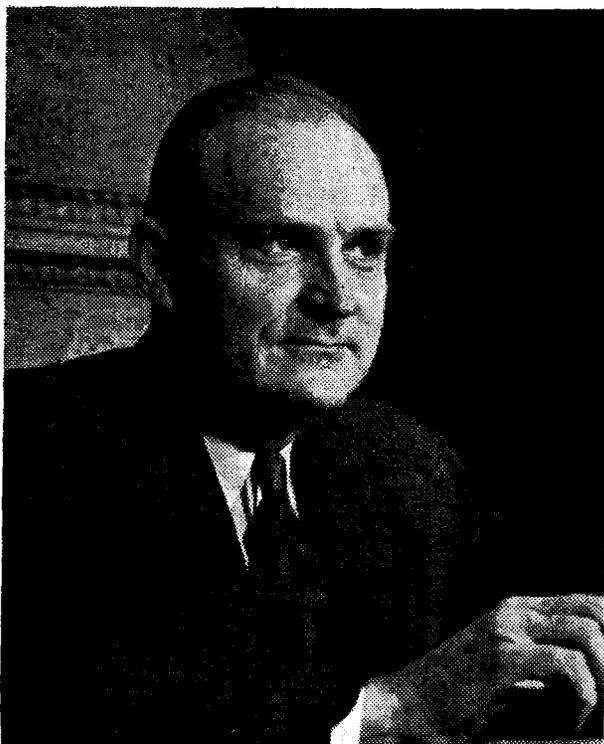


# THE MINNESOTAN





President O. Meredith Wilson

**E** DUCATION IS THE most important concern of modern man, for it is the means by which he develops his faculty of reason, and reason is that one faculty which has separated man from all other animals and marked him alone as the creature capable of building civilization. Man's capacity to speak, write, read and listen is the chief source of his human dignity and when used intelligently, is the author of his creature comforts and spiritual composure.

In spite of his power to reason, however, no one man alone is capable of moving unaided from primeval ignorance to wisdom in a single generation. He requires the stored wisdom of the past, the continuous cooperation of his contemporaries. In this process, the University stands at the apex among the formal institutions designed to assure for our country individual fulfillment, cultural maturity, and national strength. Because we stand on the shoulders of the past as we reach for new solutions, one part of our obligation as a university is to husband and cherish the wisdom of mankind. We communicate the best of the past to each new generation. In this sense, our role is a conservative one. A second of our obligations and one for which we should make no apology is to improve the vocational opportunities of the students who come to us for help. The third, and most commonly emphasized, and in many ways, the most exciting of our obligations, is to serve as judge and critic, to refine ancient goods, and to discover new truth. In this role we are inevitably radical.

All three roles we undertake for the good of a civiliza-

## A Message from the President

tion which by supporting education makes our peculiarly satisfying way of life possible.

In the excitement and suspense that accompany the discovery of new truths other obligations that are ours may be forgotten or at least may awaken lesser enthusiasms. It is, therefore, important for us to be reminded that, however important all other of our contributions may be, our University would not have been created had it not been for students. The best of us, however vigorous our search for truth, will always leave at the outer reaches, frayed edges of knowledge or uncertainly grasped truths, and will at the last recognize how true it is that our greatest contribution to and through education is in the excitement and development of students, who, becoming equally interested in the search for truth, can complete what we imperfectly begin.

I should like, therefore, to remind us all, whether our work is maintenance of buildings, counseling of students, keeping of accounts academic or financial, or instruction and research, that the beginning of good graduate work is sound undergraduate education. The University of Minnesota is dedicated to success in both fields, but its work begins with and will be perpetuated by students. Our quality and reputation will depend upon theirs.

*O. Meredith Wilson*

PRESIDENT

### on the cover . . .

a joyful reunion of parents with their happy and healthy little girl. Through the doors of The Variety Club Heart Hospital at the University, come children with heart defects from around the world. And, each year, Hospital doctors and scientists are finding more answers to make these little hearts healthy and happy again.

Cover photography by Alan Ominsky.

Vol. XIV

No. 1

### THE MINNESOTAN

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

William L. Nunn, Director

Beverly Sinniger ..... Editor

Jo Anne Ray ..... Associate Editor

Advisory Committee: Members of the University Public Information Council.

*The Minnesotan* will be published monthly October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2.00 a year, 25 cents a copy.

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

Second-class postage paid at Minneapolis, Minnesota.

MAE  
1960

# Regular Classes And Special Offerings Mark Summer, 1960

*In The Good Old Summertime, The University Tends To Business*

**F**EW, IF ANY, "Gone Fishing" signs have been posted on University doors during the past few summers. Once a center for teachers using their vacation time for professional advancement, the University Summer Session in recent years has been coming into closer alliance with the regular academic year.

Enrollment for both the first and second summer sessions in 1960 totaled 16,609. In 1959, enrollment totaled 17,316. A recent study made by E. W. Ziebarth, dean of the Summer Session; John E. Stecklein, director of the Bureau of Institutional Research; and Mary Corcoran, research associate in the Bureau, revealed that teachers, who once formed the largest single group of Summer Session students, have now dropped to second place behind the number of regular college students. Reflecting the fact that the Summer Session is becoming more of an extension of the regular academic year is the large number of regular academic courses offered during the summer. The summer faculty, too, is composed largely of members of the regular school year faculty.

## Special Programs

Still an important purpose of the Summer Session, however, is to provide opportunity for unique educational programs and for extension of University services to teachers and others who cannot attend during the regular sessions.

Among the special features and programs of the 1960 Summer Session were the Theater Workshop, which brought actress Peggy Wood to campus to work with students, and the 3M Distinguished Lectures in Chemistry, sponsored by the Minnesota Mining and Manufacturing Company, which this year brought Professor H. C. Longuet-Higgins, F.R.S., of the University of Cambridge, England, to the campus.

Several institutes for high school teachers of science were held again at the University. The National Science Foundation sponsored an institute at Itasca for high school teachers of biology and an institute on the Minneapolis Campus for high school teachers of mathematics, physics, and chemistry. On the St. Paul Campus an institute in radiation biology for high school biology teachers was sponsored jointly by the National Science Foundation, the Atomic Energy Commission, and the University.

## Counseling and Guidance Institute

The increasing importance of the high school coun-

selor's role in an ever-expanding and more complex society was recognized by the U. S. Office of Education, which, under authorization of the National Defense Education Act of 1958, again sponsored a Counseling and Guidance Institute at the University of Minnesota.

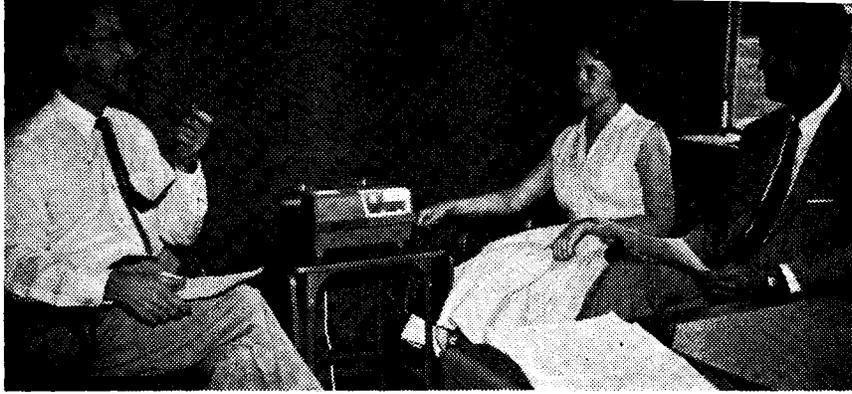
The Institute is designed specifically to focus attention on the identification of talent and the role of the counselor in improving the educational and vocational planning of the student. "The development of continuously improving programs of guidance and counseling services represents one of our most demanding and challenging educational problems," said Willis E. Dugan, professor of education and director of the Institute.

Held last year on the Minneapolis Campus, this year the Institute expanded its enrollment from 70 to 89 and utilized the facilities and resources of both the Minneapolis and Duluth Campuses. Forty high school counselors with some graduate training attended the advanced institute at Minneapolis. At Duluth, 49 high school teachers who planned to enter counseling but had little or no graduate training enrolled in the basic institute. A majority of the teachers and counselors came from Minnesota and neighboring states since the Institute served primarily the Upper Midwest region. Nine were from parochial schools and the remainder were from public schools.

Highlight of the advanced institute was the opportunity for the counselors to counsel high school students of high ability. One hundred and fifty high school students from 12 Twin Cities suburban schools volunteered, with their parents' signed approval, for the educational and vocational counseling. Each session between the students and counselors was carefully supervised by a member of the Institute's staff. All the interviews were recorded and played back to the staff and counselors for criticism and evaluation.

"These sessions served as 'internships' for counselors in the advanced institute and were rated extremely valuable by the participants," said Professor Dugan.

The advanced institute staff included regular University faculty members C. Gilbert Wrenn, professor of educational psychology; Ralph Berdie, director of the Student Counseling Bureau; and Willard Lane, professor of educational administration. Other staff members included counselors and counseling supervisors and coordinators from Twin Cities area schools.



Professors C. Gilbert Wrenn and Willis E. Dugan listen with Geraldine DeCorsey, counselor at the Thief River Falls Junior High School, to a recording of a counseling session between Mrs. DeCorsey and a high school student.

Both the advanced and basic institutes featured lecture-discussion sessions and a daily seminar. At Duluth, teachers were able to observe — through one-way vision facilities — guidance services at work. Gerald Gladstein, associate professor of psychology at Duluth, was instructional leader for seminar and laboratory work in the basic group. Henry Borow, professor of vocational psychology, was responsible for the daily discussion-lecture sessions.

The Institute also featured a special lecture series. Six weekly lectures under the general heading of "The Impact of Cultural and Technological Change Upon Counseling of Able Students" were given at both Minneapolis and Duluth. Lecturers included University staff members Martin Bronfenbrenner, professor of economics; Professor Dugan; Reuben L. Hill, director of the Family Study Center; E. Adamson Hoebel, chairman of anthropology; Warner Levi, professor of political science; and Helen Wood from the United States Department of Labor.

A program which serves as a nearly perfect example of the kind of educational opportunity only a summer session can provide is the Graduate Summer Session of Statistics in the Health Sciences. The Session, held in 1958 and 1959 at the University of Michigan, was held this year at the University of Minnesota.

The program is designed to help fill the increasing need for qualified and properly trained statisticians. By scheduling the session in the summer and offering stipends to qualified applicants, many workers, researchers, and teachers in the health sciences are given the opportunity for further study. In addition, a summer program can expand the opportunities available at any one school of public health by using teachers of statistics and other experts in the health sciences from all parts of the country.

Thus, to the University of Minnesota this summer came students, statisticians, and health officials from throughout the United States and from as far away as Indonesia, Lebanon, Pakistan, Peru, Poland, and Puerto Rico; a research nutritionist from every heart disease research center in the United States; faculty members from major universities across the country; and officials from the U. S. Public Health Service and the New York City and Pennsylvania departments of health.

The U. S. Public Health Service, sponsor of the pro-

gram, awarded scholarships totaling nearly \$11,000. Of the total enrollment of nearly 100, 65 students, many of them employees in state and federal health departments, came from out of state; 12 were students from the University of Minnesota; and 22 were research nutritionists from heart disease research centers who attended a special two-week seminar held in conjunction with the program. The researchers exchanged information about their own particular programs and problems, and students had the opportunity to sit in on the discussions.

"The students learned of the very latest research in this field," said Vernon E. Weckwerth, lecturer in public health and administrative director of the program. "It was information they could never have received from any textbook."

Recognized authorities in the statistics and health sciences fields came from universities throughout the country to serve on the program faculty. Included on the faculty was University staff member Eugene A. Johnson, associate professor of public health.

Assisting the faculty were University staff members Franklin W. Briese, Yick-Kwong Chan, Richard E. Pogue, Henry B. Tingey, and Ralph P. Winter, teaching assistants, and Genell L. Knatterud, senior statistician. June Ireland, senior statistical clerk, assisted Mr. Weckwerth. Jacob E. Bearman, professor of public health, is director of the program and Dr. Gaylord Anderson is director of the School of Public Health.

The six-week session offered 11 courses, including the two-week seminar for research nutritionists and a series of special lectures by course instructors and outstanding visitors to the campus.

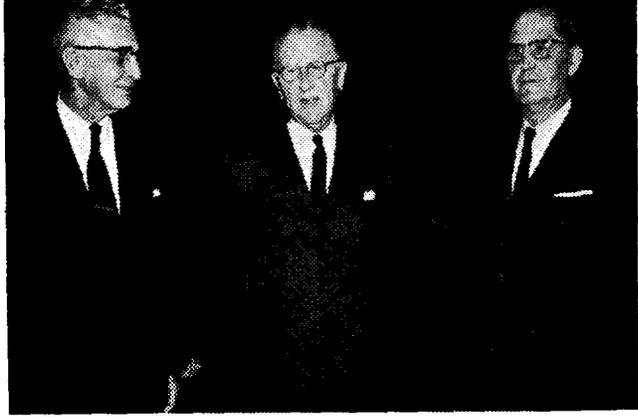
"In general, the students found the program a truly worthwhile and stimulating experience," said Mr. Weckwerth. "All the facilities of the University were available to the participants and, when needed, we brought in extra equipment. Some \$30,000 worth of small, desk calculators were made available for the session and housed in Aeronautical Engineering where they were in use some 16 to 18 hours per day. We also brought in some rather unusual items such as 4 hog troughs and 4,000 marbles which were used to illustrate how an epidemic spreads among the population."

The Session will be held at the University again next year.

# 104 Staff Members

## Honored at 1960

## Retirement Party



**O**NE HUNDRED AND FOUR staff members who, among them, have given 2,828 years of service to the University were honored with Certificates of Merit at the annual Retirement Party last May.

Friends, relatives, and co-workers of retiring staff members gathered in the Main Ballroom of Coffman Memorial Union for the party honoring those staff members who retired with 10 years or more of service.

President Emeritus J. L. Morrill, who traditionally presented the Certificates, found himself on the receiving end as he, too, received a Certificate in recognition of his 15 years as president of the University. Following presentation of his Certificate by Regent A. J. Olson, President Morrill said, "It gives me great pleasure to accept this certificate, and to share with all of you this special occasion—to share it truly in a way I never have before.

"I hope I may speak for all of us . . . when I say that for all of us who are retiring, it has been a rare priv-

ilege, and a very great pleasure, to be a part of this great University. I am grateful for the chance to share in the history of the University of Minnesota, and I know that all of you are too."

Academic Vice President Malcolm M. Willey presided over the ceremony. Following presentation of the Certificates of Merit, punch and cookies were served.

Those honored were: Anna Abraham, cook, Centennial Hall; Esther Adair, nurses aide, University Hospitals; Hjalmer Anderson, carpenter, Physical Plant; John A. Anderson, instructor, West Central School and Experiment Station at Morris; John T. Anderson, painter foreman, Physical Plant; Elizabeth M. Atkins, assistant professor of English; Maurice Bakken, operating engineer, Northwest School and Experiment Station at Crookston; Charles L. Bane, instructor in psychology in the General Extension Division; Jacob A. Borgen, professor of medicine at the Mayo Foundation; Walter Bauers, general mechanic foreman, University Services; Ovide Belanger, electrical foreman, Physical Plant; Florence Bellman, custodial worker, University Services; Theodore C. Blegan, dean of the Graduate School; Gertrude F. Blomquist, telephone

operator, and Walter F. Boerner, bricklayer, Physical Plant; Henry Boettcher, utility man, Mines Experiment Station; and Cameron Booth, lecturer in art.

Hallie Bruce, chief pharmacist, University Hospitals; Bryng Bryngelson, professor of speech; Dr. James B. Carey, clinical associate professor of medicine; Mabel E. Carlson, cook, Comstock Hall; Louis Clossmore, washman, Laundry; Lucille Coakley, laundry worker, School of Home Economics; Ione E. Corliss, nursing supervisor, University Hospitals; Julia M. Cropper, food service worker, Centennial Hall; William Dalbec, janitor, and Grace C. Disch, switchboard operator, University Hospitals; Harry A. Doeringsfeld, professor of aeronautical engineering; Austin A. Dowell, director of resident instruction and assistant dean of the College of Agriculture, Forestry, and Home Economics; Alfred E. Eagle, senior experimental plot



Top photo: Heide Henriksen, who retired as lecturer in the School of Public Health, is pictured with her sister, Alpha Henriksen. Below are Flora W. Grubich, clerk-typist, Agriculture and Plant Genetics, and Mae E. Walker, who retired as assistant cook, St. Paul Campus Student Center.

supervisor, Plant Pathology and Botany; Regina Eisner, food service worker, University Hospitals; and Sam Eng, senior laboratory machinist, Mines Experiment Station.

Arthur E. Engebretson, professor and district supervisor of County Extension Work; Mayme T. Engstrom, senior clerk, School of Dentistry; Ida C. Erickson, secretary, University Health Service; Harold E. Freeman, utility man, West Central School and Experiment Station at Morris; Ernst Gellhorn, professor of neurophysiology; Sophie Germundson, food service worker, Coffman Memorial Union; Edward F. Greinke, manager of the Glassblowing Shop; Torstein Grinager, county agricultural agent; Lewis M. Hansen, senior general mechanic, Physiological Hygiene Lab; Harriet J. Harrison, student counselor in the Office of Student Personnel Services at Duluth; Henry E. Hartig, professor of electrical engineering; Heide Henriksen, lecturer in the School of Public Health; Petra Hexem, food service worker, University Hospitals; Dr. Anderson C. Hilding, clinical professor of otolaryngology; and Robert E. Hodgson, superintendent of the Southern School and Experiment Station at Waseca.

Dr. Harold E. Hullsiek, clinical associate professor of surgery; Jergen H. Hulst,

senior farm laborer, Northwest School and Experiment Station at Crookston; Evelyn Hultkrans, allergometric technician, University Health Service; Newton Ireland, general mechanic, Territorial Hall; Haakon Jenson, painter, West Central School and Experiment Station at Morris; Nicholas T. Kaiser, janitor, University Hospitals; Howard C. H. Kernkamp, professor of veterinary pathology and parasitology; Hattie B. Kinney, nurses aide, University Hospitals; Peter Kokoszcynski, utility man, Physical Plant; Clarence E. Larson, director of trusts, Office of the University Attorney; Jane M. Leichsenring, professor of home economics; Ramer D. Leighton, Extension dairyman; Alice M. Lewis, instructor in English; Esther H. Lindberg, food service worker, University Services at Duluth; John S. Lundy, professor of anesthesiology at the Mayo Foundation; and John Madura, building caretaker, Physical Plant.

Thomas B. Magath, professor of bacteriology and parasitology at the Mayo Foundation; Rodney Magnuson, carpenter, Physical Plant; Andrew McGilp, general mechanic foreman, University Hospitals; Clarence E. Mickel, head of the Department of Entomology and Economic Zoology; Dorothy Miller, senior food service worker, Centennial Hall; Forrest E. Miller, professor of aeronautical engineering; Walter R. Mixer, St. Paul Campus Maintenance Supervisor; Herman J. Moersch, professor of medicine at the Mayo Foundation; James Lewis Morrill, president of the University; Anton J. Munson, building caretaker, Physical Plant; Walter W. Nelson, foreman, Lake Itasca Forestry and Biological Station; Howard M. Odel, associate professor of medicine at the Mayo Foundation; Ole W. Olson, general mechanic, University Services; Theodore Olson, building caretaker, Physical Plant; Donald G. Paterson, professor of psychology; Jennie Perry, custodial worker, Cen-

tennial Hall; and William E. Petersen, professor of dairy husbandry.

William T. Peyton, director of the division of neurosurgery; Marschelle H. Power, professor of physiological chemistry at the Mayo Foundation; Harry O. Rasmussen, farm laborer at the West Central School and Experiment Station at Morris; Mabel Raymond, food service worker, Coffman Memorial Union; Samuel C. Reineke, senior laboratory animal attendant, Cancer Biology; Marguerite Richardson, senior clerk, General Storehouse; Lawrence F. Richdorf, clinical associate professor of pediatrics; John E. Robertson, janitor, University Health Service; Thorvald Schantz-Hansen, director of the Cloquet Forest Research Center; Alma O. Scott, librarian, Walter Library; Harold R. Searles, Extension dairyman; Harriet Shaver, cook, Agricultural Cafeteria; Lee I. Smith, professor of organic chemistry; Ida Spindler, custodial worker, Physical Plant; Otto W. Swenson, farm and grounds superintendent, Institute of Agriculture; Rosemary Thill, nurses aide, University Hospitals; and Ida N. Thompson, principal food service worker, Shevlin Hall Cafeteria.

Alice F. Tyler, professor of history; Elmer G. Wakefield, associate professor of medicine at the Mayo Foundation; Mae E. Walker, assistant cook, St. Paul Campus Student Center; Anna H. Whitney, food service worker, Sanford Hall; Hugh B. Wilcox, professor of mathematics of the Institute of Technology; James D. Winter, associate professor of horticulture; and Elmer E. Young, professor of art.

