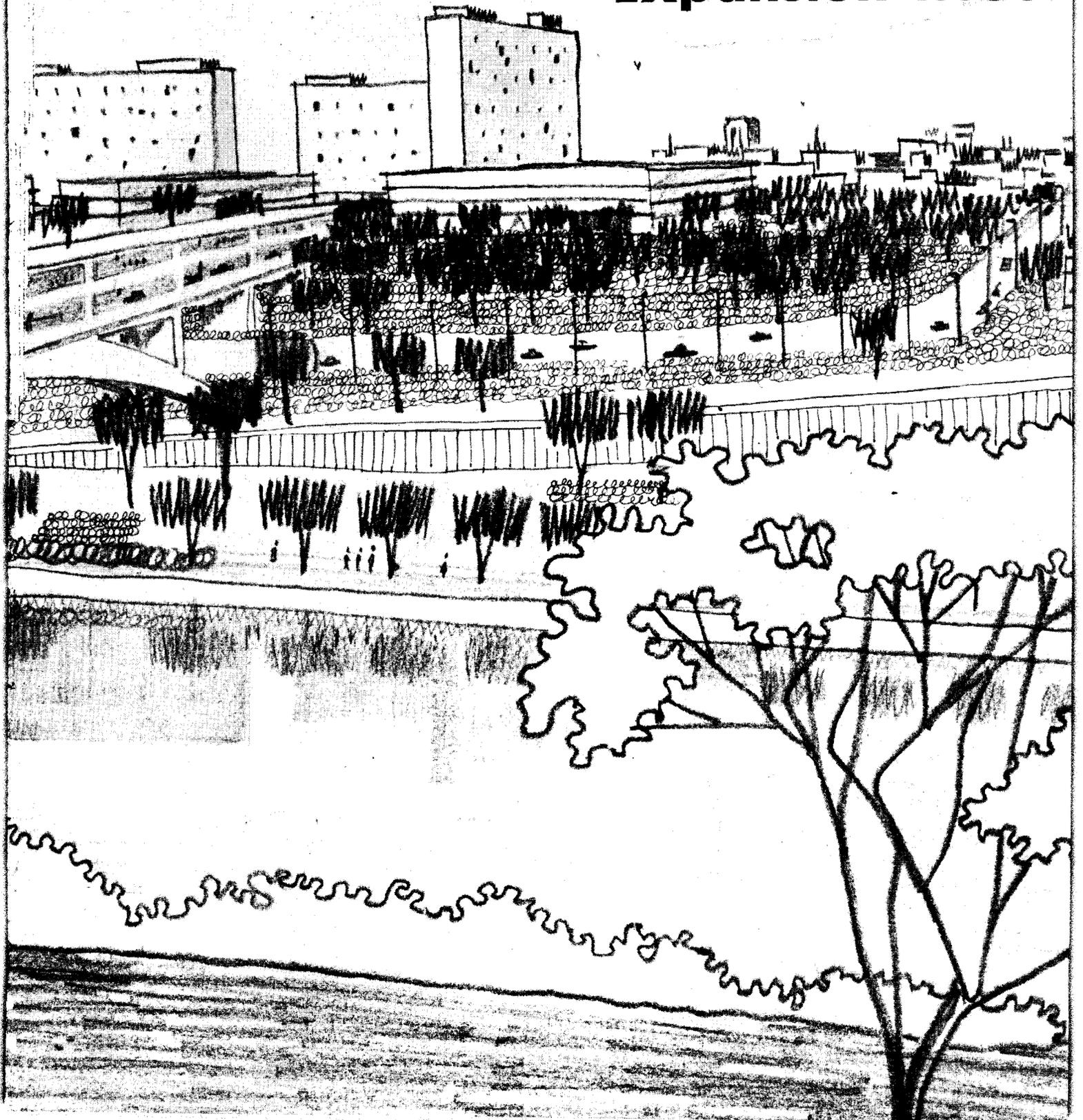
January 25 — Western Illinois
(Cooke Hall, 1:30 p.m. Admission: \$.60)

† Tickets for these events are also available at the Field Schlick Ticket Office in St. Paul and the Downtown Ticket Office, 188 Northwestern Bank Building in Minneapolis.

THE MINNESOTAN

The University Staff Magazine - February 1958

Expansion Issue



They Made Us Great

A MODEST, selfless, and dedicated man who never attended the University of Minnesota has long been affectionately known throughout the state as "Mr. University."

This fact is not surprising to his hundreds of friends who have known him well for many years and, understanding his dedication, they needed no explanation for his loyal devotion to an institution which was not his alma mater.

Yet Gerald T. Mullin quietly and concisely gave his reason the evening of December 12, 1957, at a dinner honoring him not only for his service to the University, but to the community and state.

He said, "A citizen should be loyal to his country and should not only love its institutions but support them."

Mr. Mullin has been a supporter of many of his country's institutions

throughout the years. A sincere and thoughtful public servant, he was first elected to the State House of Representatives in 1929, and then moved to the Senate where he represented the 35th legislative district with distinction from 1931 until the close of the 1957 session when he retired to assume the presidency of the Minneapolis Gas Company.

For many of his years in the State Legislature, Gerald Mullin was chairman of the Senate University Committee. In this position he became the major spokesman for University appropriations, a vigorous defender of the University's position on countless occasions.

Yet "Mr. University" is a man with diverse interests. He has always been a staunch supporter of the interests of minority peoples; he has been an outstanding leader in the fields of

welfare and labor legislation; he has given hours of his little free time to civic and fraternal organizations.

His many friends on the University campuses have individually demonstrated their respect for Gerald Mullin in many ways—through close personal friendships and the warm regard they genuinely feel. Collectively this respect was formally expressed on December 12 when President J. L. Morrill presented him with the University's first Regents Award in special recognition of his qualities of "benefaction, fidelity, and leadership."

"Mr. University" is a title that will not be lightly applied again; it is uniquely Senator Mullin's own, and a title richly deserved.

On the Cover . . .

Jack Geretz, assistant to the University's advisory architect, Winston Close, prepared this sketch of a portion of the proposed new West Minneapolis Campus area as it may look in 1970. To get this view, you could be looking out a window in Appleby Hall, the present School of Mines Building, facing the river. To your left is the double-deck bridge which will unite the east and west sections of the campus, and directly across the river are the buildings which will constitute a new "University Skyline." For a complete resume of expansion plans for three campuses, see pages three through nine.

Former State Senator Gerald T. Mullin accepts the first University of Minnesota Regents Award from President J. L. Morrill. Pictured, center, is Dr. Donald Cowling, one of the hosts at a recent dinner for Senator Mullin, and another individual who "has made us great."



THE MINNESOTAN
Vol. XI No. 5
Published by the Department of University Relations, 213 Administration Building, University of Minnesota, Minneapolis 14, Minnesota.
William L. Nunn, Director
Ann Tucker Editor
Lynne Iglitzin Associate Editor
Advisory Committee: Members of the University Public Information Council.
THE MINNESOTAN is published monthly from October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2 a year, 25 cents a copy. Copies of this issue are on sale at Coffman Memorial Union Bookstore.
Photographs, unless otherwise credited, were taken by members of the University Photographic Laboratory.
Entered as second-class matter at the post office at Minneapolis, Minnesota.

Expansion Plans To Affect Thousands of Staff Members

The University Crosses the River To Make Room for 42,000 in 1970

IT TOOK NECESSITY, the mother of invention, to reveal that courageous and creative forces in the vast and complicated field of campus expansion could be mobilized and put to work at the University of Minnesota.

Between September 25 and December 16, 1957, and with a total of six very extended meetings, a faculty committee appointed by President J. L. Morrill developed a proposed plan for campus expansion which has been hailed as a credit to the thoughtful and imaginative planning of a representative and distinguished group of individuals.

Planning Committee

With Malcolm M. Willey, academic vice president, as chairman, the committee included Theodore C. Blegen, dean of the Graduate School; Winston Close, advisory architect for the University; Walter W. Cook, dean of the College of Education; Roy V. Lund, supervising engineer of the Physical Plant; C. Gilbert Wrenn, professor of education and chairman of the Senate Committee on Education; Athelstan F. Spilhaus, dean of the Institute of Technology; E. G. Williamson, dean of students; Richard L. Kozelka, dean of the School of Business Administration; E. W. McDiarmid, dean of the College of Science, Literature and the Arts; William T. Middlebrook, vice president of Business Administration; Horace T. Morse, dean, and Alfred L. Vaughn, associate dean of the General College; Robert E. Summers, dean, True E. Pettengill, recorder, and Vernon L. Ausen, room assignments and scheduling supervisor, Admissions and Records.

These men, placing the interests of education above all else, took suggestions and ideas wherever they could be found and formulated a plan for the expansion of the Minneapolis Campus west of the Mississippi River.

Unity Factor Important

As a result of what they accepted and of what they rejected, the move across the river will not create a *new* campus; rather, the *present* Minneapolis campus will be expanded logically and systematically across the Mississippi, with a double-deck bridge spanning the river and unifying the two areas into a single campus.

"This factor of unity was vital to all of us and became a major consideration in our planning," stated committee member Dean Blegen.

"The bridge, as we envision it, will serve as an effective link between two areas, not as an obstacle that would divide the campus or make for competition between the east and west banks. We want a single and united Minneapolis Campus, and this is assured by the plans we have worked out," he added.

In short, all students and all staff members will continue to have the benefit and stimulation of working and studying together, as in the past.

Reasons for Expansion

Why must the campus stretch across the Mississippi? Why is it so necessary to expand at all?

These are questions that have answers in the Land-Grant Tradition, for ours is a Land-Grant University that takes pride in a century of increasing service and leadership to the people of Minnesota — service and

leadership from doors that have always been open to all. This is the core of the Land-Grant tradition.

The most important reason for future expansion, and for the expansion of past decades as well, can be summed up in one word: Growth — growth in (1) the numbers of qualified students who want to attend college; (2) growth in the demands of society for trained, professional personnel of competence and integrity; and (3) growth and expansion of University research and service operations which result from the demands of industry, government, organizations, and individual citizens.

Research and Service Needs

We know the University must meet the needs of an unprecedented increase in college enrollment which is expected to total 38,600 on the Minneapolis Campus, 3,587 on the St. Paul Campus, and 4,000 on the Duluth Campus by 1970. It must also meet the steadily increasing needs for research and service in the areas of health, agriculture, technology and engineering, education and so on. These are not easy to measure, but help is found in noting that sponsored research alone at the University increased almost eight-fold in the last decade. No one believes that the next 10 years will show other than still further increases.

Staff Increase

As the numbers of University students increase, and as research and service facilities grow, there must be a corresponding jump in the number of staff members, both academic and civil service. Not only will the University need more professors, scien-

tists, and librarians, but more secretaries, food service workers, glass blowers, carpenters, and technicians will have to be employed. The increase in numbers of new students and new staff members is inescapable if the University is to continue to operate in the historical Land-Grant tradition.

Why Expand West?

Why must the University expand west? Why not north or east of the present Minneapolis campus?

These questions find ready answers in the geography and in the economics of the areas in which the University is located.

It is obvious, first of all, that expansion in any direction other than west would make distances too great between the area of expansion and the present center of the campus. The University is now "hemmed in" by industrial developments and railroad tracks to the north and east. Expansion in either direction would mean students would have to travel through these sections to attend classes in the expanded area.

A second vital reason for the move westward is cost. The acquisition of the land across the river will cost only about half as much as that to the east or north. (The University is presently engaged in condemnation proceedings involving 17½ acres of land, with \$1,500,000 voted by the last Legislature for this purpose. The eventual need, however, is for 45 acres.)

A third reason for the move west is that the planned "equalizing of the student load" between the two sides of the river will reduce and ease traffic congestion.

Also, expansion in any other direction would remove a substantial number of present student housing facilities, primarily in private homes. A housing shortage, a problem at any time, would be doubly undesirable in the crowded era ahead.

University Skyline

The West Minneapolis Campus development would also provide a most

welcome opportunity to develop a distinctive and inspiring "University of Minnesota skyline" with an architectural style that would enrich and beautify not only the University and the community, but the entire state as well. This skyline would be made up of buildings as modern as tomorrow — buildings that will incorporate the best educational and architectural thinking that our faculty and staff can devise.

Legislature Recognizes Needs

The general need for this West Minneapolis Campus expansion was recognized by an interim commission created by the 1955 Legislature to study the building needs of the entire state. As the *Minneapolis Morning Tribune* commented, editorially, on January 1, 1958: "This commission was bipartisan; it was recruited from many areas of the state. Its study was thorough, and its approval was unanimous."

Many of the members of Vice President Willey's committee worked closely with the legislative interim commission as far back as 1955.

The 1957 Legislature appropriated funds not only for the purchase of land across the river, but also for the construction of new buildings and for the rehabilitation of old ones.

The 1959 Legislature will be asked for funds to build the first educational buildings across the river. From 1959 on, it is certain that each biennium will be extremely crucial, since it takes about two years to get a building "from the legislative halls to actual occupancy," according to Vice President Willey. Still, the goals have been set; the future can be seen.

Revisions Are Inevitable

Now, are all of these present plans "carved in stone" and hence, unchangeable? Of course not, President Morrill and all the other University officials agree.

Certainly there will be changes and modifications in the future. Some of these will be made as a result of the next six legislative sessions, while others will result from further stud-

ies. Flexibility in existing plans and in attitudes will be of paramount importance, it is noted generally by all who have had a hand in the plans.

When the noted St. Paul architect, Cass Gilbert, drew up his then-startling 1910 plans for University expansion, shifting the center of the campus from the Knoll to the present Mall, a situation similar to the present one was posed. Then the Cass Gilbert plan must have seemed disturbingly ambitious to many who had come to think of the few buildings on the Knoll as comprising the University of Minnesota "for all time." Fortunate indeed that the planners of that day were not men of narrow vision. They adopted the Cass Gilbert plan knowing that those who would come later would use it "as a guide to an attainable future."

It is most likely that history will repeat itself with regard to the present plans that grew from Vice President Willey's committee. Already, in fact, supplementary studies and investigations are indicating suggested changes in those outlined plans, but the central idea that the move across the river is not to create two campuses, but is to enlarge the existing Minneapolis Campus has taken deep roots. It is this idea, for example, that puts the future home of the College of Science, Literature and the Arts at "each end of the bridge." Indeed, this college, like the bridge itself, becomes a "unifying force."

Interest in Plans

As well-formulated guides to future expansion, the present plans have attracted much attention. The four-page spread, in color, in the December 31, 1957, *Minneapolis Star* is illustrative. Also, other Universities have sought information and descriptions and have sent representatives to Minnesota to inquire about the plans.

These plans, as finally approved by the Board of Regents, represent widespread conferring with countless numbers of campus groups and individuals including the Administrative Committee, the Faculty Consultative Committee, and the University Senate itself.

The Minnesotan

Dean Williamson has expressed the conviction that "there have been more conferences and discussions on the subject of this expansion with faculty and student groups than on any other phase of future enrollment."

He also stressed the careful deliberation involved in preparing the plans and the intensive studies made by staff members to iron out even minute details. "It is certainly the best resolution of several options that were thoroughly explored and evaluated by the Committee," Dean Williamson added.

Staff Cooperation Urged

Yet, even a well-developed, strong expansion plan such as this cannot become a reality without the continuing interest and dedication of the entire staff, it is agreed by all.

"Patience, amenability to change, creative imagination, hard and thoughtful work, and above all, cooperation, will be qualities the University will need and look for in all its staff members during the difficult but challenging period ahead," President Morrill has stated.

He added that "the realization of these plans will also depend upon the continuing interest and support of many individuals and groups to whom the University is already indebted for their wholehearted cooperation—the members of the Legislature, the civic authorities in Minneapolis, the city engineer, the CLIC (Capital Long-Range Improvements Committee), the Minneapolis Planning Commission, the Housing and Redevelopment Authority, and the State Highway Department.

"The encouragement and assistance of these many individuals, working together, will enable the University of Minnesota to accomplish the goals it has set for itself," President Morrill continued.

And he has added: "To grasp the present is to guarantee the best possible future opportunity for Minnesota's sons and daughters who will be applying for admission to this University within the next decade and the years beyond."

February, 1958

Where May You Be Working in 1970?

Many University Staff Members To Occupy 1,000 New Offices in West Campus Section

YOU MAY BE spending your working day in a 12-story, modern office "tower" on the west side of the Mississippi River in 1970, if you are in the School of Business Administration, certain departments of SLA, the General College, or possibly the College of Education.

(At this point in the preliminary plans, either the General College or the College of Education will move to the west side of the river.)

Many of the new offices will provide staff members with an impressive view of the Mississippi, much like the vantage points enjoyed by individuals now occupying the higher floors in the Mayo Memorial Building.

Four-Story Classroom Buildings

The new buildings on the west bank of the river will represent maximum use of the acquired land.

Generally, present plans call for most of the actual class-room space to be located in four-story, walk-up structures with 12-story office towers connecting these units. Two of these 12-story structures would be located on the east side of the river. Auditoriums would be on the ground level and detached from other structures to minimize traffic.

There may be some dormitory facilities on the margins of the new

west side area, as well as restaurant and lounge facilities to accommodate both students and staff members.

Student Load Equally Divided

Certainly there will be provisions made for some laboratory and research space on the west side, although specialized laboratory facilities will be concentrated on the east side of the river. A high percentage of the west side area will be devoted to non-laboratory and non-research facilities which require less space.

The instructional load between the East and West Campuses will be divided about equally. Each will allow space for 25,000 student "stations" (a station being a classroom seat or place at a laboratory table.) Because of maximum use of instructional space, it will be possible for the West Campus to accommodate its 25,000 student stations in about half the space required by an equal number of stations on the east side.

The College of Science, Literature and the Arts (the University's largest unit in number of students) will be concentrated in two fairly compact segments at opposite ends of the proposed new bridge across the river.

The Departments of Astronomy, Botany, Geology, Mathematics, Music, Zoology, and the Library School will probably remain on the east side of

The University Needs 31 "Ford Halls" For Instructional Purposes Alone

the river. One reason for this is the fact that many students, primarily those in the Institute of Technology which will remain on the East Campus, attend classes in several of these SLA departments.

IT Expansion

The Institute of Technology will be greatly expanded and moved westward to the present Mall.

This means that IT will probably move into Vincent Hall, Ford Hall, the Administration Building, buildings now housing various SLA departments, and into the areas now devoted to the athletic practice fields located to the north and east of the present engineering buildings. New athletic practice fields may be constructed on Fourth Street Southeast, just north of Williams Arena.

Professional Area Development

The College of Medical Science will continue to develop in its present "growing space" in the blocks east of the Mayo Memorial Building and Millard Hall.

If the College of Education does not move to the West Campus area, it will expand in its present area and into additional space which would become available on the margins of that area as other units move.

The Law School and the College of Pharmacy would make up a "professional area" just west of the Main Library.

The College of Pharmacy will move into Appleby Hall, present home of the School of Mines, just as soon as the new School of Mines Building, now under construction, is completed. This new structure is located on the

corner of Washington Avenue and Church Street in the engineering quadrangle. Appleby Hall is located next to Fraser Hall, the Law School building.

Administrative Offices Move North

Under the proposed plans, the Graduate School would remain in Johnston Hall, although graduate students will be attending classes on each side of the river.

The administrative offices, as well as University public service activities, would be located on the north side of the present campus, probably in Follwell, Jones, and Pillsbury Halls.

The Center for Continuation Study would remain where it is, with the proposal that the "overflow" from Center activities be located in Nicholson Hall.

New Bridge Considered "Mall"

The double-deck bridge which would unite the East and West Campuses would become, in a sense, the new Mall, with the center of the campus shifting to that area. This bridge would be unique in construction, with provisions for six lanes of traffic on the lower level, and walkways for pedestrians on the upper level.

The bridge, which would be protected in all seasons because of its enclosed style of construction, would facilitate the interchange of students between the two sides of the campus within the normal interval between classes.

Bus, Parking Facilities

There has also been the proposal that two underground bus stations

be constructed at opposite ends of the bridge to serve each part of the campus.

As plans now stand, bridge construction may begin soon enough for completion by 1961. Wrecking crews will begin knocking down buildings about July 1, 1958, in some of the seven Minneapolis city blocks across the river to be purchased by the University. This area is bounded by Washington Avenue South, Nineteenth Avenue South, Fourth Street, and the edge of the river bluffs.

Parking facilities for the expanded campus area would probably be located in a "band" around the West Campus development, as a sort of "buffer zone" between the campus and the commercial area on Cedar Avenue.

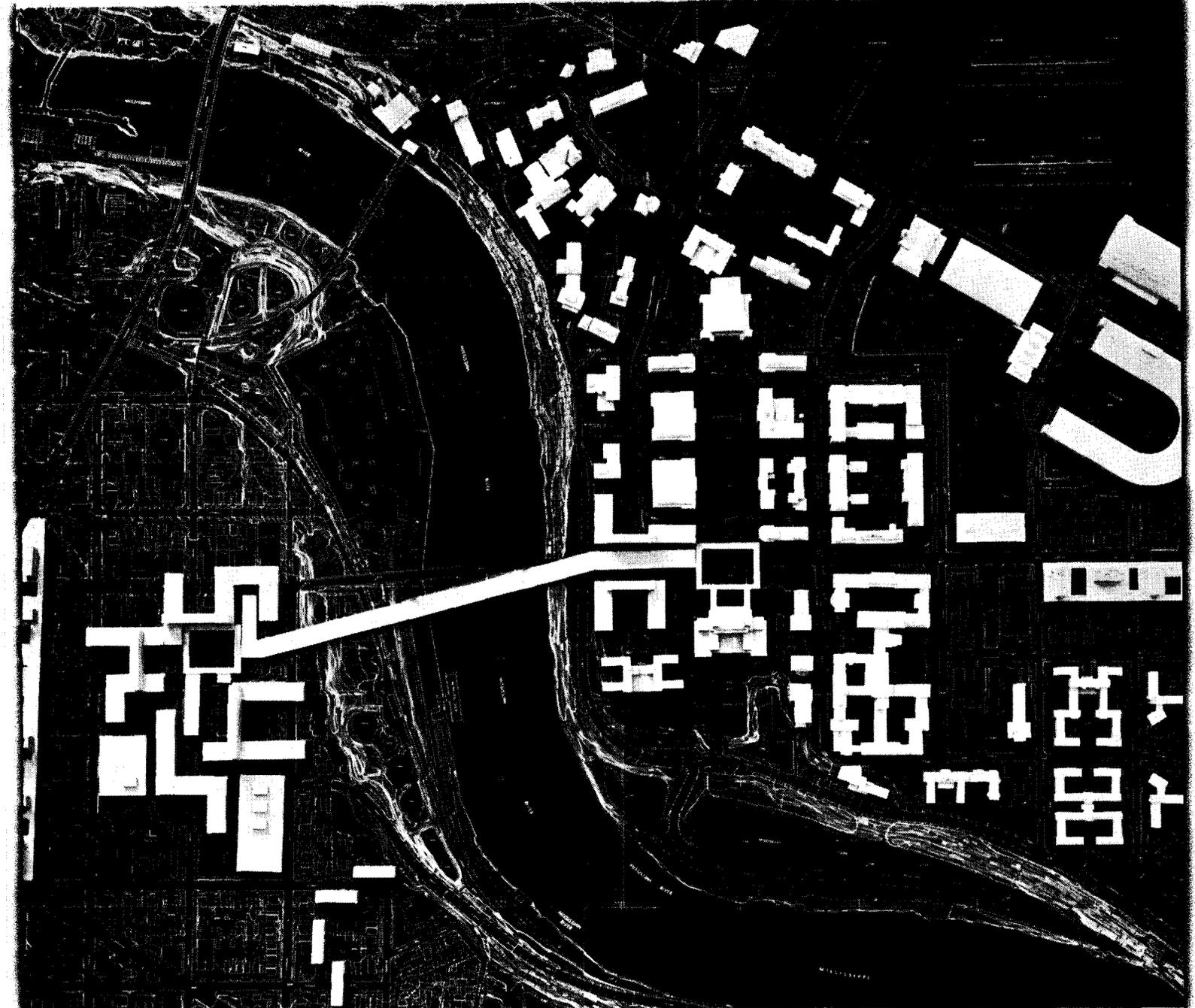
Space and Land Needs

The total campus expansion project will require instructional buildings with a total of 1,867,582 square feet of floor space, an area representing 31 buildings the size of Ford Hall.

The greatest space needs are in SLA and the Institute of Technology. About 850,000 square feet of this total would be included in the West Campus area (about 17 Ford Halls.)

Closely related to building needs are land needs (45 acres for instruction; 5, for residence halls; 5, for physical education, and 50, for parking.)

The excellent groundwork prepared for the next 12 years make the 1970 prospect look bright, inspiring, challenging, and will enable the University to meet its obligations to present and future generations of Minnesota citizens.



This three-dimensional model placed on a blueprint of the area shows how the Minneapolis Campus may look in 1970.

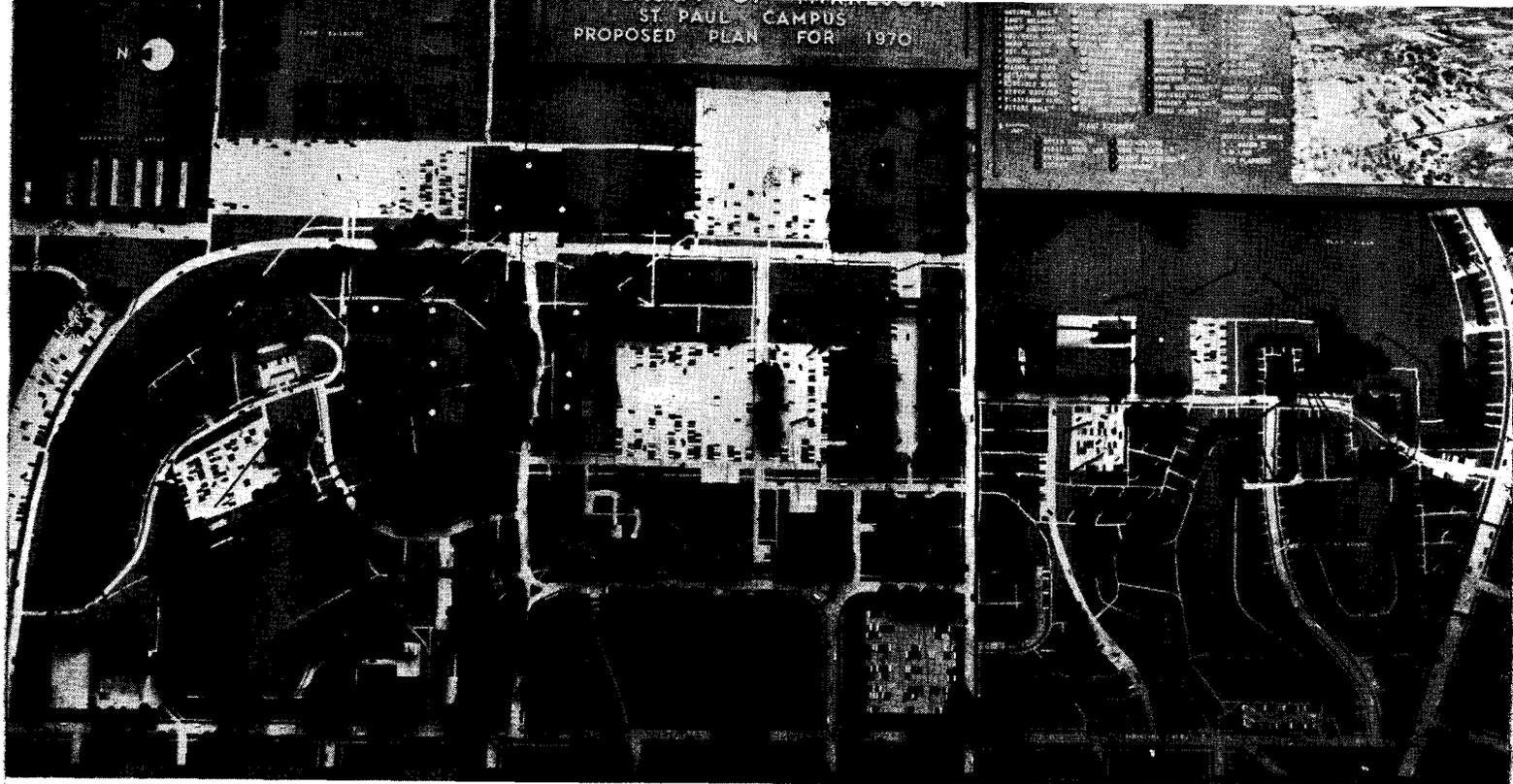
Unique Bridge To Unite Two Campus Areas

SPANNING the Mississippi and joining the East and West Minneapolis Campus areas within the next few years will be a bridge which will likely be unique in construction and design.

It will provide for six lanes of vehicular traffic on its lower level and for pedestrian traffic on its enclosed upper level. The photograph of the model of this new campus area shows at what point the bridge may possibly cross

the river. SLA units would be located at either end, with the Departments of Astronomy, Botany, Geology, Music, Mathematics, Zoology, and the Library School probably on the East Campus.

Staff members of 1970 may find the General College and the School of Business Administration concentrated on the west bank. Exact style of the buildings and the bridge is as yet undetermined.



Building Activity on the St. Paul and Duluth Campuses In

THIRTEEN new buildings spread over a greater area than the present St. Paul Campus are in store for an expected total of 3,587 students by 1970.

The St. Paul Campus Planning Committee includes Harold Macy, dean of the Institute of Agriculture, Theodore H. Fenske, associate dean, and A. A. Dowell, assistant dean. Development is well underway with six new buildings and new heating tunnels already under construction.

Although the problem of a vast increase in enrollment is not as pressing for the St. Paul area as for the Minneapolis Campus, it will be necessary to provide space in new buildings to replace about 20 old and obsolete structures. These have outlived their usefulness, and the cost of rehabilitating or remodeling them would be much too high.

Additional space is also required for an enrollment increase in both the undergraduate and graduate divisions, for research facilities, public

service activities, and for necessary service buildings.

Major farm operations gradually will be moved from the St. Paul Campus to the Rosemount Research Center.

The St. Paul Campus of 1970 has been planned so that buildings and other facilities are arranged in six general groups.

Within these groups, it is likely that the following new facilities will be constructed.

1. *Plant Sciences*: New buildings for Entomology and Economic Zoology, Horticulture, and Plant Science Research, and additional research greenhouses for Agronomy and Plant Genetics, Plant Pathology, Soils, Agricultural Botany, and Horticulture. There will also be an addition to the Forest Products Laboratory.

2. *Animal Sciences*: A Meats Laboratory, a Livestock Pavillion, an Animal Husbandry Nutrition Laboratory, an Animal Husbandry Field Laboratory, a Poultry Research Build-

ing, and a Central Feed Handling and Storage Building.

3. *Veterinary Medicine*: Completion of and additions to the permanent basic facilities for teaching, research, and service.

4. *The Central Area*: A classroom and office building for Agricultural Economics, Rural Sociology, Agricultural Education, and possibly Rhetoric; The Earle Brown Short Course Center; rehabilitation of the old section of the building and construction of a second unit of the new section for Home Economics; Home Management Houses, and additions to Agricultural Biochemistry and Physical Training facilities.

5. *Dormitory and Food Services*: Dormitories for single men and women, married student housing, and a third floor addition to the Food Service facility.

6. *Farm and Service Buildings*: A Farm Shop and Garage, Physical Plant Shops and Service Building, additional streets, and parking areas.