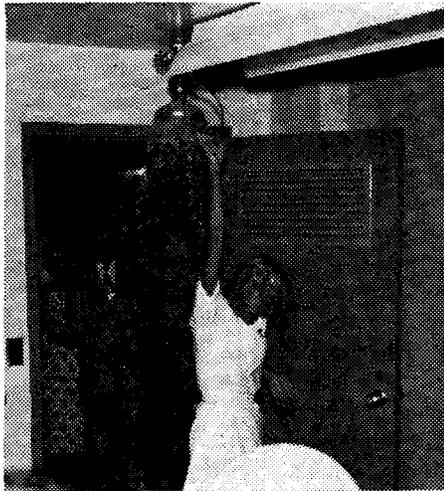
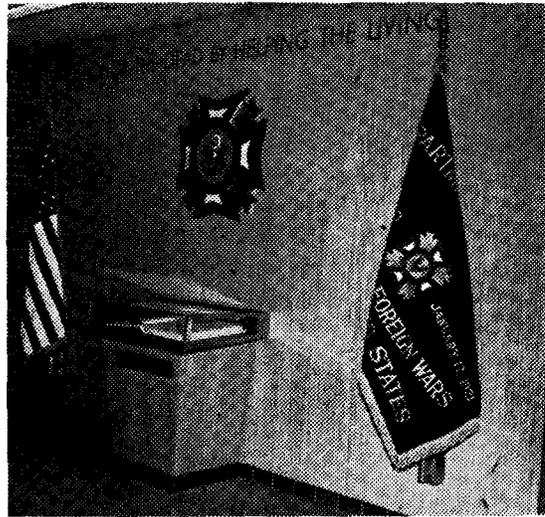
Four staff members were honored posthumously. They were: Dr. Edgar T. Herrmann, clinical assistant professor of medicine; Elmer W. Johnson, assistant dean of the Institute of Technology; Palmer O. Johnson, professor of general education; and Alvin E. Prottengeier, assistant professor of German.

Exchanging greetings following presentation of the Certificates of Merit are honored guests President J. L. Morrill; Marschelle H. Power, professor of physiological chemistry at the Mayo Foundation; Dean Theodore C. Blegen; and Herman J. Moersch, professor of medicine at the Mayo Foundation. With them is Dr. R. Drew Miller, assistant director of the Mayo Foundation.



Inside the main entrance, encased in glass below the VFW emblem, is a book with the engraved names of the donors who made possible the building of the Research Center.

## VFW Cancer Research Center In Full Operation

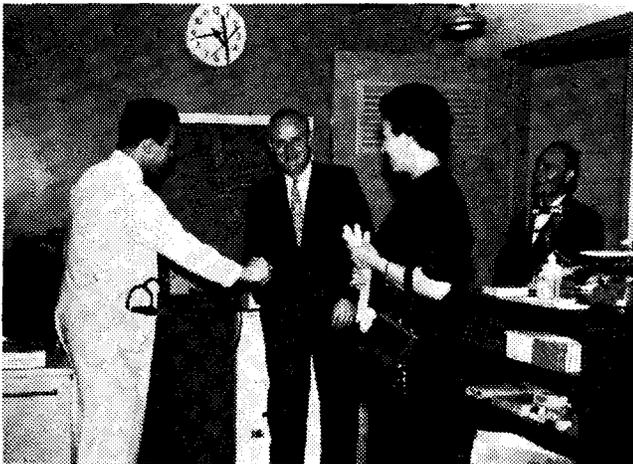


Virginia Rollins, student technologist supervisor, gets a soaking as she demonstrates the emergency "showers" installed in each laboratory—to be used in case of contamination by radio active material.

**T**HE VETERANS OF FOREIGN WARS Cancer Research Center on the Minneapolis Campus held open house for all VFW statewide cancer committee members in July. The Center, which was dedicated in the fall of 1959, went into full operation at that time. Nearly all the equipment is installed and all laboratories are in operation. The work of the doctors and scientists in the Center involves the analysis of all aspects of body functions of cancer patients, including the effects of the disease on the body and body response to various treatments. These three main types of treatment are surgery, radiation therapy, and chemotherapy.

The VFW posts and their auxiliaries throughout the state raised over \$316,000 toward financing construction of the building, and contributed over \$14,130 toward purchase of equipment. The United States Public Health Service contributed \$172,000 toward its construction, making the total in excess of \$502,130. An estimated one half of the basic cancer research carried on by the University scientists is now housed in this building.

Greeting President and Mrs. Wilson at the open house is Dr. Joe B. Aust, left, cancer coordinator. On the right is Dr. Ramon Fusaro, instructor in medicine.

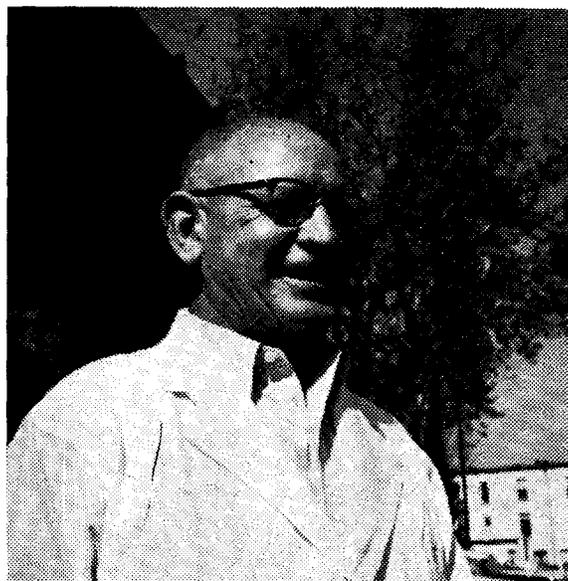


Sharon Gemmill, junior scientist, left, demonstrates equipment for Eugene Voss, State VFW commander, Mrs. C. C. St. Mane, president of the VFW state ladies auxiliary, and Rudolph Tersch, statewide cancer committee head.



### Rodney A. Briggs

Appointed new dean of the University of Minnesota, Morris, is Rodney A. Briggs, formerly acting dean. This fall marks the opening of the University at Morris and Dean Briggs says, "It's been a hectic summer, but we're looking forward to starting college classes. Our enrollment has already passed the estimated 250 students." Well known for his research on silage and for promoting better silage and forage-harvesting practices in Minnesota, Dean Briggs did his undergraduate work at the University of Wisconsin and completed his doctorate at Rutgers University in 1953. Before his appointment at Morris in 1959, he was a staff member in the Department of Agronomy on the St. Paul Campus. He is married and has four children.



Oscar Swanson

A cheerful hello and a friendly smile greet drivers who park their cars in the University lot on 4th Street and 16th Avenue. The smile belongs to Oscar Swanson, who has worked for the University for almost 23 years. Mr. Swanson was a familiar figure for eight years at the former University lot which was eliminated to make way for the construction of the new Architecture Building. Previous to that time, he was a University night watchman. His favorite off-the-job pastime is catching walleyes and pan fish at Lake Mille Lacs, in northern Minnesota.

**HAVE YOU MET?**





**Ione Jackson**

A name well known in the School of Dentistry is Associate Professor Ione Jackson, who has devoted 32 years to teaching dental hygiene at the University. Although a Wisconsinite by birth, Minnesota has been "home" to Miss Jackson for most of her life. She earned her bachelor's and dental hygiene degrees here at the University. One of her favorite vacation drives is Minnesota's North Shore, along picturesque Lake Superior, and into Canada.



**John E. Verrill**

John E. Verrill, assistant professor of education at the University of Minnesota, Duluth, is also principal to some 230 children attending the UMD Laboratory School. He is a member of honoraries in English, science, and dramatics, as well as his graduate field, education. Verrill won distinction as a lieutenant colonel of field artillery during his service career. Following overseas duty he traveled to Egypt and to the Holy Land. Professor Verrill is married and the father of two children.

### **Marcella Thompson**

A former Wisconsinite from Almena is Mrs. Marcella Thompson, who is secretary to Professor Milo Peterson, chairman of Agricultural Education on the Paul Campus. An avid bowler, Mrs. Thompson is president of the women's campus bowling league. She has been at the University over five years.

### **Ronald C. Barrett**

New program department director at the Coffman Memorial Union is Ronald C. Barrett, who was promoted from program staff personnel consultant, a position he previously held for a year before serving with the United States Coast Guard from 1957 to 1959. A graduate of Hamline University, St. Paul, Mr. Barrett is attending the University on a part-time basis, working on his master of arts degree with a major in educational psychology. He is married and has a 20-month old daughter, Rebecca. He replaces Don Finlayson, who is now director of University Housing.



Through Education And Research, Waseca School And Station Are

# SERVING SOUTHERN MINNESOTA

**E**IGHTY MILES south of the Twin Cities, in the heart of the sweet corn and green pea area, is the town of Waseca. Here, at the southwest limits of this county seat town, is the University's Southern School and Experiment Station which serve the rich farmland of southern Minnesota from the hills and valleys of the east to the prairie lands of the west. A visitor will tour the Station uninterrupted by traffic lights, and he will travel down gravelled roads distinguished by such names as "Boar Boulevard" and "Lilac Lane".

The Experiment Station is the southern link in the chain of University experiment stations located strategically throughout Minnesota. As such, it carries on a broad program of research in cooperation with other departments of the Institute of Agriculture on the St. Paul Campus. Currently, for example, the Waseca Station is participating in a long-term project involving hog breeding whereby animals produced at the Morris, Crookston, Grand Rapids, Duluth, and Rosemount Experiment Stations are brought to Waseca for testing. Ralph E. Comstock, professor of animal husbandry on the St. Paul Campus, is coordinator of the project. He works with research personnel of the "outlying" experiment stations including two from Waseca, Kenneth P. Miller, animal husbandman, and George O. Sutter, herdsman.

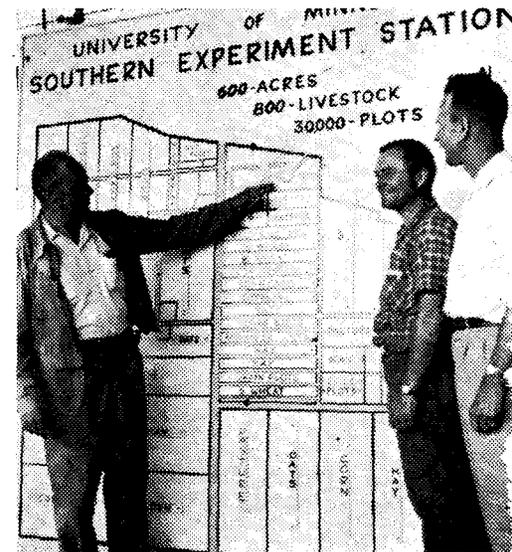
The 600-acre Station with its approximately 32,000 experimental plots, 1,000 head of livestock, barns, service buildings, and equipment, is attractive to visitors. The grounds and buildings are kept orderly and clean; all the equipment needed for

efficient farming is present; and the latest in scientific development is under test.

In describing the Station's operations, Deane A. Turner, superintendent of the School and Station, stressed the related importance of research, demonstration, education, and application. "But," he added, "like farmers and others engaged in research, we must make adjustments to new developments and techniques of operation." He pointed to the dairy barn which was built in 1948 and is already outmoded. "That big door is left open even in 20 degrees below zero weather," he said, "to control moisture within the barn and to provide a healthier environment, particularly for the young animals. Today's structures have air control as a built-in feature."

Keeping pigs eating and drinking during hot weather can be a major problem. At Waseca, a special shower installation cools the pigs by spraying them with a fine mist. The shower was designed by Robert E. Hodgson, who retired as superintendent of the School and Station on July 1, 1960, after 45 years of service to the University.

The Station operates an impressive array of machinery. The process of grinding and mixing feed ingredients is largely automatic. The three main feed ingredients—oats, corn, and soybean oilmeal—are housed in floor-to-ceiling bins. A simple push of a button brings the ingredients from the bins to a huge scale where they are measured out in quantities varying with the particular "recipe." Salts, minerals, and vitamins, needed in much smaller amounts, are measured by hand. The various feed mix-



Locations of experimental plots are carefully marked on this giant-sized map of the Experiment Station. Pictured are Assistant Professors Harold C. Matson, Boyd C. Fuller, and Kenneth P. Miller.

tures are used in livestock feeding trials.

The rotation of crops to maintain uniform soil fertility is important in experimental work. One experimental plot at Waseca, however, has been planted to sugar beets continuously since 1941. This experiment has resulted in the development of disease-resistant sugar beets. Developing disease-resistant corn, soybeans, and small-grains is an equally important part of the Station's work and, like research in livestock, is done cooperatively by departments within the Institute of Agriculture.

The seed varieties produced at Waseca are marketed through the Minne-

sota Crop Improvement Association. The University cooperates with universities in neighboring states in distributing the seeds so that no one state has a monopoly on a particular variety. "One year," says Professor Hodgson, "Iowa may develop a new variety and a certain percentage of the seed is sold in Minnesota. Then when Minnesota develops a new variety, a percentage is sold in Iowa."

The Experiment Station staff includes: Marlin R. Gehring, experimental plot supervisor; Howard Greeney, senior farm foreman; Robert Deef, general mechanic; Elmer R. Minske and George O. Sutter, herdsmen; Arthur T. Worke, power farm implement operator; M. Raymond Gallagher, Johnnie C. Larson, Clifford J. Matz, and Lloyd A. Peterson, senior farm laborers; Philip Keeley and Thomas G. Schimanski, farm laborers; and Leonard W. Hanson, assistant gardener.

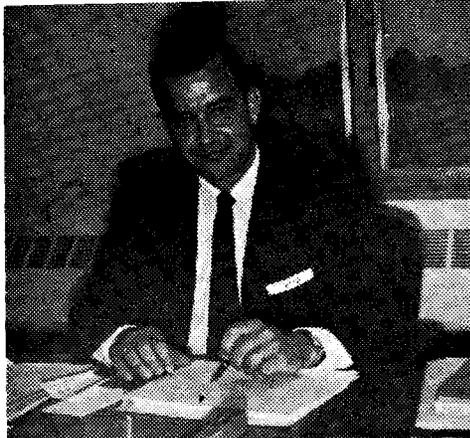
Principal account clerk and manager of the business office for both the Station and School is Lila M. Myers.

### School of Agriculture

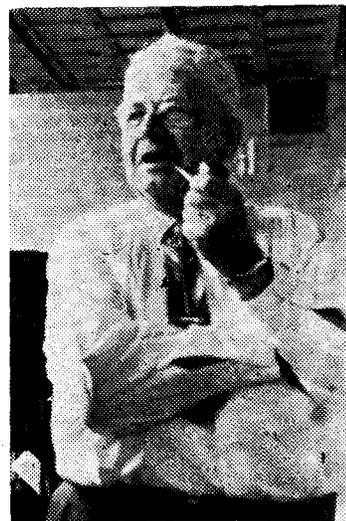
At the east boundary of the Experiment Station is a long, low, multi-wing building which houses the Southern School of Agriculture. The School was dedicated in 1953 and since that time has rendered outstanding service to southern Minnesota agricultural and rural education. Like all Schools of Agriculture, it is a four-year school operating on an accelerated schedule from October 1 to April 1. Thus, the students, the vast majority of whom are from farm families, are available for work at home during the important spring planting and fall harvesting seasons.

The School curriculum, which meets the academic requirements for a secondary diploma, also offers special training in agriculture, home economics, and business. School officials are proud of their students' records, pointing out that over 30 per cent of their graduates go on to college and major in various professional fields.

By attending classes from 8 a.m.



Deane A. Turner, above, is superintendent of the Southern School and Experiment Station. He replaced Robert E. Hodgson, right, who retired on July 1, 1960, after 45 years of service to the University.



to 5 p.m., School of Agriculture students spend approximately the same amount of time in class as do other secondary students. Students reside in dormitories and board at the School. Two hours are set aside each evening for study. "We really don't have to urge students to study," says Professor Turner, "for they know they must in order to graduate. A schedule of nine hours a day means a heavy work load."

During the six months when school is not in session, students work on special projects ranging from home improvement by the girls to farm management practices by the boys. Faculty members visit the homes of the students during these months and assist with the work underway.

Last year 225 students were enrolled at the Waseca School with the dormitories filled to capacity. Each year the School has far more applicants than it can accept. Entrance requirements are kept high.

The School's physical plant features attractive classrooms and large, well-equipped shops. The kitchen equipment in the home economics laboratory would delight any housewife. Adjoining this area are two rooms furnished as a living and a dining room. Here students entertain faculty-student groups, serving them with carefully planned, well-balanced, and (they hope) well-cooked meals.

One classroom is designed as an

arena. Here livestock is brought before the students who have the opportunity to gain actual experience in appraising livestock.

Members of the School faculty are Boyd C. Fuller, Harold C. Matson, Kenneth P. Miller, and John R. Thompson, assistant professors; Norris Austvold, William M. Curran, LeRoy Elsing, Richard W. Elvin, Richard Johnson, Doris Nelson, Theodore M. Nelson, Allyn Pederson, Carole Pederson, Barbara Sankovitz, Elaine A. Schwarz, Michael Selleck, and Gertrude M. Strinden, instructors. Theresa Roesler is the school nurse and Vera McIntyre assists in the library and girls dormitory.

Other staff members include Dolores J. Dahlman, senior clerk-typist; Margaret M. Guyer, secretary; Millicent Neidt, clerk-stenographer; Clifford Howard, operating engineer; Richard W. Brase, Robert A. Martin, and Henry R. Spies, general mechanics; Arthur C. Radtke and William Hundertmark, building caretakers; and Lillian A. Miller and Herluf Olferson, senior custodial workers.

Those who plan and prepare the well-balanced meals for the students are Marie Larson, supervisor of the food service; Agneta Jensen, cook; Ruth Weichmann, assistant cook; and Hazel Halstead, Charlotte Holtz, Bertha Jensen, Cora Krueger, Julia Slind, and Ella Spies, food service workers.

# — Have You Heard? —

## STAFF APPOINTMENTS



Dean  
Crawford



Dean  
Grambsch

• **BRYCE LOW CRAWFORD, JR.**, chairman of the School of Chemistry since 1957 and a faculty member for 20 years, was named dean of the Graduate School, succeeding Theodore C. Blegen who retired June 30 after 20 years of service. Dean Crawford was elected to the National Academy of Science in 1956, and is a member of the executive committee of the Division of Chemical Physics of the American Physical Society and of the visiting chemistry committee for the Atomic Energy Commission's Oak Ridge National Laboratory. Born November 27, 1914, in New Orleans, Dean Crawford received his degrees from Stanford University, Palo Alto, California—bachelor of arts in 1934, master of arts in 1935, and doctor of philosophy in 1937.

He was a teaching assistant at Stanford while working on his master's degree and then became a Windt Scholar and a Franklin Fellow. He was a National Research Fellow in chemistry at Harvard in 1937-39. Before joining the University faculty in 1940, Dean Crawford taught at Yale University for one year. He was a Guggenheim Fellow in 1950-51, studying six months at the California Institute of Technology and six months at the University of London and Oxford University.

• **PAUL VICTOR GRAMBSCH**, former dean of the Tulane University School of Business Administration, was appointed

dean of Minnesota's School of Business Administration by the Board of Regents, effective July 1. He succeeds Dean Richard L. Kozelka, who, after 15 years as dean, has resigned his administrative post to return to the classroom. The new dean was nominated by President Emeritus J. L. Morrill on the unanimous recommendation of a six-member faculty-alumni advisory committee headed by Dean Emeritus Theodore C. Blegen of the Graduate School. Dean Grambsch received his bachelor of arts degree from North Central College, Naperville, Ill., in 1941. He was a fellow at the University of Mississippi in 1946-47, where he received his master of arts degree in 1947. He did further graduate work at the Indiana University where he earned the doctor of business administration degree in 1955.

• **WILLARD L. THOMPSON**, who has been named assistant to President O. Meredith Wilson, will fill the position previously occupied by Stanley J. Wenberg, who was promoted to the newly created post of vice president and administrative assistant. Mr. Thompson was formerly administrative assistant to President Wilson and director of public services and development at the University of Oregon. Born in La Salle, Ill., he is a graduate of the University of Illinois where he received a bachelor of science degree in 1937, a master of science degree in 1949, and the doctor of philosophy degree in 1958. He served as assistant professor of journalism at the University of Oklahoma from 1949 to 1951. Since 1952, he has been assistant professor and then associate professor of journalism and business administration at the University of Oregon. Prior to 1949, he worked in the newspaper, advertising, and radio broadcasting fields.



Mr. Thompson

• **HAROLD C. DEUTSCH**, professor of history, was named the department head effective June 15. Professor Deutsch, a member of the history faculty since 1929, succeeds Professor John Bowditch, who has been named professor of history and chairman of the history department at the University of Michigan. W. Donald Beatty, associate professor of history, was named the associate chairman.

• The appointment of **ASSOCIATE PROFESSOR INGRAM OLKIN** as chairman of the statistics department of the College of Education was announced in May. Professor Olkin, who took over the chairman-

ship on June 15, succeeds the late Professor Palmer O. Johnson, who was a pioneer in the use of statistics in the social sciences. Professor Olkin was formerly a member of the faculty of Michigan State University for nine years.