Pictured above: The total area of the proposed St. Paul Campus in 1970 will be about 700 acres. Approximately 222 acres will comprise the University Golf Course and the University Grove housing area; 180 acres will be occupied by present buildings or are already set aside for buildings planned to 1970, and 300 acres will be devoted to experimental plots or "outdoor laboratories."

AN EXPANDED DULUTH Campus, which can accommodate 4,000 students by 1970, is being developed on a 196-acre tract of land in the eastern section of the city.

About 160 acres of this total were presented to the University by a group of St. Louis County citizens in 1948, under the leadership of Regent Richard L. Griggs.

The first building constructed on the new or "upper" campus was a \$1,000,000 science structure which includes a 400-seat auditorium. Some \$7,500,000 in additional construction and development of various academic and auxiliary facilities has followed.

Gradually, administrative and educational operations are being shifted to the upper campus from the original 10-acre lower campus which accommodated the Duluth State Teachers College, the predecessor of UMD.

With a Science group, a Library, Dormitories, the

Physical Education Building, Air Force ROTC Headquarters, and Kirby Student Center now in use, about 50 per cent of the present Duluth Campus operation is being conducted on the upper campus.

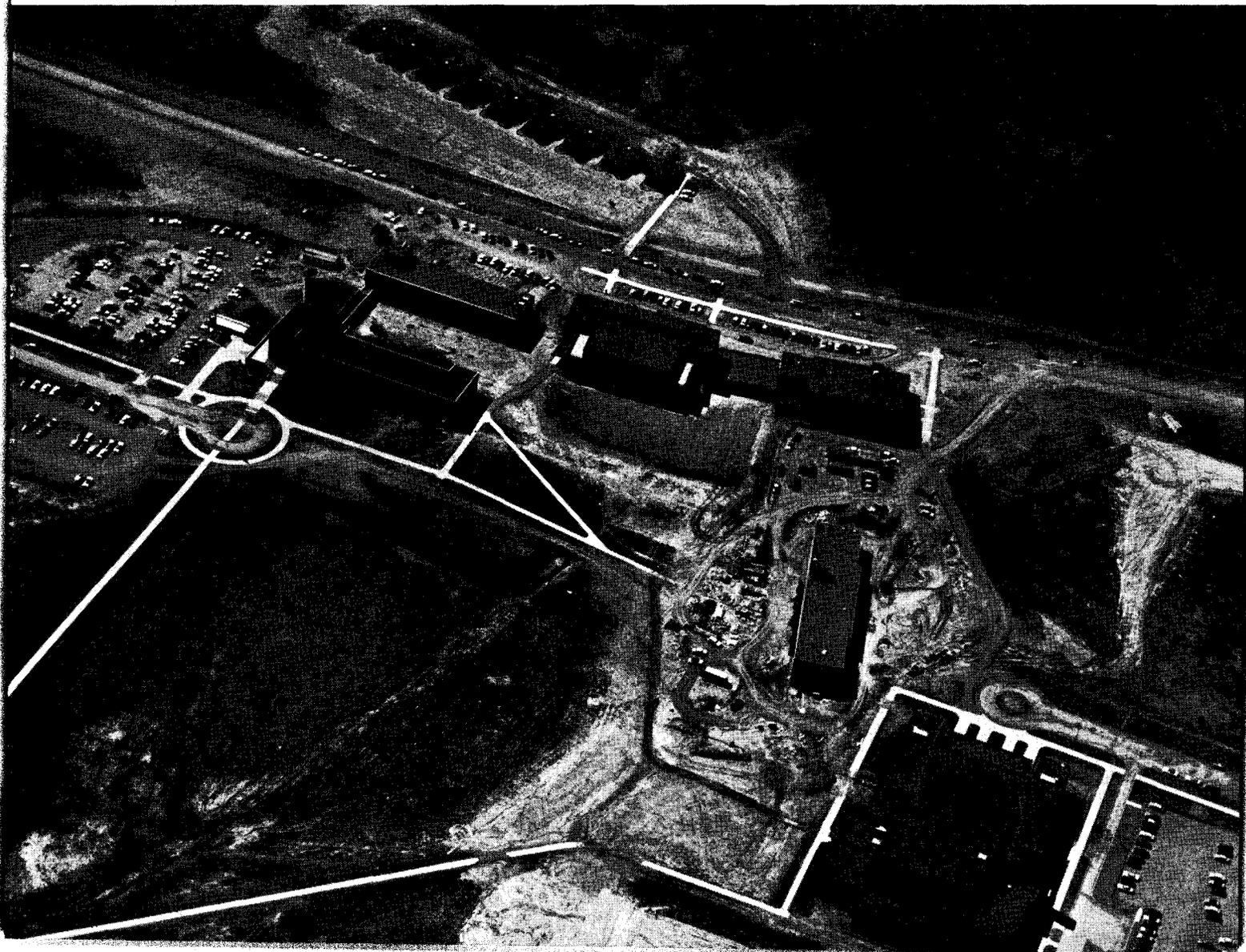
Emphasis to date has been upon classroom and student personnel facilities.

It is estimated that about \$15,000,000 will be needed to complete the following scheduled items:

Administration facilities, Campus landscaping, expansion of the Central Heating Plant, Shops, Dormitories, an Education and Psychology Building, a Field House with ice hockey facilities, the Health Service, Pedestrian and Utilities Tunnels, a Home Economics Building, an Industrial Education Building, a Laboratory School, Library expansion, an Auditorium, a Science addition, an Observatory and Recreation area development, a Stadium, and a Theater-Recital Hall.

Below: Aerial view of a portion of the "upper" Duluth Campus, a 196-acre tract that assures ample expansion space. The gear-toothed structure at upper center of photo is a row of dormitories. Other buildings, clock-wise, are Science, Science Addition, Kirby Student Center, Bookstore Annex, Library, Humanities, Physical Education, and Air Force ROTC Headquarters. Also under construction is the new Tweed Memorial Gallery adjacent to the Humanities Building.

ates that Extensive Expansion Plans Are Now Underway



Mathematics Plays Vital Role at University



Pictured above are IT Mathematicians Frank Polansky, Johannes Nitsche, James Serrin, and Eugenio Calabi.

$$(1-z) \prod_{\nu=1}^{\infty} \left(1 - \frac{q^{\nu}}{z}\right) (1-q^{\nu}) (1-q^{\nu}z) = \sum_{\mu=-\infty}^{\infty} (-1)^{\mu} q^{\frac{\mu(\mu-1)}{2}} z^{\mu}$$

$$\prod_{\nu=1}^{\infty} (1-q^{\nu}) = \sum_{\mu=-\infty}^{\infty} (-1)^{\mu} q^{\frac{\mu(3\mu-1)}{2}}$$

PART II

Equations Are Exciting to IT Mathematicians

ALTHOUGH they have been steadily and quietly at work in their field for many years, mathematicians at the University now find themselves much sought-after in these days of advanced industrial technology.

Perhaps a bit amused by the sudden burst of publicity in their field, members of the Mathematics Department of the Institute of Technology are actually extremely gratified and delighted at the growing public awareness of its importance.

It has long been recognized that mathematics, both pure and applied, plays a vital role as one of the foundations of modern science. Under the leadership of Dean Athelstan F. Spilhaus, this idea has been a guiding principle of the Institute of Technology.

Stefan E. Warschawski, head of the IT Mathematics Department, explains

that his department handles more than one-half of the graduate and undergraduate mathematics enrollment at the University. Preserving the close tie-in between mathematics and other sciences, the Department provides instruction to all students in the Institute of Technology (including all engineering students, plus a large group in Physics, Chemistry, Geophysics, and Mining and Metallurgy).

Members of the department also take seriously the role of a state university in providing needed services to the community. Many persons in business and industry throughout the area come in for further training in mathematics. Especially popular with this group are the various specialized courses, such as those concerned with modern high-speed computers and numerical analysis.

Mathematics for University Students

Prospective mathematics majors in the Institute of Technology face a five-year curriculum strong on required courses. "The purpose of our undergraduate curriculum," explains Professor Warschawski, "is to prepare students for positions in industry and for graduate work in mathematics."

Within the past few years, there have been interesting experiments designed to provide increased opportunities for more gifted students. One of the most successful has been the honor sections in calculus and differential equations which cover more advanced and more difficult material than the regular course.

Mathematics for Younger Students

There is a great deal of interest

The Minnesotan

among the various members of the Department in contributing to the improvement of secondary school mathematics. This work at the secondary school level aids in improving the caliber of students who enter IT.

A course is now given in cooperation with the Minneapolis Board of Education to a selected group of 70 high school students by Professor Arthur N. Milgram and Assistant Professor Warren B. Stenberg. "This is the second year the course is being offered," explains Professor Milgram, "and we feel that it helps to point the way for an accelerated program in mathematics in the high schools."

A series of lectures designed to stimulate interest in mathematics among young people have been given by Professor Paul C. Rosenbloom and Associate Professor Eugenio Calabi. Professor Rosenbloom has recently received considerable publicity for his attempts to discover mathematical talent in the earlier years—among fifth and sixth graders, for example.

The Computing Center

Of particular interest these days is the Computing Center started in the Institute of Technology in 1950. It is now located in the Mathematics Department and is under the direction of Associate Professor Marvin Stein.

At the request of the IT Mathemat-

ics Department, the National Science Foundation recently awarded the University a grant of \$100,000 as a partial contribution toward the acquisition of a large, high-speed digital computer.

This sum, together with other funds contributed by other sources, has enabled the University to install such a computer, and it is hoped it will be in operation in April of this year. The Computing Center has now become an all-University facility, used by almost all of the colleges, and particularly by individuals and groups in the fields of engineering, chemistry, and statistics.

Varied Research Activities

Modern mathematics is a highly complex science with many different branches and fields, and, as in many other sciences, a great deal of specialization has taken place.

The interests of the members of the IT Mathematics Department vary from the abstract realms of mathematical logic to fields in applied mathematics, such as computing machines and statistics.

Partial Differential Equations

A number of individuals work in the theory of partial differential equations. "Department research in this field," explains Professor Warschaw-



The camera caught Chih-yi Wang and Edward Loye in front of the entrance to the IT Mathematics Department.

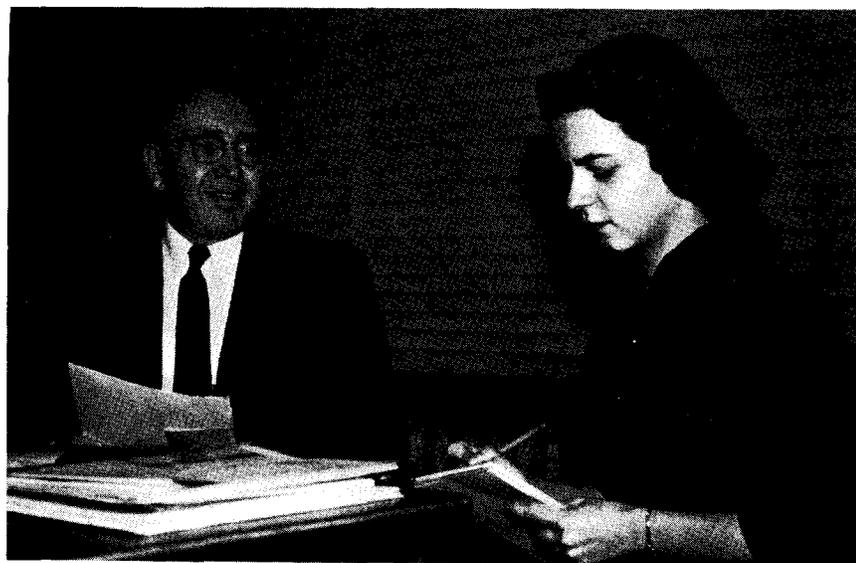
ski, "ranks among the outstanding work being done in the entire country."

The field of partial differential equations has been at the center of mathematical attention for almost two centuries because of its fundamental importance in physics and other sciences. Such diverse phenomena as the flight of an airplane, a radio wave, the picture on a television screen, or the flow of heat, depend for their analysis upon the results of the theory of partial differential equations.

Members of the department who are active in this field are Professors Milgram and Rosenbloom, Associate Professors Watson B. Fulks, Johannes Nitsche, and James B. Serrin, and Instructors Donald G. Aronson and Norman G. Meyers.

Another important field of research is the theory of ordinary differential equations. This theory is applied, for example, in the study of the motion of planets and rockets, and in the analysis of various sorts of control devices.

Working in this area are Professor Hugh L. Turriffin and Assistant Professor Lawrence Markus. Active in the study of differential geometry



Stefan E. Warschawski, head of the department, dictates a letter to his secretary, Eleanor Raske.



Marvin Stein and David Pope are pictured with the high-speed digital computer which will be installed at the University in a few weeks.



A mathematics student, pictured second from left, gets some helpful advice from staff members Leon W. Green, Paul C. Rosenbloom, S. N. Roy (standing), and George U. Brauer.

and the theory of manifolds, which is important, for example, in the theory of relativity, are Associate Professor Calabi and Assistant Professor Leon Green.

Other Research Areas

Still other vital research areas include the study of complex variables. Here, Professors Warschawski and Rosenbloom and Assistant Professor Edgar Reich are active. Associate Professor Hidehiko Yamabe has done significant work with topological groups, while Professors Hugh B. Wilcox and Fulton Koehler are interested in the study of analytical mechanics.

Pursuing the study of numerical analysis are Professor Koehler, Associate Professor Marvin L. Stein, and Assistant Professors William D. Munro and David A. Pope. Active in

the field of statistics are Visiting Professor S. N. Roy and Assistant Professors Bernard W. Lindgren and Reich.

Also participating in these and other research activities are Assistant Professor Frank J. Polansky and Instructors George U. Brauer and Chih-yi Wang.

Helping to produce a smoothly-running organization is Professor Edward L. Loye who is in charge of registration, class scheduling, and liaison with the General Extension Division.

Department Recognition

The high quality of the research activities of the IT Mathematics Department has been shown on the many occasions its members have received awards and invitations to attend national conferences as principal

speakers. These conferences, sponsored by such governmental agencies as the National Science Foundation or by the Institute for Advanced Study at Princeton, are highly specialized symposia in the various fields of mathematics. One of the most outstanding awards granted to a department member was the Frechet Prize presented to Professor Rosenbloom by the French Mathematical Society in 1950.

Also, many members of the Department are currently engaged in research projects sponsored by various government agencies.

The spirit of the IT Mathematics Department is characterized by its youthful dynamism.

Its continual growth represents a response to the ever-increasing awareness of and the need for excellent mathematicians in our society.

IT Mathematics Department staff members in conference are, clockwise: Lawrence Markus, Arthur Milgram, Hugh Wilcox, Hugh Turrittin, James Thompson, Bernard Lindgren, Edgar Reich, Watson Fulks, Warren Stenberg, Fulton Koehler, Hidehiko Yamabe, and Donald Aronson.



Have You Heard?

"Sick Leave" Pay Now Deductible

All staff members who receive wage continuation payments for absence from work caused by illness or injury are entitled to deduct these payments from "gross income" on both federal and state income tax returns. For a complete explanation of this ruling, turn to the Official Daily Bulletin column of the January 24, 1958, *Minnesota Daily*.

Addresses AAUP Meeting

• John G. Turnbull, professor of economics, spoke on "Fringe Items for Faculty Members" at a recent meeting of the Minnesota Chapter of the American Association of University Professors.

Education Professor Honored

• Dora V. Smith, professor of education, received the W. Wilbur Hatfield award "for outstanding service in the field of English" at a recent convention of the National Council of Teachers of English held in Minneapolis.

A scholarship fund for high school seniors interested in becoming teachers of language arts has been established and named in honor of Professor Smith.

Business School Professors Attend Meetings

• A group of faculty members from the School of Business Administration recently attended a series of management and economic meetings in Philadelphia. They are: Robert J. Holloway, chairman of the Department of Business Administration; Albert K. Wickesberg, associate professor of business administration; Walter W. Heller, chairman of the Department of Economics; Leonid Hurwicz, Edmund A. Nightingale, Ben B. Sutton, and Francis M. Boddy, all professors of economics; John S. Chipman and C. Arthur Williams, Jr., associate professors of economics; John H. Kareken and E. Scott Maynes, assistant professors; Maurice McManus, lecturer in economics, and John J. Delehanty and James P. Quirk, instructors in economics.

Panel Appears Before Citizens' Committee

• Six College of Education staff members appeared on a panel on "Why Train Teachers?" at a recent meeting of the Minnesota Citizens' Committee on Public Education. Walter W. Cook, dean of the College of Education, presided. Speakers included William H. Edson, director of the Student Personnel Office, and Professors Dora V. Smith, Guy L. Bond, and Robert H. Beck, and Associate Dean Marcia Edwards.

February, 1958

History Professor Addresses Group

• James F. Maclear, associate professor of history at UMD, spoke on "Changing Views of Key Eras in History" at a recent meeting of the Duluth Branch of the American Association of University Professors.

Receive Regents' Scholarships

• The following staff members have received Regents' Scholarships for winter quarter:

Jane S. Bardon, statistician, Laboratory of Physiological Hygiene; David J. Berg, senior accountant, Office of the Comptroller; David E. Boobar, senior tabulating equipment supervisor, Office of the Comptroller; Roland H. Daugherty, associate scientist, Aeronautical Engineering; Delores E. Dickinson, transcribing machine operator, Veterans' Counseling Center; Alden E. Domning, senior general mechanic, Agricultural Engineering; Marion B. Erickson, secretary, Cloquet Experimental Forest; Archie D. Glaser, junior engineer, Physical Plant, and Joan L. Halvorson, head nurse, University Hospitals.

Other recipients are Luther Hintz, engineer assistant, Mechanics and Materials; Hildegard Hof, junior scientist, Physiology; Kathleen E. Jongedyk, junior scientist, Radiation Therapy Research; Victoria Kennedy, secretary, Mechanical Engineering; Howard I. Kimball, senior farm laborer, Northeast Experiment Station; Alton L. Kollman, manager of Coffey Hall Bookstore; Maxine A. Larson, editorial assistant, St. Paul Campus Information Service; Mary E. Lennan, general staff nurse, University Hospitals; Joseph L. Leong, junior scientist, Pathology; Lester Mattison, librarian, University Library, and Yvonne Ottem, general staff nurse, University Hospitals.

Completing the winter quarter group are Leonore Sausser, senior laboratory technician, Anatomy; Mary A. Simonds, senior laboratory technician, Physiology; Kathryn L. Smith, laboratory technologist, Veterinary Medicine; Gary E. Spalding, senior laboratory technician, Soils; Eleanor M. Steele, psychometric assistant, Student Counseling Bureau, and Donald R. Torgeron, assistant engineer, Physical Plant.

Farm and Home Week

• J. O. Christianson, superintendent of the School of Agriculture and director of agricultural short courses, was chairman of the 56th annual Farm and Home Week held last month on the St. Paul Campus. Athelstan Spilhaus, dean of the Institute of Technology, and Theodore H. Fenske, associate dean of the Institute of Agriculture, spoke during a series of noon convocations held in Coffey Hall Auditorium.

SERA Board Election

• University civil service staff members recently received ballots to elect two candidates to the board of directors of the State Employees Retirement Association. Clarence A. Smith, purchasing agent, Office of the Comptroller, is presently a member of the board.

Presents Entomological Papers

• Huai C. Chiang, associate professor of biology at UMD, presented two papers at the recent annual meeting of the Entomological Society of America. The meeting was held in Memphis, Tennessee, in December.

Physicists Visit Cuba

• Edward J. Ney, professor of physics, traveled to Cuba recently for a series of atmospheric experiments to study radiation and temperature at high altitudes. Also in the group were Rudolph Tjorness, physics research shop foreman, and two graduate students.

Speaks at Oak Ridge

• James C. Nichol, associate professor of chemistry at UMD, spoke to the physiology section of the Oak Ridge National Laboratory, Oak Ridge, Tennessee, in December.

Celebrates Anniversary

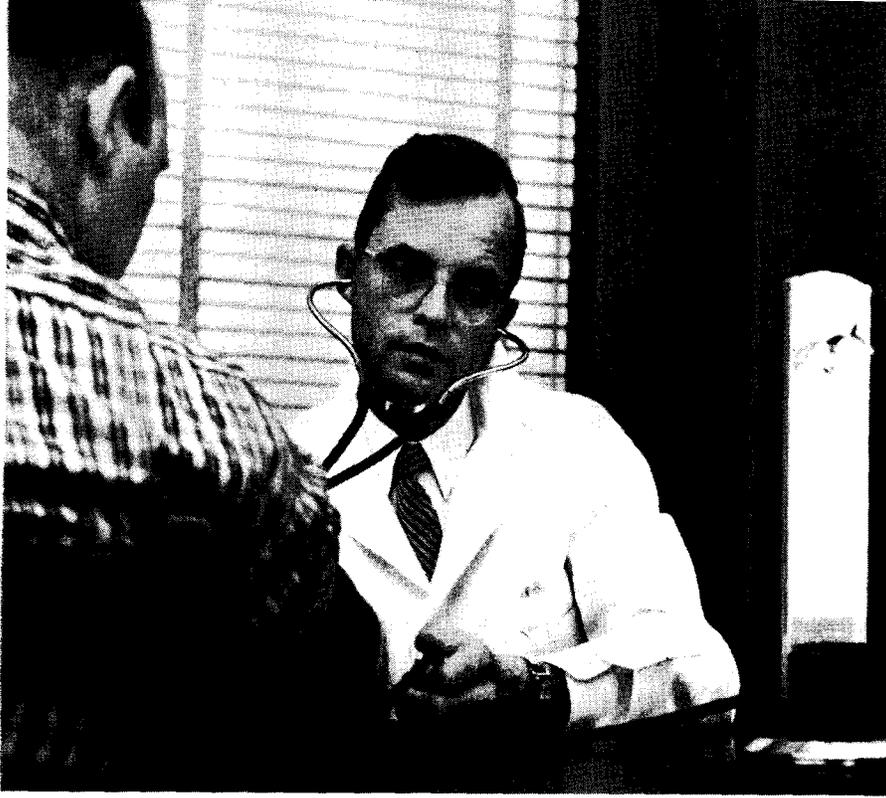
• The School of Social Work will celebrate its fortieth anniversary at a dinner at Coffman Memorial Union February 25. Theodore C. Blegen, dean of the Graduate School, will be the principal speaker. John C. Kidneigh, director of the School, is chairman of the dinner, with Anne W. Oren, assistant professor of social work, in charge of arrangements.

Attends Chemistry Session

• Francis B. Moore, head of the UMD Department of Chemistry, attended a recent meeting of the Association of Analytical Chemists. The sessions were held in Madison, Wisconsin.

Participate in Physical Education Conference

• Ralph A. Piper, professor of physical education, and Richard J. Donnelly, associate professor of physical education, attended the annual College Physical Education Association meeting last month in Santa Monica, California. Professor Piper presented an illustrated talk on physical education in Burma.



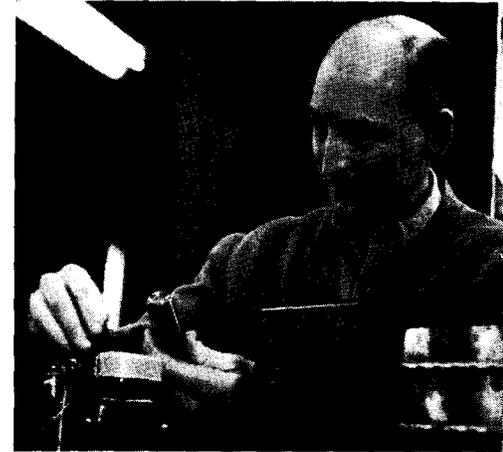
Dr. John Dwyer

Dr. Dwyer is clinic physician for the Duluth Campus Health Service. He received his medical education at the University and has practiced in Duluth since 1951. When he can work in some free time, he likes to fish in the Northern Minnesota lakes. Another hobby is photography, and, of course, the three Dwyer sons, Paul, John, and Brian.



Evelyn Crisp

An expert in the fields of retailing and selling, Mrs. Crisp is an assistant professor in the General College. In addition to teaching a two-year sequence course in Retailing and Selling, she is adviser to the University Retailing Club in which graduates of her course work with her students.



James Gallison

The satisfactory functioning of University "intercoms" is a credit to electrician James Gallison who not only repairs but installs this type of equipment on both the Minneapolis and St. Paul campuses. Mr. Gallison has been at the University for 12 years.

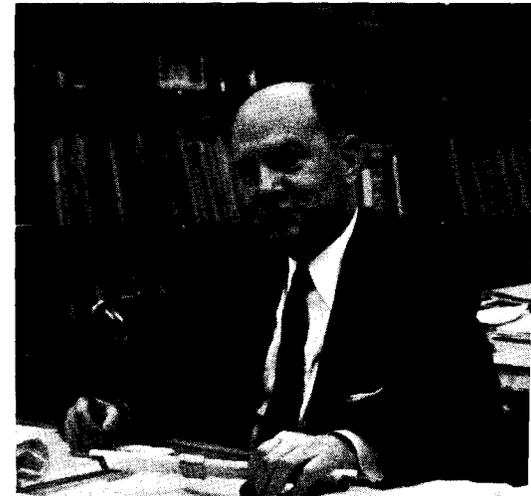
**Have
You
Met?**

Evalyn Fitzpatrick

As office supervisor for the Agricultural Extension Service, Mrs. Fitzpatrick plays an important role in the smooth operation of an organization which includes 68 staff members on the St. Paul Campus, and nearly 250 Extension agents in Minnesota counties.

Lorenz Straub

Head of civil engineering and director of the St. Anthony Falls Hydraulic Laboratory at the University, Lorenz Straub has been selected to receive the American Society of Civil Engineers research prize. The prize will be granted this month at the society's annual convention in Chicago.



THE QUESTION IS:

What Is the Present Status of the Retirement-Investment Association?

LOOKING AHEAD to retirement years can be a pleasant prospect—days of leisure, travel, study, and relaxation—but only if you have adequate financial security.

The University's Retirement Plan is intended to help staff members achieve this security, and it has proved to be a boon to many who are currently enjoying a comfortable, satisfactory retirement.

Unfortunately, the intricacies of economics, the uncertain value of the dollar, and alternating periods of inflation and deflation, can play havoc with the most secure type of fixed pension program. Most experts now advise a supplementary form of investment-saving.

Founding of Investment Association

Several alert staff members saw the possibility of forming an investment association which would help protect retiring staff members whether the value of the dollar went up or down.

These men (Dr. Irvine McQuarrie, professor emeritus of pediatrics, Oscar B. Jesness, professor emeritus of agricultural economics, and Dr. Leo G. Rigler, former head of the Department of Radiology) were responsible for drawing up the articles of association for the University Retirement-Investment Association, which is now in its fifth year of operation.

What Is the Association?

The completely voluntary association is a private activity, not University-sponsored, and participation is limited to full-time staff members.

Since the second year of its existence, the membership of the group has doubled (from 200 to 400), and the investment total has quadrupled (from \$120,000 to over \$400,000).

The group is governed by a board of directors which includes: J. W. Buchta, associate dean of SLA, president; Louise A. Stedman, director of the School of Home Economics, vice-president; John C. Kidneigh, director of the School of Social Work, secretary-treasurer, and William F. Geddes, head of the Department of Agricultural Biochemistry, Robert C. McClure, professor of law, and Donald G. Paterson, professor of psychology, directors.

How To Join

A full-time staff member interested in joining the Association must fill out a membership application and agree to pay the \$5.00 annual dues plus make the \$200 annual minimum deposit. Information may be secured

by addressing a request for information to John C. Kidneigh, 400-D Ford Hall, Minneapolis Campus.

How the Group Operates

Investors Diversified Services of Minneapolis has been engaged to handle the investment funds.

The general aim of the Association is for the individual members not to cease membership until they reach retirement age.

Each member gets periodic statements of the number of shares he owns in the Association, but he does not necessarily know in which specific companies he has invested. This allows the IDS investment experts the freedom to sell daily without consulting the individual members.

Advantages of Membership

University participants in the Investment Association have discovered various advantages in investing their money in this fashion. First of all, the regular, systematic deposit of funds stimulates consistent saving. Secondly, most individuals with small amounts to invest feel they cannot use the services of a broker. With the Association, the money is invested by experts in a balanced and diversified group of securities, spreading the risk, and relieving the individual investor of difficult and time-consuming decisions.

A third advantage is that service costs are considerably reduced through group participation. An individual investor might have to pay a 7½% "loading charge" for an investment of \$15,000, but for a group with a large purchasing power, the charge may be as low as 3½%.

Future of Association

Professor Kidneigh, the present secretary-treasurer of the group, firmly believes the Association will grow considerably within the next few years.

He makes the prediction that within a reasonable period of time, the total capital of the group will reach the \$1 million mark. If this should happen, the Association would be operating at the greatest benefit in terms of cost.

As knowledge and understanding of the plan grow, and as staff members become more investment-conscious, the size of the Association will doubtless increase.

A fair indication of the trend toward increased participation was shown last spring when staff members were sent a circular explaining the Association. Ninety per cent of those inquiring for further information joined the group.

University of Minnesota Calendar of Events

FEBRUARY, 1958

MINNEAPOLIS SYMPHONY CONCERTS

Subscription Series

February 7 — Max Rudolf, guest conductor
(Northrop Auditorium, 8:30 p.m. Single tickets from \$1.75 to \$4.00. Reservations may be made at 106 Northrop or by phoning University extension 6225.)†

Sunday Twilight Concerts

February 9 — Strauss' *Die Fledermaus*
Concert version with chorus and Paul Knowles, tenor soloist.

DEPARTMENT OF CONCERTS AND LECTURES

University Artists Course Masterpiece Series

February 4 — Emil Gilels, pianist
February 12 — Lucine Amara, Metropolitan Opera soprano
(Northrop Auditorium, 8:30 p.m. Single tickets from \$1.00 to \$3.00. Reservations may be made at 105 Northrop.)†

University Artists Course Special Concerts

February 15 — Parade of Quartets — Barbershop Quartets and Chorus
(Northrop Auditorium, 8:00 p.m. Single tickets priced from \$1.50 to \$3.00. Reservations may be made at 105 Northrop.)†
February 24 — Mantovani and his New Music
(Northrop Auditorium, 8:30 p.m. Single tickets priced from \$1.00 to \$3.00. Reservations may be made at 105 Northrop.)†

Thursday Morning Convocations

February 6 — "Problems of Music Interpretation", a lecture by Max Rudolf, assistant manager of the Metropolitan Opera
February 13 — "The Red Sea", a film narrated by Paul Cherney
February 20 — "A Mayor's Tale", a lecture by Dr. Charlotte Whitton, mayor of Ottawa, Canada
February 27 — Charter Day Convocation

UNIVERSITY THEATER PERFORMANCES

Regular Performances

February 6-8, 11-16 — *The Glass Menagerie* by Tennessee Williams
February 27-March 1 — *The Rivals* by Richard Sheridan
(Scott Hall Auditorium. Performances at 8:30 p.m. except February 11 and 16 which are matinees only at 3:30 p.m. Single tickets at \$1.25 may be purchased at the Theater Box Office, 18 Scott Hall.)†

Special Performances

February 12-23 — *The Magic Flute* by Wolfgang Mozart
(Arena Theater, Shevlin Hall. Performances at 8:30 p.m.
February 19-22. There will also be a matinee performance February 20 at 3:30 p.m. and a matinee only on February 23 at 3:30 p.m.)
February 19-23 — *Charles XII* by August Strindberg
(Studio Theater, Scott Hall. Performances at 8:30 p.m.
February 19-22. There will also be a matinee performance February 21 at 3:30 p.m. and a matinee only on February 23 at 3:30 p.m.)
(Tickets for both productions are \$1.25, on sale only at the Theater Box Office, 18 Scott Hall.)

SIGNIFICANT UNIVERSITY TELECASTS

(Seen over Channel 2, KTCA-TV, the station of the Twin City Area Educational Television Corporation.)
Monday, 9:00 p.m. — *At Home With Music*, featuring the faculty of the Department of Music.
9:30 p.m. — *Shakespeare* with Robert E. Moore, associate professor of English.

Tuesday, 9:00 p.m. — *Asia in World Politics* with Werner Levi, professor of political science.

9:30 p.m. — *Primitive Religion* with Robert F. Spencer, professor of anthropology.

Wednesday, 9:00 p.m. — *American Folk Songs* with Gene Blustein, instructor in English.

9:30 p.m. — *Shakespeare* with Robert E. Moore.

Thursday, 9:00 p.m. — *TV Journal* with Robert Lindsay, instructor in journalism.

9:30 p.m. — *Town and Country* with Raymond Wolf, assistant professor, Agricultural Extension Service.

Friday, 9:00 p.m. — *Your State Parks* with J. Merle Harris, associate professor in General College.

9:30 p.m. — *Speaking of the Classics* with Norman J. DeWitt, chairman of the Department of Classics.

ATHLETIC DEPARTMENT EVENTS

Home Basketball Games

February 3 — University of Indiana
February 10 — University of Michigan
February 15 — Northwestern University
February 24 — University of Wisconsin
(Williams Arena, 8:00 p.m. Mail order sale for single game reserved tickets at \$2.00 closes one week prior to each game. Over-the-counter sale of unsold tickets begins at 108 Cooke Hall on the Monday before each game. General admission on sale at gate only: \$1.25 for adults, \$1.00 for those under 16.)

Home Hockey Games

February 1 — Denver University
February 7 and 8 — University of Michigan
(Williams Arena, 8:30 p.m. Mail order sale for single game reserved tickets at \$1.75 closes one week prior to each game. Over-the-counter sale of unsold tickets begins at 108 Cooke Hall the Monday before each game. General admission on sale at gate only; \$1.00 for adults; \$.60 for those under 16.)

Track

February 1 — Northwestern University
February 8 — Iowa State College
February 15 — Minnesota Open
February 22 — Northwest Open
(Field House. The February 1 and 8 meets begin at 2:00 p.m.; the two Open meets, at 1:00 p.m. General admission at gate only. Adults, \$.60; children, \$.25.)

Wrestling

February 1 — South Dakota, Carleton, St. Olaf
February 7 — University of Michigan
February 15 — University of Indiana
February 27 — Iowa State College
(Williams Arena. The February 1 and 15 matches, at 2:00 p.m., the February 7 and 27 matches, at 7:30 p.m. General admission at gate; \$.60 for adults; \$.25 for children.)

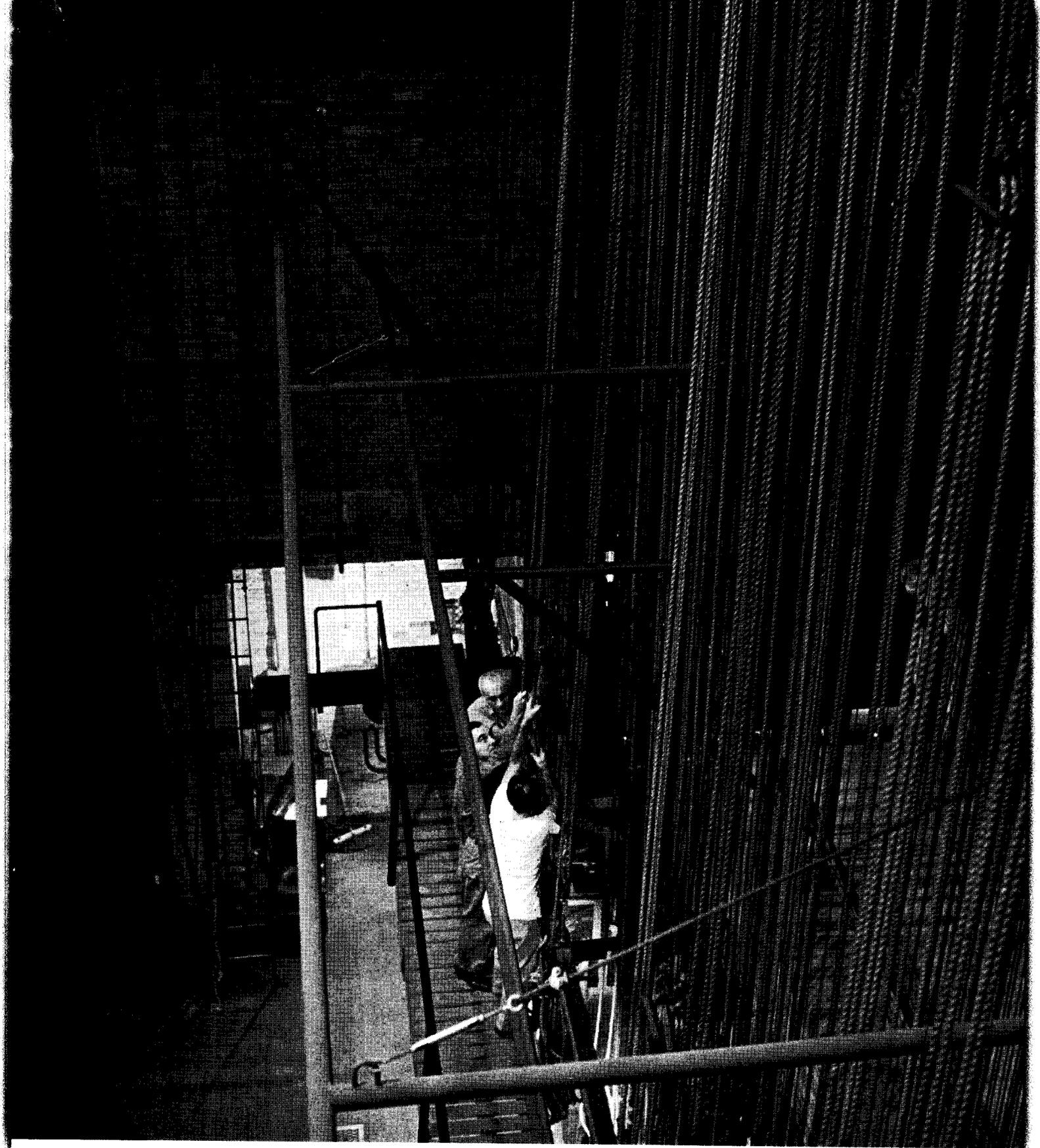
Gymnastics

February 14 — Universities of Iowa and Nebraska
February 15 — Northwest Open Meet
(Cooke Hall. The February 14 meet, at 4:00 p.m., the February 15 meet, all-day. General admission at gate, \$.60 for adults, \$.25 for children.)

Swimming

February 1 — University of Illinois
February 11 — Gustavus Adolphus College
February 15 — Michigan State
(Cooke Hall. The February 1 and 15 meets, at 4:00 p.m., the February 11 meet, at 7:30 p.m. General admission at gate, \$.60 for adults, \$.25 for children.)

†Tickets for these events are also available at the Field Schlick Ticket Office in St. Paul and the Downtown Ticket Office, 188 Northwestern Bank Building in Minneapolis.



THE MINNESOTAN

The University Staff Magazine - *March 1958*

They Made Us Great



President J. L. Morrill accepts a check from VFW cancer chairman Rudy Tersch. Pictured, left to right, are: Joseph W. Bobleter, state VFW commander, Regent Ray J. Quinlivan, President Morrill, Mr. Tersch, and Mrs. Elsie Moberg, state VFW Auxiliary president.

MISSION ACCOMPLISHED; ready for the next attack! These military phases can well apply to the Veterans of Foreign Wars five-year campaign to raise \$300,000 for their Cancer Research Clinical Institute.

These veterans of many battles decided to declare war on one of man's most deadly enemies, and in their first major campaign, that of fund-raising, they accomplished their purpose. On January 9, representatives from the VFW and their Auxiliary presented the sum of \$300,000 to President J. L. Morrill at a meeting of the Board of Regents.

Money-Raising Projects

The sum represents money raised by 42,000 VFW members and 18,000 Auxiliary members in 315 Minnesota posts. The money came from individual donations, plus a number of fund-raising projects like community dances, fishing parties, white elephant, bake, and rummage sales, circuses, greased pig contests, and pancake suppers.

The time and talents of thousands of business and professional men, farmers, housewives, and mechanics alike made these ventures successful, money-making affairs.

Location of Institute

Plans for the institute that this money (plus a \$172,000 grant from the U. S. Government) will build are already on an architect's drawing boards, with ground-breaking scheduled for this spring.

The Institute will be constructed on the corner of Delaware and Harvard Streets, next to the new Minnesota

Masonic Memorial Cancer Hospital. It will be connected by tunnels to other University medical buildings.

Officially named the "Veterans of Foreign Wars Cancer Research Clinical Institute", this center will house 14 investigative laboratories, a small animal research section, a radioactive isotope laboratory unit, a controlled temperature laboratory, a clinical investigative unit, administrative offices, and waiting and conference rooms.

Purpose of Research Center

All aspects of the body functions of cancer patients will be analyzed, allowing researchers to study both the effects of the disease on the body and also body responses to various treatments, according to Dr. Owen Wangenstein, director of the Department of Surgery.

The VFW, under the vigorous leadership of their cancer chairmen, their state commanders, and their Auxiliary presidents, have proved time and time again that they can win difficult campaigns, both on and off the battle field.

Perhaps their latest contribution to the welfare of mankind, their cancer research institute, will find the key to winning the greatest battle any VFW member has ever fought — the battle against cancer.

On the Cover . . .

Photographer Walter O. Zambino demonstrated his agility when he climbed to a perch on a narrow catwalk high above the Northrop Memorial Auditorium stage to shoot this unusual picture of the stage crew hanging a piece of scenery.

For additional pictures and a story on the behind-the-scenes operations at Northrop performances, see pages six and seven.

THE MINNESOTAN

Vol. XI

No. 6

Published by the department of University Relations, 213 Administration Building, University of Minnesota, Minneapolis 14, Minnesota.

William L. Nunn, Director

Ann Tucker Editor
Lynne Iglitzin Associate Editor
Advisory Committee: Members of the University Public Information Council.

The Minnesotan is published monthly from October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2 a year, 25 cents a copy. Copies of this issue are on sale at Coffman Memorial Union Bookstore.

Photographs, unless otherwise credited, were taken by members of the University Photographic Laboratory.

Entered as second-class matter at the post office at Minneapolis, Minnesota.



University High School has been housed in Peik Hall since June, 1953.

Campus High School Is Education Laboratory

University High Celebrates Its Fiftieth Birthday with a Long List of Educational Accomplishments

THIS IS A GOLDEN ANNIVERSARY year for one of the University of Minnesota's most interesting laboratories — University High School.

University High is a laboratory in the truest sense of the word. It has essentially the same relationship to the College of Education as the University Hospitals have to the College of Medical Sciences, for it serves not only as a research and service center, but as an effective facility for both student and internship teaching.

Despite the importance of these several functions, the education provided University High's 460 students constitutes a major purpose of the school, just as the University Hospitals' prime consideration is the quality of care provided patients.

March, 1958

Quality Education

The high quality of education offered U High students is reflected in the records they have achieved in institutions of higher learning. Another good indication of the effectiveness of the high school's curriculum is found in the high percentage of seniors who, in the past two years, have qualified in the preliminary examinations of the National Merit Scholarship program.

Research Function

One distinct benefit to these students is the part University High plays in the field of educational research. As a research center, the school actually translates "findings into practice."

An illustration of this process is the teaching-by-television program operated as a research project with the aid of a Ford Foundation grant. Through this medium of instruction, College of Education students may sit in Burton Hall Auditorium to watch, on 27-inch screens, high school classes actually conducted in Peik Hall.

Another research project which has attracted nationwide attention is the modern language program, including the study of Russian. Some language study is begun in the University Elementary School, under U High supervision, and continued in the junior and senior high.

Service to Educators

Research and service go hand-in-hand, and University High staff members are constantly making themselves and the results of their research work available to educators all over the world. U High hosts thousands of visitors annually; its staff members conduct countless numbers of demonstrations, and conferences, prepare speeches, and participate in educational programs of various types. Re-

cent examples of this service contribution include Miss Emma Birkmaier's participation in a national conference on the Education of the Gifted, and University High Director Robert Keller's appointment as director of research for a Legislative Interim Commission on Higher Education. Director Keller has just returned from the University of Hawaii where he served as Carnegie Visiting Professor.

Student Teaching Facility

Research, service, and quality teaching for its students—all of these important U High functions tell just part of the story.

Like the University Hospitals, this laboratory for education must provide facilities for student teaching and internship experiences. College of Education students, like medical students, must see methods in practice to become truly effective in their chosen profession.

U High Faculty

Regular U High staff members, many of whom are pursuing graduate



University High School Director
Robert J. Keller.

school programs, find that their teaching experience provides an excellent opportunity to put theories into practice. The success of this type of internship experience is reflected in the hundreds of former U High staff members who have become outstanding professors, college presidents, and deans in educational institutions throughout the world. Others have become leaders in professional organizations, consultants to the United States Office of Education, and various state departments of education.

Present members of the U High staff include the following:

Administration: Robert Keller, director; Franklin Thompson, principal; Robert Anderson and Patricia Wikel, assistant principals.

Music: William Bagwell and Margaret Ellefson; *Mathematics:* Donovan Johnson, head; Charles Bastis, Robert Jackson, Betty Kohnen, and James Stochl; *Modern Languages:* Emma Birkmaier, head; Charles Bell, Raymond Miesnieks, and John Sanchez; *Science:* Clarence Boeck, head; Laddie Bicak, Joseph Michel, Roger Olstad, and Louis Walters; *Social Studies:* Edith West, head; William Gardner, Fred Johnson, and Genevieve Zito.

Language Arts: Stanley Kegler, head; Lorraine Sundal, Rosamond Gilbertson, Sheila Johnsgard, Karin Osborne, Mary Saul, and John Sim-

A group of U High Department heads get together for an informal conference. Pictured clockwise are Robert Randleman, Edith West, Willard W. Tennyson, Clarence Boeck, Donovan Johnson, Franklin Thompson (standing), Stanley Kegler, and Emma Birkmaier.



mons; *Unified Arts*: Robert Randleman, head; John O'Leary (who provided the photographs on these pages), Jean Webster, and Stephen Miletich; *Business Education*: Helen Gould; *Physical Education*: Robert O'Neill, head; Frank Huelskamp, and Mary Strever.

Additional Services

Additional student services are provided by the health department which includes Dr. Emma Fronk and Marian McReavy, school physician and nurse; Marion Murra, librarian, Willard W. Tennyson, head, and James Winfrey, counseling; Peter Hansen and Orrin Gould, audio-visual, and closed circuit TV, respectively.

Credit for the smooth functioning of the overall University High program goes to its efficient office staff under the supervision of Edith Nyquist. Included in this group are Arlene Backlund, Mary Des Marais, and Clara Stueve.

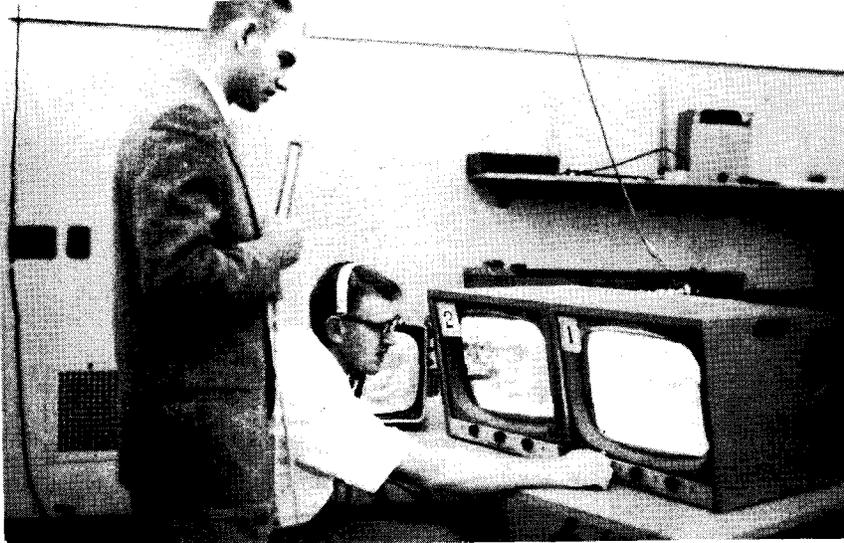
Taking care of the building which houses all of these student, teaching, research, and service activities are: Leslie Stenseth, supervisor, Albert Bentz, Lawrence De Mar, Curtis Leslin, and James Porter. William Carr is the custodian in the Peik Hall Gymnasium building.

Established in 1908

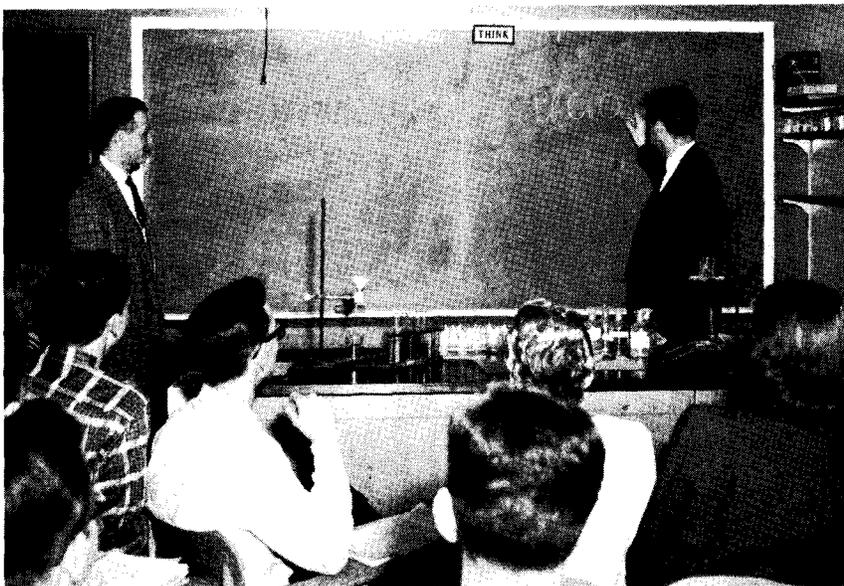
The services provided by University High in its many areas of activity were doubtless just hazy dreams in the minds of the men who founded this laboratory in 1908. The first home of the school was a small structure on the Southeast corner of Northrop Field; in 1914, U High moved to the old School of Mines Building which now houses the Institute of Child Welfare. Since June, 1953, it has been located in functional, attractive Peik Hall.

Over the past 50 years, the institution first established by the Board of Regents as a "training school for prospective teachers" has become an internationally known research and service center, providing the world of education with outstanding teachers, administrators, and professional leaders.

March, 1958



Above: James Stochl, mathematics instructor (standing) and Orrin Gould, who is responsible for the closed-circuit TV teaching project, check on the reception of a mathematics-on-TV course.



Above: Student teacher Robert Petrangelo, right, illustrates a chemical reaction as U High science instructor Joseph Michel looks on.

Below: University High's office staff includes Carla Stueve, foreground, Arlene Backlund (standing), Mary Des Marais, and Edith Nyquist, background.



What Goes on Behind the Asbestos Curtain?

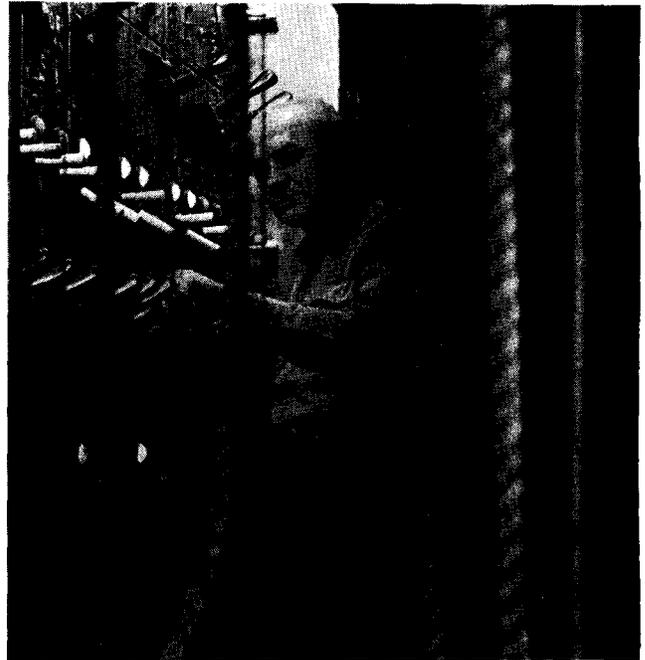
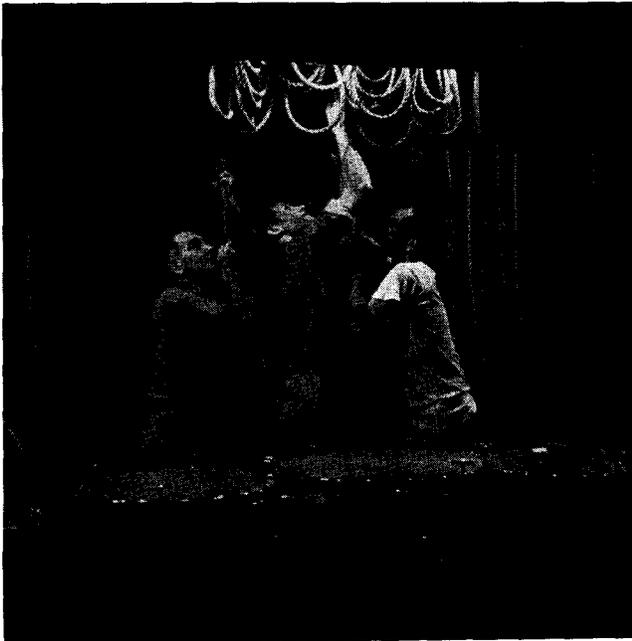
Four-Ton Chandeliers, Flying Ceilings, Sunflower Seeds:
It's All in a Day's Work for Backstage Crew at Northrop

SHOULD YOU EVER happen to wander through the rather mysterious backstage at Northrop Memorial Auditorium on a typical weekday morning, you would find it a crowded place, indeed! You would probably have to thread your way carefully, making sure not to step on an instrument case or collide with a musician intent on hurrying to a symphony rehearsal.

Despite the confusion which invariably accompanies a Northrop rehearsal—whether it is the Minneapolis Symphony, the University Orchestra or Band, or one of the many visiting guest artists—a number of men go about their work, seemingly oblivious to the hubbub which surrounds them.

These individuals make up the Northrop Auditorium back-stage crew. They are completely at home among the high catwalks and countless ropes and often even seem to have a language all their own. It would not be at all unusual for one of them to pass by with the mysti-

Wedged in behind several large tympani, Paul Sanzone, Jerome Hauer, and Joseph Jovanovich, members of the Northrop stage crew, adjust the ropes which control the ceiling of the Minneapolis Symphony Orchestra shell.



Arthur Ernest, stage custodian at Northrop Memorial Auditorium, keeps a close check on an Artists Course performance, as he manipulates the switchboard which controls the stage lighting.

fying remark that he has to go “fly a ceiling down.” This has nothing to do with aeronautics; it refers to the job of installing the ceiling of the Artists Course shell which ordinarily “flies” overhead.

Typical Backstage Day

Any attempt to follow the members of the stage crew through a typical day is likely to leave a spectator almost breathless.

An ordinary day begins with a 9:15 a.m. Minneapolis Symphony Orchestra rehearsal. Long before the musicians assemble, Arthur Ernest, stage custodian at Northrop since 1940, and his co-workers, Paul Sanzone, Jerome Hauer, and Joseph Jovanovich, have set up all chairs, put the platforms in place, and prepared all the necessary

equipment.

Frequently, the orchestra performs works which call for unusual seating arrangements or large numbers of people on stage. For a recent performance of the Berlioz *Requiem*, it took the combined ingenuity of conductor and stage crew to make the stage accommodate the full symphony orchestra, the four bands which were placed on platforms in the four corners of the stage, and the 250 singers — all called for by the composer's score.

The afternoon hours find stage crew members readying the stage and bringing up special equipment for a University Band rehearsal. As soon as this is finished, the stage workers must hurry to begin the lengthy task of preparing for the evening Artists Course performance.

"Flying Ceiling"

To get the four-ton Artists Course shell into place, Mr. Ernest and his crew must first set up its walls. These are usually anchored to the back wall of the symphony shell. Next, the symphony ceiling is flown into the air, and the ceiling of the other backdrop is "flown down."

Whenever these shells are changed, or whenever a particularly big job needs to be done, the regular stage crew is augmented by three other individuals — William Simms, William Conrad, and Peter Oppgard.

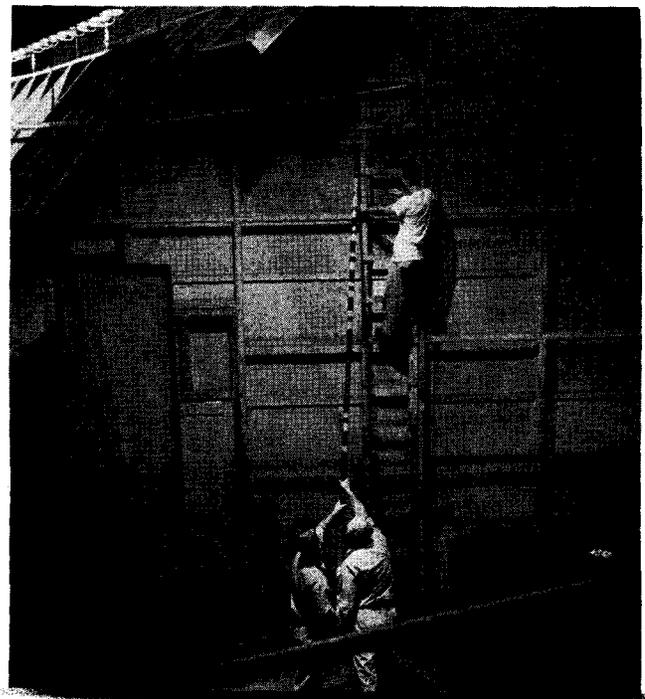
Animals on Stage

Routine backstage activities become secondary whenever the big touring companies such as the Ballet Theater or the Metropolitan Opera come to Minneapolis.

"Life is always exciting when the Met is here," comments Arthur Ernest. "When they performed *La Perichole* last year, I was certainly astonished to see a horse and mule suddenly appear on the stage. I hadn't been prepared for that!"

These were the only animals Mr. Ernest could remember seeing on the stage, although he laughingly recalled

As Paul Sanzone and Arthur Ernest support the symphony shell with a long pole, Joseph Jovanovich tightens some clasps which hold the backdrop securely in place.



that the Metropolitan cast had warned him they were going to bring live elephants for *Aida*; fortunately, he adds, they never did.

The Candy and Peanuts Brigade

The Northrop stage crew is also responsible for the maintenance of the Auditorium. This means a complete vacuuming and cleaning of the thick red carpet before each performance. Not at all surprising was the crew's unanimous verdict that the clean-up job is most difficult after the Minneapolis Symphony Orchestra Young People's Concerts.

On the basis of their experience, all the men agreed that candy, peanuts, and sunflower seeds are the perennial favorites of the school children.

Auditorium "clean-up" is also a big job after University convocations, when bag lunches and milk cartons replace discarded candy wrappers and sunflower seed shells.

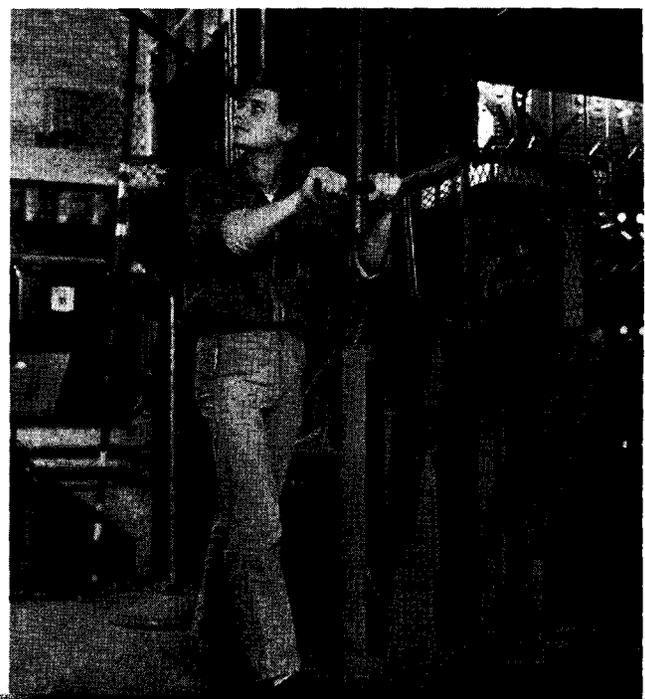
Chandelier Maintenance

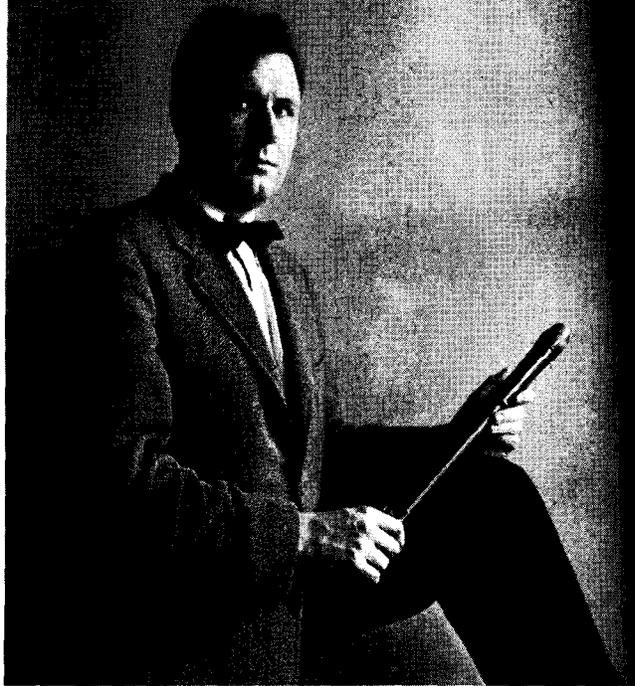
Each fall the stage crew has the huge task of cleaning all chandeliers in the Northrop lobby and auditorium proper. The four smaller fixtures in the lobby, which weight about one-half ton each, present few problems to the agile group, but cleaning the massive four-ton chandelier in the Auditorium is a complicated job involving heavy cables operated by at least four men.

Last year, less than a week after this two-day project was completed, Arthur Ernest and his men were forced to lower the huge fixture and do the job all over again. Apparently, an enthusiastic young concert-goer had discovered that symphony programs make fine airplanes and that the chandelier was an irresistible target.

Animals, airplanes, and flying ceilings — all in a day's work, and proof that the versatile Northrop stage crew is prepared for any eventuality.