• **KENNETH E. CLARK**, chairman of psychology, who was named associate dean of the Graduate School in May, has been appointed dean of the College of Arts and Sciences at the University of Colorado at Boulder. Professor Clark will take up his new duties in Colorado on January 1, 1961. A member of the University faculty since 1940, Dean Clark is a graduate of The Ohio State University where he earned a bachelor of science degree in 1935, a master of arts degree in 1937, and the doctor of philosophy degree in 1940.

• New appointments for two departments in the College of Science, Literature, and the Arts, who assumed their chairmanships on June 15, are **EUGENE H. FALK**, chairman of romance languages, and **KENNETH MacCORQUODALE**, chairman of psychology. Professor MacCorquodale, who has been a member of the psychology faculty since 1946, received his bachelor of arts, master of arts, and doctor of philosophy degrees from the University of Minnesota.

Professor Falk, born in Czechoslovakia, was educated in universities in his native country, in France, and in England. He came to the United States after World War II to join the staff of the University of Bridgeport, Conn., and joined the Minnesota staff in 1952.

• The promotion of **ROY V. LUND**, supervising engineer of the physical plant, and **CLINTON T. JOHNSON**, comptroller and treasurer, to be assistant vice presidents in business administration was announced by President Emeritus J. L. Morrill last June. A University engineering alumnus on the staff since 1922, Mr. Lund was named assistant vice president and director of plant services. Mr. Johnson will hold the title of assistant vice president, business administration, and University treasurer. The post of comptroller has been eliminated. A 1938 University graduate, Mr. Johnson joined the staff in 1939. The new assistant vice presidents will serve as the chief administrative aides to Vice President Laurence R. Lunden, in carrying out his responsibilities at the University's principal business officer.

• **EUGENE PFLEIDER**, chief of the division of mineral engineering, has been appointed head of the School of Mines and Metallurgy, succeeding Professor Strathmore R. B. Cooke, who asked to be relieved of his duties as head of the school. Professor Pfeleider has served on the faculty since 1948.

• New Director of Bands in **FRANK P. A. BENCISCUTTO**, whose appointment became effective August 15. Mr. Benciscutto

cutto, who received his bachelor of music and master of music degrees from the University of Wisconsin, replaces Gale L. Sperry, director of bands since 1953. Mr. Sperry has joined the staff of the University of South Florida, Tampa. Mr. Benriccutto received the doctor of musical arts degree from the Eastman School of Music of the University of Rochester, New York. His major was in composition, with his major instrument the clarinet.

● CAPTAIN CARY H. HALL, United States Navy, has been assigned to the University as professor of naval science and commanding officer of the Naval Reserve Officers Training Corps. He succeeds United States Marine Corps Colonel Robert O. Bowen, NROTC commander since August, 1957. Colonel Bowen retired from military service July 1. Captain Hall is one of the Navy's younger captains with advanced degrees, sent this year from the fleet to NROTC assignments.

● GERALD B. OWNBEY, professor of botany, has been appointed chairman of botany for a three-year term beginning this fall. He succeeds Professor Allan H. Brown, who remains on the staff as a teacher and researcher. A graduate of the University of Wyoming, Professor Ownbey earned the doctor of philosophy degree from Washington University, St. Louis, Mo. He has been curator of the University's herbarium since 1949.

## STAFF ELECTIONS AND ACTIVITIES

● DR. O. H. BEARS, associate professor of surgery in the Mayo Foundation, was elected president of the Minnesota Surgical Society at the annual meeting of the organization in Rochester this summer.

● IZAAC M. KOLTHOFF, head of analytical chemistry, was among the 116 fellow and 37 foreign honorary members elected to the American Academy of Arts and Sciences at the group's 180th annual meeting in Boston.

● ROBERT H. BECK, professor of education, will head the Philosophy of Education Society for 1960. Made up of some 450 professors in the field of philosophy of education, the society elected Professor Beck at its annual meeting in Ohio.

● ROBERT J. HOLLOWAY, professor of business administration, was named vice president elect of the American Marketing Association, a national organization of professional educators in the field of marketing. Professor Holloway is currently head of the group's Minnesota chapter.

● DR. WALTMAN WALTERS, professor of surgery in the Mayo Foundation, was elected a corresponding member of the German Surgical Society at its meeting in Munich. Dr. Walters, who is chief editor of the *Archives of Surgery*, published by the American Medical Association, has been advocating the exchange of medical papers for publication between German and American medical journals.

## American College Public Relations Association



### EMINENT ACHIEVEMENT CITATION

1960

Awarded to

*University of Minnesota*

for its

*Internal Publication*

considered the best in its class in competition

with colleges and universities throughout the United States

Given at the National Convention of the  
Association, Wash., D.C., July 11, 1960

*Merrill S. Osborn, Jr.*  
PRESIDENT

*Robert J. McCarty*  
CHAIRMAN, HONORS COMPETITION

THE MINNESOTAN, University staff magazine, was judged best among internal publications in the American College Public Relations Association annual competition held this summer. A citation, pictured above, and a bronze medal were awarded to the University at the Association's annual convention in Washington, D.C.

● LLOYD M. SHORT, chairman of political science and director of its administration center, was elected president of the Midwest Conference of Political Scientists at the group's annual meeting at Indiana University, Bloomington.

● MALCOLM M. WILLEY, vice president for academic administration, has been appointed by President Dwight D. Eisenhower to the Board of National Science Foundation. Vice president Willey is the first social scientist ever to be appointed to the board.

● HORACE T. MORSE, dean of General College, began a three-year term this June as a member of the executive committee of the more than 16,000 member Association for Higher Education. Dean Morse was elected by a nationwide mail ballot.

● EDMUND A. NIGHTINGALE, professor of economics and transportation, was appointed by Ezra Taft Benson, United States Secretary of Agriculture, to serve on a transportation research advisory committee, which met in August to advise the secretary on agriculture. Professor Nightingale's term of office is six years.

● DR. LOUIS A. BUIE, professor emeritus of proctology in the Mayo Foundation, was elected to an honorary fellowship in the American Proctologic Society at its annual meeting in Houston, Texas. Only 15 other physicians have been given this honor since the society was founded in 1899.

● THEODORE HORNBERGER, professor of English, was appointed to the board of editors of *American Literature*, a quarterly published by the Duke University in co-

operation with the American Literature Group of the Modern Language Association. The journal is a leading periodical in its field and is circulated in this country and 87 foreign countries.

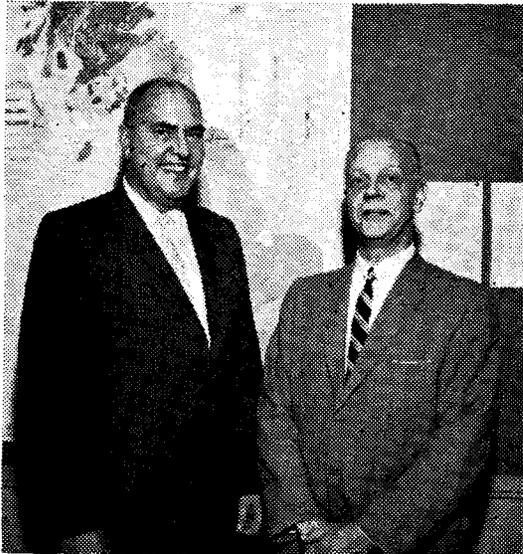
● GISELA KONOPKA, associate professor of social work, became the new vice president of the American Orthopsychiatric Association at its annual meeting in Chicago. Professor Konopka is the first woman in the history of the organization to be named to such a high office by the group.

● GORDON L. STARR, director of student unions, was appointed a member of the national advisory committee on recreation of the National Recreation Association. Mr. Starr will serve a three-year term.

● RAYMOND W. DARLAND, provost at the University of Minnesota, Duluth, received an Alumni Achievement Award at Fort Hays State College, Fort Hays, Kansas. The award was based on achievement in the individual's field of endeavor and meritorious contribution to society or the community.

● GEORGE J. SCHROEPFER, professor of civil engineering, acted as a consultant to the Public Health Service of Brazil and to the city of Rio de Janeiro during the month of July. While in Brazil he presented a paper to the Inter-American Sanitary Engineering Congress.

● DR. HUAI-CHANG CHIANG, professor of biology at UMD, attended the Eleventh International Congress of Entomology at the Natural History Museum in Vienna, Austria, during August. He was invited to



President of the Association of American Geographers this year is Jan O. M. Broek, right, professor of geography. Professor Broek represented the American geographic profession at the National Geographical Congress at Stockholm, Sweden, in August. Pictured with Professor Broek is Paul Siple, past president of the association.

lecture on the ecology of the European corn borer, subject of his research since 1948. Professor Chiang is presently continuing his study at the Agricultural Experiment Station at Waseca.

- **ROBERT L. HELLER**, head of geology at UMD, was acting director of the American Geological Institute, Washington, D.C., during the months of July and August.

- **WALTER W. HELLER**, chairman of economics, served on the Ford Foundation Commission on Taxation and Fiscal Policy in Amman, Jordan, this summer. The Commission served as an advisory group to King Hussein and the Jordanian Royal Fiscal commission in tax and fiscal reforms designed to promote economic development, improve tax laws and budgetary procedures, and strengthen revenues.

### STAFF MEMBERS RECEIVE GRANTS

- **PAUL W. BAMFORD**, associate professor of history, has been awarded a Fulbright grant and a Guggenheim Fellowship for research and study at the University of Paris during the current academic year. He will conduct research for a book on European maritime history.

- **WILLEM J. LUYTEN**, chairman of astronomy, has been awarded a United States Educational grant to serve as visiting professor of astronomy at the National University of Mexico, Mexico City. He visited the Mexican university late this summer and will visit again during March, 1961.

- **GORDON M. A. MORK**, professor of educational psychology, received a Fulbright grant for research in Norway for the 1960-61 academic year. He will do research in educational psychology, studying

the role of the school in development of social attitudes, in the University of Oslo's institute of educational research.

- **JAMES P. HARTNETT**, professor of mechanical engineering, has received two grants—one from the Guggenheim Foundation, the other, a Fulbright scholarship grant—which will take him to the Near and the Far East during the 1960-61 academic year. The Guggenheim grant will take Professor Hartnett to Japan to work on problems of heat in mass transfer. After the first of the year, he will serve as a lecturer in mechanical engineering at the University of Alexandria, Egypt, under a Fulbright grant.

- **THEODORE C. BLEGEN**, dean emeritus of the Graduate School, has been awarded a two-year grant by the Minnesota Historical Society. Dean Blegen, who has joined the Society as a research fellow in Minnesota history, will conduct research in the broad field of Minnesota history and write a history of the state for the general public.

- **KENNETH L. GRAHAM**, professor of speech and theater arts, has been awarded a new Dramatics Committee Director-Observership for the fall of 1960. The Ford Foundation grant provides an opportunity to observe, from start to finish, an entire Broadway production being guided and produced by outstanding American professional theater directors.

• A volunteer committee of faculty wives is assisting University staff members who wish to share season Symphony Tickets with others. Those wishing to purchase fractional tickets or full season tickets may contact the committee chairman, Mrs. R. N. Cunningham, MI. 4-8192, or Mrs. Asher N. Christensen, MI. 5-5928.

- A regular monthly schedule of meetings has been established for the Administrative Committee of the Senate. During the 1960-61 academic year the Committee will meet on the second Wednesday of each month. The regularization of meetings was agreed to at the first meeting of the Committee, July 15, conducted by PRESIDENT O. MERIDITH WILSON.

### UPPER MIDWEST STUDY

- An additional grant of \$550,000 from the Ford Foundation and a \$50,000 grant from the Hill Family Foundation have been awarded to the University for economic and urban studies of the Upper Midwest area. The regional study, a joint project of the University and the Upper Midwest Research and Development Council, began in 1959 with an original grant of \$350,000 from the Ford Foundation.

Through economic research, the project hopes to aid in the more rapid development of the area comprising the Ninth Federal Reserve District. A portion of the new Ford grant, together with the Hill Foundation grant, will be used to round out the current research of the study under the direction of Research Director, **JAMES M. HENDERSON**, associate professor of economics. The principal share of the new Ford grant will be devoted to the study of urban planning and development problems and their relationship to growth in the region. This will represent a major extension of the Upper Midwest Economic Study.

### REGENTS' SCHOLARSHIP WINNERS

- The following staff members were recipients of Regents' Scholarships for the first summer session:

**ANN F. ARMSTRONG**, speech pathologist, Physical Medicine and Rehabilitation; **LORRAINE L. BISSONETT**, junior librarian, Duluth, Education and Psychology Library; **JUNE B. CHECKLUND**, library assistant, Math-Physics Library; **MARGARET ANN EIDE**, senior secretary, Romance Languages; **GEORGIANNA E. HERMAN**, industrial relations reference supervisor, Industrial Relations Center; **EUGENE S. KUNZ**, laboratory technical assistant, Chemistry; **JOSEPH ROBERT MATUSOVIC**, general mechanic foreman, Physical Plant; **LLOYD W. NESTRUD**, senior engineering assistant, Physical Plant; **JOSEPH L. NYOMARKAY**, senior student personnel worker, Admissions and Records; **CLYDE M. SCROGGINS**, assistant art gallery technician, Art Gallery; **MARY ALICE SIMONDS**, senior lab technician, Physiology; **KATHRYN L. SMITH**, junior scientist, Veterinary Medicine; **HUBERT J. THIBODEAU**, junior engineer, Physical Plant; **LORRAINE M. TUFTE**, secretary, Social Science Research Center; **JEAN B. VELANDER**, principal clerk, Truck Service; and **BETTY JOY WICKRE**, senior clerk-typist, Psychology.

**THE QUESTION IS:**

# What Is The New Policy Governing Fund Drives On The Minneapolis Campus?

**O**NLY ONE FUND raising campaign will be conducted among University staff members on the Minneapolis Campus during the 1960-61 academic year. The single campaign, to be known as The Consolidated Drive for United Fund and Voluntary Agencies, is a departure from previous University policy which provided that two fund campaigns be conducted each year, a Community Chest drive in the fall and a Red Cross campaign in the spring.

The new policy will actually combine three fund drives into a single campaign and will enable Minneapolis Campus staff members to contribute at one time to the United Fund for Hennepin County and to each of two voluntary health agencies which do not participate in the United Fund: the American Cancer Society (Minnesota Division) and the Minnesota Heart Association. (The plan, as approved by the University Senate, originally included a third voluntary health agency, the National Foundation. But the Foundation asked that its name not be included since, at its own insistence, it is conducting its own fund drives and is in no way associated with others.)

Each staff member will receive a pledge card on which he can specify the amounts he wishes to contribute to each of the three organizations. His contribution to the United Fund, of course, will be allocated by the Fund itself among its 72 member groups which include the Community Chest and its member organizations, the Red

Cross, Minnesota Mental Health, Twin Cities Diabetes, and the United Cerebral Palsy. In addition, a certain percentage of United Fund contributions will go for medical research. The pledge card also will provide space for staff members who wish to recommend the inclusion of another agency or agencies in future campaigns. (See photo of pledge card below.)

Staff members may use payroll deduction for payment of gifts to the two voluntary agencies as well as to the United Fund.

The new fund raising policy for the Minneapolis Campus was decided upon after several years of study by several committees and University staff members who conferred many times with various community agencies and persons involved in United Fund Appeals. The final approval of the Senate was given to a compromise plan submitted to it by a special Senate committee made up of William B. Lockhart, dean of the Law School, chairman; Sherwood O. Berg, head of agricultural economics; Kenneth E. Clark, associate dean of the Graduate School; Dr. Donn G. Mosser, director of radiation therapy; and Frank F. Pieper, training coordinator of the Department of Civil Service Personnel.

The first Consolidated Drive will be held this month and the United Fund and the two voluntary agencies will supply informational material which will be distributed to Minneapolis Campus staff members. William O. Cook, assistant to the supervising engineer in the Physical Plant Department, is chairman of the Drive.

UNIVERSITY OF MINNESOTA—1961			
CONSOLIDATED DRIVE UNITED FUND AND VOLUNTARY AGENCIES			
Subscriber's Signature <b>X</b>	* PAYROLL DEDUCTIONS 12 Equal Deductions Nov. 16, 1960-May 15, 1961	CASH HEREWITH	TO BE BILLED Mthly___ Semi-Annly___ Qtrly___ Total Amt___
Residence Address			Indicate Total Pledge
I Agree to Pledge to: <b>United Fund of Hennepin County</b>	• .	•	•
In Addition, I Pledge to: <b>American Cancer, Minn. Chapter</b>	• .	•	•
<b>Minnesota Heart Assbciation</b>	• .	•	•

\* Indicate Semi-Monthly Deduction Amount

I recommend that consideration be given to adding to the pledge card the following agency or agencies not participating in the United Fund \_\_\_\_\_

# University of Minnesota Calendar of Events

## OCTOBER, 1960

### UNIVERSITY ARTISTS COURSE CONCERTS

#### Masterpiece Series

*Northrop Auditorium, 8:30 p.m.*

October 4—Royal Danish Ballet.  
(Single tickets \$2.00, \$3.00, \$3.50, \$4.00, \$5.00. Reservations may be made at 105 Northrop.) \*  
October 20—Branko Krsmanovich Chorus of Yugoslavia.  
(Single tickets \$1.50, \$2.50, \$3.00, \$3.50. Reservations may be made at 105 Northrop.) \*

#### Celebrity Series

October 29—Mantovani and His New Music.  
(Northrop Auditorium, 8:30 p.m. Single tickets \$1.50, \$2.50, \$3.00, \$3.50. Reservations may be made at 105 Northrop.) \*  
October 31—Coldstream Guards and Cameron Highlanders.  
(Williams Arena, 8:30 p.m. Single tickets \$1.50, \$2.00, \$2.50, \$3.00, \$3.50. Reservations may be made at 105 Northrop.) \*

#### Special Concerts

*Northrop Auditorium, 8:30 p.m.*

October 5—Royal Danish Ballet.  
(Single tickets \$2.00, \$3.00, \$3.50, \$4.00, \$5.00. Reservations may be made at 105 Northrop.) \*  
October 11—Mort Sahl and The Limelinters.  
(Single tickets \$1.50, \$2.50, \$3.00, \$3.50. Reservations may be made at 105 Northrop.) \*

### CONVOICATIONS

*Northrop Auditorium, 11:30 a.m.*

October 5—Backstage Preview of the Royal Danish Ballet.  
October 13—Lecture by Edward Weeks, editor of the *Atlantic Monthly*.  
October 20—Recital by Julian Bream, guitarist and lutenist.  
October 27—"Norway, Changing and Changeless," film lecture by Hjordis Kittel Parker.  
(11:30 a.m. and 12:30 p.m.)

### UNIVERSITY THEATER PRODUCTIONS

#### Regular Production

*Scott Hall Auditorium*

October 27-28, November 2-4, 8 p.m.; October 29 and November 5, 6:30 and 9:30 p.m.; and November 1 and 6, 3:30 p.m.—*Look Homeward Angel* by Ketti Frings.  
(Single tickets \$1.50 on sale at the Scott Hall Box Office.)

**Young People's University Theater**  
October 8, 10:30 a.m.; October 9 and 16, 3:30 p.m.—*Robin Hood* by James Norris.  
(Single tickets \$.50.)

### SIGNIFICANT UNIVERSITY BROADCASTS

#### KUOM, 770 on the dial

Tuesday, 11:15 a.m.—"Listen With The League," a League of Women Voters program about current issues of importance to the citizen.  
Saturday, 2:00 p.m. "Music For The Asking," a classical music request program.  
Wednesday, 1:30 p.m.—"Public Affairs Forum," a discussion on "World Affairs" with George Grim as moderator. Presented in cooperation with the World Affairs Center of the University and the *Minneapolis Star*.  
Monday-Friday, 3:55 p.m. — "Community Calendar," a broadcast by Audrey June Booth and guests about University and Twin Cities activities.  
Monday-Friday, 10:30 a.m., 12:15 and 4:30 p.m.—"Newscasts," quarter-hour reports on the important news of the world.

### SIGNIFICANT UNIVERSITY TELECASTS

#### Seen on Channel 2, KTCA-TV

Monday, 9 p.m.—"World Affairs" with George Grim as moderator.  
9:30 p.m.—"At Home With Music."  
Tuesday, 9 p.m.—"Arts of Reading" with Ralph G. Ross, professor of interdisciplinary studies.  
9:30 p.m. — "Statistically Speaking" with Byron W. Brown, assistant professor of public health.  
Wednesday, 9-10 p.m. — "Folio" with Arnold Walker, KUOM program supervisor, as guide.  
Thursday, 9 p.m.—"Arts of Reading." 9:30 p.m.—"Town and Country" with Ray Wolf, Agricultural Extension Information specialist.  
Friday, 9 p.m.—"Repertory Theater" with John D. Hurrell, assistant professor of English.  
9:30 p.m.—"Faculty Abroad" with Paul H. Cashman, associate professor of rhetoric, as interviewer.

### UNIVERSITY GALLERY EXHIBITIONS

September 12-October 20—Jan Müller.  
September 15-November 4—Prints by German Expressionists.  
September 26-November 4—Graphic Art of Edvard Munch.  
October 17-December 2—Rooms to Let: photographs and text by Frank Agar, Jr.  
October 27-December 2—Gorky Drawings.