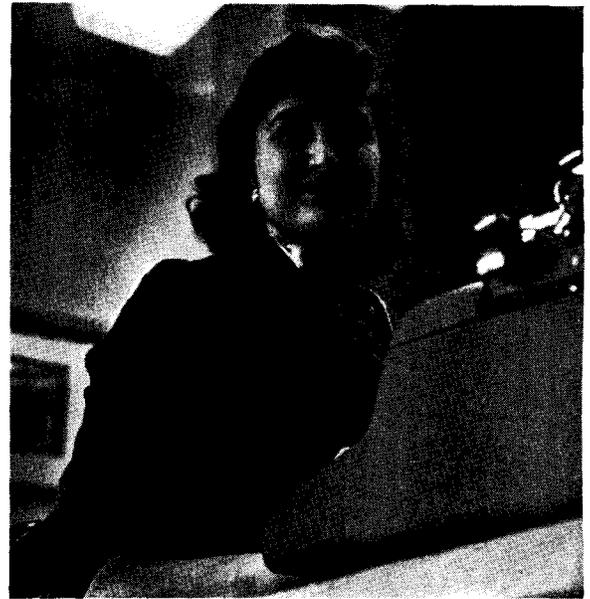
Jerome Hauer watches closely as he operates the winch which lowers the ceiling of the heavy Artists Course shell into place.





George Houle

Mr. Houle, an instructor in music, specializes in the recorder, an ancestor of the present flute. This instrument is currently enjoying a revival among professional as well as amateur musicians.

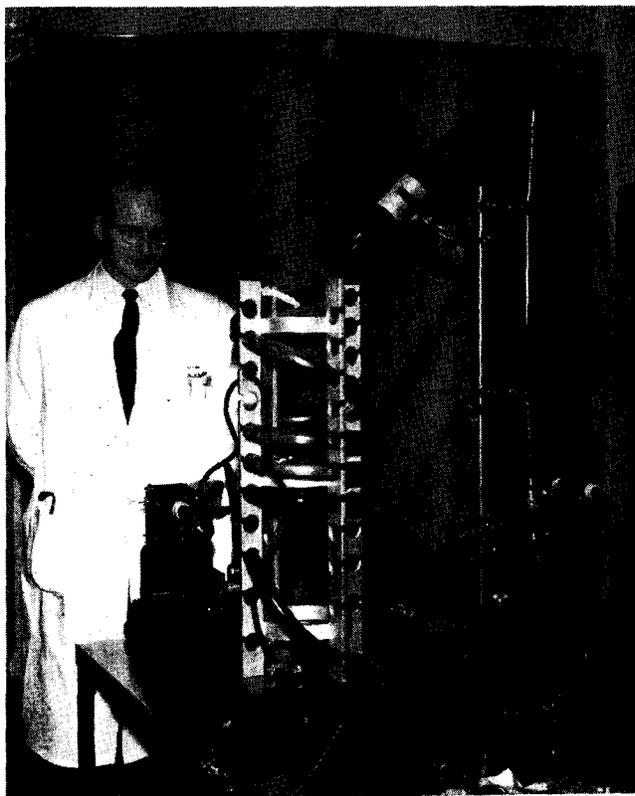


Joan Wieber

As secretary to Robert E. Summers, dean of Admissions and Records, Mrs. Wieber has a great deal of contact with University students. She says this student-contact is one of the things she likes best about her job.

Dr. Richard DeWall

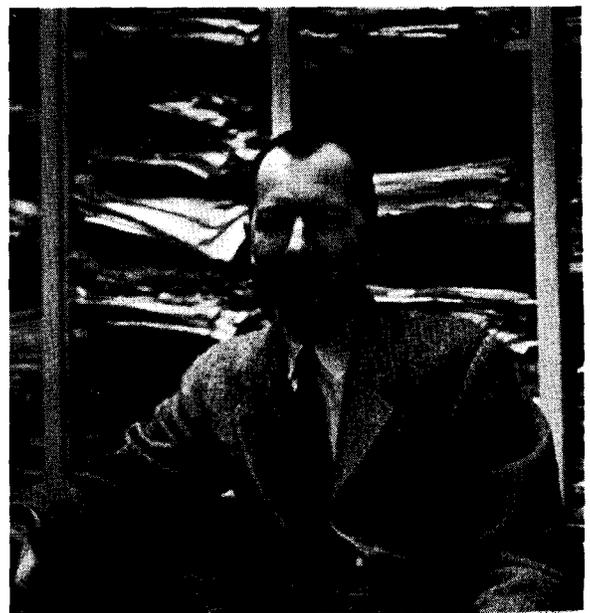
Selected one of America's 10 outstanding young men of 1957 by the U. S. Junior Chamber of Commerce, Dr. DeWall is a fellow in the Department of Surgery. He was honored for developing a simplified mechanical heart-lung machine which re-routes the patient's blood, mixing it with life-giving oxygen during surgery.



Have

Robert Jones

Professor Jones will become director of the School of Journalism July 1, 1958, succeeding retiring director Ralph D. Casey who has headed the School since 1930. Professor Jones' special field of interest is journalism research, and he has been director of the research division of the School since 1952.





Captain Robert Almond, Major William Vanden Dries

Captain Almond and Major Vanden Dries head the Air Science program on the Duluth Campus. Under their leadership, the UMD Air Force ROTC Corps is enjoying one of its most active years.



Haakon Lindaas, Joseph Dabell, Fred Storgaard

A familiar sight in University halls and offices the past few weeks has been this well-coordinated crew dusting, cleaning, and repairing light fixtures. Handling the dust cloth in the picture above is Haakon Lindaas. Fred Storgaard, who has been with the University for 30 years, hands new light bulbs to Joseph Dabell, standing on ladder.

You Met?

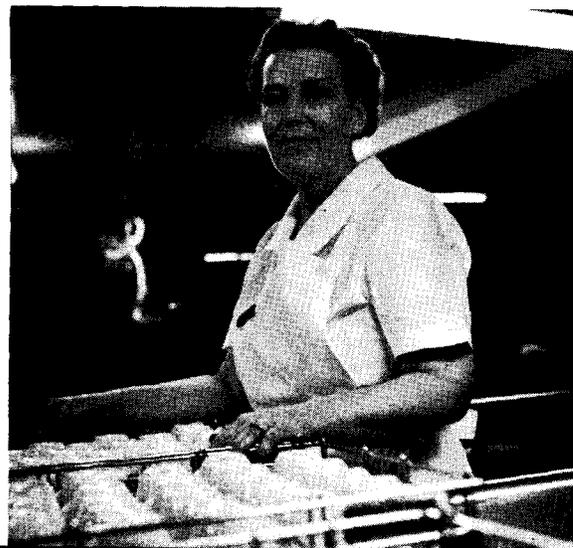
Hedda Kafka

As assistant professor of home economics education, Miss Kafka encourages her student teachers to set up "interest units" in their classrooms—books and magazines, crafts of other lands, textile materials, pottery, or examples of the use of good color and design in useful active objects. Miss Kafka teaches classes in the School of Home Economics, the General College, and the School of Agriculture.



Marie Witt

"It's unusual," exclaims Mrs. Witt, "but I love to wash dishes!" She is supervisor of dishwashing for all Coffman Union food services. Conveyor belts coming into every corner of the "dishroom" bring dishes from banquet rooms, the Union cafeteria, grills, and club rooms. Many millions of dishes have rolled off these belts to Mrs. Witt during her 15 years with the Food Service.





"First Drunk: 'I come from Philadelphia with my banjo on . . .'"



"Carlos: 'What a man believes in is true to him, and if he leaves this faith, he dies.'"



"Benita: 'If you love me, you must not do this thing.'"

Duluth To Hear Opera Premiere

UMD Music Professor Devotes Seven Years to Operatic Work

A MILESTONE in the creative life of the Duluth Campus will make its debut in May as a highlight of the annual UMD Fine Arts Festival.

This major creative work is "Calvario," an opera written by Addison M. Alspach, UMD professor of music, based on a play by Marcus Bach, professor of religion at the State University of Iowa.

Professors Bach and Alspach became acquainted in 1942 when the latter was a student at Iowa State. His professor, Marcus Bach, was writing the play as part of his Ph.D. requirements.

"Calvario" describes an incident in the lives of the Penitente Indians of New Mexico as they observe Easter with the traditional crucifixion of "El Cristo" with the preliminary marking and whipping of the one chosen for the re-enactment.

The story tells of the conflict between Benita Delgado, a pretty college student, and her fiance, Carlos y Miran, when Carlos is invited by the Penitentes to be "El Cristo." Driven by his own piety, Carlos becomes inflexible in his determination to play the role when he discovers that his own father had fled from the actual crucifixion 25 years before, after receiving the mark of the cross on his brow and back.

The intensely dramatic flavor of

the opera is balanced by the addition of two inebriate characters who provide comic relief when they try to intrude on the rites, as outsiders.

The casting of the opera, the work on the orchestration for the University Orchestra conducted by Robert House, head of the UMD Department of Music, countless rehearsals, set and costume design — all involve the time and cooperation of many departments within the UMD Division of the Humanities.

Professor Alspach, who is pictured above reading lines from "Calvario," spent seven years on this work. In

his composing efforts he used several important aids: one is a device which allows him to write while lying on his back (a gadget suggested to him in the biographical works of D. H. Lawrence); a "standing desk," and most important, he says, his wife, Mary.

The public will see and hear the results of seven-years' work in just two months. Efforts are currently being made to bring Professor Bach, operatic scouts, and other persons prominent in the field of music to Duluth's Main Auditorium for the performances.

Collaborating on the Alspach-Bach premiere are Professor Alspach, choral director Allen L. Downs, assistant professor of music, and stage director Harold L. Hayes, head of the University Theater at UMD.



Have You Heard?

Busiest Year for University Hospitals

• The University Hospitals cared for more patients during the year ending June 30, 1957, than in any previous year, according to the annual report of Ray M. Amberg, director. Daily average population of the hospitals was 508.

Superintendent Takes Leave

• William Matalamaki, superintendent of the North Central School and Experiment Station at Grand Rapids, Minnesota, has taken a leave of absence to study for his doctorate. During his absence, his duties will be assumed by Ralph S. Grant, superintendent of the Northeast Experiment Station at Duluth, and by Nils Grimsbo, instructor and assistant acting superintendent at the Grand Rapids station.

Speaks, Writes on Korea

• Chester W. Wood, director of the Student Personnel Service at UMD, is the author of an article on "Post-Liberation Problems in Korean Education" in the December, 1957, issue of the *Phi Delta Kappan*. Professor Wood also presented a talk on "Korea Today" at a recent meeting of the Presbyterian Men's Club in Hibbing, Minnesota.

Elected Education Group President

• Elizabeth M. Fuller, professor of education, is serving as national president of the Kindergarten-Primary Department of the National Education Association; she is also Minnesota editor of the *Journal for Nursery Education*, and a member of the legislative board of the National Association for Nursery Education for the Midwest Region.

Named to Publication Committee

• Ruth E. Grout, professor of public health, has been appointed to the editorial committee of the new publication *Healthful School Living* published by the Joint Committee on Health Problems in Education of the National Education Association and the American Medical Association.

Health Service Addition Begun

• Work has been started on the addition to the Health Service, scheduled for completion the fall of 1959. The three-story structure will be constructed in the old quarry spot between the present Health Service building and the Coffman Memorial Union parking lots.

March, 1958

Participate in Library Week Campaign

• Several University staff members are on a committee to plan a statewide reading campaign to be held in conjunction with National Library Week March 16-22. Former state senator Gerald T. Mullin is chairman of the Minnesota committee on National Library Week; other members include Raymond W. Darland, provost of UMD, Helen L. MacDonald, sales and business manager of the University of Minnesota Press, and David K. Berninghausen, director of the Library School, who is a member of the state committee of librarians.

Statistical Group President

• John Neter, associate professor of business administration, has been elected president of the American Statistical Association, Twin City Chapter.

Parachute Research Award

• Helmut G. Heinrich, professor of aeronautical engineering, recently received the Aeronaut Leo Stevens Parachute Medal of the National Wings Club. Professor Heinrich was honored for his "outstanding contributions to the science of aerodynamic retardation and for developing a new type of parachute."

New Law Program

• The two year pre-law program leading to the B.S.L. degree has been discontinued at the University and the total amount of time required for the B.A.-L.L.B. program has been reduced from seven years to six years and one summer. Students will either attend law school for three years plus one summer after a four-year college degree, or they will take three years in SLA and three years and one summer in law school; after the first year in law school, they must qualify for a B.A. degree.

Payment for TV Series

• A new policy concerning payment to staff members who undertake a series of programs on KTCA-TV went into effect this quarter. Under this system, those individuals who do a minimum of 13 programs will receive \$25.00 per program. Payment is not made, however, to those who receive teaching or research load relief to prepare their programs, or to those for whom radio or television broadcasting is a part of their regular duties. This policy will affect many of the individuals who appear weekly on the University of Minnesota hour seen from 9 to 10 p.m. Monday through Friday on Channel 2 in the Twin City area.

Physicians Receive Honors

• Dr. C. Walton Lillehei, professor of surgery, and Dr. Philip S. Hench, professor emeritus of medicine, are two of nine medical leaders named for the *Modern Medicine* Distinguished Achievement Awards announced in a recent issue of the national medical publication. Dr. Lillehei was honored for "leadership in establishing the feasibility and practicality of open-heart surgery", and Dr. Hench, Nobel prize winner, was cited for establishing the use of cortisone in treatment and for "continuing investigation of rheumatic disease."

Dr. Lillehei was also designated by the United Press as Minnesota's "Man of the Year."

New Architecture Building

• A new home for the School of Architecture will be constructed on the Minneapolis Campus in the area between the Armory and Aeronautical Engineering, where the football practice field is now located. A new practice field will be located in the block bounded by Memorial Stadium, Washington Avenue and Harvard and Walnut Streets. Construction of the Architecture Building is expected to begin about June 1, 1958.

Named Health Advisers

• Dr. Cecil Watson, head of the Department of Medicine; Dr. W. D. Armstrong, head of the Department of Physiological Chemistry, and Dennis W. Watson, professor of bacteriology, have been named consultants on scientific activities conducted by the National Institutes of Health.

Use of Union Facilities

• The Coffman Memorial Union, the Village Union, and the St. Paul Campus Student Center are operated in accordance with the principles established by the University Board of Regents on April 17, 1937. Use of these facilities by non-campus groups must always be adapted to the University's own needs and schedules, and it is expected that all non-student or non-departmental groups using these facilities will reimburse the Union for any costs incurred.

Questions referring to the use of these buildings by non-University groups should be addressed to the Academic Vice President, the Director of University Relations, or the Director of Student Unions.

Payroll System Changes

Certain changes in the University payroll system became effective January 1. An individual record of earnings and deductions is now issued each pay period providing staff members with a current and permanent record. The annual earnings record provided in previous years will no longer be issued. The annual W-2 (Withholding Tax Statement) showing gross pay, withholding tax, and social security tax, will be issued as usual, however.

Conduct Recreation Meet

The Duluth Division of the Minnesota Association of Health, Physical Education, and Recreation met on the UMD Campus recently to attend special sessions and demonstrations. Ward Wells, head of the UMD Men's Department of Physical Education, was program chairman; Miss Ruth Richards, head of the Women's Department of Physical Education, was acting secretary. Other committee members were Ann Small, instructor of physical education for women, and Thomas Stark, instructor of physical education for men.

Selected Committee Chairman

Frederick E. Ellis, associate professor of education, has been selected chairman of the Committee on Separation of Church and State of the Minnesota Chapter of the American Civil Liberties Union.

Theater Group in Far East

The University Theater group presenting "I Remember Mama" to military forces based in Japan, Korea, and Okinawa will be on tour in the Far East until March 29. Lowell Manfull, instructor in the General College, plays the role of "Papa" in the show, with his wife, Helen, a graduate student, as "Mama." University Theater Director Frank M. Whiting accompanied the cast on its tour.

Participation in Radio, TV Programs

The following policy was adopted at a recent meeting of the Administrative Committee of the University Senate:

"No staff member or employee of the University of Minnesota, in the absence of express administrative approval, should regularly contribute to or participate in, for compensation, any series of radio or television programs being developed by or for broadcasting stations or production centers not operated by the University of Minnesota. This requirement does not apply to occasional single appearances on such programs."

Presides at Science Advisory Meeting

Lloyd R. Reyerson, professor of chemistry, presided at a National Academy of Sciences advisory committee meeting in Washington last month. Professor Reyerson is chairman of the Foreign Research Scientists' program established to bring scientists from NATO countries to the United States for two-year periods of study.

Named to Space Panel

Otto H. Schmitt, professor of biophysics, has been appointed to the International Geophysical Year space satellite panel. Professor Schmitt has been a member of the American Institute of Biological Sciences group advising the U. S. Navy's Vanguard Project.

Receives Physics Teaching Honor

J. W. Buchta, professor of physics and associate dean of SLA, was honored for "notable contributions to the teaching of physics" at the January meeting of the American Association of Physics Teachers, held in New York City.

Attends NATO Meeting

Harold C. Deutsch, professor of history, was one of three men from the United States attending a North Atlantic Treaty Organization conference in Paris recently.

Receives Fellowship

Ruth E. Lawrence, former director of the University Gallery, who retired last year after 23 years of service, has been awarded a residence fellowship at the Huntington Hartford Foundation in California. Mrs. Lawrence will write on Minnesota clays and ceramics research.

Teaching in Honolulu

Professor Herbert Feigl is in Honolulu until June serving as Carnegie visiting professor at the University of Hawaii, teaching courses and conducting seminars in the philosophy of science. Professor Feigl is director of the Minnesota Center for the Philosophy of Science.

Elected National Officer

Frank Verbrugge, associate chairman of the Department of Physics, has been re-elected secretary of the American Association of Physics Teachers.

Portraits Added to "Hall of Fame"

Portraits of two former University Extension livestock specialists were placed in the "Livestock Hall of Fame" on the St. Paul Campus recently.

N. K. Carnes, a University extension livestock specialist for 28 years and now general manager of the Central Livestock Association in South St. Paul, and W. E. Morris, livestock specialist from 1927 until his retirement in 1955, were the two men honored.

Professor Anderson Honored



Mr. Earl Cunningham, right, president of the Minnesota Sheep Breeders' Association presents a portrait of Associate Professor Philip A. Anderson, center, to Lester E. Hanson, head of Animal Husbandry at the University. The picture will be placed in the seminar room of Peters Hall on the St. Paul Campus. As associate professor of animal husbandry, Mr. Anderson is a specialist in sheep and meats. A member of the University staff since 1915, he has been secretary-treasurer of the Minnesota Sheep Breeders' Association for many years.



Dr. Robert J. Gorlin, chairman of oral pathology, conducts the first three-hour oral cancer clinic for the 15 Willmar dentists who participated in the day-long mass examination program last fall.

University Representatives Aid in Pioneer Dental Survey

Dental, Medical Staff Members Participate in Nation's First Mass, Free Oral Cancer Clinic

FIFTEEN LOCAL dentists examined nearly 2,000 residents of the Willmar, Minnesota, area one day last fall. They were looking for suspicious facial and oral lesions which could mean cancer.

These 15 dentists, all members of the Willmar Dental Study Club, were trained for their mass detective work by Dr. Robert Gorlin, chairman of oral pathology at the University, and Dr. Ralph Christenson, a Minneapolis oral surgeon.

These two individuals conducted six hours of preliminary seminars to inform the Willmar dentists of the role they, as family dentists, play in detecting oral and facial malignancies.

Physicians Assist in Program

During the mass examination, which was held at the Willmar Auditorium, two additional members of the University staff, Dr. William F. Feller and Dr. Donald B. Shahon of the Cancer Detection Center, were present to aid the local dentists with diagnostic problems.

Between the hours of 8 a.m. and 9 p.m. on September 30, the Willmar dentists examined about 2,000 people, some of whom had come from as far away as 100 miles or more. They paid nothing for the examination, which had the distinction of being the first of its kind in the nation.

Purpose of Survey

The objectives of the mass examina-

tion program were two-fold. Not only did the patients have the benefit of a free examination for oral cancer; the experiment also attempted to demonstrate what type of positive program could be developed to educate Minnesota dentists on their participation in cancer detection.

The program was sponsored by the Minnesota Division of the American Cancer Society, with local cancer society volunteers serving as aids during the day-long examination.

Nearly 80 percent of the individuals examined on September 30 were 45 years of age or older. Special emphasis was directed toward this group, because oral cancer is more likely to occur in the 45-and-over age range.

Each person receiving an examination indicated the name of his family physician or dentist to whom examination data should be sent. The individual practitioner then followed through with appropriate biopsies and treatment.

Results of Survey

Because of this follow-up procedure, exact results are difficult to determine until the various family physicians and dentists turn in reports. However, it is believed that six or eight cases of probable oral cancer and more than a dozen cases of probable facial skin cancer were detected.

"The high rate of skin and lip cancer can be attributed to the fact that a large number of those examined were blond, blue-eyed farmers of Scandinavian descent — a group known to be especially prone to cancer of these areas," Dr. Gorlin stated.

This survey has caught the attention of dentists and lay people throughout the state. Whether or not similar programs are feasible and practical on a mass basis in other communities is still undetermined. But the first of its kind was a successful, satisfactory experiment in stimulating interest in oral cancer control both among patients and their dentists.

Twelve Faculty Artists Display Their Talents

UNIVERSITY ART PROFESSORS practice what they teach, judging from the enthusiastic response to the recent Faculty Art Show held in the University Gallery.

These men and women put the good principles of art which they stress in their classes into actual practice during their creative leisure hours.

In January, a group of Art Department members assembled a collection of their photographs, paintings, sculpture, and ceramics to present an outstanding and varied exhibit.

Examples of Photography

In the field of photography, Instructor Frank Agar and Associate Professor Allen Downs exhibited 14 samples of their work. Mr. Agar's subject-matter ranged from a "Street Scene" to "Window Latch in a Rest Home." Professor Downs contributed two photographs of Minneapolis, one taken in 1952, and one, in 1954, and a 1955 work entitled "Ashland, Wisconsin."

Sculpture and Ceramics

Professor John Rood showed three of his works: "Airport Sculpture-Sketch," in bronze; "Crowing Rooster," in limestone, and "Dark Star," in walnut. Associate Professor Philip Morton showed three bronze and one plaster head, and two pieces of metal construction.

The joint workshop of Assistant Professor and Mrs. Warren MacKenzie was represented by 25 ceramic pieces. Mrs. MacKenzie is a lecturer in the General Extension Division.

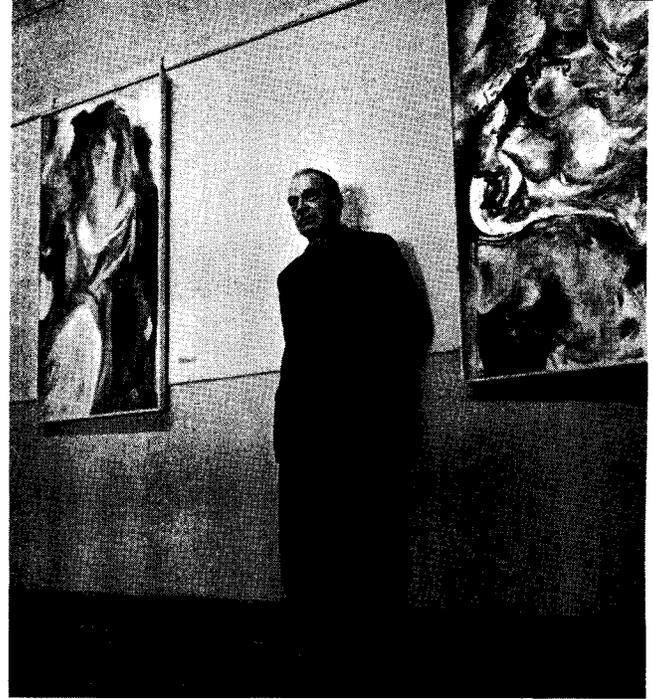
Exhibit Paintings

Seven faculty members whose major work area is painting presented a number of outstanding works.

Associate professor Bernard Arnest contributed five oils painted from 1946 to 1954, and Instructor John Beauchamp exhibited four oil landscapes and an oil entitled "River Banks."

Four oil paintings done in 1957 were shown by Lecturer Cameron Booth ("Red and Green," "Yellow and White," "4th of July," and "Beyond.") Associate Professor Malcolm Myers, whose special field of interest is print-making, contributed five works to the Faculty Show: three intaglios, one casein, and one oil.

Associate Professor Josephine Rollins, a member of the Art Department for 31 years, exhibited four watercolors and two oils, and Professor Elmer Young, who has been with the Department for 36 years, showed two watercolors, a pastel, and a graphite entitled "Three Drawings."



Above: Associate Professor Walter Quirt poses near two of the four oil paintings he exhibited in the Northrop Gallery Faculty Show.



Above: With Professor Elmer Young's work as a background, he and Josephine L. Rollins, associate professor, examine one of Mrs. Rollins' paintings.

Below: Associate professor Malcolm Myers is pictured near one of his contributions to the Faculty Show. Professor Myers' work is now on exhibit at the Minneapolis Institute of Arts.



THE QUESTION IS:

What Are the University's Policies on the Conferring of Awards and Honorary Degrees?

EACH YEAR the University of Minnesota confers a number of special awards and honorary degrees upon prominent local, state, national, and international figures who have in some way achieved distinction and recognition in public service, education, science, literature, or the arts.

These awards are not conferred indiscriminately, and certainly not without careful thought, deliberation, and consideration. Far from it, in fact, for there are some strict guides to "eligibility for awards" recently adopted by the Board of Regents on the recommendation of the Committee on University Honors and the Administrative Committee of the Senate.

Honors Committee

The Committee on University Honors has as its chairman Harold Macy, dean of the Institute of Agriculture. Other members are Raymond W. Darland, provost of the Duluth Campus; Marcia Edwards, associate dean of the College of Education; Edwin L. Haislet, director of Alumni Relations; Walter M. Lauer, professor of organic chemistry; E. W. McDiarmid, dean of the College of Science, Literature and the Arts; Dwight E. Minnich, chairman of the Department of Zoology; Horace T. Morse, dean of the General College; Cecil J. Watson, head of the Department of Medicine, and Malcolm M. Willey, vice presi-

dent of Academic Administration.

The University has set up the following standards for the conferring of honorary degrees and awards:

Honorary Degrees

Honorary degrees may be conferred upon individuals who have achieved distinction in scholarship or public service. The recipient must be a person of acknowledged eminence and a substantial contributor to the arts, literature, science, the professions, or the field of public service.

Nominations for honorary degrees are considered only if the individual:

1. Has rendered distinctive service to the University of Minnesota, or,
2. Has rendered distinctive public service to the state of Minnesota, or,
3. Is a former University student or graduate who has achieved unusual distinction in a particular field.

In special cases, a nationally or internationally prominent person may be considered for an honorary degree, even if he does not fulfill the qualifications of any of these three categories.

Outstanding Achievement Awards

Only graduates or former students of the University of Minnesota are eligible for Outstanding Achievement Awards. These are conferred upon individuals who have attained distinction in their respective professions, fields of work, or in the area

of public service, and who have demonstrated outstanding achievement and leadership on a state, national, or international level.

Regents Award

The Regents Award was established to honor individuals who have contributed to the building and development of the University of Minnesota through significant benefaction, or who have performed exceptionally valuable and meritorious service to the University. These individuals need not be former University students or graduates.

Alumni Service Awards

Individuals who have served the University, any of its schools, colleges or departments, or the Alumni Association with distinction may be eligible for the Alumni Service Awards. These individuals must, however, be former students or alumni of the University.

Award Limitations and Special Considerations

Individuals receiving any of these awards may be considered as candidates for another award at another time, but only under extra-ordinary circumstances, and at no time may individuals who are currently on the University staff be eligible for any of the awards. Those who have been retired or who hold the designation of "emeritus" are eligible, however.

University of Minnesota Calendar of Events

MARCH, 1958

MINNEAPOLIS SYMPHONY CONCERTS

Subscription Series

March 21 — Rudolf Serkin, pianist.
 March 28 — Szymon Goldberg, violinist.
 (Northrop Auditorium, 8:30 p.m. Single tickets from \$1.75 to \$4.00. Reservations may be made at 106 Northrop.) †

Sunday Twilight Concert

March 30 — St. Olaf Choir.
 (Northrop Auditorium, 4:30 p.m. Admission, \$1.00. Ticket sales open at the Auditorium Box Office at 3:30 p.m. on the day of the concert.)

DEPARTMENT OF CONCERTS AND LECTURES

University Artists Course Masterpiece Series

March 12 — Jose Iturbi, pianist.
 (Northrop Auditorium, 8:30 p.m. Single tickets priced from \$1.00 to \$3.00. Reservations at 105 Northrop.) †

University Artists Course Celebrity Series

March 10 — Ballet Russe de Monte Carlo.

University Artists Course Special Presentation

March 11 — Ballet Russe de Monte Carlo.
 (Both above performances at Northrop Auditorium, 8:30 p.m. Single tickets priced from \$1.50 to \$3.50. Reservations at 105 Northrop.) †

Gideon Seymour Memorial Lecture

March 9 — Harrison Brown, professor of geo-chemistry, California Institute of Technology, Pasadena, California.
 (Northrop Auditorium, 4:30 p.m. Admission free, by ticket only.)

Convocations

March 6 — "Suez, Oil and Water," a lecture by Fred Sparks, Pulitzer prize-winning journalist.
 (Northrop Auditorium, 11:30 a.m. Open to the public without charge.)

March 16 — National Negro College Week Convocation.
 Carroll V. Newsom, President of New York University, speaker.

The combined Spelman and Morehouse College Choirs.
 (Northrop Auditorium, 8:00 p.m. Open to the public without charge.)

Commencement

March 20 — "The Egghead and You," an address by Dr. C. W. de Kiewiet, president of the University of Rochester, New York.
 (Northrop Auditorium, 8:00 p.m. Admission by guest card only.)

UNIVERSITY THEATER PERFORMANCES

March 1, 4-9 — *The Rivals* by Richard Sheridan.
 (Scott Hall Auditorium, 8:30 p.m. March 1, and 5-8. March 4 and March 9 performances are matinees only at 3:30 p.m. Single tickets at \$1.25 may be purchased at the Theater Box Office, 18 Scott Hall.) †

UNIVERSITY GALLERY EXHIBITIONS

Through March 15 — Charles Addams Exhibit.
 March 3-26 — Ninth Annual Symphony-Art Project.

SIGNIFICANT UNIVERSITY BROADCASTS

(Heard over KUOM, the University radio station, 770 on the dial.)
 Saturdays, 10:45 a.m. — *The Teller and the Tale*, a literature series.

12:00 noon — *Oj Many Things*, a series of "essays for radio."

2:00 p.m. — *Significant Speeches*, a series rebroadcasting some of the best Public Affairs Forum lectures.

5:00 p.m. — *Ideas and the Theatre*, a series produced by the University of Minnesota for the National Association of Educational Broadcasters.

SIGNIFICANT UNIVERSITY TELECASTS

Monday through Friday, 9 to 10 p.m.
 (The University of Minnesota hour seen over Channel 2, KTCA-TV, the station of the Twin City Area Educational Television Corporation.)

MUSEUM OF NATURAL HISTORY SUNDAY FILM PROGRAMS

March 2 — "Deserts At Our Doorstep."

March 9 — "Ducks — Research and Recognition."

March 16 — "The Twin Cities' Mosquito Abatement Project."

March 23 — "Canoeing in the Quetico-Superior Area."

March 30 — "Bob-White Quail."

(Museum of Natural History Auditorium, 3:00 p.m. Open to the public without charge.)

UNIVERSITY PRESS PUBLICATIONS

March — *Concepts, Theories, and the Mind-Body Problem: Minnesota Studies in the Philosophy of Science, Vol. II*, edited by Herbert Feigl, Michael Scriven, and Grover Maxwell of the Minnesota Center for Philosophy of Science, \$7.00.

March — *International Propaganda: Its Legal and Diplomatic Control*, by L. John Martin, editorial writer for the *Detroit Free Press*, \$5.75.

ATHLETIC DEPARTMENT EVENTS

Home Basketball Games

March 1 — Ohio State University.
 (Williams Arena, 8:00 p.m. Mail order sale for single game reserved tickets at \$2.00 closes one week prior to each game. Over-the-counter sale of unsold tickets begins at 108 Cooke Hall the Monday before each game. General admission on sale at gate only: \$1.25 for adults; \$1.00 for those under 16.)

Home Hockey Games

March 7-8 — Colorado College.
 (Williams Arena, 8:30 p.m. Mail order sale for single game reserved tickets at \$1.75 closes one week prior to each game. Over-the-counter sale of unsold tickets begins at 108 Cooke Hall the Monday before each game. General admission on sale at gate only: \$1.00 for adults; \$.60 for those under 16.)

N.C.A.A. Ice Hockey Championships

March 13, 14, 15.
 (Williams Arena; 8:30 p.m. March 13 and 14; consolation, at 2:30 p.m. and finals, at 8:30 p.m. March 15. Season reserved tickets, \$5.00; single session reserved tickets, \$1.75-\$2.50. Single reserved seats for students and staff with season athletic cards, \$1.25, on sale at Cooke Hall beginning March 5. General admission on sale at Box Office only, 1½ hours before game time: \$1.25 for adults, \$.75 for those under 16.)

Gymnastics

March 1 — Wisconsin (Williams Arena, 9:00 p.m.)
 March 15 — Indiana (Cooke Hall, 3:30 p.m.)

Swimming

March 1 — Purdue (Cooke Hall, 1 p.m.)

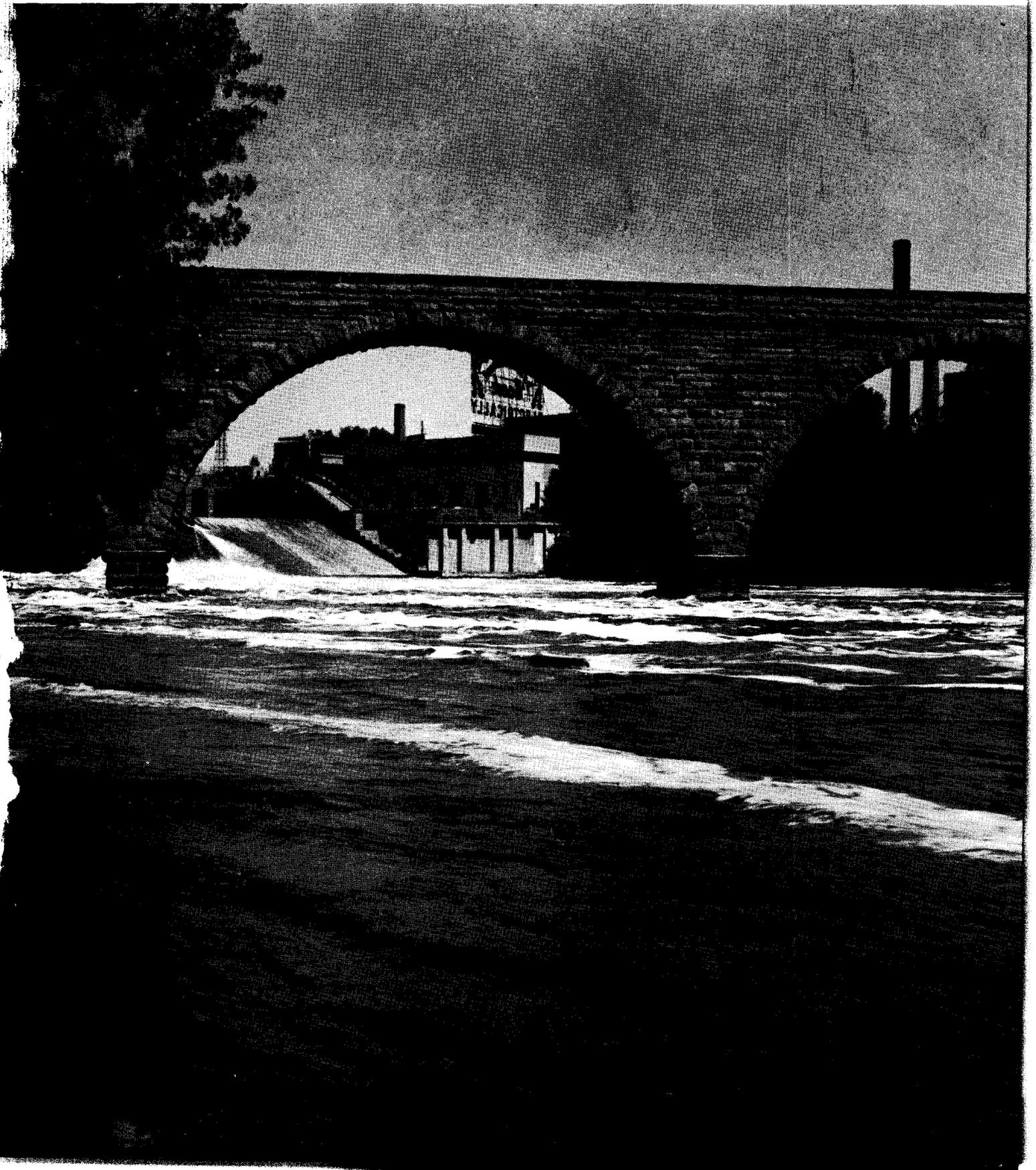
Wrestling

March 1 — Michigan State (Williams Arena, 2:00 p.m.)
 (Tickets for Gymnastics, Swimming, and Wrestling on sale at gate only: \$.60 for adults, \$.25 for those under 16.)

†Tickets for these events are also available at the Field Schlick Ticket Office in St. Paul and the Downtown Ticket Office, 188 Northwestern Bank Building in Minneapolis.

THE MINNESOTAN

The University Staff Magazine - *April 1958*



They Made Us Great

A LANDSCAPE ARBORETUM presented by the Minnesota State Horticulture Society as a centennial gift to the citizens of the state represents a significant contribution to the beauty of thousands of yards and gardens.

On February 6, 1958, the Society turned over to the University a deed to 160 acres of woodland and meadow for such an arboretum.

Members of the Lake Minnetonka Garden Club took the initiative in raising the \$35,000 necessary to purchase the arboretum land. In addition, most of the Society's 450 affiliated garden clubs, plus countless other interested individuals, contributed to the fund which provided for the initial development of this ambitious project.

Leon C. Snyder, head of the Horticulture Department, describes a landscape arboretum as "an area set aside for research and for the planting and display of ornamental trees, shrubs, and woody vines which can be grown in the area and are of value in landscaping."

This particular arboretum will also serve as a laboratory for testing and for breeding trees and shrubs not normally considered suitable for this part of the country.

Minnesota gardeners have long felt

the need for a broader selection of woody ornamentals which would withstand the varied climatic conditions of the state and which would provide homeowners with more beautiful and suitable landscapes. The move to the one-story, ranch-type home has also created a demand for "scale-size" trees and shrubs.

The property which will be developed as an arboretum by University horticulturalists is located on Highway 5, a mile from the University Fruit Breeding Farm in Excelsior. The gently rolling land has every type of tree and shrub native to the area: dogwood, buckthorn, highbush cranberry, hazel, sumac, Juneberry, and wild snowberry; wild grape and bittersweet vines; stately sugar maples and oaks, ash, elm, ironwood, tamarack, aspen, cottonwood, northern poplar, and hickory trees.

Eventually, walks and roads will lead through and around the arboretum to facilitate public observation. Plans also call for a hilltop administration building.

Research in testing and developing hardy Minnesota ornamentals is already well underway both at the Fruit Breeding Farm and on the St. Paul Campus. These projects are under the direction of R. J. Standtherr,

R. E. Widmer, R. A. Phillips, and A. G. Johnson. (See story on page 10.)

Development of the arboretum will assure continuation of their many research projects which are of importance to every Minnesota resident.

Trees and shrubs not only determine the livability and desirability of an area; they also have a definite monetary value. Proper landscaping can add as much as 20 percent to the real estate value of homes, farms, and buildings.

The aesthetic values are vital, too, for beautiful yards, gardens, parks, and shaded streets create a sense of well-being and pride in the residents of every community.

On the Cover . . .

The spring waters of the Mississippi rush through the heart of Minneapolis near Hennepin Island and Third Avenue Southeast. Pictured in the background is the University's St. Anthony Falls Hydraulics Laboratory.

This laboratory conducts fundamental research in virtually every area of hydraulics and fluid mechanics; it is also involved in the experimental design and analysis of hydraulic structures and in testing the performance of special apparatus and equipment.

THE MINNESOTAN

Vol. XI

No. 7

Published by the Department of University Relations, 213 Administration Building, University of Minnesota, Minneapolis 14, Minnesota.

William L. Nunn, Director

Ann Tucker Editor
Advisory Committee: Members of the University Public Information Council.

THE MINNESOTAN is published monthly from October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2 a year, 25 cents a copy. Copies of this issue are on sale at Coffman Memorial Union Bookstore.

Photographs, unless otherwise credited, were taken by members of the University Photographic Laboratory.

Entered as second-class matter at the post office at Minneapolis, Minnesota.

C. Victor Lowrie, right, president of the Minnesota State Horticultural Society, presents President J. L. Morrill with a deed to 160 acres of land to begin development of the Landscape Arboretum



The Minnesotan

Hundreds of Staff Members, Alumni Participate in University Week Activities—February 23-March 1

University Has Week-Long 107th Birthday Party

“HAPPY BIRTHDAY, UNIVERSITY” was sung for the 107th year in February when staff members and alumni participated in a number of statewide University of Minnesota Week activities planned in conjunction with the Minnesota Junior Chamber of Commerce and the Minnesota Alumni Association which co-sponsored the observance.

The over-all University Week committee included Donald E. Wiese, Kenneth Walstad, Harold Sheridan, Blaine Harstad, and Paul Johnston from the Junior Chamber; Burton Paulu, director, Audrey June Booth, program supervisor, and Sheldon Goldstein, program director, from the Department of Radio and Television Broadcasting; Edwin L. Haislet, director, and Raymond D. Chisholm,

alumni representative, from Alumni Relations; Wilbur Jensen, director of Audio-Visual Education, Harold Swanson, associate professor and news editor, and Gerald McKay, associate professor, Agriculture Extension Service; Clarence Anderson, University Relations representative on the Duluth Campus, and W. L. Nunn, director, Jean Lovaas, news representative, and Marcia Roos, senior informational representative, from the Department of University Relations.

Twin City Exhibits

The Center for Continuation Study prepared exhibits for six Twin City hotels: the Andrews, Leamington, Normandy, and Pick-Nicollet in Minneapolis, and the St. Paul and Ryan,

in St. Paul. The Army R.O.T.C. was represented at Billy and Marty's; the Naval R.O.T.C. at the Farnham Stationery and School Supply Company; the University Gallery at Roy H. Bjorkman, Inc., and the Audio-Visual Education Service at the Century Camera Shops, Inc., all in Minneapolis.

University Press had exhibits at Corrie's Sporting Goods, Inc., and the Doubleday Book Shop in Minneapolis, and the St. Paul Book and Stationery Company. The Summer Session was represented at the Curtis Hotel, Minneapolis; the Department of Medical Technology at Donaldson's; the Department of Plant Pathology at Southdale Court, the Farmers Union Grain Terminal Association, St. Paul, and at the Minneapolis Grain Exchange which also had an exhibit from the Crop Improvement Association.

Minneapolis banks cooperating in the project were Farmers and Mechanics Savings, with a Museum of Natural History exhibit; First Produce State, a Department of Mechanical Engineering exhibit; Marquette National, a display from the College of Agriculture, Forestry and Home Economics; Northwestern National, a General Extension Division exhibit, and its Lincoln Office, a University Theater exhibit, and University National, a Library School exhibit.

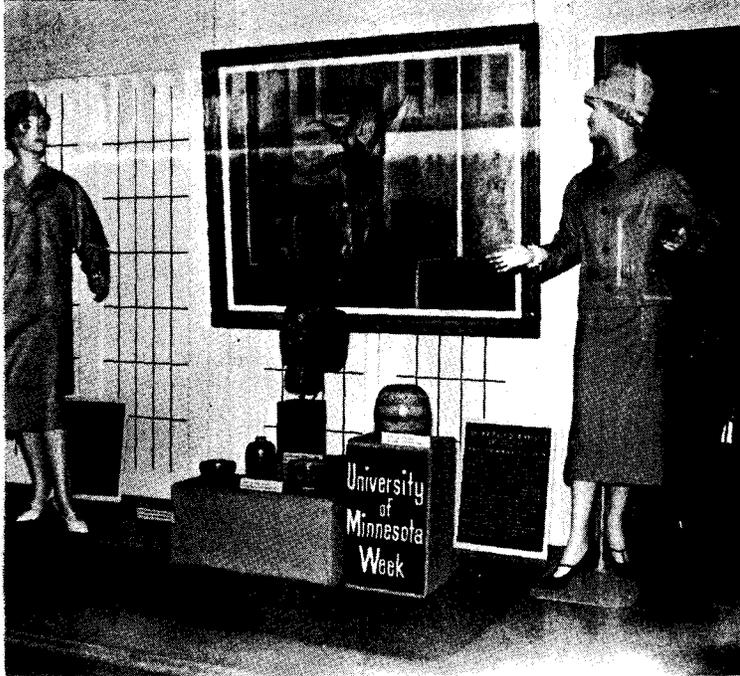
The Department of Mechanical Engineering also prepared an exhibit for Warner Hardware at Miracle Mile; the Crystal and St. Anthony branches of the same firm had exhibits from the College of Agriculture.

The University Theater was also featured at the Capri Hotel in St.



The University's 107th birthday cake, left, is presented to Ray J. Quinlivan, chairman of the Board of Regents, by Anita Valor, homecoming queen, as Lieutenant Governor Karl Rolvaag accepts the state of Minnesota's 100th birthday cake from Centennial Queen Diane Albers. The ceremony took place at the close of the Charter Day convocation held in Northrop Auditorium on February 27.

April, 1958



The University Gallery was represented in the attractive window display at the Roy H. Bjorkman, Inc., on the corner of Nicollet Avenue and Tenth Street in Minneapolis.



Powers Department Store in Minneapolis featured an exhibit from the College of Veterinary Medicine..

Paul, and the School of Nursing at the J. C. Penney Company in Minneapolis and the Emporium in St. Paul. Powers in Minneapolis presented a College of Veterinary Medicine exhibit; Jackson-Graves in Highland Village and Sears-Roebuck and Company in Robin Center, Department of Physiology exhibits.

The Department of Radio and Television Broadcasting was represented at the Golden Rule; the Department of Physics, at the First National Bank, and the Institute of Child Welfare, at Northern States Power Company, all in St. Paul. The Department of Physical Medicine and Rehabilitation prepared a display for the University Branch of the State Capitol Credit Union, and the Dean of Students Office, for Southdale Court. The School of Forestry was represented at Kennedy Brothers Arms Company and the Union Depot, both in St. Paul, and the Maurice L. Rothschild-Young Quinlan Company, Minneapolis, contributed space for an institutional exhibit.

Staff Members Speak Throughout State

Hundreds of Minnesota residents heard about the University from the many staff members who traveled the

length and width of the state to speak before variety of civic organizations. St. Paul citizens heard Werner Levi, professor of political science and William J. Micheels, chairman of Trade and Industrial Education, who spoke before the American Interprofessional Institute. Professor Levi also spoke in Breckenridge and Wahpeton.

Also speaking before St. Paul groups were: Mary Corcoran, assistant professor of institutional research, who addressed the Dodd Civic Club in West St. Paul; Andrew R. Vernes, assistant director of protection and safety, the Greater St. Paul Safety Council, and Lt. A. H. Johnson, instructor in air science, the Men's Club of Olivet Congregational Church.

S. A. Cuneo, associate professor of romance languages, appeared before the Midway Lions Club; Mark A. Graubard, associate professor of interdisciplinary studies, the Optimist Club; George G. Watson, visiting professor in English, the Polonie Club, and Harold B. Allen, director of the communications program, the Printers' Auxiliary—all St. Paul organizations.

Max Schultze, professor of agricultural biochemistry, and Ike Armstrong, athletic director, spoke to the

Riverview Lions Club; Mykola H. Haydak, associate professor of entomology and economic zoology, the St. Paul Association of Office Men, and Dr. Richard DeWall, fellow in the Department of Surgery, the St. Paul Junior Chamber of Commerce.

Other St. Paul speakers were: William Luyten, chairman of the Department of Astronomy, who addressed the St. Paul Kiwanis Club; Colonel Robert O. Bowen, professor of naval science, the CAP Squadron, and John G. Turnbull, professor of economics, the South St. Paul Kiwanis Club.

Minneapolis speakers included Chien C. Chang, professor of aeronautical engineering, who spoke to the Cosmopolitan Club; Harlan Smith, associate professor of economics, the Camden Area Commercial Club; Vernon Ausen, supervisor of room assignments and scheduling, the Commonwealth Club; Armin Grams, associate professor of child welfare, the Downtown Y's Men's Club, and Allen Downs, associate professor, the Minnesota Camera Club.

E. W. McDiarmid, dean of SLA, spoke to the Probus Club; Frank Verbrugge, associate chairman of the Department of Physics, the Metropolitan Y's Men's Club; Mary Carlson,

The Minnesotan



Kennedy Brothers Arms Company in St. Paul contributed window space for this University of Minnesota week exhibit from the School of Forestry.



Patrons of the Century Camera Shops, Inc., Minneapolis, had an opportunity to examine this exhibit prepared by the Audio-Visual Education Service.

assistant professor of home economics, the Uptown Business Women's Club, and Mildred Templin, associate professor of child welfare, the Rotary Society of Holy Trinity Church.

John Ellingston, professor of law, spoke to the Carpenters Auxiliary; Richard Stadtherr, instructor in horticulture, the Kappa Kappa Gamma Junior Alumnae, and Winston Close, advisory architect, the University Dad's Association. Paul Holmer, professor of philosophy, addressed the Minnesota Branch of the American Legion of Penwomen, and Richard Kozelka, dean of the School of Business Administration, the Sertoma Club. Both men also traveled out-of-town to give talks; Professor Holmer, in Alexandria, and Dean Kozelka, in Thief River Falls.

Other out-of-town speakers were: John Akerman, head of aeronautical engineering, Austin and Virginia; Walter J. Breckenridge, director of the Museum of Natural History, Chisholm; John Turner, associate professor of political science, Detroit Lakes; Dr. Donald W. Hastings, head of the Department of Psychiatry, Moorhead, and Keith McFarland, assistant director of resident instruction on the St. Paul Campus, Glenwood.

Lawrence H. Johnston, assistant professor of physics, spoke in International Falls; Julius Nolte, dean of the General Extension Division, in Madison; Selmer Engene, professor of agricultural economics, Marshall; Dr. William Kubicek, professor of physical medicine, New Ulm; Alfred O. C. Nier, chairman of the Department of Physics, Pipestone; J. William Buchta, associate dean of SLA, St. Cloud; Tracy Tyler, coordinator of the Korean Project, Wadena; Gregory Stone, instructor in sociology, Wheaton, and W. L. Nunn, Hopkins and Albert Lea.

Minnesota residents also heard about their University on radio and television during the birthday week, for more than 71 radio spot announcements and 23 television spots were circulated for use throughout the state.

The annual Charter Day convocation highlighted University Week. The University band directed by Gale L. Sperry, instructor in music, played as the audience assembled; Roy A. Schuessler, professor of music, led the singing of the National Anthem, accompanied by Edward Berryman, assistant professor of music. The Reverend Edwin Johnson, adviser to Congregational and Presbyterian students

and staff members on the St. Paul Campus, gave the invocation, which was followed by a dramatic presentation "The University Grows Up" staged and directed by Roger D. Gross, instructor in speech, and written by Ellen Siegelman, former editor of *The Minnesotan*.

E. W. Ziebarth, dean of the summer session, presided at a ceremony in which birthday cakes were presented to the University and to the state of Minnesota. Ray J. Quinlivan, chairman of the Board of Regents, and Anita Valor, homecoming queen, represented the University, and Karl F. Rolvaag, lieutenant governor, and Diane Albers, centennial queen, represented the state.

Harold L. Hayes, associate professor of speech, directed University Week activities on the Duluth Campus. These activities included a downtown Duluth display of "historical view" slides, alumni coffee hours, a dance for students and alumni and special tours of UMD facilities.

The University of Minnesota entered its 108th year with the memory of a happy, successful 107th week-long "birthday party" which reached out to include, inform, and interest thousands of state residents.

Social Work Faculty Trains Personnel for World-Wide Leadership

Life Begins at 40 for School
Dedicated to Social Services

“BECAUSE OF THE growing complexity of modern social and civic problems and the conviction that only increased training and technical skill can handle them effectively, American universities are pressed to offer specialized instruction to meet the new demands . . .”

The space-age sounding quotation which might well have appeared in a recent newspaper editorial is actually taken from a 1917 University of Minnesota Bulletin in a section describing the new, formally-organized program for the training of social workers.

This program recently observed its fortieth anniversary with a special dinner celebration held in Coffman Memorial Union. The dinner attracted many of the School's distinguished alumni, persons prominent in the field of social services, students, and members of the University's top-flight Social Work faculty.

Social Work Faculty

These faculty members include Professors John C. Kidneigh, director of the School, Annie Laurie Baker, Gisela Konopka, Hyman S. Lippman, Verval Mueller, Lyndell Scott, and Dorothy Whitmore;

Associate Professors Werner Boehm, Ethel Harrison, Ruby Pernell, H. Etta Saloshin, Malcolm Stinson, and Helen Yesner;

Assistant Professors Beulah Compton, Maurice Connerly, Fred Gross, Lydia Herman, Helen Kretschmer, Anne Oren, and George Williams;

Lecturers Miriam Cohn, Lois DeSantis, Edward Francel, Frances Guzie, Janet King, Mayo Newhouse, Omar Schmidt, Werner Simon, and Murray Stopol;

Instructors Adeline Mandel, Katharine Murphy, Gertrude Shiely, Dorothy Smith, Calvin Takagi, Ruth Teeter, and Margaret Youngdale.

In addition, students work with 22 clinical field in-



One of the School of Social Work's committees includes, from left to right: Assistant Professor Anne W. Oren who teaches courses in the social services sequence, Associate Professor H. Etta Saloshin, a group work instructor, and Lecturer Mayo Newhouse, one of the clinical field instructors.

structors who are affiliated with such field work organizations as the Family and Children's Service agencies, the Girl Scouts, the Jewish Community Center, the Hennepin County Court Services, the Hamm Foundation Clinic, the Wilder Child Guidance Clinic, the Y.W.C.A., various neighborhood and community houses, the Veterans Administration Hospital, and county welfare boards.

This impressive faculty which offers a two-year graduate professional program of study is a far cry from the one course entitled "Poverty" offered at the University prior to 1917.

Relationship to University and Community

When the first formal program called "The Training Course for Social and Civic Work" was initiated 40 years ago, it was under the directorship of Arthur J. Todd and was a part of the Department of Anthropology and Sociology of the College of Science, Literature, and the Arts. Faculty was drawn from social work agencies and settlement houses in the Twin Cities and from several departments of the University.

This same "cross-section" complexion is retained in the make-up of the faculty of 1958, with many University disciplines represented: the Medical School, the School of Public Health, the Departments of Sociology and Political Science, the Institute of Child Welfare, and others.

Not only does the School work closely with these various colleges and departments within the University, but with the profession of social work, the Minnesota social welfare community, and the many sister professions.

Directors Contribute to School's Progress

Many men and women have made substantial contributions to the successful development of the social work program at the University. One was Dr. F. Stuart Chapin who served as director of the Training Course for 27

years. Under his able leadership the technical courses were transferred from the undergraduate to the graduate level, and in 1934, the course was renamed "The Graduate Course in Social Work" with Associate Director Gertrude Vaile in charge.

Miss Vaile served in this capacity until her retirement in 1946. There is now a Gertrude Vaile Library located adjacent to the School's central office in 400 Ford Hall. It was established in her honor by a group of grateful and admiring friends and colleagues.

Professor John Kidneigh became director in 1949. During his tenure the School has continued its pattern of growth and influence. The average annual enrollment of full-time graduate students has more than doubled . . . from 35 during the 1930's and '40's, to 95 in 1957. Approximately 85 per cent of social work students are natives of Minnesota and an equal number take social work positions in this state upon graduation.

International Flavor of Student Body

A total of 450 students has received Masters' degrees in social work, and 15 have received Ph.Ds. These men and women have become leaders in social work practice, in teaching, in administration, in social work research, in government positions, and positions in privately-financed health and welfare programs.

Many hundreds more who did not achieve degrees have entered service positions in social work throughout Minnesota.

Other students have returned to their homelands—France, Germany, Australia, The Netherlands, India, Egypt, Israel, Korea, Japan, the Philippines—to carry out the practices and principles taught and learned at the University of Minnesota.

Quality of Faculty

The faculty members who teach these students from

Courses taught by Professors Dorothy Whitmore, seated, and Gisela Konopka represent the two basic methods of social work. Professor Whitmore's field of concentration is casework; Professor Konopka's, group work.



The office staff in 400 Ford Hall studies the program for the School of Social Work's recent fortieth anniversary dinner. From left to right, they are: Virginia Hayes, Patricia Eckhart, and Correen Garner.

throughout the world are not only "theorists" conducting classroom lectures. All have had extensive work-experience in the many areas of social work.

The numbers of agencies, boards, and civic organizations to which they devote hours of their leisure time are countless. Many have become leaders in social work educational developments on the local, national, and international levels; the names of others appear on important local, state, and national committees and commissions; the volume and quality of their publications is also significant.

As the need for social work services which touch all kinds and conditions of men increases, the responsibilities of the social worker grow. His need for broad understanding and sound judgment must be augmented by professional education of the kind and quality offered by the University's School of Social Work.

Professor John C. Kidneigh, left, director of the School of Social Work, receives a special award for "outstanding service to the profession" from Louis Goldstein, president of the Southern Minnesota Chapter of the National Association of Social Workers. The award was presented at the fortieth anniversary dinner in February.

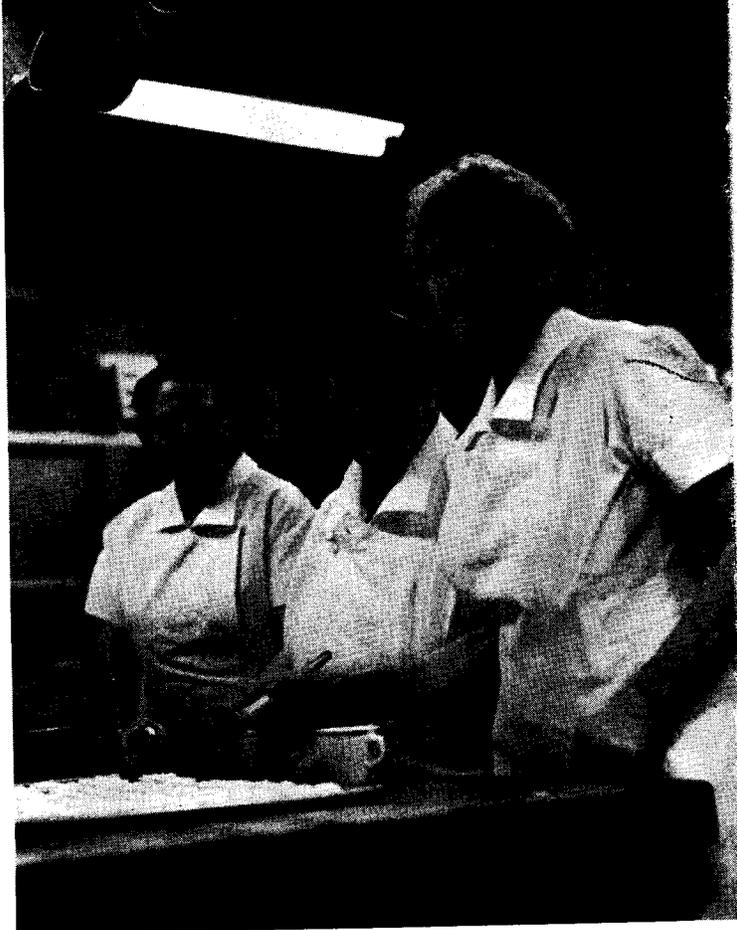


Have You Met?

*Hannah Lerseth, Thelma
Gumingo, Hattie Miller*

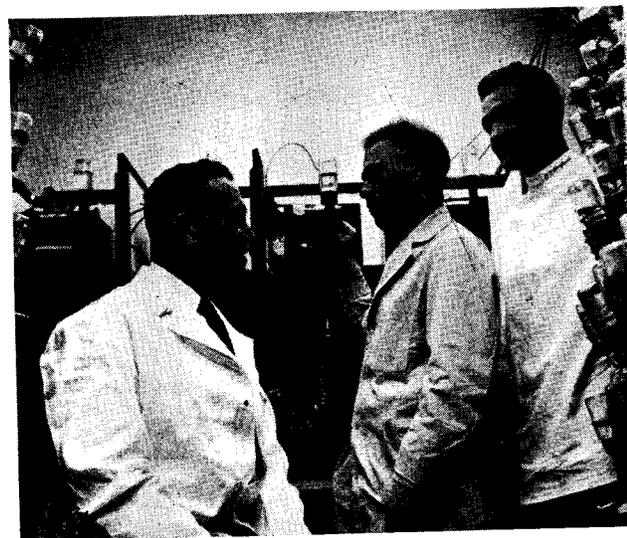
William Marshall

A leading authority on wild life management and ecology, William H. Marshall, professor of entomology and economic zoology, recently received the Dr. Robert C. Green Conservation Award presented by the Minneapolis Junior Chamber of Commerce Conservation Committee. The award was given "to the individual in the Greater Minneapolis area who has contributed most to conservation of natural resources during the past year."



The three expert bakers pictured above have spent a cumulative total of 25 years with the Coffman Memorial Union Food Service. Specialists in preparing deluxe pastries, cakes, and cookies, they are: Hannah Lerseth, Thelma Gumingo, and Hattie Miller, left to right.