### OCTOBER UNIVERSITY OF MINNESOTA PRESS PUBLICATIONS

*Obsessive Images: Symbolism In The Poetry of the 1930's and 1940's* by Joseph Warren Beach, with an introduction by William Van O'Connor, professor of English. \$6.75.  
*Portage Into The Past: By Canoe Along The Minnesota-Ontario Boundary Waters* by J. Arnold Bolz. \$4.50.  
*Minnesota History: A Guide To Reading and Study* by Theodore C. Blegen, dean emeritus of the Graduate School, and Theodore L. Nydahl, professor of history and chairman of the social studies division of the Mankato State College. \$5.00.  
*Estimated Distribution of Minnesota Taxes and Public Expenditure Benefits* by Oswald H. Brownlee, professor of economics. (No. 21, University of Minnesota Studies in Economics and Business.) Paper. \$1.50.  
*The Strong Vocational Interest Blank: Research and Uses*, edited by Wilbur L. Layton, now head of the psychology department, Iowa State University. (No. 10, Minnesota Studies in Student Personnel Work.) Paper. \$3.50.  
*Talent And Education: Present Status And Future Direction*, edited by E. Paul Torrance, director of the Bureau of Educational Research. \$4.50.

### ATHLETIC DEPARTMENT EVENTS

#### Home Football Games

*Memorial Stadium—1:30 p.m.*

October 1—Indiana.  
October 8—Northwestern.  
October 15—Illinois (Homecoming game).  
October 29—Kansas State.  
(Single tickets \$4.00. Over-the-counter sale of any unsold tickets begins the Monday before each game at 109 Cooke Hall.) \*

#### Cross Country

*Nokomis Park, 10 a.m.*

October 1—Drake University.  
October 15—State University of Iowa.

Unless otherwise noted, events are open to the public without charge.

\*Tickets for these events are available at the Field Schlick Ticket Office, St. Paul, and the Downtown Ticket Office, 188 Northwestern Bank Building, Minneapolis, on Monday of the week prior to the performance.

# THE MINNESOTAN

*The University Staff Magazine* - November, 1960



## They Made Us Great

**T**WO INTERNATIONALLY KNOWN medical scientists on the staff of the University Hospitals were recipients of the first Distinguished Service Awards of the Minnesota Medical Foundation given on September 26.

Dr. Maurice B. Visscher, head of physiology, and Dr. Owen H. Wangensteen, chairman of surgery, received the awards in recognition of their "exemplary achievement in teaching and research." Each will receive a sum of \$5,000 annually until his retirement. The awards were made possible by special contributions to the Foundation, a non-profit organization. Dr. Visscher's award was a contribution from the Modern Medicine Publications Foundation, and the Phillips Foundation provided Dr. Wangensteen's award.

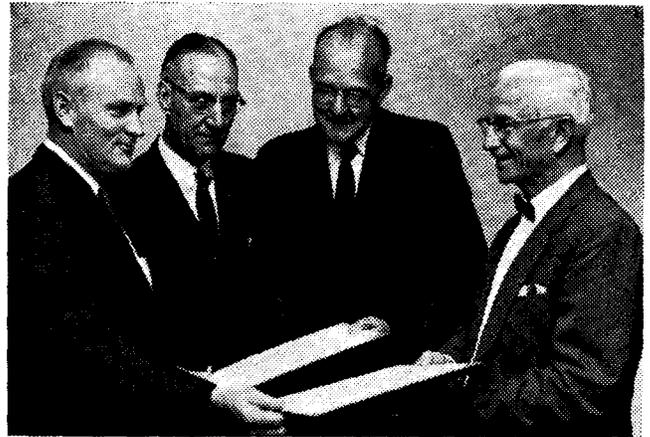
Additional honors came to these two distinguished educators when the Board of Regents, at its October 1 meeting, named Dr. Visscher a "Distinguished Service Professor of Physiology," and Dr. Wangensteen a "Distinguished Service Professor of Surgery."

Famed for his many contributions to mankind in developing life saving operating room techniques, Dr. Wangensteen is a Minnesotan by birth and education. Born in Lake Park, Minnesota, in 1898, he received all of his degrees from the University—a B.A. in 1919, an M.D. in 1922, and a Ph.D in 1925. A man whose name stands for successful surgical techniques in the hospitals of many countries, Dr. Wangensteen is one of the top experts in the world on cancer surgery, particularly in the abdominal area; one of the pioneers in heart surgery; and one of the leading authorities on surgical treatment of gastric and duodenal ulcers. Active in numerous scientific societies, he has been honored nationally and internationally for his contributions to clinical surgery and surgical research.

In 1949, Dr. Wangensteen received Minnesota's first annual medal for "distinguished service in cancer control," presented by the Minnesota Division of the American Cancer Society. Last year he assumed the presidency of the American College of Surgeons. He has been chief of the Department of Surgery at the University since 1930.

Dr. Visscher headed the department of physiology at the Universities of Tennessee, Southern California, and Illinois before he was appointed head here in 1936. One of the nation's leading authorities on diseases of the heart and circulatory system, Dr. Visscher has spent 37 years in heart research.

Born in Holland, Michigan, in 1901, he received his A.B. degree from Hope College in 1922. The University awarded his advanced degrees—an M.S. in 1924, a Ph.D in 1925, and an M.D. in 1931. His research fields include the heart and blood vessel system, aging and



Left to right: President O. Meredith Wilson and Dr. Herman E. Drill, president of the Minnesota Medical Foundation, congratulate Drs. Visscher and Wangensteen after the two University scientists received their Distinguished Service Awards.

activities of endocrine glands, as well as carcinogenesis, the production of cancer. Dr. Visscher was instrumental in developing cancer research in the Medical School and in obtaining funds to organize a cancer biology division.

A nationally and internationally honored scientist, he was the recipient of the American Cancer Society medal for Minnesota in 1955, "awarded in recognition of his important contributions to the control of cancer."

In 1956 Dr. Visscher became a member of the National Academy of Science, and a fellow of the New York Academy of Sciences in 1958.

### on the cover . . .

are men in the Naval Reserve Officer Training Corps at the University. A navigation class of third year naval science midshipmen learns to chart a sea voyage along the east coast of the United States.

*Cover photography by Alan Ominsky*

(The cover picture for the October issue symbolizes the departure of children from the University of Minnesota Variety Club Heart Hospital. Medical scientists at the University are always searching for new ways to make the hearts of children healthy and happy again.)

Vol. XIV

No. 2

### THE MINNESOTAN

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

William L. Nunn, Director

Beverly Sinniger ..... Editor  
Jo Anne Ray ..... Associate Editor

Advisory Committee: Members of the University Public Information Council.

*The Minnesotan* will be published monthly October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2.00 a year, 25 cents a copy.

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

Second-class postage paid at Minneapolis, Minnesota.

# Study Center Strengthens Family Life Research And Instruction

**T**HE SECURITY AND elevation of the family and of family life are the prime objects of civilization . . .” wrote Charles Eliot, the late president of Harvard University.

At the University of Minnesota, research and instruction programs which discover and transmit new knowledge about the family, its inner relationships and association with society, are advanced and coordinated by the Family Study Center.

Now in its fourth year of operation, the Center first existed as an idea in the minds of those staff members who felt the need for greater coordination of family life research and for graduate training for students of marriage and the family. An interdepartmental planning committee of the Departments of Sociology and Interdisciplinary Studies and of the Institute of Child Development and Welfare secured an \$85,000 grant from the Louis W. and Maud Hill Family Foundation to support the operations of the Center for a five-year period.

Reuben L. Hill, then research professor in the Institute for Research in the Social Sciences and professor of sociology at the University of North Carolina, was named director

of the new Center, and with his arrival in August, 1957, the Center officially began its operations.

The years since then have brought a steady strengthening and expanding of the family life program at the University. Since 1957 the number of graduate students concentrating their studies in the family life field has increased from two in the Departments of Sociology, Educational Psychology, Child Development, and Home Economics to 12.

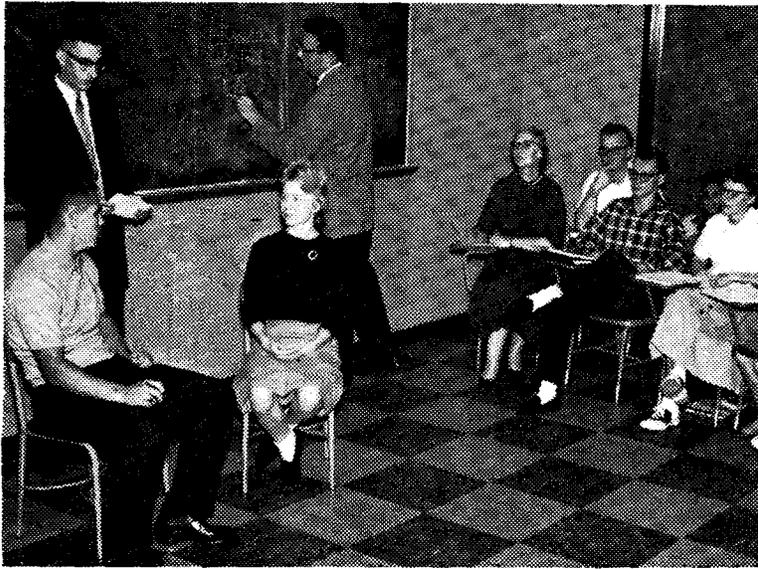
Before 1957 the University offered five undergraduate courses on marriage and the family but had no systematic graduate training program. “The several undergraduate

sections of the marriage preparation course were potential laboratories in which graduate students could receive training in family life instruction,” said Professor Hill. “It was almost as if the University had failed to utilize the teacher-training aspect of its University High School.”

The Center has been instrumental in establishing a number of graduate courses in family life education and research in the Department of Sociology and the College of Education, including a seminar for college teachers of marriage courses which utilizes the training potential of the undergraduate marriage preparation classes. During the first quarter stu-

Roy G. Francis, professor of sociology; Reuben L. Hill, director of the Family Study Center; and Arthur L. Johnson, associate professor of sociology, check data compiled in a study of family management and planning. Each pin on the map of the Twin Cities shows the location of a family used in the study. Professor Hill is director of this project.





Left: Demonstrating how graduate students receive training in family life instruction are Ronald Pitzer, instructor in family life, and Sander Latts, teaching assistant in General College and graduate student in sociology. Seated in the first desk at right is regular course instructor, Maurine Hansen. Below: Jerry Stromberg, teaching assistant in sociology; Myrna Eickhoff, statistical clerk; and Robert E. Carlson, research fellow in sociology, assist on the research projects by processing data and conducting statistical analyses.

dents attend the undergraduate classes as observers. During the second quarter they are given complete responsibility for teaching a class under the supervision of the regular instructor.

Although the undergraduate courses in family life have been transferred from the Department of Interdisciplinary Studies to the Center, the Center is not primarily a teaching unit. "The Center neither grants degrees nor competes in any way with academic departments," said Professor Hill. "Its main objective is to survey carefully the existing courses, determine what new courses should be initiated, and then work with the appropriate departments in developing the new course."

Currently, for example, the Center is completing a survey of secondary school teachers who instruct family life courses. The survey is discovering who these teachers are and what experience and training they have. The results will be used in outlining content for a graduate program for secondary school teachers in the family life field.

Members of the Center staff who teach graduate and undergraduate courses are: Professor Hill; Gerhard Neubeck, assistant director of the Center and chairman of the under-



graduate family life program; Arthur L. Johnson, associate professor of sociology; E. Scott Maynes, associate professor of economics; Helen Ludwig, associate professor of home economics; Maurine Hansen, Gary Hansen, Ronald Pitzer, Cecelia Sudia, and David Torbett, instructors in family life; Elizabeth Peterson, instructor in child development; and Jack Ross, teaching assistant in family life. Roy G. Francis, professor of sociology, is research professor and consultant on the Center's current research projects.

Other faculty members engaged

in research, graduate instruction, and supervision of teaching apprentices with whom the Center works each day include: John E. Anderson, professor of child development; Wayne J. Anderson, associate professor of family life in the General College; Natalie Gallagher, instructor in home economics; Armin Grams, associate professor of child development; Charles W. Martin, Agricultural Extension specialist in family life; and Marvin Taves, associate professor of sociology.

Just as a major function of the Center is to encourage and develop



Joanne Lecander, a 1960 University graduate in sociology, coordinates clerical services for several research projects and serves as secretary to Professor Hill.

new instructional programs, so, too, the Center facilitates and coordinates the research efforts for family oriented staff members in various departments.

The Center offers consultant help to interested faculty in designing and securing financing of marriage and family research. A staff to help process research reports is placed at the disposal of the faculty member. Staff members who assist in the research projects are Research Professors Hill and Francis, Robert E. Carlson, research fellow; Joanne Lecander, secretary; and Myrna Eickhoff, statistical clerk.

Currently, the Center's staff members are making several studies including an investigation of "burned out" families in the Twin Cities anticipating future research on family adjustments to the devastating loss of life and property in a major disaster such as a tornado, hurricane, flood, or explosion. Professor Johnson is directing this study.

Professor Hill is now directing a study of family management and planning. Three interlinked generations of families, representing the various social, cultural, and economic groups in the Twin Cities, are subjects for the study which seeks to determine how competently families meet the needs of the present and

November, 1960

make and execute plans for the future. Results of the study will be of interest to consumer educators and to financial counselors and government and other agencies trying to help people plan wisely. "But more important," said Professor Hill, "this study is preliminary to a more extensive study of judgment which will trace the history of families to determine what kinds of families make 'good' or 'poor' judgments. The next step will be to take newly married couples and determine whether their judgments can be improved through educational programs."

Another project of the Center involves preparing a summary for the English speaking countries of all research on the marriage and family conducted in Japan since World War II. Takeji Kamiko, assistant professor of sociology at Osaka City University, Japan, has joined the Center staff as a visiting research fellow for the current academic year. He is devoting much of his time to translating the sociological reports from Japanese into English and then he and Professor Hill will compare the Japanese findings with those of the United States and Europe. Of particular interest to the sociologists are the many differences in family patterns in Japan—such as arranged marriages and use of marriage brokers—and family patterns in the United States.

"The Japanese have made extensive studies of the family," said Professor Hill, "but little of this information has been available to sociologists in this or other countries.

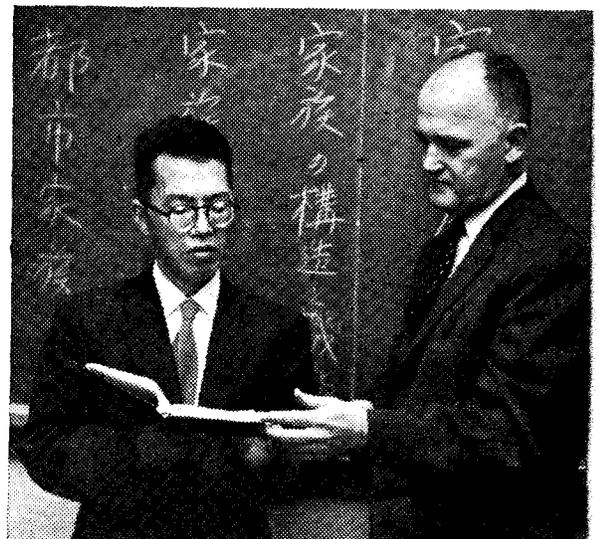
Takeji Kamiko, visiting research fellow on the Center's staff, shows Professor Hill one of the Japanese sociological reports which he is translating into English. Professors Kamiko and Hill are preparing, for an international audience, a summary of family research conducted in Japan since 1946.

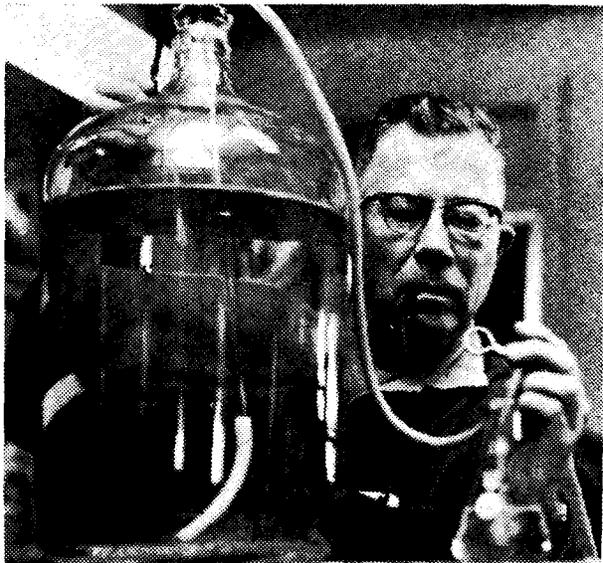
Thus, this will be a major contribution to the family life field.

"All of these research projects are valuable, of course, because they increase our knowledge and understanding of the family. In addition, however, they provide the means for training graduate students in research and this is a major function of the Center."

Center staff members also render services, mainly through consultation and lectures, to research, educational, and governmental organizations locally, nationally, and internationally.

Administratively, the Center is located within the College of Science, Literature, and the Arts. An advisory committee, broadly representative of the several colleges and departments making contributions to the field of marriage and the family, guides the policies and programs of the Center. The Committee members are: John C. Kidneigh, chairman, director of the School of Social Work; Richard W. Anderson, associate professor of psychiatry; Marcia Edwards, associate dean of the College of Education; Professor Hill; Robery Levy, associate professor of law; Elio D. Monachesi, chairman of sociology; Professor Neubeck; Sheldon Reed, director of the Dight Institute; Louise A. Stedman, director of the School of Home Economics; Harold W. Stevenson, director of the Institute of Child Development and Welfare; Malcolm M. Willey, vice president for academic administration; and C. Gilbert Wrenn, professor of educational psychology.





Professor Odlaug uses distilled water to conduct a test in the Lake Superior Research Station laboratory.

Research into the sketchy personality of the world's largest fresh water body is being conducted by

## *Lake Superior 'Biographers'*

**P**OP BOTTLES, FISHING VESSELS and oceanographic instruments are figuring in the University of Minnesota's continuing studies of Lake Superior at Duluth.

Since 1956 these and other items have played some part in determining the sketchy personality of the world's largest fresh water body.

The lowly pop bottle helped get the project off the ground during the first summer study of lake currents.

Going out in fishing boats, the limnological (fresh water) researchers released 1,000 soda-like bottles from strategic points on the lake. Contained in each bottle was a postal card with instructions to fill out as to date when found and point of landing.

Bottles released at Grand Marais were recovered as far away as Rossport, Ontario, 690 miles, and Michipicoten Harbor, Ontario, 568 miles. Most of the bottles, however, drifted

to the south shore of Lake Superior.

Tabulators at the School of Public Health in Minneapolis received not only information on where the bottles came to rest, but queries about cures for the common cold, how sand got into the bottles (it was used for ballast) and whether the number of bottles found was a record.

With successful postcard returns on the bottle launchings—33 per cent the first year — the scientists made a tentative deduction: there existed a southwest current flowing toward Duluth along the North Shore, and a northeast current along the South Shore of the lake. They noted a general counter-clockwise circulation of surface water in the western arm of the lake and from the time of first card returns, suspected a current velocity of up to 10 miles per day.

Additional study of currents and water circulation was carried out in the summer of 1957. Results from 5,000 more bottle launchings tended

to confirm the previous findings.

During the first two years of the study, the scientists also gauged water temperature with the bathythermograph, an oceanographic instrument resembling a torpedo. Such instruments were used following consultation with Professor A. C. Redfield of the Woods Hole, Massachusetts, Oceanographic Institute.

During the summer of 1958, the members of the research team turned their investigation to the chemical nutrients of Lake Superior—the constituents available for growth and survival of plant and animal life. More recently and including this past summer, they related past physical findings to a biological survey of the surface waters. They were attempting to pin-point the effects of sunlight, wind, water currents, temperature, and chemicals on the development of the lake's living components.

To study metabolism of green plants, the staff filled bottles with

concentrated plant material and suspended them from floats in the lake.

Other samples were gathered with the aid of the "Glad-Ann," a 32-foot cruiser, and the "Blue Jay," a commercial fishing boat. Laboratory testing was done in the Lake Superior Research Station on Lester River, Duluth. Conversion of the former fish hatchery and summer art center into a well-equipped, UMD-owned laboratory was facilitated through the continued interest of UMD Provost Raymond W. Darland.

Francis B. Moore, associate professor and head of chemistry at UMD and E. J. Cowles, associate professor of chemistry, furnished chemical analyses for the project.

Research completed at the laboratory upheld the staff assumption and showed that Lake Superior contains only a small amount of nutrient materials, and that nutrients are well diluted in the great expanse of water. They do seem to be concentrated around the slower-moving waters of the harbor areas.

Bacteriological studies, coupled with studies of lake water currents, led to the belief that Lake Superior has a built-in mechanism for waste disposal.

In one of the staff reports, a writer recorded ". . . a rapid dilution of waste materials . . . as these materials entered the lake proper . . . . The periodic flushing by exchange of large volumes of water, governed by movements of water masses, provides a mechanism for removal of materials entering the lake from a harbor."

Though the research team prefers to call its work "basic research," the studies have bearing not only on waste removal but also on transportation, commercial fishing, and water supply.