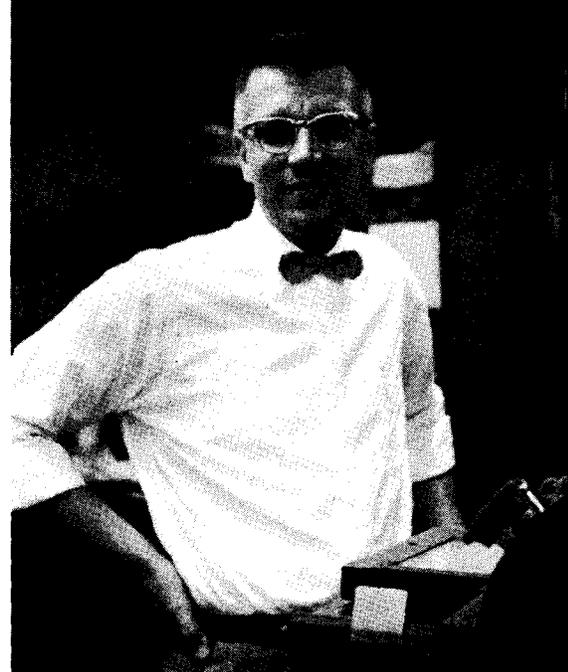
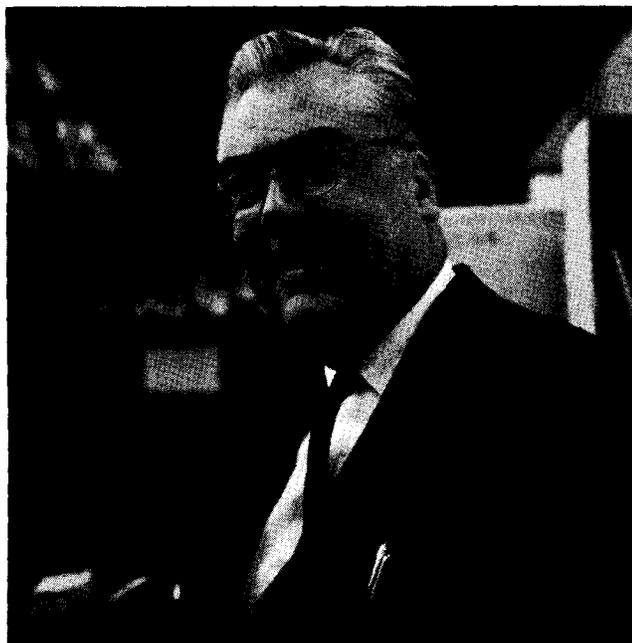
Dr. Franz Halberg



The title of fellow of the New York Academy of Sciences was recently conferred on Dr. Franz Halberg, left above, associate professor of cancer biology. Dr. Halberg is pictured with students Elwood Jacobsen and Aubrey Stephens.

George Schroepfer

George J. Schroepfer, professor of civil engineering, will travel to Dallas, Texas, this month, to receive the 1957 Fuller Award from the North Central Section of the American Water Works Association.



Vernon Brundell

Minneapolis staff members who step up to the Bursar's window frequently to cash checks will recognize senior cashier Vernon Brundell. Mr. Brundell has been with the University for eight years.

Katherine Nash

Three pieces of sculpture by the new acting director of the University Gallery will be displayed in the American pavilion at the Brussels Worlds Fair in Belgium. Mrs. Katherine Nash is the only woman among a group of 14 leading American sculptors to be represented in the exhibit. Her work is also represented in private and public collections throughout the United States.



Paul Holmer

Philosophy professor Paul L. Holmer was one of three SLA professors named the college's "outstanding faculty members of the year."



Evelyn Hultkrans

Mrs. Evelyn Hultkrans has been allergometric technician at the Minneapolis Campus Health Service for 24 years and on the Health Service staff since 1924. She administers pollen skin tests and is in charge of electro-cardiograms, basal metabolism tests, and ultra-violet lamp treatments.

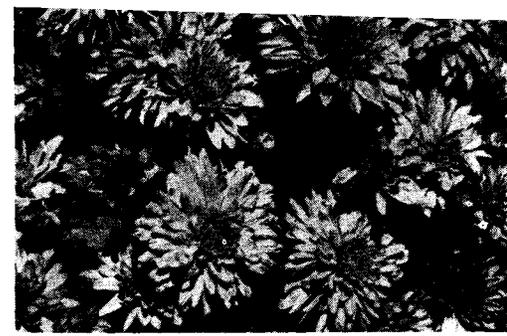




Princess Chrysanthemum



Radiant Flowering Crab



Minnehaha Chrysanthemum

University Greets Spring With New Fruits and Flowers

MINNESOTA GARDENERS can add new fruits and ornamentals to their lists this spring, thanks to the University's Horticulture Department. The new ornamentals and stock of the new fruits will soon be made available to the public by Minnesota nurseries.

The new fruits (the Welcome gooseberry, the Centennial apple-crab, and the Northland apple-crab, are the result of years of breeding work done at the Fruit Breeding Farm under the direction of A. N. Wilcox, professor of horticulture, and T. S. Weir, assistant superintendent of the Farm. Associate Professor J. D. Winter and Instructor Shirley Trantanella have been responsible for testing these fruits for their freezing and canning qualities.

The Welcome gooseberry has two characteristics which will make it especially appealing to gooseberry growers. The spines have been so reduced in size and number that the fruit can be picked with comfort and safety, and the bushes are relatively resistant to disease. The mildly-tart large red berries make excellent jam and are also suitable for pies.

The two new apple varieties have been named "apple-crabs" because they are larger than crab apples and are more like apples in taste. The Centennial, appropriately named for the state's 100th birthday, bears heavy

crops of fruit which ripen during late August or early September. Because the trees are semi-dwarf, they require less planting space than most apple trees. The spring blossoms are profuse, and the tree itself is winter-hardy, even in the northernmost areas of the state.

The Northland apple-crab, a medium-size tree, is also suited to northern Minnesota, for it is hardy and very productive. The fruit, which begins to ripen in mid-August, is bright red and good for sauce, jellies, and pickles.

Ideally suited for landscape purposes, the recently-developed radiant flowering crab apple tree is small and compact. Its spring and early summer foliage has a bright reddish cast. Flower buds are deep red, opening to deep pink flowers which make a brilliant display for about 10 days. These flowers are followed by small, bright red fruit which stays on the trees all winter.

L. C. Snyder, head of the Horticulture Department, Assistant Professor R. A. Phillips, Instructor R. J. Stadtherr, and Research Fellow A. G. Johnson were responsible for the development of this hardy, attractive tree.

With the introduction of two new garden chrysanthemums, the number of this type of flower introduced by the University now totals 37. Work

in this area was begun by L. E. Longley and has been continued by Assistant Professors Phillips and R. E. Widmer. (See story on page two.)

The New Princess chrysanthemum is a carnation-flowered variety. The double, two-inch flowers are old-rose in color, with deeply-forked, gold-tipped petals. The well-rounded growth pattern of this flower makes it very suitable for window boxes as well as for the center areas of flower borders. Blossoming starts in early August, and within a few weeks, the plant is covered with a profuse display of blossoms which continues until frost.

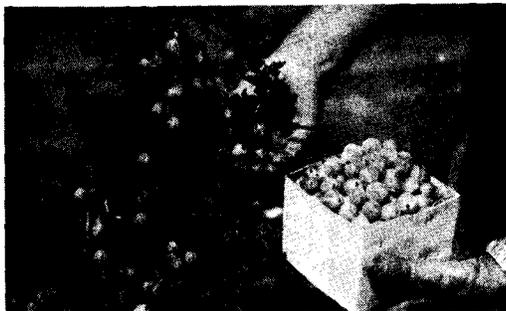
The Minnehaha chrysanthemum is a medium-tall, upright bush plant with salmon-colored, rose-tinted, double flowers. Blossoming starts about mid-September and continues until killing frost. This flowering plant is most appropriate for the center or rear of flower borders, and the stiff quality of the stem makes the flowers especially adaptable for bouquets and floral arrangements.

Miscellaneous Report 29 ("New Ornamentals for Minnesota") and Miscellaneous Report 30 ("Three New Fruits") give complete descriptions of these new varieties. The publications may be obtained from the Bulletin Room, Institute of Agriculture, University of Minnesota, St. Paul 1.

Centennial Apple-Crab



Welcome Gooseberry



Northland Apple-Crab



Have You Heard?

Play in Recital

Robert W. House, head of the UMD Music Department, and James E. Smith, associate professor of music at UMD, performed at an ensemble recital recently in Duluth's Main Auditorium. Both professors are violinists.

Receives Teaching Award

Ralph G. Nichols, head of the Department of Rhetoric on the St. Paul Campus, was awarded a plaque for "outstanding teaching" at a recent Agriculture Education Club banquet.

Writes Architecture Catalog

Donald R. Torbert, associate professor of art, wrote the catalog for the exhibition "A Century of Minnesota Architecture" which is currently on display at the Minneapolis Institute of Arts.

Duluth Campus Subject of Study

UMD is one of 15 U. S. campuses selected for a study of student responsibility. The only other campus in this region selected for the study is St. Mary's College, Winona.

Receive Teacher Study Grants

J. Vernon Jensen, instructor in interdisciplinary studies, and Dean L. Phelps, instructor in the General College, have received Danforth teacher study grants for the 1958-59 academic year.

Red Cross Chairmen

Robert P. Foster, assistant director of insurance and retirement, was chairman of the 1958 Red Cross Campaign on the Minneapolis Campus, with John E. Stecklein, director of institutional research, as assistant chairman.

Divisional chairmen were: S. C. Larson, associate professor of electrical engineering; E. W. Swanson, assistant professor and senior student personnel worker; Robert K. Jaedicke, assistant professor of business administration; M. E. Alvord, SLA placement consultant; Dr. A. H. Hall, professor of dentistry; Clarence Boeck, instructor in University High School; Eugene L. Staples, assistant director of University Hospitals; James P. Schroeder, director of Pioneer and Centennial Halls; and Paul Berrisford, assistant professor and chief catalog librarian.

Richard Donnelly, associate professor of physical education; Dorothy Burrows, assistant professor in the General College; Richard Getchell, junior program consultant, Coffman Memorial Union; William O.

Cook, assistant to the supervising engineer; Monica Molander, assistant to the treasurer; Dr. W. A. Sullivan, director of the Cancer Detection Center, and Evelyn Munro, assistant production manager of the University of Minnesota Press, were additional division chairmen.

Captain Kenneth L. Walsh, assistant professor of ROTC at UMD, served as the Duluth Campus coordinator for the 1958 drive. Chester W. Wood, director of the Office of Student Personnel Services at UMD, was general chairman for the city-wide fund campaign in Duluth.

Keith N. McFarland, assistant director of resident instruction for the College of Agriculture, Forestry, and Home Economics, was in charge of the Red Cross campaign on the St. Paul Campus. He was assisted by Gladys M. Anderson, principal secretary.

Business Professors Debate

Carl L. Nelson and Ben B. Sutton, professors of business administration, participated in a debate "Resolved: That The Balance Sheet Is Worthless" recently. The debate, which was held at Coffman Memorial Union, was moderated by Robert J. Holloway, chairman of the Department Business Administration.

Speak at Student Conference

Mark Graubard, associate professor of interdisciplinary studies, Gordon Mork, associate professor of education, and Bryce Crawford, chairman of the School of Chemistry, spoke to the tenth annual Student Education Conference held on the Minneapolis Campus recently. Student delegates from 19 Upper Midwest colleges met to discuss problems of education and teaching.

Dean Emeritus Speaks

C. H. Bailey, dean emeritus of the Institute of Agriculture, delivered the third speech of the St. Paul Campus Celebrity Series in February.

Teaching in New Mexico

Roy B. Blakey, professor emeritus of business administration, is now distinguished professor of economics at the University of New Mexico.

Leaves U Press

Helen L. MacDonald, sales and business manager of the University of Minnesota Press since 1943, has resigned to accept a similar position with the University of Texas Press in Austin.

Tweed Gallery Near Completion

Completion of UMD's new Tweed Gallery is expected this summer. The gallery,

constructed under a \$228,000 gift from Mrs. Alice Tweed Tuohy and her daughter, Mrs. John W. (Bernice Tweed) Brickson, will supplant the present Tweed Gallery which Mrs. Tuohy gave the University in 1950.

Plans Made for Medical Library

Construction plans for a library building in the University Medical Center are now on an architect's drawing boards. The new building, which will consist of two floors, one below the ground level, will be constructed over the proposed laboratory research facilities. It will be located at the corner of Union and Essex Streets.

Participate in Security Conference

Several members of the University faculty participated in the recent conference on "National Security in the Nuclear Age" held on the Minneapolis Campus. Athelstan Spilhaus, dean of the Institute of Technology, spoke on "Implications of Satellite Development;" Rudolf Hermann, professor of aeronautical engineering, discussed "Developments in Rockets and Missiles;" W. O. Caster, assistant professor of

Portrait Presented



The above portrait of Alfred O. C. Nier, chairman of the School of Physics, now hangs in a Graduate School seminar room in Johnston Hall. A project originating with members of Professor Nier's high school graduating class, this portrait by artist Theodore Sohner was recently presented to the University by a group of the noted physicist's close friends.

physiological chemistry, spoke on "The Problem of Atomic Fallout," and Charles H. McLaughlin, director of the Center of International Relations and Area Studies, discussed "Proposals for an International Law of Outer Space."

Receives Citation

Dorothy Dyer, associate professor of interdisciplinary studies, was recently awarded a citation of merit from Ohio State University for her national leadership in the Family Life field.

Author, Edit, Publish Books

Recent publications, which represent the efforts of a number of SLA faculty members include a book, *Early English: A Study of Old and Middle English* by John W. Clark, professor of English; a volume, *Institutions of Advanced Societies*, edited by Arnold M. Rose, professor of sociology; a book, *Analytical Geometry and Calculus* by W. L. Hart, professor of mathematics, and a book, *The Fabric of Society*, co-authored by Ralph Ross, chairman of interdisciplinary studies.

To Receive Christian Culture Medal

Allen Tate, professor of English, will

receive the 1958 Christian Culture Award Gold Medal of Assumption University of Windsor, Ontario, at a ceremony in Windsor on May 4. The medal is bestowed on "an outstanding lay-exponent of Christian ideals."

Participate in Discussion Meet

Several University staff members participated in a recent discussion session on "Our Values and American Education" for Minnesota clubwomen.

Robert H. Beck, professor of education, spoke on "American Education and You;" William C. Rogers, director of the World Affairs Center, discussed political issues; Norman Abelson, assistant professor of music, spoke on music; G. Robert Stange, associate professor of English, on literature.

E. W. Ziebarth, dean of the Summer Session, moderated a panel discussion on "Other People's Educational Values." Panelists were Horace T. Morse, dean of the General College; W. Donald Beatty, associate professor of history; Emma B. Birksmaier, professor of education, and John B. Wolf, professor of history.

Co-author Geology Pamphlet

Professor George M. Schwartz, director

of the Minnesota Geological Survey, and Professor George A. Thiel, chairman of the Department of Geology, are the authors of a new pamphlet "Guide to the Minerals and Rocks of Minnesota." This pamphlet describes, in non-technical terms, the rocks and minerals of the state to aid collectors, teachers, Girl and Boy Scouts and others interested in identifying them. Free copies may be obtained by writing to the Survey, Pillsbury Hall, Minneapolis 14.

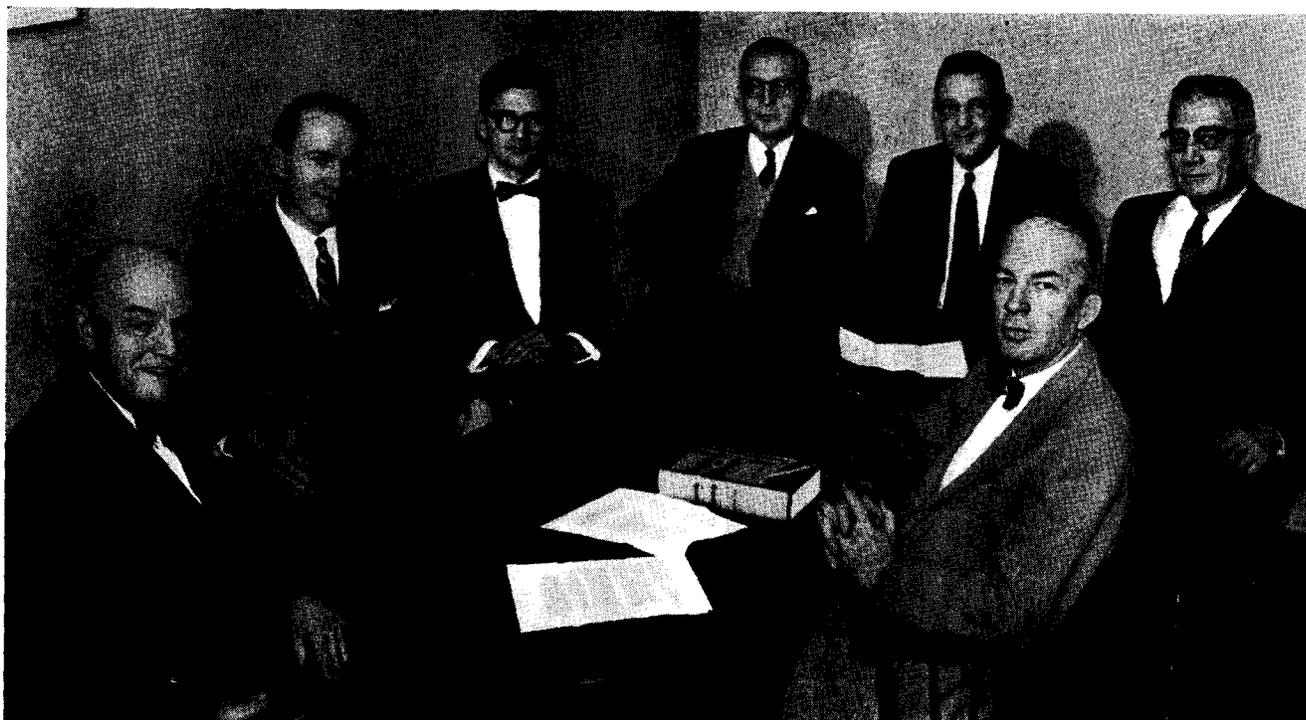
Completes Symphony

Ivar Glemming, instructor in instrumental music at the St. Paul School of Agriculture, recently completed his second symphony for full orchestra. Mr. Glemming, who directs the School's orchestra and band, has also composed a sonata for piano, a sonata for violin and piano, and several shorter numbers. Four of his piano compositions were played at the March meeting of the Minnesota State Federation of Music Clubs.

Directs Religion Conference

Henry E. Allen, coordinator of religious activities, is in charge of the first national meeting of Student Religious Activities to be held on the Minneapolis Campus April 18 and 19.

Committee on the Press Meets



The University's Committee on the Press posed for this picture at a recent meeting. Pictured left to right are Malcolm M. Willey, vice president of Academic Administration; John Ervin, Jr., director of the University of Minnesota Press; Dr. Robert B. Howard, associate dean of the College of Medical Sciences; Harold Macy, dean of the Institute of Agriculture; Julius M. Nolte, dean of the General Extension Division; Theodore C. Blegen, dean of the Graduate School, and E. W. McDiarmid, dean of the College of Science, Literature and the Arts.

Staff "Do-It-Yourself" Fans Utilize Art-Craft Facilities

Boat-builders, Potters, Photographers
Spend Creative Hours in Union Studio

"DO-IT-YOURSELF" is nothing new to the many staff members who patronize the Art-Craft Workshop located in the west end of the Coffman Memorial Union basement.

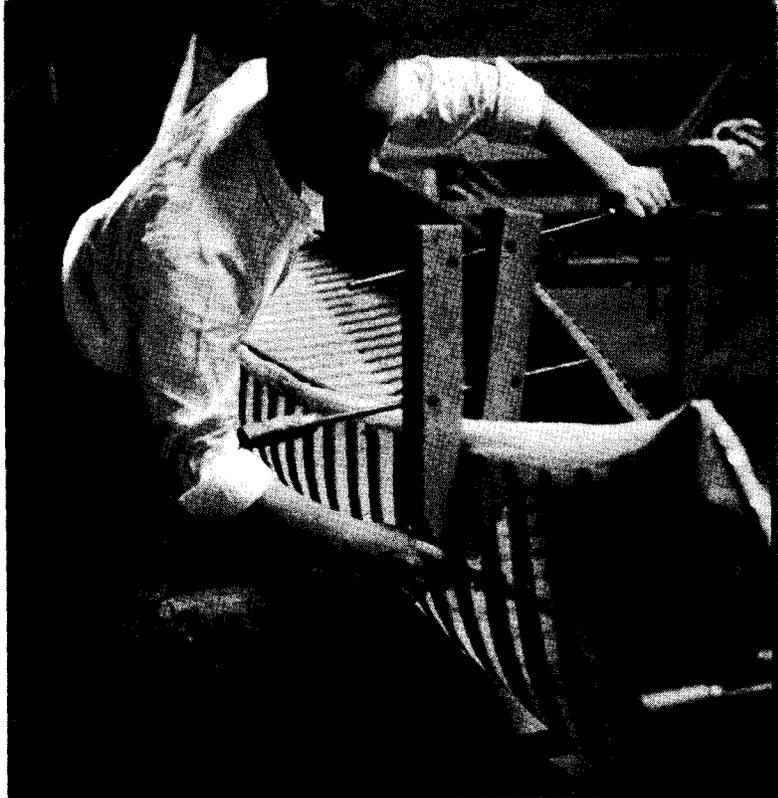
They have found Workshop facilities, equipment, and materials varied, reasonable, and easily available, and the hours (2 p.m. to 10 p.m. Tuesday through Friday, and 9 a.m. to 5 p.m. on Saturdays) ideally geared to most working schedules.

Louise Moberly, workshop supervisor, and Eldon Katter, administrative fellow, say the convenient hobby-center has room for many more potential craftsmen and women. The only requirement is the \$1.00 per quarter fee which entitles staff members to "privilege cards."

Individual hobbyists may design, build, paint, and sew whatever they wish. They may bring their own materials and equipment, or purchase the necessities for their particular projects which may vary from woodworking to ceramics to jewelry-making, weaving, leathercraft, welding, metal working, and sewing.

Boat-building seems to be a popular project this year. Thomas Bradison, refrigeration mechanic for the Physical Plant, has spent many evening hours during the past two months constructing a 14-foot, fibre-glass, covered fishing boat which is ready for summer excursions in Canadian waters.

Lawrence Jayko, research assistant in the Department of Bacteriology, is now putting a fibre-glass cover on a



Lawrence Jayko, research assistant in the Department of Bacteriology, is creating a 1958 version of a 1928 canoe.

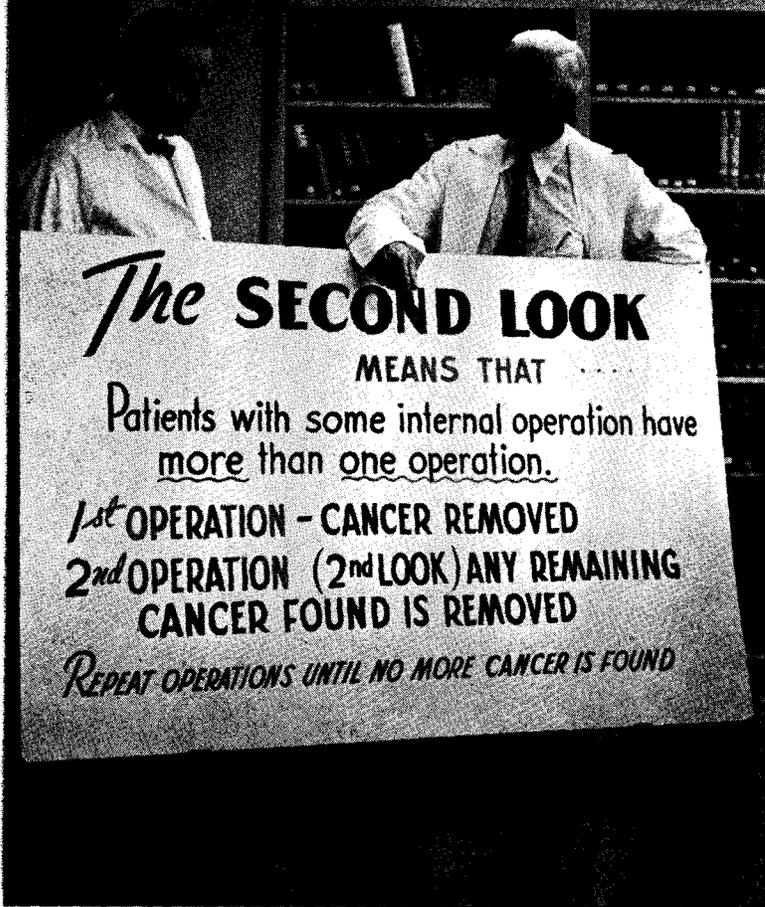
30-year-old Old Town Canoe which he is rejuvenating and hoping to have completed by June.

A trip to the Workshop three years ago in search of gun stock repairing materials was the start of Librarian Palmer Haugland's many visits. He decided to make a new gun stock instead of repairing the old, and went on to design and build two record cabinets, a cherry coffee table and several wooden bowls.

The Workshop is particularly busy just before the Christmas holidays. One creative designer of her own gifts is Evelyn Hultkrans, allergometric technician at the Health Service, who has made flower pots and other ceramic pieces and is now undertaking leatherwork projects.

Although the relaxation and satisfaction values of Art Craft Workshop projects are intangible, the end results are available for all to examine. A visit to the Coffman Union West basement is well worth-while.

A Craft Fair and Hobby Show has been scheduled for May 19 during the week of the Centennial Creative Arts Festival sponsored by the Union Board of Governors. All staff members are invited to display their hobbies or handiwork. Those interested should contact Diana Knight, Art-Craft committee chairman, 229 Coffman Union.



Surgical 'Second-Looks' May Save Cancer Victims

Dr. Stuart Arhelger, left, and Dr. Owen Wangensteen pose with a poster which summarizes the "second-look" theory of cancer surgery.

PATIENTS WHO HAVE undergone primary surgery for advanced gastric, colic, or rectal cancer may become the subjects of life-saving, multiple-look operative procedures developed in 1949 by Dr. Owen Wangensteen, head of the Department of Surgery.

A second surgical look (six or eight months after the first operation) is taken to remove, if possible, any additional cancer which might be present. If this second operation *does* reveal the presence of residual malignancy, it is removed, if at all possible, and a third operation is performed, perhaps a fourth, and so on until no cancer remains.

As a result of this multiple-look procedure, and through a gradual process, a group of patients with previously undetected fatal residue cancer appears to have been saved; five such patients, in fact, have now lived more than five years since their final operations.

One such patient, 70 years of age, first underwent surgery for cancer

of the colon in November, 1948; she had five more operations. After the sixth, Dr. Wangensteen was able to tell her that no more cancer was present. This was in February, 1951.

Although several operations may be necessary to eliminate residual cancer, Dr. Stuart Arhelger, who has directed the multiple-look program since 1953, explains that usually the patients who can be helped by this procedure need undergo only two or three "look" operations.

In addition to the gradual salvage of some patients with residual cancer, the second-look development has another important advantage.

The program has made it possible for surgeons to improve their methods for primary cancer surgery. This means another step forward in the crusade to accomplish more and more successful cancer removal through surgical procedures.

University surgeons, however, continue to stress the great importance of early diagnosis for improvement in the ultimate outlook for patients

who may have cancer.

Multiple-look surgery, a major cancer program at the University of Minnesota, has been supported by the Damon Runyon funds and by the Minnesota Division of the American Cancer Society. The program has attracted world-wide attention and has been adopted for selected cases by many physicians who have sought the advice and guidance of Doctors Wangensteen and Arhelger.

Since the beginning of the program, the second-look procedures have had wide acceptance among the patients who have been given the opportunity of making an informed choice for or against additional surgery.

Whatever the number of follow-up surgical procedures may be—two, four, five, or six—the end result is unquestionably a blessing to those people who are alive today because of a research development which has made a contribution to the gradual progress in the struggle to save lives otherwise likely to be destroyed by cancer.

THE QUESTION IS:

What Will Unemployment Compensation Mean to Civil Service Staff Members?

CIVIL SERVICE staff members at the University are now covered by Unemployment Compensation as a result of legislation by the 1957 State Legislature and action by the Board of Regents.

Excluded from coverage are all student employees as well as members of the Academic staff.

Who Pays Benefits?

Unemployment benefits are paid under Minnesota State Law with *employers only* paying into the Unemployment Compensation Fund. Deductions made from paychecks for social security benefits are for Federal Old Age and Survivors Insurance for payment of old-age benefits at retirement age, under the program administered by the Federal Government.

For the present, the University's cost of unemployment compensation will be met, as far as possible, from central funds. According to law, the remainder will be provided by the State Legislature.

How Unemployment Compensation Works

A Civil Service staff member who becomes unemployed must first visit the nearest office of the Minnesota State Employment Office to register for work. If there is none available, he then applies for Unemployment Compensation.

The amount of the benefits he will receive will be determined by his earnings in covered employment for his "base period." This term refers to a past one-year period.

As an example: if a staff member files a claim this year between April 1 and June 30, his base period will be last year between January 1 and December 31. If he files a claim for benefits between July 1 and September 30 this year, his base period would be last year between April 1 and December 31 and this year between January 1 and March 31.

University earnings will count only since July 1, 1957, however, since that is the date the law went into effect for State and University employees.

If wage credits in the individual's base period totaled \$2350.00 and \$2449.00, for example, the total maximum amount of benefits payable during a benefit

year would be \$768.00; the weekly benefit sum would be \$32.00.

All employers for whom the individual has worked during his base period are sent forms on which his earnings are recorded. A determination is made from these records as to the amount of benefits to be received.

Some Individuals May Be Disqualified

If a staff member voluntarily quits his job or is discharged for misconduct, he may be disqualified from receiving benefits for a period of from three to seven weeks. Other individuals who may be disqualified for specific time periods are those leaving because of pregnancy or those who fail to apply for or accept suitable work offered either by the State Employment Office or an employer.

Detailed Information Available

A detailed pamphlet which outlines these and other facets of unemployment compensation is available and interested staff members may obtain copies from their department heads or from the Office of Civil Service Personnel, 12 Administration Building, Minneapolis Campus.

This office has been designated to maintain records and furnish wage and separation information as required by the Minnesota Employment Security Law.

Departmental Responsibilities

Department heads are responsible for notifying the Civil Service office promptly regarding a staff member's separation and the reason for his leaving by submitting a combined notice of employee separation and service rating form.

Departments also are responsible for issuing the information pamphlet and for displaying the poster entitled "Notice To Employees of the State of Minnesota."

Hedwin C. Anderson, director of Civil Service Personnel, W. L. Pedersen, senior personnel representative, and other members of the Civil Service Personnel staff are available for staff meetings to explain more fully the procedures and operations of the Unemployment Compensation Act.

University of Minnesota Calendar of Events

APRIL, 1958

MINNEAPOLIS SYMPHONY CONCERTS

Northrop Auditorium 8:30 p.m.

April 4—Orchestral Program
April 11—Beethoven's Ninth Symphony
(Single tickets from \$1.75 to \$4.00. Reservations may be made at 106 Northrop.) †

UNIVERSITY ARTISTS COURSE CELEBRITY SERIES

Northrop Auditorium 8:30 p.m.

April 1—Obernkirchen Children's Choir
(Single tickets from \$1.00 to \$3.00. Reservations may be made at 105 Northrop.) †

THURSDAY MORNING CONVOCATIONS

Northrop Auditorium 11:30 a.m.

April 3—Dubois' "Seven Last Words"
April 10—Organ Recital by Edward Berryman
April 17—Lecture by Bosley Crowther, film critic and motion picture editor of the *New York Times*.
April 24—University Men's Glee Club

SPECIAL CONVOCATION

Northrop Auditorium 8:00 p.m.

April 27—Program Honoring the Tenth Anniversary of the State of Israel.