Over-all project administration for the work was furnished by Professor Herbert M. Bosch, and technical supervision by Professor Theodore A. Olson, both of the School of Public Health. The project has had the in-

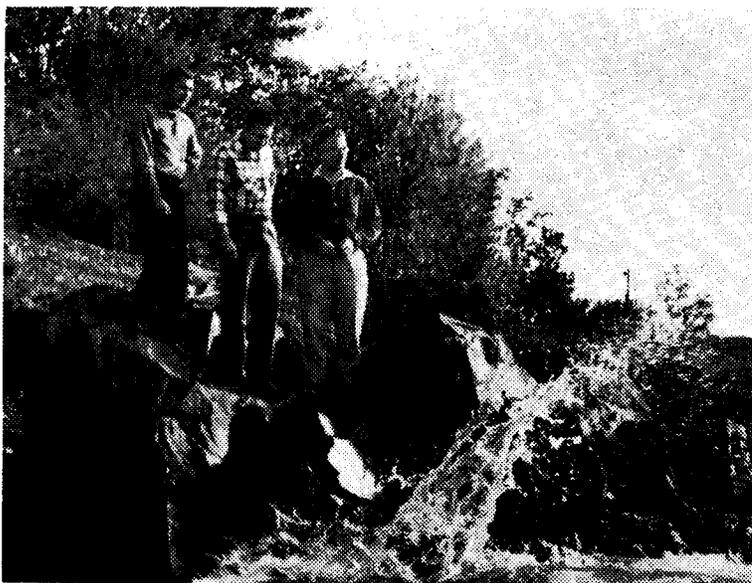
itial and continued backing of Dean A. E. Spilhaus of the Institute of Technology and Dr. Gaylord W. Anderson, director of the School of Public Health. Dean Emeritus Theodore C. Blegen, before he retired from the Graduate School, added his frequent encouragement.

The lake's "biographers," who make their headquarters in a converted Duluth fish hatchery, include Theron O. Odlaug, professor and head of biology at Duluth, and Hugh D. Putnam, research fellow, and Or-

lando R. Ruschmeyer, instructor, School of Public Health.

The University investigations have been under contract with the Minnesota Department of Health, which acts for the Minnesota Water Pollution Control Commission.

With the receipt of a Louis W. and Maud Hill Foundation grant of \$207,721, it is hoped that a permanent Limnological Institute might be founded within the University's Graduate School.



Top: Looking over an area of Lake Superior's shoreline are its "biographers" Hugh D. Putnam, research fellow; Orlando R. Ruschmeyer, instructor; and Theron O. Odlaug, head of biology at UMD.



Carrying oceanographic instruments in from the lake are Hugh D. Putnam, left, and Orlando Ruschmeyer.

# HAVE Y

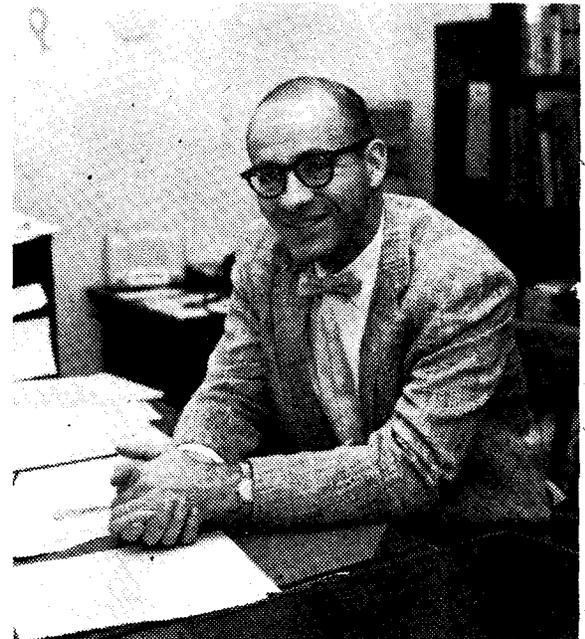


**Esther Peterson**

A senior clerk at the Student Counseling Bureau, Mrs. Esther Peterson enjoys the hobby of collecting postmarks from around the world, and also coin collecting. Foreign students have given her many postmarks from their home countries. She is in charge of scoring tests taken by high school students and she also scores student entrance exams for other local colleges. She is always happy to visit her daughter and three grandchildren in Iowa. Cruising down the St. Croix River is one of her favorite summer relaxations.

**Robert Scott**

One of the contributing editors to a section of the Quarterly Journal of Speech is Robert Scott, assistant professor of speech. Beginning his fourth year at the University, Professor Scott is originally a Nebraskan and formerly taught at the University of Houston. Besides teaching courses in public speaking, he is also the University debate coach. His family includes a wife and two children.



**Martin Bronfenbrenner**

Professor of economics in the School of Business Administration, Martin Bronfenbrenner came to the University in January of 1959 from Tokyo where he had taught economics at two different Japanese universities. While in Japan, Professor Bronfenbrenner observed that the teaching profession is "looked upon with much greater respect than in this country." Previously, he spent 10 years on the staff of the University of Wisconsin. Professor Bronfenbrenner and his wife, whom he met and married in Japan, are the parents of a young son and daughter.

# U MET?

## Edward Buckrey

Slavic folk dancing, three teen-age daughters, camping and traveling — keep carpenter Edward Buckrey of the Physical Plant busy when he is not repairing one of the hundreds of doors on the Minneapolis campus. Mr. Buckrey's biggest job comes "all at once" in the wintertime. When the mercury hovers around zero, he must readjust every outside door in every building on campus. Fond of traveling, Mr. Buckrey and his three daughters have "camped" their way three times to the West Coast, and once to the East Coast. His oldest daughter, Barbara, is a University student majoring in chemistry.



## Irmagene Sanford

Newly appointed supervisor of the outpatient department of the nursing services at University Hospitals is Irmagene Sanford, who has been on the staff for 11 years. Miss Sanford, who is a St. Paulite, pointed out that 500 patients visit the Hospitals outpatient clinic every day. She received her bachelor of arts degree from Hamline University and completed her nurse's training at the University.



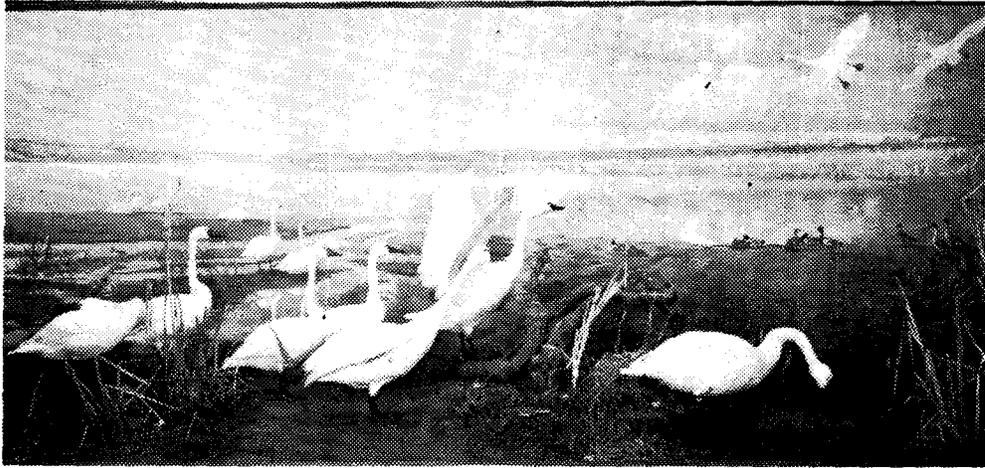
## Blanche Moen

Beginning her 36th year of service as assistant professor and chief librarian is Miss Blanche Moen. Head of the reference department since 1952, Miss Moen says the number of books "has probably doubled in her time." One who thoroughly enjoys the University atmosphere, Miss Moen believes students in the past few years are busier and study much harder. She is a graduate of the University of North Dakota and received her library training at the University of Illinois. One of her favorite pastimes is, of course, reading.

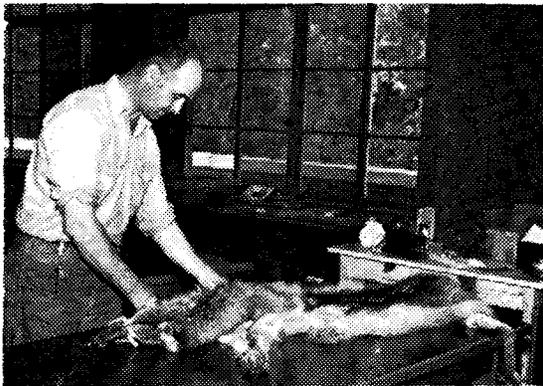


The Museum of Natural History displays  
portray real-life wilderness scenes of

## Minnesota's Natureland



Whistling Swans resting on their spring flight along the Minnesota River bottoms near Fort Snelling.



John Jarosz inspects the tanned skin of a timber wolf.

Posting bulletins in the hall of the Museum is Cornelia Haugland, artist receptionist.



**R**EAL-LIFE WILDERNESS scenes of Minnesota's natureland — from black bears in the forest, timber wolves on Lake Superior's North Shore to downy wood ducks jumping from their nest — can be found in life-sized displays right on the campus in the Museum of Natural History.

Over 200 displays are set up in the Museum, including 16 major exhibits, each with life-size animals, birds, fish, and vegetation—all in exact dimensions. Each display is carefully made to reproduce nature in Minnesota, including the four seasons of the year, according to Walter Breckenridge, director of the Museum. Preparation and work involved in constructing one of the major, glass encased exhibits (which measure as long as 21 feet) may take as long as two years. Each of the major exhibits portrays a specific area of Minnesota during one of the four seasons of the year. If it is spring, all vegetation is authentic with this particular season.

The moose exhibit exemplifies the northern, fall wilderness of Minnesota, near Gun Flint Lake, close to the Canadian border.

In planning the major exhibits, the designer begins by sketching the actual scene that is going to be reproduced. Numerous photographs are also taken at the location. The technicians, including the background artist, spend time at the setting, securing firsthand impressions as well as specimens, materials, and other data for use in the display. At present, preparation of all specimens for the displays is done by John Jarosz, preparator at the Museum. "We begin by building an actual small scale model with clay animals, then work proceeds on the individual parts of the exhibit with this model as a guide," explains Mr. Jarosz.

Materials such as tree trunks, branches, dead grasses, and leaves which dry with little evident change are used whenever possible. But green plants, leaves, fungi, and such perishables, must be reproduced. Sample specimens of all materials to

be used are collected and their color details recorded by comparisons with color charts (which include over 7,000 different color shades) or by actual water color paintings. Typical leaves are selected from the plant and exact impressions of both surfaces of the leaves are made in plaster molds. A stem of tapered wire and a wisp of cotton are laid in the lower half of the mold. Hot wax, colored with oil paint to match identically with the actual leaf color, is poured into the leaf impression and the press is firmly closed. When removed from the mold, the wax leaves are trimmed and then assembled by soldering to the wire plant stem. Certain plants are reproduced with other materials, such as plastics, rubber, paper, or cloth. Each material requires special handling. The reproduction of vegetation is the most time-consuming task in the building of exhibits.

Rock masses are cast in plaster from rubber molds made from rock surfaces at the actual location of the scene. These section casts are fitted into place over wood and wire frames and colored from samples of the original rocks. All soil surfaces are built over wooden frames. The simulated, real-looking rocks in the exhibits are actually hollow with a thickness of about an inch.

A bird that is to be mounted is first carefully skinned, and the body reproduced in balsa wood or tightly wrapped fiber. The skin is washed, degreased, and preserved with borax. Wires are inserted into the legs, neck, and wings, and the bird is reassembled on the artificial body and shaped with great care into a life-like attitude.

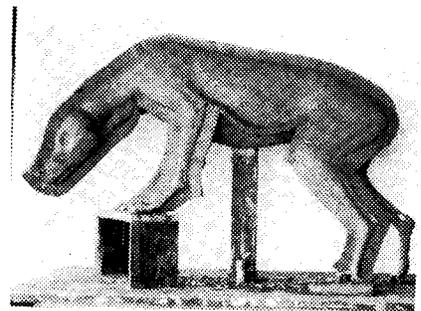
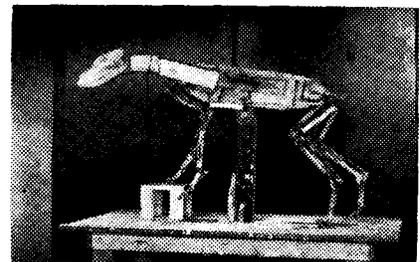
"Large mammals require much more effort in their preparation," said Professor Breckenridge. Accurate measurements of the diameter, thickness, and height, at numerous points, are taken of the freshly-killed specimens. Plaster or rubber casts of such vital parts as the nose and eyes are often made. The skin is removed, tanned, and shaved thin without disturbing the hair. Essen-

tial skeleton parts, such as the skull, pelvis, and leg bones, are preserved. These are set upon a frame in the position required for the exhibit, and a temporary clay model is shaped around the skeleton. The model is then covered with plaster which forms a negative mold. To confine the plaster, clay walls are built around each section to be cast. The completed plaster negative mold is then removed in several sections, and half-inch-thick positive casts of plaster or papier-mache are then assembled to form a hollow manikin, an exact replica of the clay model. On this manikin, the tanned skin is sewed and cemented to produce the finished specimen. The manikin must be anatomically correct to identically fit the skin. Ecological settings and animal habits are often checked with Harvey Gunderson, assistant scientist at the Museum, whose work involves studies of the mammalian kingdom.

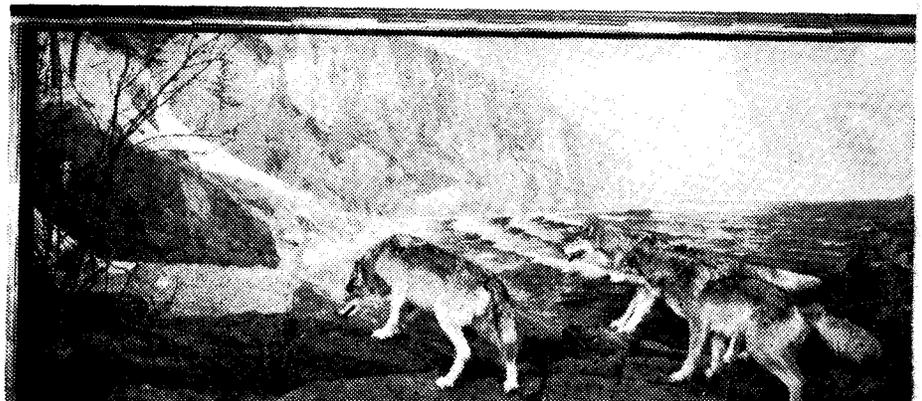
Background murals are painted by Francis Lee Jaques, an artist now living in St. Paul, who did many of the murals for the American Museum in New York City. A huge canvas is attached to the back wall and here the artist paints in the background for the display.

A new series of displays being set up in the Museum include the different species of fish found in Minnesota. The major cost of most of the individual exhibits has been defrayed by different Museum benefactors.

One hundred and twenty-five small exhibits are portable and are available to Minnesota educational groups and schools for display and classroom teaching. Last year, some 12,500 Twin Cities school children toured the exhibits under the direction of Museum guides. Museum assistants who conduct tours include Jefferson Benner, Dale Chelberg, Al Sargent, Stan Hanson, Larry Smith, Donald K. Lewis, visual education advisor in the Museum, and Harvey Gunderson, curator of mammals. Cornelia Haugland, receptionist in the main lobby, arranges the tours. Department secretary is Marjorie Lardy.



Top to bottom: A. Small-scale clay model used to determine animal attitudes and location of major objects. B. Skeleton frame in attitude required for exhibit. C. Completed clay model ready to be cast in plaster. D. Finished display of the three northern Minnesota timber wolves hunting along Lake Superior's North Shore.



# — Have You Heard? —

## Staff Appointments, Elections, Activities

• DAVID K. BERNINGHAUSEN, director of the Library School and past president of the Association of American Library Schools, has been elected to a four-year term as a member of the Council of the American Library Association. He also has been appointed chairman of the committee on accreditation of the American Library Association for 1960-61.

WESLEY C. SIMONTON, associate professor in the Library School, has been elected to serve a three-year term as secretary-treasurer of the Association of American Library Schools.

• WILLIS E. DUGAN, professor of education, is one of 21 leading educators and executives named by Arthur S. Flemming, United States secretary of health, education, and welfare, to serve as an advisory committee to develop broad policies for strengthening American education. The group regularly serves as consultants on education to the secretary and to the United States commissioner of education.

• BRYCE L. CRAWFORD, dean of the Graduate School, has been reappointed to the National Science Foundation's divisional committee for scientific personnel and education. Effective Dec. 1, the appointment will continue through Nov. 30, 1962.

The eight-member committee, made up of college and university administrators and industry representatives, serves as an advisory group on policy and programs to the scientific personnel and education division.

• PAUL E. MEEHL, professor of psychology, has been named president-elect of the American Psychological Association. He will become president in September, 1961. Professor Meehl has been president of the Midwestern Psychological Association and in 1958 was one of three national winners of Distinguished Scientific Contribution Awards made by the American Psychological Association.

• EDMUND G. WILLIAMSON, dean of students, has been asked to serve as a member of the Advisory Committee on the National Defense Counseling and Guidance Institutes Program. The Program, authorized by the National Defense Education Act of 1958, is conducted by the United States commissioner of education.

• E. W. McDIARMID, dean of the College of Science, Literature, and the Arts, has been named to a national centennial committee of the American Association of Land-Grant Colleges and State Universities' division of arts and science. The committee will study what is being done in teaching, research, and public service in arts and science throughout the land-grant system of educational institutions. Results of the evaluation will be reported at the Association's centennial convocation in November, 1961, in Kansas City, Mo. The centennial of the land-grant system will be observed in 1961-62.

The committee will also be responsible for liaison with national societies, associations, and similar groups with which it is in contact in order to bring the centennial to their attention and to seek their active participation. Other committees will make studies in agriculture, engineering, general extension, graduate work, home economics, teacher education, and veterinary medicine.

• Four UMD faculty members attended the 138th national meeting of the American Chemical Society held in New York City this fall. MOSES PASSER, associate professor of chemistry, is a member of the national committee on Chemical Education; JAMES C. NICHOL, associate professor of chemistry, presented a paper; and both GLENN M. CHRISTENSEN and LARRY C. THOMPSON, assistant professors of chemistry, were co-authors of papers presented at the meeting.

• Three faculty appointments in the Department of Economics and in the Upper Midwest Economic Study have been announced by PAUL V. GRAMBSCH, dean of the School of Business Administration.

LEONARD W. WEISS, on leave from San Jose State College, Calif., has been appointed visiting associate professor of economics for the current academic year. He will be in charge of the Department's National Defense Fellowship Program.

LARRY A. SJAASTAD, who has been studying for the doctor of philosophy degree at the University of Chicago, has been named lecturer in economics and research associate in the Upper Midwest Economic Study. R. STEPHEN RODD, who has been doing graduate work at the Massachusetts Institute of Technology, also was appointed a research associate in the Upper Midwest Study.

• JOHN NETER, professor of statistics in the School of Business Administration, has been named as a consultant to the United States Bureau of the Census. He will advise on procedures for collecting data on expenditures for household repairs, maintenance, additions, and alterations. Professor Neter recently returned to the University after spending a year's leave of absence with the Bureau of the Census in Washington conducting experiments to determine how such data can be collected accurately.

## Grants for Research, Scholarships

• Five National Science Foundation grants totalling \$158,000 have been awarded to the University of Minnesota. One of the grants will support the "Midwest Conference on Theoretical Physics" scheduled at the University in the spring quarter. WARREN B. CHESTON, associate professor of physics, will direct the committee planning the Conference.

An \$80,000 basic research grant will support the two-year project, "Controlled Climate Facility," to be conducted on the St. Paul Campus. Professors in charge of this research are ERNEST H. RINKE, acting head of the Department of Agronomy and Plant Genetics; JONAS J. CHRISTENSEN, head of the Department of Plant Pathology and Botany; and WILLIAM P. MARTIN, head of the Soils Science Department.

GERHARD K. KALISCH and BERNARD R. GELBAUM, professors of mathematics in the College of Science, Literature, and the Arts, will head the two-year \$46,500 "Functional Analysis" research; DWAIN W. WARNER, Minnesota Museum of Natural History curator, the one-year \$4,900 project on "Effects of Prolactin on Reproductive Behavior"; and DAVID L. LABERGE, associate professor of psychology, will direct the three-year \$24,700 project on "Choice Behavior".

• A National Science Foundation grant of \$30,300 has been awarded to the University for the support of basic research on "Light Scattering and Electro-motive Force Studies on Solutions of the Isopolytantalates". The two-year project will be directed by R. STUART TOBIAS, assistant professor of chemistry.

- EDWARD P. NEY and JOHN R. WINCKLER, professors of physics, have received a \$54,700 grant from the National Science Foundation for a four-month extension of their program of continuous balloon monitoring of cosmic rays. The program was initiated over a year ago under a \$350,000 grant from the Foundation for a 13-month period.

Other National Science Foundation grants, totaling \$204,300, have been awarded to ALLAN H. BROWN, professor of botany, for "Photosynthesis Research"; JOHN W. HALL, associate curator, paleobotany research laboratory, "Microfloral Transgression in the Dakota Group (Cretaceous)"; IRVIN E. LIENER, professor of agricultural biochemistry, "Structural Basis of Enzyme Action"; A. GLENN RICHARDS, professor of entomology and economic zoology, "Relation of Habitat and Cuticle in Termites"; FREDERICK M. SWAIN, associate chairman of geology, "Environmental Relations of Costal Ostracode"; and JACOB SCHMOOKLER, associate professor of economics, "Preparation of Source Books on Economics of Invention."

- Books and program material to assist University students in Islamic studies have been added to the University Walter Library in memory of a student from Pakistan, the late Ahmed Marghoob.

Mr. Marghoob, a graduate of the Government English College, Karachi, Pakistan, received a master of science degree in civil engineering from the University in June, 1957. Following his death here in October, 1957, his estate was turned over to the Greater University Fund under whose sponsorship the Marghoob Fund was established "to perpetuate the memory of a devoted Muslim and to support and further Islamic studies at the University of Minnesota."

- The University has received an initial gift of \$15,500 from the Charles and Elora Alliss Educational Foundation for the establishment of 31 \$500 scholarships to be awarded to selected entering freshman students.

Created by the will of the late Charles Clifford Alliss of Brainerd, the Foundation is an educational trust. Foundation trustees specified that the University select students who are Minnesota residents and who will be significantly benefited by scholarship aid. The grant provides that the scholarships should not be confined to students with the highest scholastic rank, but that the upper 40 per cent of any class should be regarded as eligible. Students receiving aid from other sources are to be considered eligible for the Alliss Foundation scholarships.

The grant also provides that the scholarships be made available to students enrolling at Duluth and Morris as well as at the Minneapolis and St. Paul Campuses.

- Graduate research laboratories in eight University departments will be modernized or expanded this year under grants from the National Science Foundation totaling \$105,700. Another \$105,700 in matching funds will be provided by the University to finance the projects.

The grants were awarded under a new NSF pilot program which will provide grants to educational institutions on a matching-fund basis for modernization or expansion of graduate research laboratories.

The grants will support modernization of the physical chemical instrumental research laboratories in the Department of Chemistry; additions to the graduate research laboratories in Electrical Engineering; remodeling of the organic geochemistry laboratory in Geology; equipping the high temperature laboratory in Mechanical Engineering; modernization of the X-ray laboratory in Geology and Mineralogy; modernization of graduate laboratories in Zoology; conversion of a greenhouse in Botany to a paleobotanical research laboratory; and expansion of research laboratory facilities in geochemistry in the Department of Geology.

- The University has received a \$7,100 grant from the National Science Foundation for support of a basic research project on "Variation in Meristic Characters in Fishes" being conducted by JAMES C. UNDERHILL, assistant professor of zoology.

- A National Science Foundation Grant of \$44,400 for support of basic research on "Periodically Fluctuating Air Flows at Low Reynolds Numbers" has been awarded to the University. AUGUST R. HANSON, assistant professor of aeronautical engineering, will direct the three-year project.

### News Notes

- The University and 23 other American colleges and universities will expand their Nigerian student scholarship program — inaugurated this year — to include students from all of tropical Africa. Seventy-five to 100 other American colleges and universities will be asked to join in the program. Under the plan, up to 200 African young men and women will enter American colleges and universities in the fall of 1961 for a four-year undergraduate college degree course.

The program will be an outgrowth of an experimental program by which each of the 24 sponsoring colleges and universities admitted a Nigerian scholarship student this fall. Scholarships will be offered by the participating American colleges and universities, and portions of the over-all costs will be provided by the co-operating African governments, American foundations, the African-American Institute, and the International Cooperation Administration.

- A total of \$41,966 was raised or donated for charitable and public service projects by University students during the 1959-60 academic year. Some 822 service projects of all kinds — work, entertainment, and donations of books, clothing, food, and money — were carried on by the 188 student organizations advised by the Student Activities Bureau of the Office of the Dean of Students.

All-campus events accounted for more than half of the \$41,000 total: Campus Carnival grossed \$20,246 for University scholarships; the Campus Community Chest Drive raised \$3,180; the Christmas Seal and Heart drives totaled \$2,287.

- Among the fall publications of the University of Minnesota Press are *Obsessive Images: Symbolism in the Poetry of the 1930's and 1940's* by the late Joseph Warren Beach, and *Education for Nursing: A History of the University of Minnesota School* by James Gray. Professor Beach, chairman of the English Department at the University for many years, died in 1957 before completing this book and it has been edited for publication by WILLIAM VAN O'CONNOR, professor of English.

The story of the School of Nursing is the second University history Mr. Gray has written for publication by the University of Minnesota Press. He is the author of *The University of Minnesota: 1851-1951*, a general history of the University.

### University Students: What Hometowns Do They List?

A tabulation of graduates' hometowns as listed, by the graduates themselves, in the four Commencement programs for the Twin Cities Campuses since, and including, March, 1960, revealed that a majority — nearly 90 per cent — of the 3,869 undergraduates came from Minnesota. Approximately 5½ per cent of the undergraduates came from the neighboring states of Montana, North and South Dakota, Iowa, and Wisconsin; nearly 4 per cent from other states; and a little over 1 per cent from foreign countries.

The proportion of students from other states and foreign countries was higher among graduate than undergraduate students. Of the 785 graduate students, close to 58 per cent came from Minnesota; over 8 per cent from neighboring states; over 17 per cent from other states; and approximately 16 percent from foreign countries.



## LEGISLATORS', EDITORS', AND BROADCASTERS' DAY

President and Mrs. Wilson joined legislators, editors, and broadcasters in the stands on October 1 to cheer the Gophers' victory over Indiana. Pictured are Leslie G. Curtis, president of the Minnesota Newspaper Association; Mrs. Wilson, President Wilson, and State Representative E. J. Children, speaker of the House of Representatives. Not pictured but seated immediately around President Wilson were other members of the press and Legislature including Arch G. Pease, first vice president and president-elect of the MNA; State Representative Peter X. Fugina, chairman of the House University Committee; and Sherman K. Headley, president of the Minnesota Broadcasters Association.

Attendance at the first home football game climaxed a morning of activities for Minnesota legislators, editors, and broadcasters. Over 50 exhibits prepared by various University departments were displayed in the corridors of Williams Arena; two guided tours were arranged — one to the Gamma Irradiation Facility and the Numerical Analysis Center on the Minneapolis Campus, and one to the Veterinary Clinic and Veterinary Science Building on the St. Paul Campus; and a barbecue luncheon was served buffet style in Williams Arena. Members of the Block and Bridle Club of the St. Paul Campus prepared and helped serve the luncheon.

• Minnesota's record of its use of human talent is the subject of research being initiated by the University's Student Counseling Bureau. The Bureau has received a grant of \$55,000 from the United States Office of Education to repeat a study made in 1950 of the plans of high school graduates. The new study will attempt to compare plans of today's students with those of a decade ago. RALPH F. BERDIE, director of the Counseling Bureau, and ALBERT B. HOOD, assistant professor in the Bureau, will direct the three-year project.

### Regents' Scholarship Winners

Staff members who received Regents' Scholarships for the fall semester in the General Extension Division are DONALD I. ANDERSON, laboratory animal attendant, Physiology; MARY B. BLACK, editorial assistant, Physics; JACQUELYN S. CRAWFORD, senior secretary, Physics; DELORES DOOLEY, office supervisor, Dentistry; DIANA DRUMM, general staff nurse, University Hospitals; and JUDITH ECKHOLM, senior secretary, Social Sciences, Duluth.

Also, SHIRLEY FRIBERG, assistant head hospital nurse, University Hospitals; SHARON J. GEMMILL, assistant scientist, Surgery; RAPHAEL W. GREEN, senior communications technician, Audio Visual Education; CATHERINE GRUBER, assistant scientist, Ophthalmology; SHIRLEY HOFFE, senior clerk-typist, Admissions and Rec-

ords; BARBARA L. KNIGHT, senior secretary, Psycho-Educational Clinic; and EVELYN M. KRAUS, head hospital nurse, University Hospitals.

Also, ENGEL H. PRINS, general mechanic, Mines Experiment Station; MILDRED B. RICCI, senior secretary, Physics; HELENMAE SCHAUER, senior laboratory technician, Dentistry; THOMAS J. SPAISE, senior tabulating equipment supervisor, Business Office; ROBERT L. STANS, accountant, Business Office; and CAROL L. URNESS, librarian, Reference Library.

Staff members receiving Regents' Scholarships for fall quarter day school are: LORRAINE L. BISSONNETT, junior librarian, Laboratory School Library at Duluth; LINDA A. BRINDLEY, assistant head hospital nurse, University Hospitals; AUSTRIE E. CERS, junior engineer, Aeronautical Engineering; KAY L. DRAVES, student technologist supervisor, Hospital Laboratory Service; PATTIMAE R. DUDOVITZ, senior clerk, Walter Library; MARGARET A. EIDE, senior secretary, Romance Languages; AUDREY E. ENGEN, assistant head hospital nurse, University Hospitals; GRACE E. ENCLER, laboratory technologist, University Hospitals; KENNETH L. ERICKSON, assistant bursar, Business Office; MARY J. ERICKSON, senior laboratory technician, Pathology; BARBARA G. FLUEGER, student technologist supervisor, University Hospitals; JAMES D. FROOM, laboratory technologist, Veterinary Bacter-

iology; and EVELYN L. GISH, senior clerk, Agriculture Library.

Also, MARJORIE B. GLEASON, secretary, Art, Duluth; ERNEST A. GREENE, junior scientist, Physiology; CHARLES A. HANSON, assistant gardener, Horticulture; GEORGIANNA HERMAN, reference supervisor, Industrial Relations Center; EMIL C. HOPPE, general mechanic, Plant Services; NOEL R. KAUFMAN, editorial assistant, St. Paul Campus Information Service; ALTON L. KOLLMANN, manager, Coffey Hall Bookstore; DOLORES D. KONIAR, senior clerk, Student Counseling Bureau; IRENE B. KRAFT, clerk, Student Counseling Bureau; ALAN F. MAHLER, student pharmacist supervisor, Pharmaceutical Chemistry; NANCY A. MILLER, senior secretary, Speech and Theater Arts; LADONNA M. MOSSEFIN, administrative secretary, Dean of Students; and LLOYD W. NESTRUD, senior engineering assistant, Plant Services.

Also, EDWARD R. NYE, principal laboratory attendant, Physics; KATHRYN L. SMITH, junior scientist, Veterinary Medicine; JUNE B. STEIN, student personnel worker, Student Counseling Bureau; HUBERT J. THIBODEAU, junior engineer, Plant Services; JOAN E. THORSON, head hospital nurse, University Hospitals; RUSSELL L. TROY, senior engineering assistant, Plant Services; VALERA B. WAGNER, senior clerk, Engineering Library; ARNOLD W. WALKER, television program supervisor, KUOM; RUTH C. ZIERMAN, senior laboratory technician, Physiology; and JOAN L. ZITTEMEN, administrative laboratory technologist, University Hospitals.

# Regents Rule On Staff Member's Request To Campaign For The State Legislature

UNIVERSITY STAFF member James Schwinden, research fellow in agricultural economics, was granted permission by the Board of Regents to campaign for the state Legislature as a representative from the 43rd District without resigning from his University position. The Regents further ruled that if elected, Mr. Schwinden would not have to resign but would be granted a leave of absence without pay for the legislative session.

With President O. Meredith Wilson initiating and leading a full discussion, the Regents considered the individual aspects of Mr. Schwinden's case and ruled that future requests of this nature would be judged on their own merits. Previously, a staff member had to resign from his University position before running for a paid, political office other than a minor city or county post.

The Regents considered two aspects of Mr. Schwinden's case: first, the political campaign itself, and second, his service as a state legislator should he be elected.

Regarding the campaign, the two questions considered were: would Mr. Schwinden's campaigning activities interfere in any way with the performance of his duties as a University staff member?, and, would a conflict of interest arise as it would, for example, if the University were involved in a critical political issue which Mr. Schwinden would debate during the course of his campaign? The Regents decided the answer to both questions was "no".

Mr. Schwinden said that before deciding to file for office he also considered these questions carefully and planned a campaign which would not interfere with his duties as a University staff member. "My efforts in seeking election will consist largely of discussing the issues of growth and development in an urbanizing county," he said. "They will be presented mainly through the local press and mailing with direct personal contact and appearance at a minimum. Thus, there is little likelihood

of situations arising which would involve demands during the working day.

"I have no intention of associating the University with me in any way while seeking office, or, if elected, while serving," he said, "except to indicate on a personal data sheet that I have earned degrees at the University and that it is my present employer."

On the question of Mr. Schwinden's service in the Legislature should he be elected, the Regents ruled that he would be given a leave of absence without pay for the full legislative session. Thus, the Regents took into account that service in the Legislature is a full-time job but that Mr. Schwinden's absence from the University for four months would not adversely affect the research project he directs.

Mr. Schwinden is director of a joint project of the Departments of Geography and Agricultural Economics on the economic effect of highways. "Currently," he said, "three manuscripts are being published with a fourth being prepared in manuscript form. All will be completed by January 1 when the legislative session begins. Data gathering, classification, and analysis are underway on three other reports and by January 1 they will be in the writing stage and in the hands of the authors. My service in the Legislature would not affect their publication since I would be available by May 1 to move them through the stages of critical reading and publication."

While the Regents granted approval to Mr. Schwinden to run for political office while maintaining his association with the University, they also ruled that "the administration should advise Mr. Schwinden and other members of the faculty and staff that employment with the University and dedication to it may be as important a public role as those available to most persons in public life, and that it is not likely that two such roles can be sustained effectively over a lengthy period of time."

# University of Minnesota Calendar of Events

## NOVEMBER, 1960

### MINNEAPOLIS SYMPHONY CONCERTS

#### Subscription Series

*Northrop Auditorium, 8:30 p.m.*

November 4—All-Orchestral Opening Concert with Stanislaw Skrowaczewski, new music director, conducting.

November 11—Johanna Martzy, violinist.

November 18—Malcolm Frager, pianist.

November 25—Norman Carol, violinist. (Single tickets \$2.00 to \$4.50. Reservations may be made at 106 Northrop.)\*

#### Twilight Concerts

*Northrop Auditorium, 4:30 p.m.*

November 13—"Waltz Program."

November 27—"At The Pops." Donald Betts, pianist, and Frank Miller conducting.

(General admission \$1.00. Sale of tickets opens at the Northrop Box Office at 3:30 p.m. on the day of the concert.)

### UNIVERSITY ARTISTS COURSE CONCERTS

#### Masterpiece Series

*Northrop Auditorium, 8:30 p.m.*

November 14—Israel Philharmonic. (Single tickets \$2.00, \$3.00, \$3.50, \$4.00, \$4.50. Reservations may be made at 105 Northrop.)\*

#### Celebrity Series

*Northrop Auditorium, 8:30 p.m.*

November 21—"J. B.," a Broadway play by Archibald MacLeish. (Single tickets \$1.50, \$2.50, \$3.00, \$3.50. Reservations may be made at 105 Northrop.)\*

### CONVOCATIONS

*Northrop Auditorium, 11:30 a.m.*  
(unless specified)

November 2—"Why Democracy Is Not Enough," lecture by John Scott, assistant to the publisher of *Time*. (North Star Ballroom, St. Paul Campus Student Center, 11 a.m.)

November 3—"Russia Revisited," lecture by John Scott, assistant to the publisher of *Time*.

November 10—Minneapolis Symphony Orchestra in rehearsal with Stanislaw Skrowaczewski, new music director, conducting.

November 17—"Applied Anthropology In Southeast Asia," lecture by Dr. Cora DuBois, department of anthropology, Peabody Museum, Harvard University.

November 23—Student Assembly For Football Awards. (Main Ballroom, Coffman Memorial Union, 11:30 a.m.)

### GIDEON SEYMOUR MEMORIAL LECTURE

*Northrop Auditorium, 3:30 p.m.*

November 20—Dr. Detlev W. Bronk, president, The Rockefeller Institute.

### UNIVERSITY THEATER PRODUCTIONS

#### Regular Productions

*Scott Hall Auditorium*

November 2, 3, and 4, 8 p.m.; November 5, 6:30 and 9:30 p.m.; and November 1 and 6, 3:30 p.m.—*Look Homeward Angel* by Ketti Frings.

(Single tickets \$1.50 on sale at the Scott Hall Box Office.)

November 24, 25, 30, and December 1 and 2, 8 p.m.; November 26 and December 3, 6:30 and 9:30 p.m.; and November 29 and December 4, 3:30 p.m.—*Heartbreak House* by George Bernard Shaw.

(Single tickets \$1.50 on sale at the Scott Hall Box Office.)

#### Studio Theater Production

*Studio Theater, Scott Hall*

November 11-15, 8 p.m.—*House Of The Dead* by George Poletes.

(Single tickets \$1.00 on sale at the Scott Hall Box Office.)

### SIGNIFICANT UNIVERSITY BROADCASTS

#### KUOM, 770 on the dial

Monday-Friday, 12:10 p.m.—"Doctor, Tell Me." Audrey June Booth talks with specialists representing the Minnesota State Medical Association about medical questions from the mailbag.

Monday-Friday, 2:30 p.m.—"The Afternoon Concert," an hour and twenty-five minute program providing an opportunity to present works of extended length and unusual interest.

Wednesday, 1:30 p.m.—"World Affairs" with George Grim as moderator.

Friday, 4:10 p.m.—"Accent," a glimpse behind the scenes on the University Campus: personalities, events, ideas.

### UNIVERSITY TELECASTS

#### Seen on Channel 2, KTCATV

Monday, 9 p.m.—"World Affairs." 9:30 p.m.—"At Home With Music."

Tuesday, 9 p.m.—"Arts Of Reading." 9:30 p.m.—"Statistically Speaking."

Wednesday, 9-10 p.m.—"Folio."

Thursday, 9 p.m.—"Arts Of Reading." 9:30 p.m.—"Town And Country."

Friday, 9 p.m.—"Repertory Theater." 9:30 p.m.—"Faculty Abroad."

### MUSIC DEPARTMENT PROGRAMS

#### Tuesday Music Hours

*Scott Hall Auditorium, 11:30 a.m.*

November 1, 8, 15, 22, and 29—students, faculty, and guest artists.

#### Special Exhibit

*Room 2, Scott Hall*

November 28-December 5—"G. Schirmer Traveler," exhibit of contemporary American publications.

### MUSEUM SUNDAY PROGRAMS

*Museum of Natural History Auditorium, 3 p.m.*

November 6—"Pesticides." Walter J. Breckenridge, director, Minnesota Museum of Natural History.

November 13—"Sweden's Forestry Practices," color sound movie.

November 20—"Game Management ABCs—The Big Four." John Tester, ecologist, Minnesota Museum of Natural History.

November 27—"Adaptations in Mammal Skulls." Harvey Gunderson, assistant scientist, Minnesota Museum of Natural History.

### UNIVERSITY GALLERY EXHIBITIONS

Through November 4—Prints by German Expressionists.

Through November 4—Graphic Art of Edvard Munch.

Through December 2—Rooms To Let: photographs and text by Frank Agar, Jr.

Through December 2—Gorky Drawings. November 9-December 9—Third Annual Collectors Exhibit.

### NOVEMBER UNIVERSITY OF MINNESOTA PRESS PUBLICATIONS

*Bird Portraits In Color* by Thomas S. Roberts. \$5.95.

*Education For Nursing: A History Of The University of Minnesota School* by James Gray. \$5.00.

*Ambassador From Venice: Pietro Pasqualigo In Lisbon, 1501* by Donald Weinstein. \$5.00.

### ATHLETIC DEPARTMENT EVENTS

#### Home Football Games

*Memorial Stadium, 1:30 p.m.*

November 5—Iowa.  
November 12—Purdue.

(Single tickets \$4.00. Over-the-counter sale of any unsold tickets begins the Monday before each game at 109 Cooke Hall.)\*

#### Home Hockey Games

*Williams Arena, 8:15 p.m.*

November 26—Alumni. (Single game reserved tickets \$1.50. General admission tickets at \$1.00 for adults and \$.75 for individuals under 16 on sale at gate only. Over-the-counter sale of any unsold tickets begins the Monday before each game at 109 Cooke Hall.)\*

#### Cross Country

*Nokomis Park, 10 a.m.*

November 5—Iowa.

Unless otherwise noted, events are open to the public without charge.

\*Tickets for these events are available at the Field Schlick Ticket Office, St. Paul, and the Downtown Ticket Office, 188 Northwestern Bank Building, Minneapolis, on Monday of the week prior to the performance.

# THE MINNESOTAN

*The University Staff Magazine* - December, 1960



# THEY MADE US GREAT

SINCE 1851, THE PEOPLE of Minnesota, through their elected officials, first in the Territorial Assembly and then in the State Legislature, have given support to the University both as a "dream of the future" and as a "practical reality of the moment." It is their support which has sustained the University through the years — in both good times and in bad — and enabled it to take a place of importance among the world's great institutions of higher learning. Without this investment in the present and in the future, the University could exist only in mediocrity.

As a place where new truths are discovered, the University knows no boundaries; the work of its scholars and scientists concerns men everywhere. But Minnesotans are the direct beneficiaries of the University's teaching, research, and service programs, and, thus, it can truly be said that the University is, as its name says, *of Minnesota*.