SPECIAL LECTURES

April 8—"The Origin and Development of Musical Instruments Through the Renaissance" by Edith J. Freeman of the Detroit Museum of Art Founders' Society.
(*Scott Hall Auditorium, 11:30 a.m.*)
April 11—Dr. John Bedeau, head of the Near East Foundation.
(*Museum of Natural History Auditorium, 3:30 p.m.*)
April 25—"Arab-American Relations" by Dr. Fayez Sayegh, counselor to the Arab States delegation to the United Nations.
(*Museum of Natural History Auditorium, 8:00 p.m.*)

UNIVERSITY THEATER PERFORMANCES

Young People's University Theater

April 19-20—*Paul Bunyan's Lumberjacks* by Helen and Lowell Manfull.
(*Scott Hall Auditorium, 10:30 a.m. and 3:30 p.m. April 19, and 3:30 p.m., April 20. Tickets at \$.50 on sale at Scott Hall Box Office.*) †

French Play

April 8-12 (*Arena Theater, Shevlin Hall*). Performances at 8:30 p.m. each day except April 10 which is a 3:30 p.m. matinee. Tickets at \$.60 on sale only at 200 Folwell Hall.)

Special Performances

April 23-27—*Streetcar Named Desire* by Tennessee Williams.
(*Arena Theater, Shevlin Hall*, Performances at 8:30 p.m. April 23-26, and at 3:30 p.m. April 24 and 27.)
April 23-27—*Dance of Death* by August Strindberg.
(*Scott Hall Studio Theater*, Performances at 8:30 p.m. April 23-26, and at 3:30 p.m., April 25 and 27.)
(Single tickets at \$1.25 on sale only at Scott Hall Box Office.)

MUSIC DEPARTMENT CONCERTS

Scott Hall Auditorium 8:30 p.m.

(Unless otherwise noted.)

April 9—Joyce Zastrow, soprano, with Paul Freed, pianist.

April 13—Thelma Hunter, pianist.

(Time: 4:30 p.m. Admission charge.)

April 13—Janice Baldwin, pianist.

April 18—Mary Louise Schweikert, soprano, with Julie Vincent, pianist.

April 30—Anne-Marit Studness, soprano, with Alma Mehus Studness, pianist, and John Hardesty, flutist.

April 25-27—Annual Opera Presentation. (Time to be announced. Admission charge.)

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

March 31-April 5—"Lenten Music Festival"

KUOM music programs feature Easter season selections. Fridays beginning April 11—"Public Affairs Forum" (1:30 p.m. Featuring a series of lectures recorded at the conference on "National Security in the Nuclear Age" held at the University in February.)

SIGNIFICANT UNIVERSITY TELECASTS

Channel 2, KTCA-TV

Monday, 9:00 p.m.—*At Home With Music* featuring the faculty of the Department of Music.

9:30 p.m.—*Shakespeare* with Robert Moore, associate professor of English.

Tuesday, 9:00 p.m.—*Playing With Your Child* with Evelyn Helgerson, assistant professor of child welfare.

9:30 p.m.—*The Proper Study of Mankind* presented by the Social Science Research Center.

Wednesday, 9:00 p.m.—*Folk Songs* with Gene Bluestein, instructor in English.

9:30 p.m.—*Shakespeare* with Robert Moore.

Thursday, 9:00 p.m.—*TV Journal* with Robert Lindsay, instructor in journalism.

9:30 p.m.—*Town and Country* with Raymond Wolf, assistant professor, Agricultural Extension Service.

Friday, 9:00 p.m.—*Pages from the Past* with Tom Jones, professor of history.

9:30 p.m.—*Thinking About Religion* with Paul Holmer, professor of philosophy.

UNIVERSITY GALLERY EXHIBITION

April 14-May 18—"Music and Art"

APRIL UNIVERSITY PRESS PUBLICATIONS

The Paradox of Progressive Thought by David W. Noble, \$6.00.

International Propaganda: Its Legal and Diplomatic Control by L. John Martin. \$5.75.

How To Estimate the Building Needs of a College or University: A Demonstration of Methods Developed at the University of Minnesota by William T. Middlebrook. \$15.00.

MUSEUM FILM PROGRAMS

Museum of Natural History Auditorium 3:00 p.m.

April 6—"Reptiles: Tall Stories and Facts"

April 13—"Skin of the Earth"

ATHLETIC DEPARTMENT EVENTS

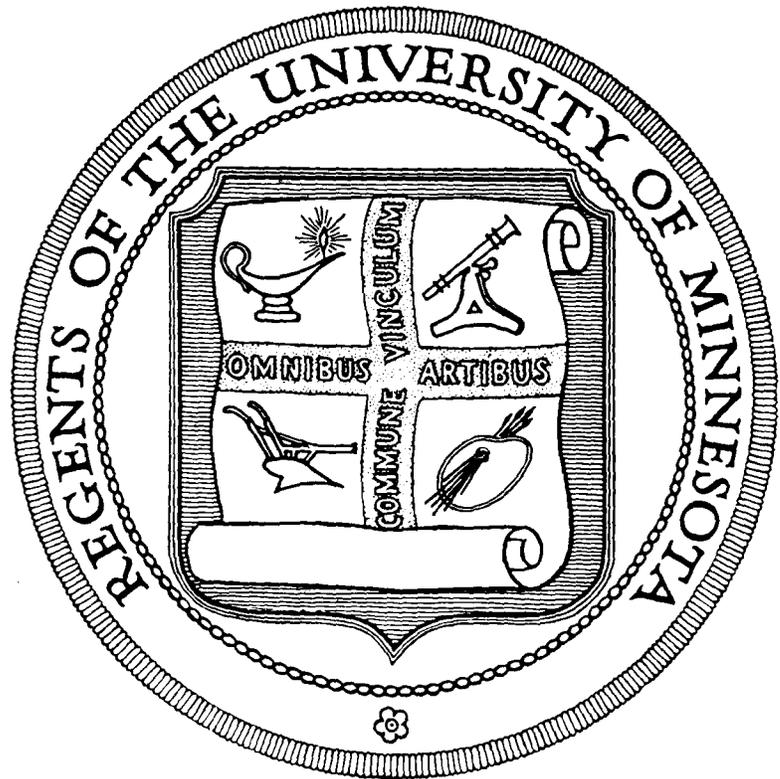
April 5—Tennis Clinic. (*Cooke Hall, 11:00 a.m.*)

Home Baseball Games

April 18-19—University of North Dakota
(*Delta Field, 3:30 p.m. April 18, and 1:00 p.m. April 19.*)
Tickets at \$1.00 for adults and \$.25 for children on sale at gate only.)

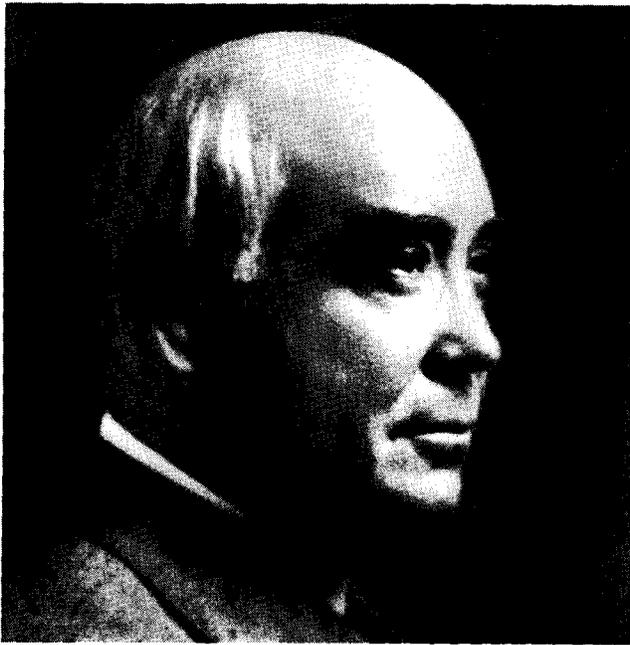
Unless otherwise indicated, events are open to the public without charge.

† Tickets for these events are also available at the Field Schlick Ticket Office in St. Paul and the Downtown Ticket Office, 188 Northwestern Bank Building in Minneapolis.



THE MINNESOTAN

The University Staff Magazine - *May 1958*



Dr. Donald J. Cowling

They Made Us Great

ONE DAY IN 1955, a sincere, dedicated man spoke before a group gathered in Los Angeles to honor him as a founder of an organization called "Spiritual Mobilization."

The group was saluting this gentleman for his part in establishing the organization which describes itself as "devoted to the solution of government, social, and economic problems at the spiritual level." Its basic tenets outline a firm opposition to "socialism and statism."

The purpose of the organization helps explain the philosophy of the founder, for Dr. Donald J. Cowling is an individual who has spent years of his life working for the solutions to many of humanity's social problems. Not a few of these years have been spent, without material reward, dedicated to the University of Minnesota.

Dr. Cowling, who served as president of Carleton College in Northfield, Minnesota, from 1909 to 1945, is a confirmed believer in citizen-responsibility for fellow citizens, and he has put this belief to actual practice.

As chairman of the Mayo Memorial Commission, Dr. Cowling saw the dream of a great medical center at the University come true. More recently as chairman of the executive committee of the Masonic Cancer Relief Committee of Minnesota, he helped bring into reality the Masonic Memorial Cancer Hospital now under construction.

A life-long exponent of progress and freedom in higher education, Dr. Cowling has made his firm convictions contagious. His influence has stimulated hundreds of individuals who have enthusiastically and generously supported many worthwhile University activities.

Aside from his University contributions, which are countless, Dr. Cowling has made his state and nation, as well as his state University, great through his many humanitarian activities. His generosity of time and of spirit have inspired many citizens to rise to his conception of "greatness."

He has worked unstintingly for a number of educational groups, serving as president of both the Association of American Colleges and the American Council on Education, as well as on many educational commissions and delegations and on countless state church and civic committees.

As Carleton's "President Emeritus," Dr. Donald Cowling, a symbol of man's freedom—as well as his responsibilities—has turned his years of retirement as well as his active professional years into a meaningful lifetime of service to the University, the state, and the entire country. It would not be inaccurate to say that the whole world community becomes a better place to live because of a man with Dr. Cowling's qualities, social conscience, and concept of service to fellow human beings.

On the cover . . .

The University of Minnesota helps its "younger brother," the state of Minnesota, celebrate his Centennial. (See story on the following pages.)

The two, symbolized on this month's cover by their individual seals, are close not only in age but in attitudes and concepts of service to citizens within the University community and throughout the state.

THE MINNESOTAN

Vol. XI No. 8

Published by the department of University Relations, 213 Administration Building, University of Minnesota, Minneapolis 14, Minnesota.

William L. Nunn, Director

Ann Tucker Editor
 Emma Jund Associate Editor

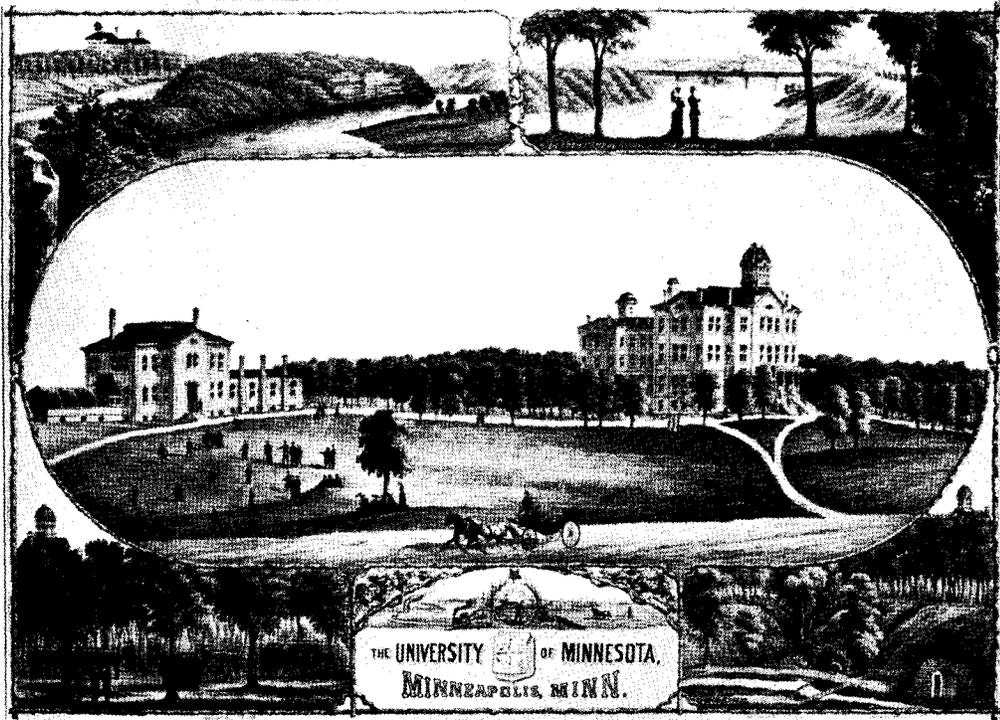
Advisory Committee: Members of the University Public Information Council.

The Minnesotan is published monthly from October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2 a year, 25 cents a copy. Copies of this issue are on sale at Coffman Memorial Union Bookstore.

Photographs, unless otherwise credited, were taken by members of the University Photographic Laboratory.

Entered as second-class matter at the post office at Minneapolis, Minnesota.

University Helps State Celebrate Centennial



The University grounds and buildings as they appeared in the early 1880's.

Artists, Home Economists, Musicians, Administrators, Horticulturalists, Educators, Program Consultants, and Writers Contribute Their Talents to Year-Long Celebration

CITIZEN EXUBERANCE over Minnesota statehood in 1858 probably did not extend to the fathers of the University who, in that year, were finding that their seven-year-old son was indeed a problem child.

One hundred years later, citizens of the entire state are enthusiastically working for their state's Centennial observance, with representatives of the University contributing their share to the celebration.

The University in 1858

Yet in 1858 there were gloomy prophecies that the noble experiment of a University "to provide for (state) inhabitants the means of acquiring education" would fail. Construction of Old Main, the building which was to be in five sections, had been started, but only the west wing and its extension were complete. The 1858 Legislature had authorized the Board of Regents to issue \$40,000 in bonds secured by the University's holdings in land. Unfortunately, there was

doubt that these would be accepted as state bonds; few individuals in the eastern market showed any interest in them. Still the crisis passed, and the same year a fragment of Old Main opened with Professor A. H. Barber as principal.

Enter problem two: the Professor ruled against the admission of females, thus arousing a controversy in the state press. Feminist editors expressed their wrath; tempers were aroused; the action was rescinded, and another crisis passed.

Problem three involved the Reverend Mr. Neill who was appointed chancellor in 1858; he resigned (later withdrew his resignation) because the University was "too poor" to even supply him with stamps and stationery.

So 1858, the glorious year of statehood for Minnesota, was not a bright one for its University. A century later, however, the same University presents quite a different picture as a flourishing, vigorous older brother to its state.

Because it is only fitting that the older helps the younger celebrate such a milestone, University staff members throughout the state are contributing their time and efforts to making this birthday a meaningful, memorable occasion.

University Committee

The University Committee on the State Centennial was set up to facilitate University participation. Malcolm M. Willey, vice president of Academic Administration, is chairman of this committee which is serving as a central contact and "idea" group to insure maximum University participation. The University is most concerned with giving contributions with continuing impact, according to Vice President Willey—youth programs, short courses, creative arts, publications, etc.

Assisting Vice President Willey as committee members are: Harvard H. Arneson, chairman of the Department of Art; Theodore C. Blegen, dean of the Graduate School; J. O.

UNIVERSITY HELPS
CELEBRATE CENTENNIAL

Christianson, superintendent of the School of Agriculture; Raymond W. Darland, provost of UMD; John Ervin, Jr., director of University Press; Theodore Fenske, associate dean of the Institute of Agriculture; Don Finlayson, Union program director; James Lombard, director of the Department of Concerts and Lectures; Charles H. McLaughlin, professor of political science; William L. Nunn, director of the Department of University Relations; Edward B. Stanford, director of University Libraries, and Stanley J. Wenberg, assistant to the President.

Superintendent Christianson is also serving as chairman of the statewide Minnesota Centennial Speakers' Bureau which will provide civic and community groups with speakers for their Centennial events.

These events will have the help of a number of similar committees—agriculture, education, business-industry-labor, mining, sports, cultural arts, religion, military, health, law, conservation and recreation, women's activities, government and so on. Many staff members are serving as committee members and as chairmen.

St. Paul Campus Participation

Associate Dean Fenske is chairman of the state-wide agriculture committee. Serving on subcommittees are Skuli Rutford, director of the Agricultural Extension Service, and C. H. Bailey, dean emeritus of the Institute of Agriculture. Both are on the fair exhibits committee with Dean Bailey also a member of an agricultural book committee. Gerald McKay, extension specialist in visual education, is a member of the films committee.

Many events closely allied to St. Paul Campus activities have followed or will follow Centennial themes this year. The State Rural Youth Confer-

ence and Short Course held in March had as its slogan "Our Centennial Challenge." The Centennial was also the dominating theme for Farm and Home Week in January.

From May 4 to 10, women all over the state will be attending Home Achievement Days, a part of National Home Demonstration Week. In counties throughout Minnesota, home economics extension specialists will be using Centennial ideas like "From Log Cabin to Push Button Homes" or "Homespun to Chromespun" as themes for talks.

4-H club members and their leaders will also be contributing their share to the state observance during District 4-H Club Week and the State 4-H Club Leadership Conference, both to be held in June. The 4-H exhibits at the 1958 Minnesota State Fair will also be Centennial-inspired as will the May "Minnesota Royal" student open house on the St. Paul campus.

Another colorful student activity will be the Wagon Train excursion from Stillwater to St. Paul, complete with costumes, a "Remember When" theme, and a special evening barbecue and chuck wagon chow when the train reaches its destination.

Variety of Activities

A sampling of additional University activities include such typical contributions as these:

A series of 39 Centennial radio programs, produced by KUOM as a part of the Minnesota School of the Air offerings. These programs, designed for in-school listening in intermediate grades, deal with the state's past, present, and future with such topics as Charles Lindberg, the Doctors Mayo, the St. Lawrence Seaway, and the growth of churches and schools.

The University of Minnesota Press is publishing a picture book "The Face of Minnesota" by John Szarkowski, issued in commemoration of the state's one-hundredth anniversary. It will be published on May 5, just a week before the official anniversary date which falls on Sunday, May 11.

Other creative arts are represented in the number of choral compositions written by University and other Minnesota college faculty members. A Centennial concert held in March featured these numbers sung by a Centennial Chorus under the direction of Allen R. Roby, teaching assistant in music.

Helen Hartwick, Union program consultant, was responsible for University student talent in the Centennial state-wide talent contest which has already introduced fledgling stars to state audiences.

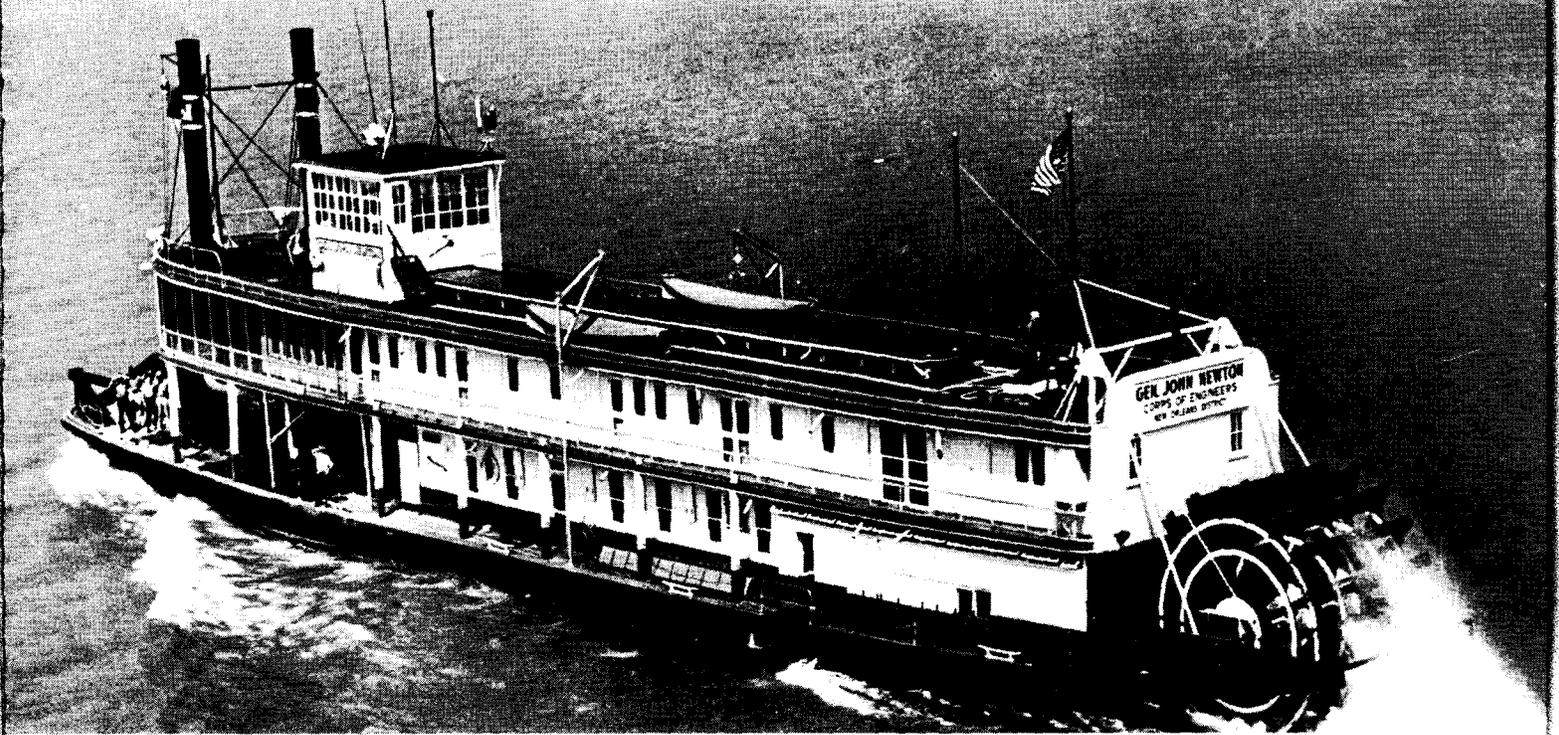
A Craft Fair and Hobby Show has been scheduled for May 19 during the week of the Centennial Creative Arts Festival sponsored by the Union Board of Governors. This exhibit will include contributions from staff members whose talents range from jewelry making, to sculpture, to leatherwork.

Centennial Showboat

Another colorful addition to the Centennial will be the Centennial Showboat which is now being remodeled by Physical Plant staff members. A Centennial subcommittee on music and dance, headed by Frank Whiting, director of the University Theater, will present 99 performances of old-time melodramas at Minnesota river towns this summer.

Minnesotans will also be enjoying the new Centennial apple-crab developed expressly for the 100th birthday celebration by members of the

The Minnesotan



Here comes the showboat—the Centennial Showboat on which the University of Minnesota Theater will present a series of productions this summer.

Department of Horticulture on the St. Paul Campus. These same staff members will be instrumental in developing the resources of the new Landscape Arboretum which the University accepted as a Centennial gift from the State Horticultural Society.

Centennial Looks Ahead

Because the entire Centennial program has a "look ahead" note to it to focus on opportunities for Minnesota's future, education activities are a vital part of the observance.

With this feature in mind, the Association of Minnesota Colleges last month sponsored a three-day Centennial Conference on College Teaching. The conference was held on the Minneapolis Campus and had as its co-chairman, Russell M. Cooper, assistant dean of the College of Science, Literature and the Arts. One of the principal addresses was given by Dean Blegen. Other participants included Burton Paulu, director of the Department of Radio and Television Broadcasting, and C. Gilbert Wrenn, professor of education.

The Summer Session and the Center for Continuation Study are sponsoring an institute on Minnesota Government July 21 through August 1. Minnesota's 100-year-old Constitution will be the theme of this institute.

Staff members attending University anniversary events and special convocations since January 1 have probably noticed the use of the Centennial seal on the printed programs for these events.

The entire observance will be highlighted by Centennial Week early this month. There will be a special convocation in Northrop Auditorium the evening of May 9, with President J. L. Morrill presiding. Speakers will include Prime Minister Hanson of Denmark and Princess Astrid of Norway. The University Band under the direction of Gale L. Sperry, instructor in music, and the University chorus under the direction of James Aliferis, professor of music, will also be featured.

President Morrill will be host at a reception in Coffman Union follow-

ing this convocation. Representatives of the five Scandinavian countries will be honored guests.

On Saturday, May 10, the Women's Centennial Committee will take over the Union Main Ballroom for a luncheon, and on Sunday, May 11, a gigantic Centennial program will be held in Memorial Stadium. Later the same week, the University Theater will present Thornton Wilder's *The Matchmaker* as their Centennial performance.

The list of activities is certainly far from complete with additional programs and projects still in the planning stages.

Before 1958 comes to a close, University staff members will be drawn into the celebration which cannot help but touch the lives of everyone in some way—through music, government, crafts, education, agriculture, and dramatics.

The discouraging campus days of 1858 produced an institution which can proudly celebrate a memorable Centennial.



Duluth Campus students enjoy summer-session weather at UMD. Building in the background is Old Main.

Good Old Summertime Brings Varied Activities to University Campuses

Music, Movies, Melodrama—All Available to Summertime Staff

THE GOOD OLD SUMMERTIME is just that on the University's campuses, for staff members can find a wide variety of "after-hours" activities to make the summer months interesting and enjoyable.

Although the regular Minneapolis Symphony concerts and the University Artists Course series are discontinued during the summer months, music lovers will be able to enjoy special summer concerts, most of them free of charge. Each Tuesday evening during the two summer sessions there will be free concerts at Northrop Auditorium. The Music Department will also present occasional programs throughout both sessions.

Motion picture fans will be able to see an outstanding series of films, both foreign and domestic, each Wednesday evening at Northrop for a small charge. Another weekly film feature (presented during the noon-hour) is the Newsreel Theater.

A number of stimulating special convocations and lectures will be offered, including addresses by well-known scientists, literary figures, artists, and observers of national and international affairs.

The University Theater will present "live" dramas throughout the summer months including repeat performances of several 1957-58 productions as well as the Centennial Showboat productions which will be a highlight of summertime 1958 at the University.

Art enthusiasts will find the University Gallery located on the third and fourth floors of Northrop Auditorium open during the summer months. A special exhibition of interest will be "The Arts of Norway" which opens in June.

Nature lovers can spend week-end hours at the Min-

nesota Museum of Natural History. Although the regular Sunday film programs are discontinued for the summer, the Museum corridors are open weekdays from 9:00 a.m. to 5:00 p.m. and Sundays from 2:00 to 5:00 p.m.

Sports fans will be heading for the 18-hole University Golf Course or one of the 25 tennis courts.

Staff members will also find the Coffman Union facilities available during the summer months—the Art Craft Workshop, open bowling, table tennis, and billiards, to mention just a few.

The Union on the St. Paul Campus will also be open throughout the Summer Sessions.

Duluth Campus staff members will find a variety of special concerts, lectures, and other events for their leisure-time enjoyment. An innovation at UMD this summer is the Theater Workshop which will present three plays.

Even staff members who will be spending most of their free time away from the campus during the summer will be able to enjoy University programs.

The University of Minnesota Hour seen on Channel 2, KTCA-TV, Monday through Friday from 9:00-10:00 p.m., will continue throughout the summer months.

Individuals driving to and from lakes and beaches in the area are urged to keep their radios tuned to KUOM for an outstanding series of summer programs.

From 7:00-8:00 p.m. each Wednesday evening, June 4 through August 27, KUOM will present a series of Minneapolis Symphony Orchestra broadcasts—programs of music recorded during actual concert performances in Northrop Auditorium during the past season.

From June 7 through September 20, KUOM will offer regular "Saturday at the Opera" performances from 2:00 to 5:00 p.m.

Grocery Bill Experts Help Consumers and Retailers

Best Buys Program Operates on the Theory of Informing Shoppers to Help Them Develop Intelligent Buying Habits

TRIMMING GROCERY BILLS is the business of a group of University staff members who are dedicated to the ever-present problem of keeping the food budget in line. The principle they follow is that only well-informed shoppers who follow intelligent buying practices can hope to adhere to the most practical budget plans.

The University's Best Buys program helps not only consumers but market growers and retailers as well, for it is a distinct aid in moving produce. The program also extends beyond locally-grown food to shipped-in fruits and vegetables.

The heart of the Best Buys program is a committee which includes a federal-state market news reporter and a market-master as well as University representatives from the Agricultural Extension Service: Harold Pederson, economist; Eleanor Loomis, consumer marketing agent; George Roadfeldt and Roger Conklin, agricultural agents from Hennepin and Ramsey counties respectively; Orrin C. Turnquist, horticulturalist, and Josephine Nelson, assistant editor.

These people see to it that the Best Buys program works on a well-defined schedule from June through September. Each day at 5:00 a.m., the federal-state market news reporter visits the Minneapolis Municipal Market. After he has checked on the supply, quality, and prices of locally-grown fruits and vegetables, he visits the wholesale market where he ob-

tains similar information on shipped-in produce.

At 8:00 a.m. he phones his report to the St. Paul Campus Information Service which relays the news on daily good buys to the press, radio, and television stations.

The same valuable information is featured on Josephine Nelson's "Highlights in Homemaking" radio program on KUOM.

The Best Buys data include tips on canning and freezing. Assistant Professor James D. Winter and Instructor Shirley Trantanella, from the Department of Horticulture, furnish the hints on freezing; Assistant Professor Grace D. Brill and Instructor Verna Mikesh, both nutritionists, are the canning experts.

As consumer marketing agent, El-

eanor Loomis helps homemakers with their food shopping problems through her frequent radio and television talks and speeches to women's club groups. She also works through films made especially for television and for showing at county extension meetings. The films are produced by Raymond S. Wolf and Gerald McKay, extension specialists in radio and visual education respectively, and by the Audio-Visual Education Service.

The thoroughness of the Best Buys program and the number of individuals involved prove the University is interested in Mrs. Minnesota Housewife and in answering her questions on when tomatoes are best for canning, when she should buy strawberries for freezing, or when Colorado peaches are on the market.

Consumer Marketing Agent Eleanor Loomis appears frequently on both television and radio with tips on the best food buys of the week.



May, 1958

Have You Met?

Gladys Upham

As secretary to Theodore C. Blegen, dean of the Graduate School, Mrs. Upham is responsible for arranging appointments and schedules for one of the University's busiest administrators. She is kept busy at home, too, with four active teen-age sons.



John Bowditch



Professor Bowditch will become chairman of the History Department effective next September. He succeeds Professor Herbert Heaton who retires next month. The chairman-elect has been at the University since 1947.

John Tester and Richard Barthelemy



Mr. Tester, assistant scientist, and Mr. Barthelemy, research assistant at the Museum of Natural History, examine a selection of birds used at a recent Sunday afternoon Museum film program.

Gertrude Battell

Mrs. Battell, principal librarian, has been on the St. Paul Campus for nearly 10 years. Her husband is also a librarian—for Minnesota and Ontario Paper Company in Minneapolis.



Barbara Walstein and Robert Foster

Under the direction of Mrs. Walstein, campaign secretary, and Robert Foster, campaign director, the recent Minneapolis Campus and Rosemount Research Center Red Cross Drive was an outstanding success with staff members contributing \$11,400. Mr. Foster is assistant director of insurance and retirement.



The Minnesotan

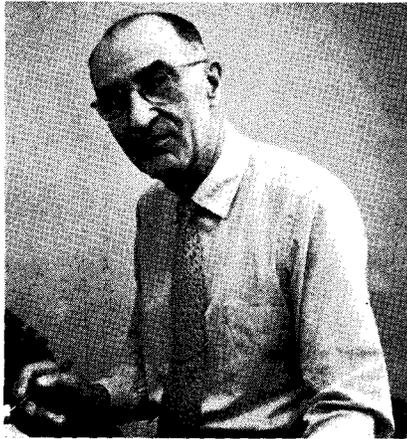
William Rogers



Mr. Rogers, who is director of the State Organization Service, will conduct an adult summer European tour. This program is designed to let the participants see the United Nations at work in Europe. Planned by the General Extension Division, the tour will include classwork at the University of Geneva.

Loretta Jahnke

Coffman Food Service Cook Loretta Jahnke is an authority on sandwiches — particularly grilled cheese and hamburgers, both top favorites among students and staff members.



Waldemar Magnuson

Mr. Magnuson has been a valuable member of the Printing Department since 1928. As assistant manager, he takes care of charges on each job, supply orders, and photostating orders.

Evelyn Helgerson

Miss Helgerson, assistant professor of child welfare, has become a television personality. Her program *Playing With Your Child*, produced by the University's Department of Radio and Television Broadcasting, is seen over Channel 2 on the University of Minnesota Hour each Tuesday evening from 9:00 to 9:30.

Irvin Liener

A well-known research worker in biochemistry and nutrition on the St. Paul Campus, Irvin Liener, associate professor of agricultural biochemistry, came to the University in 1949.



Opportunities Await Prospective Regents' Scholarship Recipients

*Improved Skills, Increased Job-Understanding
Can Be Achieved Through Scholarship Program*

ONE OF THE advantages of Civil Service status at the University is the opportunity to take University of Minnesota class work for personal development and job promotion, according to Frank Pieper, Civil Service training coordinator. Still many Civil Service staff members have not yet taken advantage of this opportunity.

Class work offered to Civil Service staff members at the University falls into three categories: the Regents' Scholarships, evening classes offered by the General Extension Division, and regular University day classes.

Twenty Regents' Scholarships are offered each quarter to full-time staff members on the St. Paul and Minneapolis Campuses. Six scholarships are

awarded each year to staff members on the Duluth Campus. The Duluth program was set up under a separate resolution by the Board of Regents.

Purpose of Scholarships

The purpose of these scholarships is to help staff members improve their skills in their present jobs or to help prepare them for promotion.

The scholarships are awarded on the basis of the relationship between the course to be taken and the staff member's present job, and on the possibilities for promotion. Other considerations include: ease in arranging time off to attend classes, the length of time the staff member has been at the University, and whether or not the same course is offered in the General Extension Division.

The scholarship program was set up in 1939 by the Board of Regents "to provide the holders with the opportunities for self-development that will come through further study in the fields directly related to their present University positions or to positions that might be expected to develop through normal promotion."

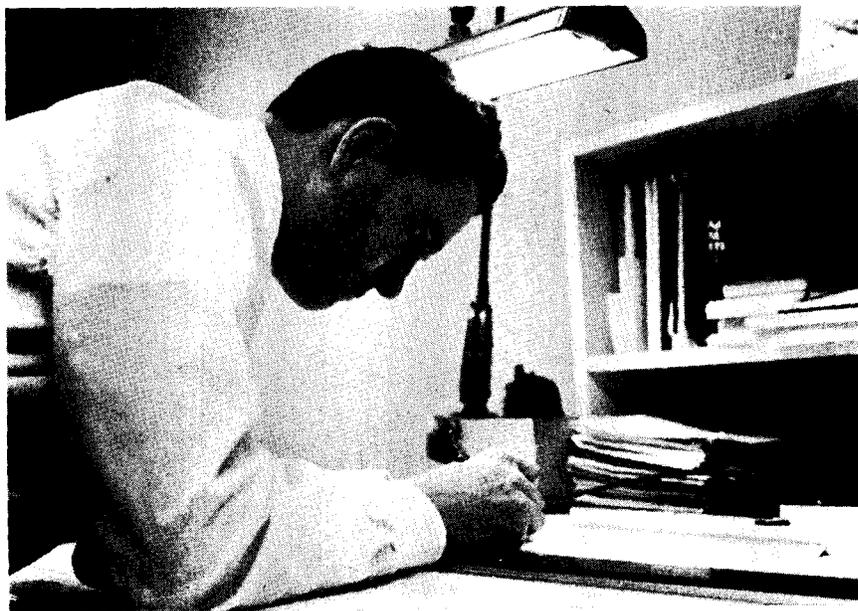
Since 1939, approximately 1,000 scholarships have been awarded. Many of these scholarships, according to Mr. Pieper, have been in the clerical field and in scientific and library science courses.

Present Recipients

Gertrude Shevlin, senior clerk in

The Minnesotan

Norman Rick, Physical Plant engineer, is a spring-quarter recipient of a Regents' Scholarship. He is taking a course in Farm Work Simplification to increase the usefulness of his designs of farm buildings and agricultural research station facilities. Mr. Rick says, "Since so much emphasis is being placed on the time element of labor, architects are trying not only to create buildings with functional appearances; they are also trying to design interior facilities which will provide maximum efficiency for the farm worker."





Robert Bollinger, occupational therapist, Department of Physical Medicine and Rehabilitation, is using his first Regents' Scholarship to better his understanding of vocational counseling. He is studying occupational psychology to learn the reasons vocational counselors have for prescribing rehabilitation therapy for patients.

the Education Seminar room at the Minneapolis Campus Library, is using the Regents' Scholarship program to fulfill her desire to become a children's librarian.

To augment her study program, Mrs. Shevlin has taken evening courses in the Library School through the General Extension Division. This quarter she is taking a course in children's literature under her second Regents' Scholarship. She also feels that in her present position, this course will acquaint her with a greater scope of children's literature so she may be of greater help to individuals using the facilities of the Education Seminar room.

The advantages of the Regents' Scholarship program first became evident to Norman Adamson, principal laboratory attendant, when he applied for a position on the staff. This quarter, under his first scholarship, Mr. Adamson is studying general physiology. In his present capacity, he services general zoology laboratories and prepares specimens for microscopic use. This course will aid

him in setting up demonstrations and will acquaint him with the apparatus and methods used in the research laboratories.

Promotions are also achieved through the Regents' Scholarship program. Mavis Peterson, Admissions and Records, was promoted to senior clerk-typist through the scholarship program. She felt that she wanted a job with more typing than her original position required, but she needed to improve her skills before she could pass the required typing tests. She took intermediate typing for a quarter, then received her promotion.

Value of Program

Mr. Pieper (who is the author of the new publication *Modular Management and Human Leadership*) says there is increasing interest in the scholarship program. He adds that because the scholarships have proved their value over and over again, it is important that the University stimulate interest among staff members. This can be achieved by office supervisors who publicize the scholarship program in their departments.

Statistics from a recent study of the scholarships show that on the average, the tenure of scholarship recipients is twice as long as that of non-scholarship recipients.

First step in applying for a scholarship is to secure an application blank from either Room 14, Administration Building, or from Room 302, Johnston Hall on the Minneapolis Campus. The completed blanks are then reviewed by the Civil Service Committee.

Scholarship Committee

Members of this committee are: Ray Archer, director of insurance and retirement; Theodore Fenske, associate dean of the Institute of Agriculture; Henry Hartig, professor of electrical engineering; James Stephan, associate director of hospital administration, and John Turnbull, professor of economics. These people re-

view the proposed study program of each applicant and select the holders of the Regents' Scholarships.

Regular Classes

Regular University classes may also be taken for personal enjoyment, or possibly as credits for a degree, Mr. Pieper says. In order to take these courses, staff members must make arrangements with their supervisors and the Office of Civil Service Personnel to either make up the time or take a payroll deduction. Employees who do this can take up to six class hours a week; they must pay the regular tuition rates.

The initiative of the staff member in taking a regular University class on his own is a factor in his favor when the Committee reviews applications for Regents' Scholarships.

Delores Dickinson, clerk-typist for the Veterans Counseling Center, is just one of the many staff members who have used the Regents' Scholarship program as a means of self-development. She is taking the final sequence in a communications course under her third scholarship.



*Ice Cream Is Mmmmmmm Good—
Thanks to St. Paul Research*

Ice Cream Detective Work Solves Storage Problems

THE FACT THAT ice cream seems like a genuine treat every time you eat it is no accident!

For more than 30 years, dairy products scientists on the St. Paul Campus have been searching for ways to improve the initial quality and “keeping” ability of ice cream.

W. B. Combs, professor of dairy husbandry, was a pioneer in this type of research. He was the first to report (in 1927) that sweet-cream buttermilk could be an effective ingredient in ice cream.

Today, Elmer L. Thomas, associate professor of dairy husbandry, and several of his assistants are continuing ice cream research. They have studied the effects of packaging materials and are now comparing different basic stabilizers.

During World War II, there was a limit to the solids that could be used in ice cream. Major use of sweet-cream buttermilk was shifting from animal to human consumption, and

ice cream seemed like a natural place for it. Further research showed that sweet-cream buttermilk gives ice cream improving whipping quality.

The main purposes of ice cream manufacture on the St. Paul Campus are teaching and research. To simulate commercial conditions, however, large commercial size batches are prepared, with the surplus turned over to University Food Services.

In 1948, Professor Thomas began to study ice cream shrinkage caused by loss of air during storage. Ice cream is basically a foam, according to Professor Thomas. By whipping in a certain amount of air, ice cream becomes palatable. Freezing stabilizes the foam.

In recent years, most of this “frozen foam” has moved to consumers in half-gallon containers through self-service merchandising cabinets. With home freezers, many consumers are storing ice cream longer than ever before. To preserve the foam-like

structure, consistently low storage temperatures are vital.

During 1953, Professor Thomas and Vernal S. Packard, Jr., research fellow in dairy husbandry, surveyed retail store managers and consumers as groundwork for a study of storage problems. They borrowed self-service merchandising cabinets, tested ice cream under typical supermarket conditions and soon spotted the main problem. Ice cream in the top layer shrank noticeably and became icy in texture during a four-week storage period, even when the cabinet had a sliding top.

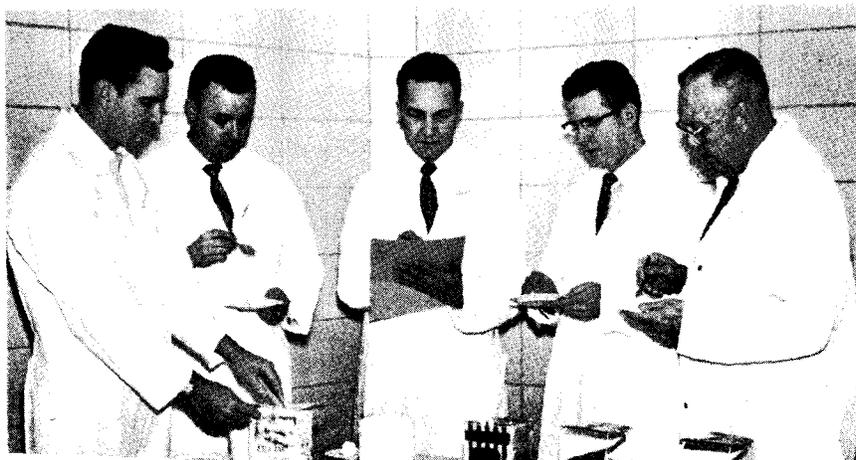
Although their initial plans did not call for it, the dairy products workers soon found themselves in the midst of a study of packaging materials.

They found that housewives who store large cartons of ice cream can protect it from shrinkage and coarseness by wrapping the carton in aluminum foil during storage and by placing it near the bottom of the freezer where temperatures are more uniformly cold.

With the packaging approach to the storage problem nearly complete, emphasis is now shifting to ice cream ingredients.

Ice cream has always required stabilizers to bind the water and slow down ice crystal growth. Since the war, stabilizers of vegetable origin such as sodium alginate, locust bean gum, and guar gum have become popular. St. Paul Campus researchers are now determining whether these compounds have differing “keeping quality” effects on ice cream.

Members of this ice-cream tasting panel are, left to right: Research Fellow Vernal A. Packard, Jr.; Research Assistant Robert J. Anderson; Associate Professors Elmer L. Thomas and Howard A. Morris, and Professor W. B. Combs, all from the Department of Dairy Husbandry.



The Minnesotan

Have You Heard?

High School Students Devise Far East Policy

Seventy-five Twin Cities high school students formulated a "Far Eastern Policy" for the United States during a residential seminar on the Far East held in March at the Minneapolis Art Institute. The Seminar faculty included University staff members Werner Levi, professor of political science; Richard B. Mather, associate professor of Chinese; Philip Siegelman, instructor in interdisciplinary studies; John Turner, associate professor of political science, and Chester W. Wood, director of student personnel services at UMD, who is a former consultant to UNESCO and chief of educational reconstruction in the Republic of Korea.

Observes Golden Anniversary

The University's Department of Mortuary Science celebrated its fiftieth year of service on March 27 with a special educational symposium, an alumni coffee hour, and a banquet at Coffman Memorial Union.

Elected Architects' President

Winston A. Close, University of Minnesota advisory architect, has been elected president of the Association of University Architects.

Release Radiation Report

The fifth report of Governor Freeman's Atomic Development Problems Committee was released recently. The report, which deals with radiation hazards, was written by James F. Marvin, associate professor of radiology, and W. O. Caster, assistant professor of physiological chemistry.

Elected to National Committee

Clarence H. Boeck, associate professor of education, and head of the science department at University High School, has been elected to the executive committee of the National Association for Research in Science Teaching.

Nursing Director Honored

Katherine Densford, director of the School of Nursing, recently received the National Honor Award Key presented at the annual Founders' Day banquet of Alpha Tau Delta, professional nurses sorority.

To Head Hospital Group

Ray M. Amberg, director of University of Minnesota Hospitals, is president-elect of the American Hospital Association.

Tuition Increases

Resident tuition fees for dental and medical students (including those in hospital administration) will be raised \$5.00 per quarter effective fall quarter, 1958. Similar upward adjustments will be made for all non-resident tuition fees. The Committee on Fees includes Richard Kozelka, dean of the School of Business Administration, chairman; Henry E. Hartig, professor of electrical engineering; Clarence E. Mickel, head of the Department of Entomology and Economic Zoology; William T. Middlebrook, vice-president of Business Administration; True E. Pettengill, recorder, and Malcolm M. Willey, vice president of Academic Administration.

Staff Members as Consultants

A number of University staff members are serving as consultants to various civic, industrial, and educational organizations.

Philip M. Raup, professor of agricultural economics, and John Borchert, professor of geography, are consultants to the St. Paul City Planning Board; Professors Louis F. Keller and Ralph Piper, Department of Physical Education and Athletics, are acting consultants to Knox-Reeves Advertising Agency on the development of standards of performance in test events, and Dr. Ruth E. Boynton, director of the University Health Service was a recent consultant on a survey of the Health Service at Woman's College of the University of North Carolina in Greensboro.

Wallace D. Armstrong, head of the Department of Physiological Chemistry, is serving on a committee of review for the Division of Biological and Medical Research at Argonne National Laboratory, Lemont, Illinois; Ralph D. Casey, director of the School of Journalism, served as a consultant to the Florida State Board of Control to evaluate the Schools of Journalism at the University of Florida in Gainesville, and the State University of Florida in Tallahassee.

Consultants to various industries include William F. Brown, professor of electrical engineering, Minnesota Mining and Manufacturing Company; Thomas F. Irvine, Jr., assistant professor of mechanical engineering, Chrysler Motor Company, and Fulton Koehler, professor of mathematics in the Institute of Technology, Minneapolis-Honeywell Regulator Company.

UMD Musician on Panel

Ruth van Appledorn, UMD professor of music, appeared on a panel on composition at the National Federation of Music Clubs' Minnesota state convention held in March in Minneapolis.

Elected to Credit Union Board

Hedwin C. Anderson, director of Civil Service, has been elected to the board of directors of the State Capitol Credit Union for a three-year term. Mr. Anderson will particularly represent the more than 1,000 staff members who enjoy credit union services through the facilities of the University Branch. Total amount loaned to staff members during the one-year period that the Branch office has been in operation now exceeds \$500,000.

Chairman of Music Group

Robert W. House, head of the UMD Department of Music, has been elected chairman of the 18-member music educators research council of the Music Educators' National Conference.

Attends Rome Meeting

John G. Darley, associate dean of the Graduate School, was chosen by the board of directors of the American Psychological Association as their official delegate to the Thirteenth International Congress of Applied Psychology held in Rome, Italy, in April.

Heads Variety Club Hospital

Gerard Frawley, has been appointed the assistant director of the University Hospitals and manager of the Variety Club Heart Hospital, succeeding Tomic T. Romson who resigned to join a Minneapolis hospital consultant firm.



Gerard Frawley

HAVE YOU HEARD?

Theater Board Meets

• Frank M. Whiting, director of the University Theater, reported on the Theater troupe's recent tours to Europe and Brazil at a meeting of the executive board of the American Educational Theatre Association held recently on the Minneapolis campus. Kenneth L. Graham, professor of speech, is executive secretary and treasurer of the group. Other University members are Paul K. Peterson, assistant to the director of the Department of Concerts and Lectures, and Robert D. Moulton, assistant professor of speech.

Accepts Illinois Position

• Leonard B. Wheat, associate professor of education at UMD, has resigned to accept a position in Illinois. Professor Wheat served for eight years as head of secondary education in the UMD Division of Education and Psychology.

Education Committee Appointed

• Otto E. Domian, director of the Bureau of Field Studies, is supervising a survey to determine the scope, nature, and quality of the curriculum in Minnesota's public schools. The survey will study the education content offered to students in three typical counties in the state and will also include an examination of buildings, equipment, teaching materials, and financial resources.

The committee supervising the survey also includes Willard R. Lane, associate professor of education.

Prominent Correspondence Student

• Agnes MacDonald, lecturer in the General Extension Division, has had as a student in her correspondence course in Short Story Writing the husband of Margaret Landon, author of *Anna and the King of Siam*. Kenneth C. Landon has become a noted writer during recent months with a story in the October 2, 1957, issue of *The Saturday Evening Post* and two additional stories scheduled for future publication in the same magazine.

Participate in Labor Conference

• Walter Heller, chairman of the Department of Economics, School of Business Administration, and Dr. Maurice B. Visscher, head of the Department of Physiology, participated in the tenth annual Industrial Relations Center Labor Conference held at the Museum of Natural History, Minneapolis Campus, in February.

Music Professor Named Conservatory President

• James Aliferis, professor of music, has been named president of the New England Conservatory of Music in Boston. His appointment becomes effective July 1, 1958.

Confers on Aswan Dam

Lorenz G. Straub, director of the St. Anthony Falls Hydraulics Laboratory, took part in the April conference on plans for construction of Egypt's Aswan Dam. Egyptian and British engineers also took part in the technical discussions which were held in London. Professor Straub is engineering consultant to the Egyptian government on this project and specialist on the hydraulic and Nile River control features of the dam.

School of Air Studies Audience

KUOM's Minnesota School of the Air is now conducting a study of its in-school audience. Lotte Seidler, acting director of the School of the Air, is in charge of the program with Robert L. Jones, director of the research division of the School of Journalism, and Burton Paulu, manager of the Department of Radio and Television Broadcasting, as consultants.

Society Holds First Program

The Minnesota Chapter of the Society for the Scientific Study of Religion held its first program in March at Coffman Memorial Union. Speakers included Robert F. Spencer, professor of anthropology, and Homer E. Mason, assistant professor of philosophy. Organized a year ago, the Chapter is headed by Fred H. Blum, associate professor of interdisciplinary studies.

Receives Fulbright Scholarship

Norman H. Ceaglske, professor of chemical engineering, has been awarded a Fulbright scholarship to conduct research in chemical engineering at the Norwegian Institute of Technology, Trondheim, Norway, during the 1958-59 academic year.

Labor-Management Award

Professor Herbert C. Heneman, Jr., assistant director of the Industrial Relations Center, received a special award from the Labor-Management Relations Committee of the Minneapolis Junior Chamber of Commerce recently. The award was presented for Professor Heneman's "years of service to the . . . committee and promotion of good labor-management relations in the community."

Writes Land Use Book

Harper and Brothers has just published *Urban Land Use Planning* by F. Stuart Chapin, Jr., son of the director of the School of Social Work from 1922-1949. Professor Emeritus F. Stuart Chapin, Sr. now lives in Asheville, North Carolina.

Delivers Lecture

Horace T. Morse, dean of the General College, delivered the annual Lotus D. Coffman lecture at the forty-fourth annual Schoolmen's Week held at the University last month. His topic was "Education In India — Problems and Prospects."

Heads Research Conference

Dr. Ancel Keys, director of the Physiological Hygiene Laboratory, was head of a research conference at the West Central meeting of the American Heart Association held in March in Tulsa.

Surgeon To Be Honored

Dr. C. Walton Lillehei, professor of surgery, has been chosen 1958 recipient of the Oscar B. Hunter Memorial Award of the American Therapeutic Society. Presentation will take place June 21, when Dr. Lillehei will address the society on the repair of congenital and acquired heart defects by open heart surgery.

Theater Director Honored

• Frank M. Whiting, director of the University Theater, was honored at a special dinner held April 10 in Coffman Union. Nearly 200 staff members, students, and former students attended the affair which recognized Professor Whiting's 20 years of service to the University Theater. W. L. Nunn, director of University Relations, presented the honored guest with a "recognition certificate" signed by students and staff members; Robert D. Moulton, assistant professor of speech, presented a "This Is Your Life" skit, and letters and telegrams from students now living in every state and many countries abroad were presented to Professor Whiting.

Professor Emeritus Honored

• Joseph M. Thomas, professor emeritus of English, was honored at a tea recently in celebration of the presentation of a set of the Oxford English Dictionary to the Department of English. This presentation was made in honor of Professor Emeritus Thomas.

Appointed English Department Chairman

• John W. Clark, professor of English, has been appointed chairman of the Department of English effective September 15, 1958, succeeding Professor Theodore Hornberger who will visit Ireland and England on sabbatical furlough during the 1958-59 academic year.

Symphony Conductor Honored

• Antal Dorati, conductor of the Minneapolis Symphony Orchestra, received a doctor of music degree from Macalester College, St. Paul, on April 9.

THE QUESTION IS:

Are There Opportunities for Job Transfers Or Promotions for Civil Service Staff Members?

A NEW JOB, different work, added responsibilities, more money — these very tempting factors have a definite appeal to almost everyone in any line of work.

Civil Service staff members have the opportunity to find these advantages for themselves right within the confines of the University. Perhaps they feel they are qualified for better, more responsible jobs; perhaps they are interested in transferring to other departments or to other jobs within their present departments.

Two Methods of Promotion

First, there is the staff member who sincerely believes he is capable of a more responsible job, with a higher salary. His promotion may come about in one of two ways:

He may either be appointed to a vacant position with a higher classification, or his present job may be reclassified upward. In the latter case, the Office of Civil Service Personnel reviews the job to determine whether or not there have been important changes in duties and responsibilities.

Where there is the possibility of a promotion because of a vacancy, those who work in the department where the vacancy occurs are to be considered first. Then consideration is given to other staff members, and third, to former employes and applicants from outside the University.

All promotions and transfers must go through the Office of Civil Service Personnel. If a department head wishes to promote someone within his own department, he must complete the Personnel requisition form. Then the individual who is recommended visits the Personnel Office to apply for the position.

If a department head wishes to recommend a present staff member (in another department) for a vacancy, he must first contact a Personnel Office representative who will discuss the matter with the staff member's present department head and with the staff member himself.

The staff member's initiative in applying for a promotion is a factor in his favor.

Posting of Vacancies

Staff members should watch the listing of opportunities for promotion and transfer on the Civil Service Bulletin

Board on the ground floor of the Administration Building or in the *Official Daily Bulletin* in the *Minnesota Daily* each Monday and Tuesday.

In addition to the personal satisfaction factor, a promotion means a higher salary. Staff members who receive promotions usually start at the beginning salary for the new classification. If that salary is the same or lower than his present salary, however, he is advanced to the next highest step in the new salary range.

Job Transfer Procedures

If a staff member is interested in a transfer, it usually means that he will take a new job with the same classification as the old or one with a comparable classification and pay range. This may occur in his present department or in another upon the request of an individual staff member, a supervisor, or a department head.

Anyone interested in a transfer should get in touch with the Employment Bureau by phone, letter, or in person. Each case is decided on its own merits.

When a transfer is made at the request of the staff member, it is up to the Director of Civil Service Personnel to decide what step in the salary range of the new job he may be put into.

If a transfer is made at the request of someone other than the staff member, no reduction in his present salary occurs.

Staff members who transfer within their own departments keep their seniority; those who transfer to new departments start to earn their seniority there. However, they do keep their seniority in the old departments should they ever transfer back.

Preparation For Promotion

Each staff member should realize the importance of his Service Rating. Quality and quantity of work and demonstrations of cooperation and initiative in the present position are factors listed on each rating.

Additional training towards a promotion through the Regents' Scholarship program (see pages 10 and 11) or classes taken in the General Extension Division are favorable factors in consideration for promotion.

Staff members are urged to report additional training or work experience off campus which is related to a desired position when application is made for promotion.

University of Minnesota Calendar of Events

MAY, 1958

METROPOLITAN OPERA PERFORMANCES

Northrop Auditorium

- May 16 — *Eugene Onegin* by Tchaikowsky (in English, 8:00 p.m.)
May 17 — *Der Rosenkavalier* by Strauss (in German, 1:30 p.m.)
May 17 — *Madame Butterfly* by Puccini (in Italian, 8:00 p.m.)
May 18 — *Samson and Delila* by Saint-Saens (in French, 2:00 p.m.)

THURSDAY MORNING CONVOCATIONS

Northrop Auditorium, 11:30 a.m.

- May 1 — "Opera Production—From Rehearsal to Curtain" by Herbert Graf, stage director of the Metropolitan Opera.
May 15 — Education Day Convocation.
May 22 — Cap and Gown Day Convocation.

SPECIAL CENTENNIAL CONVOCATION

Northrop Auditorium, 8:00 p.m.

- May 9 — H. C. Hanson, Prime Minister of Denmark.

SPECIAL LECTURES

- May 1 — "Brain Studies by Chronic Implantation of Electrodes and Pipettes" by Dr. James Olds, Brain Research Laboratory, University of Michigan. (3:30 p.m., 201 Westbrook Hall.)
May 2 — "The Present Status of the Negro in the South" by Professor E. Franklin Frazier, Department of Sociology, Howard University. (3:30 p.m., 155 Ford Hall.)
May 2 — Dr. Lois Murphy, Menninger Institute, Topeka. (Time and place to be announced.)

MUSIC DEPARTMENT PROGRAMS

RECITALS

Scott Hall Auditorium, 8:30 p.m.

(Unless otherwise noted.)

- May 4 — Anna Siem, pianist.
May 4 — Sharon Smith, pianist. (4:30 p.m.)
May 9 — Edward Berryman, University organist. (Northrop Auditorium, 8:30 p.m.)
May 26 — Myrna Amsel, mezzo-soprano; Helen Garvey, pianist.
May 28 — Myrna Green, soprano; Marjorie Kingland, pianist.

TUESDAY MUSIC HOURS

Scott Hall Auditorium, 11:30 a.m.

- May 6 — Karen Blom, soprano, with Helen Borseth, pianist.
May 20 — Gordon Carlson, baritone, with Paul Spong, pianist.
May 27 — Bloomington Community Band.

SPECIAL CONCERTS

- May 11 — All-Choral Concert featuring the University Chorus, Women's Glee Club, and Men's Glee Club. (Northrop Auditorium, 3:30 p.m.)
May 21 — Recognition Day Program. (8:00 p.m., Coffey Hall Auditorium, St. Paul Campus.)

UNIVERSITY THEATER PERFORMANCES

Centennial Production

- May 15-17, 20-25 — *The Matchmaker* by Thornton Wilder. (Scott Hall Auditorium; 8:30 p.m. May 15-17 and 20-24, and 3:30 p.m., May 20 and 25. Tickets at \$1.25 on sale at Scott Hall Box Office.)†

FOREIGN LANGUAGE PLAYS

- May 6-10 — *Der Kaukasische Kreidekreis (The Caucasian Chalk Circle)* by Bertold Brecht, a German production. (Arena Theater Shevlin Hall; 8:30 p.m., May 6-7 and 9-10; 3:30 p.m., May 8.)

- May 6-10 — *La Zapatera Prodigiosa (The Shoemaker's Prodigious Wife)* by Fredirico Garcia Lorca, a Spanish play. (Scott Hall Studio Theater; 8:30 p.m. May 6 and 8-10; 3:30 p.m., May 7.)
(Tickets at \$.60 will be sold by the respective foreign language departments.)

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

- May 12-15 — Opera Previews (6:00-7:00 p.m.)
A series of previews of Metropolitan Opera productions to be presented in Northrop Auditorium May 16-18. Previews and dates are: *Eugene Onegin*, May 12; *Der Rosenkavalier*, May 13; *Madame Butterfly*, May 14; *Samson and Delila*, May 15.

SIGNIFICANT UNIVERSITY TELECASTS

Channel 2, KTCA-TV

- Monday, 9:00 p.m. — *At Home With Music.*
9:30 p.m. — *Shakespeare.*
Tuesday, 9:00 p.m. — *Playing With Your Child.*
9:30 p.m. — *The Proper Study of Mankind.*
Wednesday, 9:00 p.m. — *Folk Songs.*
9:30 p.m. — *Shakespeare.*
Thursday, 9:00 p.m. — *TV Journal.*
9:30 p.m. — *Town and Country.*
Friday, 9:00 p.m. — *Pages from the Past.*
9:30 p.m. — *Thinking About Religion.*

MAY UNIVERSITY PRESS PUBLICATIONS

- The Face of Minnesota* by John Szarkowski, \$5.00.
The Paradox of Progressive Thought by David W. Noble, \$6.00.
Variables Related to Human Breast Cancer by V. Elving Anderson, Harold O. Goodman, and Sheldon C. Reed, \$4.00.
The Population Ahead by Roy G. Francis, \$3.75.
Radio Free Europe by Robert T. Holt, \$5.00.
Edward C. Lindeman and Social Work Philosophy by Gisela Konopka, \$4.50.
A. E. Housman: Scholar and Poet by Norman Marlow, \$3.50.

UNIVERSITY GALLERY EXHIBITIONS

- Through May 18 — "Music and Art."
May 22-June 7 — Annual Student Art Show.

ATHLETIC DEPARTMENT EVENTS

Home Baseball Games

Delta Field (Unless otherwise noted.)

- May 2 — Northwestern (3:30 p.m.) May 20 — *St. Thomas* (Midway Stadium, 8:00 p.m.)
May 3 — Wisconsin (2) (1:00 p.m.) May 23 — *Michigan* (3:30 p.m.)
May 16 — *Iowa* (3:30 p.m.) May 24 — *Michigan State* (2) (1:00 p.m.)

- May 17 — *Iowa* (2) (1:00 p.m.)
(Tickets: \$1.00 for adults; \$.25 for children)

Football Game

- May 17 — Varsity vs. Alumni (2:00 p.m.)

Track

- May 10 — *Iowa*, May 30 — *Wisconsin*
(Tickets: \$.60 for adults; \$.25 for children.)

Tennis

- May 3 — *Northwestern* (9:00 a.m.) May 12 — *Wisconsin* (2:00 p.m.)

Golf

- May 8 — *St. Thomas* (1:00 p.m.) May 10 — *Wisconsin, Iowa*
May 12 — *Carleton-St. Olaf-Augsburg*

Unless otherwise indicated, events are open to the public without charge.

† Tickets for these events are also available at the Field Schlick Ticket Office in St. Paul and the Downtown Ticket Office, 188 Northwestern Bank Building in Minneapolis.