The University has been fostered by the people of this state whose generosity testifies to their great respect for knowledge and wisdom and their desire to provide high quality educational opportunity for all their sons and daughters. The honors and distinction which come to the University come also to the citizens of this state, for they and their University are one and the same. The greatness of the University is, indeed, the greatness of the people of Minnesota.

So that all staff members may know and understand the University's needs and legislative requests for the biennium 1961-63, the entire statement of these needs is printed in the December issue of THE MINNESOTAN. Others who will receive a special publication of this statement include the members of the State Legislature, parents of University students, and winners of the University's Outstanding Achievement awards and Alumni Service awards. University of Minnesota alumni will also receive this statement of needs in a special edition of their magazine, the ALUMNI NEWS.

**ON THE COVER . . .**

is the dome of the State Capitol. Here, in the Capitol, the 1961 Legislature will convene in January.

Vol. XIV

THE MINNESOTAN

No. 3

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

William L. Nunn, Director

Beverly Sinniger ..... Editor

Jo Anne Ray ..... Associate Editor

Advisory Committee: Members of the University Public Information Council.

*The Minnesotan* will be published monthly October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2.00 a year, 25 cents a copy.

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

Second-class postage paid at Minneapolis, Minnesota.

# THE NEEDS

of the

University of Minnesota

THE LEGISLATIVE REQUEST

1961-1962

1962-1963

1960

Higher Education  
In Minnesota:  
Where The Load Is  
Being Carried

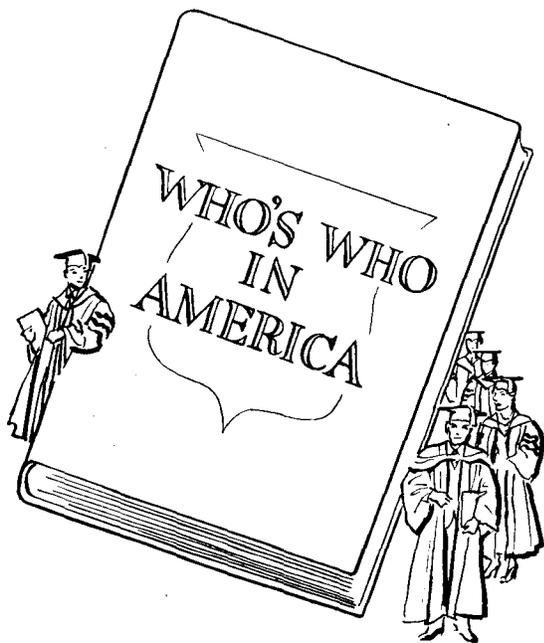


**I**N THE FALL OF 1960, the University enrollment was 28,277; the private colleges enrolled 17,223, the state colleges 10,943, and the junior colleges 3,416.

It's easy to see that the heaviest part of the total load in higher education in Minnesota is concentrated at the University. Moreover, these University students are not all undergraduates in liberal arts fields. Many are in the professional colleges such as law, business, agriculture, pharmacy, and engineering. Many others are at the most advanced and complex level of instruction — medicine, veterinary medicine, and the graduate school.

*Indeed, the State relies almost 100% on the University in providing the expensive, advanced instruction in the professions and graduate training.*

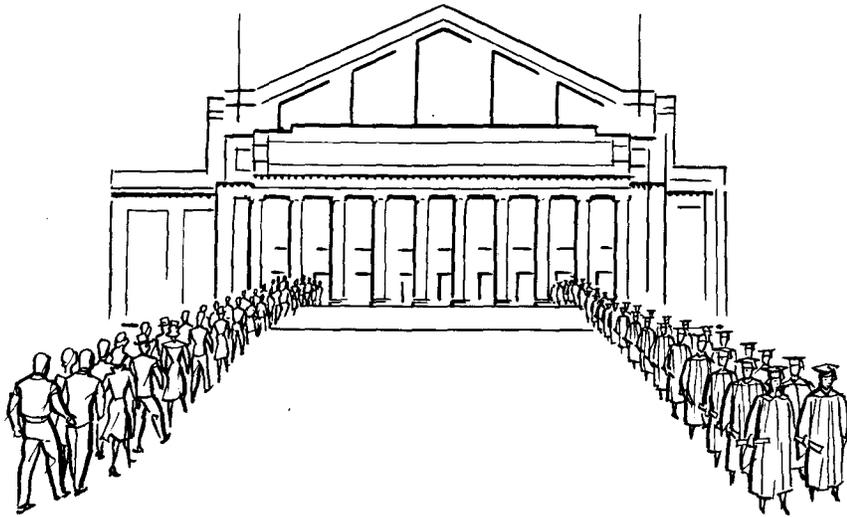
## A GREAT STATE: A GREAT UNIVERSITY



The University of Minnesota ranks among the great and distinguished universities of this country. It is outstanding in teaching, research, and public service. A measure of its distinction is reflected in the fact that 411 of its staff members are listed in *Who's Who in America*. Included are some of America's most distinguished heart and stomach surgeons, plant pathologists, geneticists, cosmic ray physicists, political scientists, economists—all respected by their students and by fellow scientists and scholars the whole world over.

## OPPORTUNITY AND SERVICE

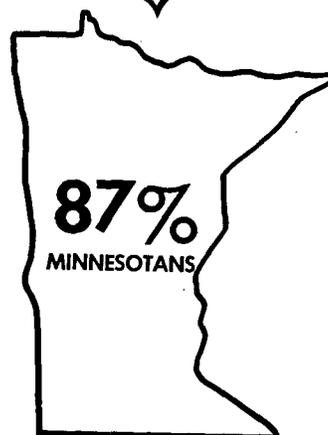
The University represents opportunity for young people of Minnesota who wish a liberal education, a professional career, or graduate training. It is to the University that Minnesota communities, industries, and professions turn for their lawyers, accountants, engineers, pharmacists, veterinarians, college professors and teachers, librarians, physicists, doctors, social workers, architects, home economists, scientists, journalists, statisticians, to name some.



THIS MANY OF THE UNDERGRADUATES AT THE UNIVERSITY COME FROM MINNESOTA HOMES.



THIS MANY OF ALL STUDENTS AT THE UNIVERSITY, INCLUDING GRADUATE STUDENTS AND PROFESSIONAL STUDENTS, COME FROM MINNESOTA HOMES.



# The University Is State-Wide

## TEACHING

THE UNIVERSITY'S *TEACHING* PROGRAMS go far beyond the campuses of the University and help people through

*night classes • special seminars • professional institutes • television instruction • agricultural extension agents • the radio school of the air • correspondence courses • short courses*

Do you want to know the number of people who signed up for some kind of University instruction last year?

**87,596**

## RESEARCH

THE UNIVERSITY'S *RESEARCH* PROGRAMS go far beyond the campuses to affect people all over the State through research in

*brucellosis • dairy processes • blue cheese • electronics • wild life conservation • cosmic rays • plant pathology • child development • open-heart surgery • taconite*

AND WE'VE NAMED ONLY A FEW!

## SERVICE

THE UNIVERSITY'S *SERVICE* PROGRAMS go far beyond the campuses to help people in Minnesota through

*cancer detection • pollen counts • educational film rental • state-wide high school testing program • identification of plants and insects • community health and recreational advice • animal disease diagnosis • school surveys • concerts and lectures • soil testing*

AND THERE ARE MANY MORE!

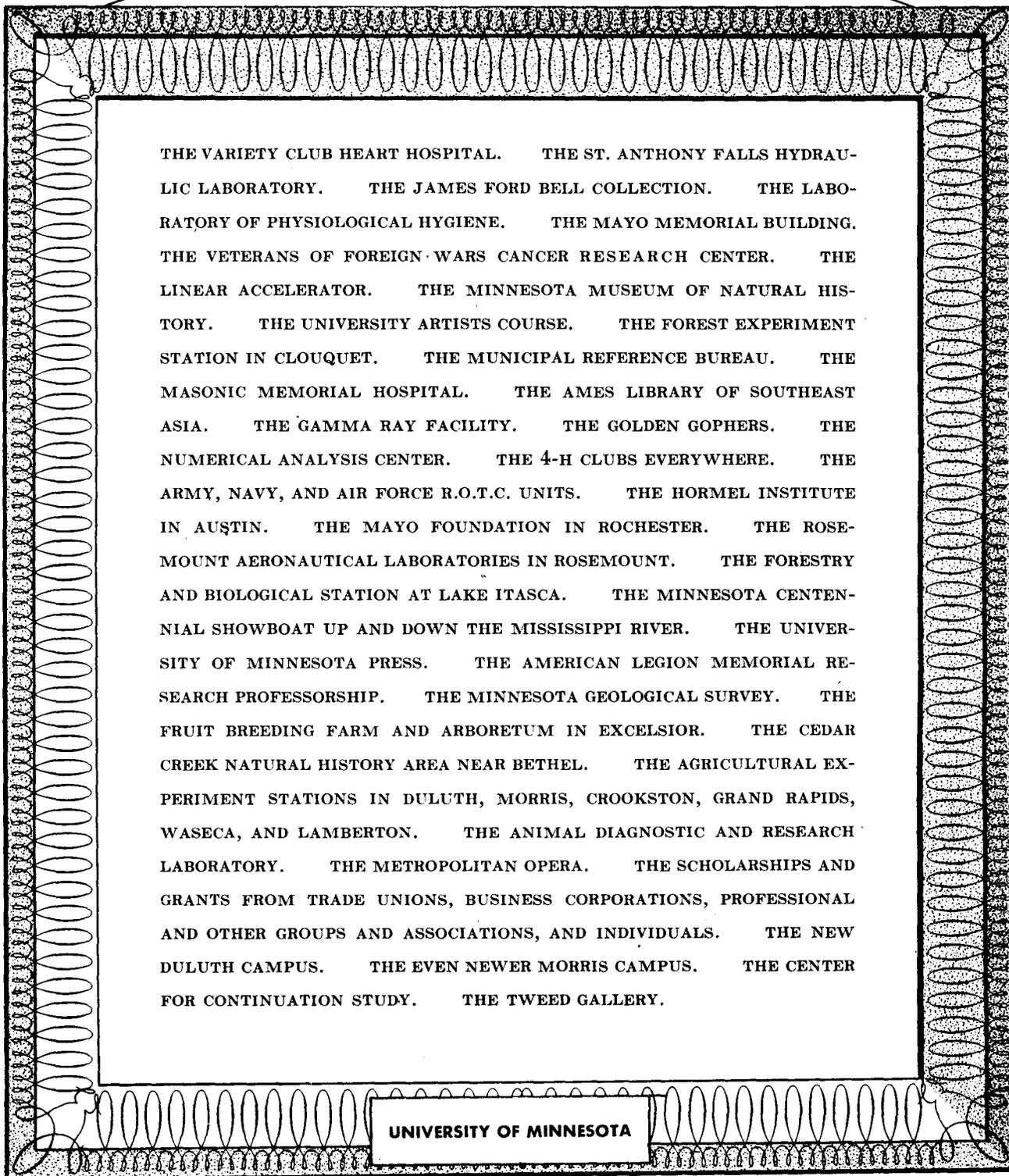
## AND MINNESOTANS KNOW

MINNESOTANS HAVE TAKEN justifiable pride in the accomplishments of their sons and daughters who have studied at the University; they have appropriately shared the fame that has come to the State from the University's laboratories, playing fields, classrooms, and research facilities; they have asked — and they have received — assistance from the University in many ways and on many occasions.

And the University has an equal pride in Minnesota and in Minnesotans. It has been the beneficiary of staunch citizens who, in countless ways, have contributed their time and their resources as measures of their faith in its objectives and needs. The partnerships that have developed with Minnesotans and their associations and organizations are deep and enduring ones from which each partner draws strength and satisfaction. And all of these mutual understandings and arrangements provide the natural soil in which a great University can develop and flourish.



A listing (in the picture frame below) of some of the more publicized units and activities of the University will give meaning to the foregoing and will rekindle the memories of widely differing groups of citizens who are united in their friendly relationships to the University.



# Now, Let's Look Ahead

The University's programs in teaching, in research, and in service have been built over the years. This process cannot stop now, because:

*As the State grows, the University MUST grow; as the University grows, the State WILL grow.*

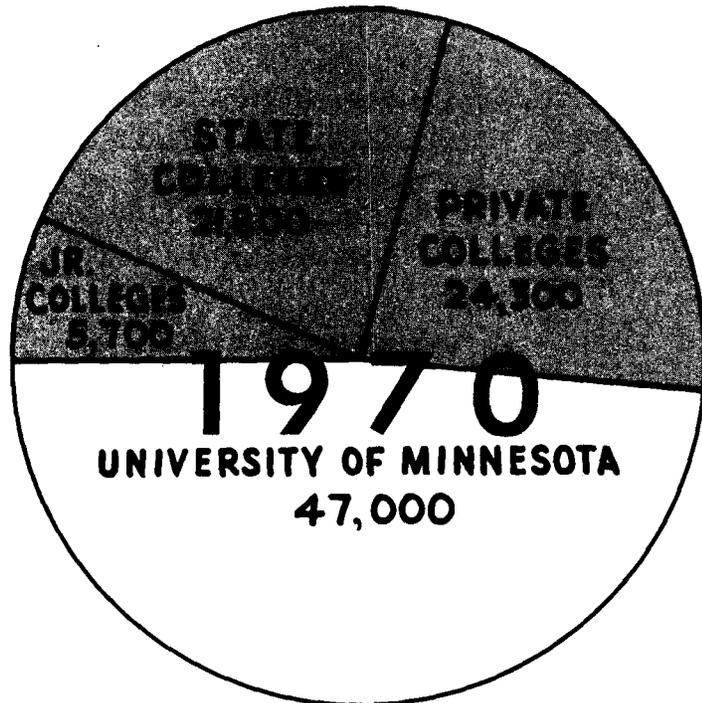
## What about 1970?

Estimates of student enrollment in Minnesota colleges and the University in 1970 are:

- *the junior colleges, 5,700*
- *the private colleges, 24,300*
- *the state colleges, 21,800*
- *the University of Minnesota, 47,000*

The load in the past, at the present, and in the future, is heaviest at the University of Minnesota.

To meet the load calls for business-like planning and budgeting.



# GETTING AND HOLDING A FACULTY

A University can be no better than its faculty. A basic premise in determining the University's needs is that faculty salaries must be maintained *and improved*. Minnesota salaries can be compared with averages at other com-

parable universities. At these institutions fringe benefits are more and more becoming a part of the total salary picture, and when these benefits are taken into account, the University of Minnesota is in an even more disadvantageous position.

## Average Cash Salaries, Plus Fringe Benefits

1960-61

Minnesota Compared to Ten Other Leading Universities\*

Professors - - - - - 4 institutions exceed Minnesota  
 Associate Professors - 7 institutions exceed Minnesota  
 Assistant Professors - - 7 institutions exceed Minnesota  
 Instructors -- - - - 9 institutions exceed Minnesota

\*Wisconsin, Purdue, Indiana, Illinois, Ohio State, Iowa, Northwestern, Michigan, Michigan State, California

A SURVEY OF COMPARABLE NEIGHBORING STATE UNIVERSITIES REVEALS THAT THEY ARE ASKING THEIR LEGISLATURES FOR BIENNIAL INCREASES AVERAGING 20.4% OF THEIR ACADEMIC STAFF PAYROLL FOR SALARY ADJUSTMENTS.



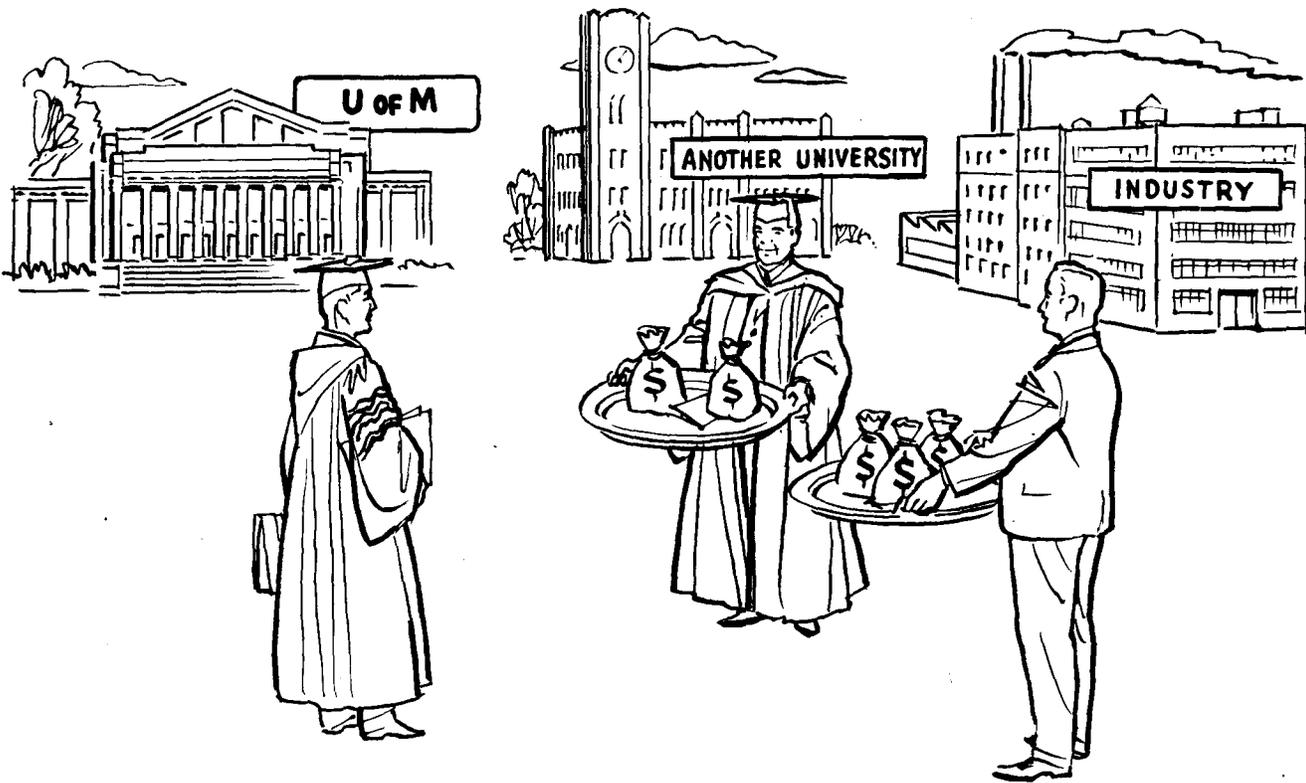
MINNESOTA IS ASKING FOR AN 8% INCREASE EACH YEAR OF THE BIENNIUM, OF WHICH IT IS PROPOSED TO USE 3% EACH YEAR FOR FRINGE BENEFITS.



It is not only in comparison with other universities that the University of Minnesota is at a disadvantage. Compared to beginning salaries and fringe benefits in local industry and business, the University also faces an increasingly serious problem in recruiting and holding faculty members.

*A University of Minnesota instructor receives an average of \$639 a month, with 3% fringe benefits. A new Ph.D. graduate can start in a local industry at \$844 a month, with 20% fringe benefits.*

**Such adverse situations must be corrected, and the proposed University budget seeks to improve cash salaries and fringe benefits.**



# THREE BUDGETARY PRINCIPLES

To do its job, the University has to plan ahead, and just as in business, planning requires the application of definite *budgetary principles*. Three such principles are introduced into the legislative request for 1961-63. These will serve also in future years. They are:

## The First Principle

### STUDENT-FACULTY RATIO

As a teaching institution, the University offers instruction at many levels:

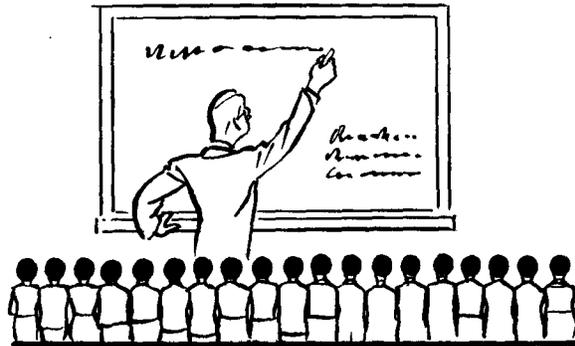
- *It instructs students at the undergraduate level, with emphasis on general, pre-professional education.*
- *It trains in technical-professional fields, where instruction is more complex and the demands upon the teachers are greater.*
- *It offers education in medicine and veterinary medicine, and at the level of graduate and research instruction — the most complex and specialized of all.*

But *Teachers* do it all. How many teachers do we need? First, we estimate the numbers of students and what they will study, and then we apply student-faculty ratios that reflect the several levels and the complexity of teaching that the University must do.

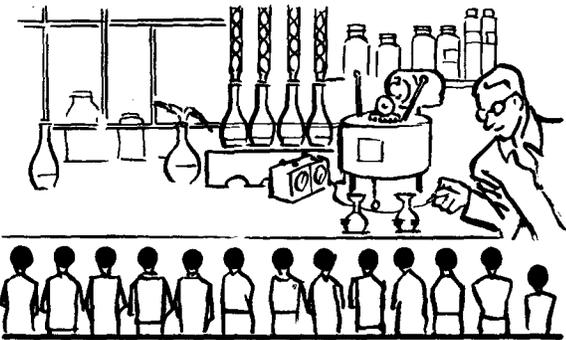
## Undergraduate and Pre-professional 19 to 1

At the general undergraduate and pre-professional levels, faculty needs are based on the student-faculty ratio already accepted by the Legislature for the state colleges. This is a 19 to 1 ratio: for every 19 students, one faculty member is needed. This ratio is applied to the following colleges:

- College of Science, Literature, and the Arts
- College of Education
- General College
- University College
- Morris Campus
- Duluth Campus



## Technical and Professional 12.7 to 1



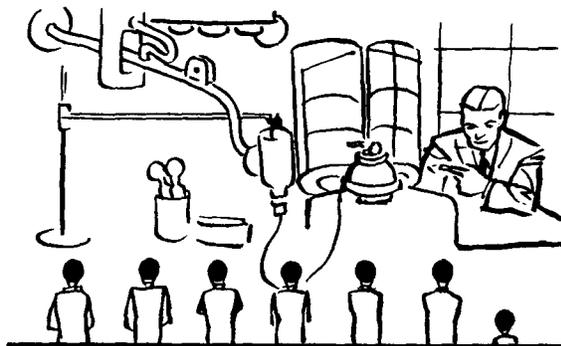
For the technical and professional schools, the ratio is 12.7 to 1, reflecting the levels and costs of different courses that are required. The following colleges are involved:

- Institute of Technology
- School of Law
- College of Agriculture, Forestry, and Home Economics
- School of Business Administration
- College of Pharmacy
- School of Dentistry
- College of Medical Sciences (except M.D.)

## Medicine, Veterinary Medicine, and Graduate School 6.3 to 1

For medicine, veterinary medicine, and the graduate school, the ratio is 6.3 to 1 — again, a reflection of the highly specialized needs that must be met in these units of the University. The following are included:

- Medicine in the College of Medical Sciences
- College of Veterinary Medicine
- Graduate School



**Additional academic staff  
needed to catch up**

**FIRST  
WE  
NEED  
141  
TEACHERS**

No college allotments for additional academic staff have been made since 1957, yet between 1957 and 1960 the University has added approximately 2,200 students — equal to twice the student body of many liberal arts colleges. Applying the previously described student-faculty ratios — and thus taking into account the three levels of instruction — the University in the fall of 1960 was understaffed by 424 faculty members. Recognizing that the “catch up” cannot be achieved all at once, it is proposed to spread it over a six-year period. One-third of the number is requested for 1961-63 — or slightly more than one faculty member for each of the 125 teaching departments.

**Additional academic staff  
needed to cover additional  
enrollment, 1961-1963**

**THEN  
WE  
NEED  
158  
MORE**

Enrollments will increase during the 1961-63 biennium by an estimated 1,650 for the two years. Again, if the student-faculty ratios are applied to this increase, calculated by the three levels of University instruction, 158 additional new positions will be needed to handle the enrollment increases of the biennium.

It's clear that the use of the student-faculty formula provides a systematic and sound manner for calculating needs for faculty, and only by using such a principle can sound planning be undertaken to meet the student loads the University will have to carry.

# The Second Principle

## PER STUDENT COST

### Supplies, Expenses, and Equipment

To serve additional students, additional supplies, expenses, and equipment will be required. Actual expenditure for these items in 1959-60, divided by the number of students, gives a unit cost of \$77.64. This figure of \$77.64, then, is introduced in applying the principle that enrollment-related supply costs should be met by requests that reflect the changing size of the student body. This is the second principle, and it, too, is important in business-like planning. Related to this second principle is the need for adjusting all expense items to reflect the ups and downs of the price level. (See the itemized Summary of Increases, page 15.)

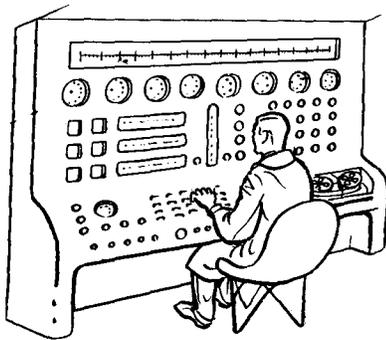


# The Third Principle

## DEPRECIATION BASIS

### Replacement of Equipment

The University budget has not in the past been realistic with respect to replacement of inventory. A practical and continuing equipment replacement is necessary to insure that modern and essential equipment is available for teaching and research, and to offset factors of obsolescence. A depreciation rate of 10% on the equipment inventory is introduced as an over-all average rate. (See the itemized Summary of Increases, page 15.)



And these three principles are keys to the University's legislative request for 1961-62 and 1962-63; they are fundamental to this statement of Needs.

# Now, Let's Look at The

## TOTAL

### Maintenance Request

	1961-62	1962-63
For maintenance the University will need .....	\$44,241,273	\$47,467,406
But income such as student tuition, fees collected by clinics, and sales at experiment stations, will be .....	12,332,922	12,619,393
	-----	-----
Thus, the Legislative request for maintenance will be .....	\$31,908,351	\$34,848,013

---

**Are these sums adequate?**

**Two Questions:**

**What additions will they provide?**

**The answers are in the table that follows.**

For this academic year, 1960-61, the Legislature appropriated for maintenance \$25,368,689, which means that the University is requesting, for 1961-62, \$6,539,662 more than it had this year and, for 1962-63, \$2,939,662 more than it requests for 1961-62. What will be done with these additional sums? This table, from one of the 138 pages of the "Gray Book", which is one of the principal reports of the University, prepared for the use by committees of the Legislature, provides the answer in summary form.

## SUMMARY OF INCREASES

	INCREASE EACH YEAR OVER PREVIOUS YEAR			
	1961-62		1962-63	
	AMOUNT	%	AMOUNT	%
<b>A. Academic Staff</b>				
1. Salary Improvement .....	\$1,468,406	8.0	\$1,758,614	8.0
2. Additional Staff				
Enrollment Related .....	2,102,958	11.5	630,890	2.9
Programatic Changes .....	56,240	.3		
<b>B. Civil Service Salaries</b>				
1. Salary Adjustments				
Merit Increases .....	351,210	3.7	385,114	3.6
Proposed New State Pay Plan .....	517,499	5.4		
2. Additional Staff				
New Buildings .....	42,940	.4	65,844	.6
Enrollment Increase .....	304,606	3.2	184,728	1.7
<b>C. Mechanics Payroll</b>				
1. Salary Adjustment .....	129,924	8.6	22,260	1.4
<b>D. Other Than Salaries</b>				
1. Equipment (Depreciation basis) .....	801,192	10.0		
2. Price Increase — 5% .....	257,371	3.2		
3. Supplies, Expense and Equipment for Educational units (Unit price method for new students) .....	184,395	2.3	46,584	.4
4. Supplies, Expense and Equipment (Administration and General University, but exclusive of Admissions and Records, Dean of Students and Library) .....	31,751	.4		
5. Physical Plant — operating costs of new buildings .....	158,033	2.0	228,791	2.3
6. OASI-SERA Increases .....	136,453	1.7	133,512	1.4
7. Unemployment Compensation Claims .....	12,345	.2	18,952	.2
8. Computer (25% of total Cost) .....	250,000	3.1	—250,000	—2.5
9. Mines Tax Commission Increase .....	4,173	.1	844	
Total Increases .....	\$6,809,496		\$3,226,133	
<b>E. Less Increase in Estimated Income</b>				
	269,834		286,471	
Net Increase in Request .....	\$6,539,662	25.8	\$2,939,662	9.2

# But Separate—and Additional—Appropriations Are Requested

For:

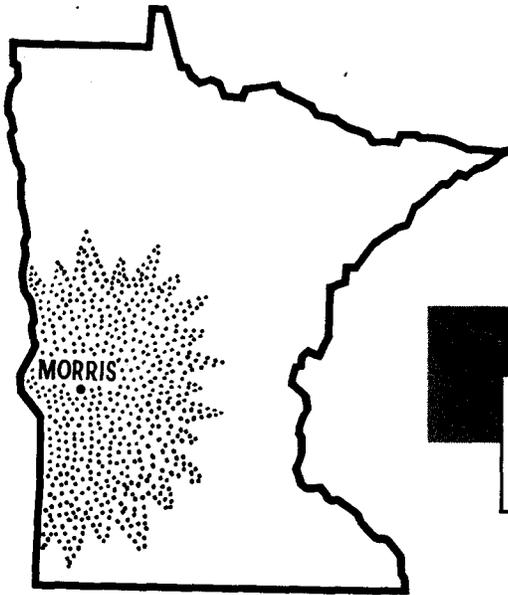
- UNIVERSITY HOSPITALS
- UNIVERSITY OF MINNESOTA, MORRIS
- SPECIAL PROJECTS
- LAND AND BUILDINGS

Again, for each of these, with the exception of Morris, the tables from the "Gray Book" will be used.

## UNIVERSITY HOSPITALS

For the support of the University of Minnesota Hospitals, the Psychopathic Hospital, the Child Psychiatric Hospital, the Rehabilitation Center, and the Multiple Sclerosis Clinic, the Legislature appropriated \$4,739,214 for 1960-61. Requests for 1961-62 and 1962-63 (and for a deficiency request of \$100,000 to cover 1960-61) are as follows (from page 61 of the "Gray Book"):

	Appropriation	Request	
	1960-61	1961-62	1962-63
<i>University of Minnesota Hospitals</i>			
From the State .....	\$1,624,622	\$2,142,806	\$2,300,812
From the County .....	1,724,622	2,142,806	2,300,812
Deficiency Request 1960-61 .....	100,000		
Total .....	<u>\$3,449,244</u>	<u>\$4,285,612</u>	<u>\$4,601,624</u>
<i>Psychopathic Hospital</i> .....	614,137	718,473	761,990
<i>Child Psychiatric Hospital</i> .....	241,984	273,778	283,611
<i>Rehabilitation Center</i> .....	399,706	496,544	515,493
<i>Multiple Sclerosis Clinic</i> .....	34,143	52,888	57,865
Total .....	<u>\$4,739,214</u>	<u>\$5,827,295</u>	<u>\$6,220,583</u>
<i>Summary by Source</i>			
From the State .....	\$3,014,592	\$3,684,489	\$3,919,771
From the County .....	1,724,622	2,142,806	2,300,812
Total .....	<u>\$4,739,214</u>	<u>\$5,827,295</u>	<u>\$6,220,583</u>



## UNIVERSITY OF MINNESOTA, MORRIS

1961-62 \$223,130

1962-63 \$355,991

The biennial needs of the University of Minnesota, Morris, are presented separately rather than in the general maintenance request.

Morris began its collegiate program in the fall of 1960, with 238 freshmen enrolled. This was possible, in part, because of the enthusiasm and generosity of the citizens of that region. (They made gifts totaling over \$50,000.) The existing physical plant (The University's West Central School of Agriculture with a cost of reproduction approximately \$5,500,000) at Morris is being utilized for instruction and housing. Continuation of the Morris collegiate program will require during the biennium the opening of a sophomore class in the fall of 1961 and a junior class in 1962. The Morris budget for 1960-61 was \$124,013. For 1961-62 the request is for \$223,130, and for 1962-63, for \$355,991. Experience of the first year shows that a need for higher education in west central Minnesota is being met and that an existing plant is being utilized. A carefully selected, able student body drawn from 21 Minnesota counties is being served.

The continuation and development of the University of Minnesota, Morris, is recommended in the report of the Liaison Committee on Higher Education in Minnesota.

## SPECIAL PROJECTS

The University conducts various special projects for the general benefit of the State and its citizens at the specific request of the Legislature. The following tabulation (page 60 of the "Gray Book") shows (1) the Legislative appropriations for 1960-61 to cover these special projects, and the requests (2) for 1961-62, and (3) for 1962-63:

<i>Fund Name</i>	(1) Appropriation 1960-61	(2) Legislative Request 1961-62	(3) Legislative Request 1962-63
Agricultural Extension Service .....	\$ 670,554	\$ 785,918	\$ 852,529
Experiments in the Benefication of Manganiferous and Low Grade Ores and for Experiments in the Direct Process Benefication of Low Grade Ores — General Experiments .....	50,000	64,080	66,554
General Agricultural Research .....	470,000	656,771	682,875
Medical and Cancer Research .....	83,000	100,000	100,000
Livestock Sanitary Board Laboratory .....	68,000	110,000	114,315
Institute of Child Welfare .....	36,000	43,108	46,080
General Research .....	104,600	125,000	125,000
Minnesota Institute of Research .....	34,000	52,382	54,017
Agricultural Research — Rosemount .....	105,000	138,311	142,773
Hybrid Corn Maturity Tests (*) .....	(12,500)	(18,980)	(19,532)
Tuition and Transportation Aid for Students of Agricultural Schools .....	65,000	52,000	50,000
Business and Economic Research .....	35,000	52,699	55,193
Training Project in Delinquency Control .....	9,500	17,762	18,583
Hardwood Timber Species Research Fund .....	6,000	7,430	7,803
Psychiatric Research Fund .....	40,000	63,191	81,125
Training of Laboratory Aides .....	11,000	13,280	13,943
Special Education Training and Research Program .....	40,000	51,178	53,987
Legume Seed Research Fund .....	37,000	47,824	49,652
Industrial Relations Education Program .....	40,000	60,467	62,743
Experiments in the Benefication of Manganiferous and Low Grade Ores and for Experiments in the Direct Process Benefication of Low Grade Ores — Experiments with Emphasis on Ores of the Cuyuna Range .....	100,000	108,148	111,237
Maintenance of the Southwest Agricultural Experiment Station .....	40,000	56,112	61,239
Special Assessments — Duluth Branch .....		8,868	
Special Assessments — Minneapolis .....		1,583	
	\$2,044,654	\$2,616,112	\$2,749,648

(\*) Not included in Totals as this is a transfer of an appropriation from the Minnesota Department of Agriculture.

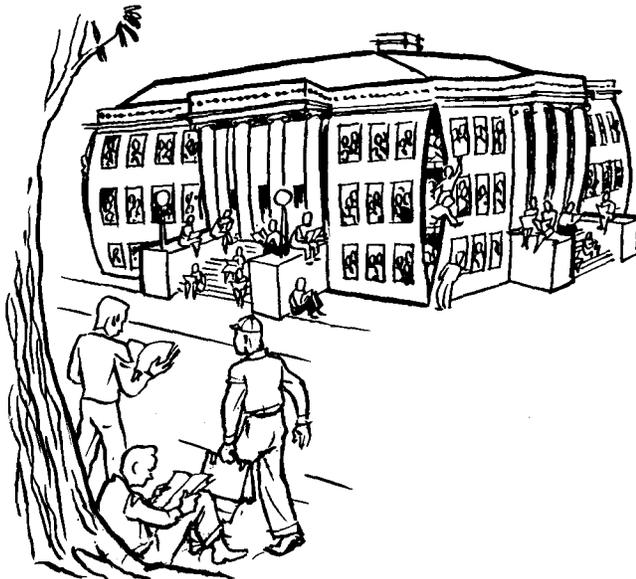
## LAND AND BUILDINGS

To repeat: the present, 1960-61, enrollment of the University is 28,277. To repeat again: in 1970, which is only a decade away, the University's enrollment will be 47,000. Obviously, this expansion of the student body requires more than just an expansion in the number of teachers and in the amount of supplies and equipment. Already the University campuses, like the State and the Nation, are "bursting at the seams"; new buildings in which to do the job and new land on which to put them must be provided.

But Minnesota, in its cities and in its school

districts, has faced this problem — and faced it squarely — in the expansion of the number and of the size of elementary and high schools. There must be parallel expansion at the University level.

The University has worked carefully and prudently with the Legislative Interim Commission on Buildings in estimating its land and building needs for each of the next several sessions of the Legislature. The requests for the next biennium for buildings and for land are itemized as they appear in the last pages of the "Gray Book".



# SUMMARY BY CAMPUS

## I. MINNEAPOLIS CAMPUS

### NEW BUILDINGS

Science Classroom Building, East Campus .....	\$ 1,260,000
Library facilities and study room, West Campus .....	3,493,000
General purpose classroom facilities and SLA staff offices, West Campus .....	2,005,000
Physics Addition, North wing .....	1,036,000
Electrical Engineering addition, 4th floor .....	330,000
Addition to Minnesota Museum of Natural History (to match gifts) .....	280,000

### REMODELING AND REHABILITATION

Rehabilitation of Chemistry, phase four .....	200,000
Rehabilitation and remodeling of the library, phase two .....	275,500
Rehabilitation of University Hospitals .....	275,000
Rehabilitation and remodeling of Jackson Hall, phase three .....	300,000
Replacement of boiler and auxiliaries — heating plant .....	1,030,000
Rehabilitation of Main Engineering .....	150,000
Rehabilitation of Electrical Engineering .....	70,000
Rehabilitation and remodeling of Nicholson Hall .....	276,000
Rehabilitation in Burton Hall (completion) and installation of elevator .....	85,000
Rehabilitation and remodeling of Wulling Hall — additional .....	100,000
Installation of additional elevator, Mayo Building .....	117,000
Installation of an elevator, Continuation Study Center .....	75,000
Rehabilitation and remodeling and equipment for South Section, Experimental Engineering .....	260,000

### LAND NEEDS

Land acquisition, 2.2 acres along south side of 4th Street, S.E., between 17th and 19th Avenues .....	494,300
Land acquisition, 2.5 acres on West Campus .....	275,000
Land for Dental and Medical School Expansion (in block opposite Millard Hall) .....	150,000

### FOOD SERVICE NEEDS

Food Service — Student Center Building on West Campus .....	500,000
---	---------

**SUB-TOTAL**

**\$13,036,800**

## II. ST. PAUL CAMPUS

### NEW BUILDINGS

Agricultural Economics and Classroom Building .....	\$ 896,000
Addition to Snyder Hall for Agricultural Biochemistry .....	862,000
Completion of Forest Products Laboratory .....	250,000
Additional two floors to Veterinary Medicine Building .....	616,000
Completion of Veterinary Diagnostic and Research Laboratory .....	325,000
Completion of basement in Veterinary Basic Science Building .....	75,000

### REHABILITATION, REMODELING, UTILITIES, ETC.

Utilities, storm sewers, sanitary sewers, water mains .....	168,000
New heating tunnel, including piping .....	276,000
Elevators (Pathology & Agronomy) .....	56,000
Heating Plant (new boiler and auxiliaries) .....	490,000
Rehabilitation and remodeling Home Economics Building .....	141,000
Rehabilitation and remodeling Green Hall .....	90,000

**SUB-TOTAL** \$ 4,245,000

## III. DULUTH CAMPUS

### NEW BUILDINGS

Humanities Building Addition .....	\$ 505,000
Physical Plant Shops & Garage .....	448,000
Home Economics — Classroom Building .....	896,000

### OTHER NEEDS AND UTILITIES

Heating Plant coal storage & handling facilities .....	200,000
Study Hall and reading room facilities .....	179,000
Elevators — Humanities & Tweed Gallery .....	56,000
Move and establish Darling Observatory & Planetarium on Rock Hill .....	90,000
Campus drainage .....	50,000
General landscaping and campus improvement .....	53,000
Development of arboretum and Rock Hill .....	20,000

### HOUSING NEEDS

For 96 single students (25% of Cost) .....	121,000
--	---------

### LAND NEEDS

For consolidation of campus .....	45,000
-----------------------------------	--------

**SUB-TOTAL** \$ 2,663,000

## IV. MORRIS CAMPUS

Rehabilitation of street lighting system .....	\$ 22,500
Rehabilitation of Senior Hall .....	83,000
Rehabilitation of Gymnasium .....	22,500
Pavement, curbs, gutters on main roads .....	67,000
Rehabilitation of Dining Hall .....	83,000
Remodeling & rehabilitation of Girls' Dormitory .....	62,000
Science Building — 1st unit .....	600,000

**SUB-TOTAL** \$ 940,000

## V. SCHOOLS OF AGRICULTURE AND EXPERIMENTAL STATIONS

### A. CROOKSTON CAMPUS

Farm machinery and motor vehicle maintenance building .....	\$	20,000
Dairy Barn rehabilitation and high moisture feed storage (silo) and Dairy Barn addition .....		30,000
Tunnel draining and pipe insulation .....		15,000
Street lighting system .....		15,000
Surfacing of roads and repair of curbs .....		30,000
Land acquisition for feed crops .....		35,000
Rehabilitation of Stephens Hall .....		225,000
Addition to Pure Seed Building .....		5,000
Addition to Beef Feeding Shed .....		7,000
<b>SUB-TOTAL</b>	<b>\$</b>	<b>382,000</b>

### B. WASECA CAMPUS

Hog House addition .....	\$	10,000
Research Silo and equipment .....		10,000
Remodel Classroom — Science Laboratory .....		5,000
<b>SUB-TOTAL</b>	<b>\$</b>	<b>25,000</b>

### C. GRAND RAPIDS STATION

#### NEW BUILDINGS

Auditorium and gymnasium building .....	\$	200,000
---	----	---------

#### REMODELING AND REHABILITATION

Complete road surfacing project .....	\$	25,000
Remodel and addition to milkhouse .....		7,500
<b>SUB-TOTAL</b>	<b>\$</b>	<b>232,500</b>

### D. ROSEMOUNT

Single family 2-bedroom cottage .....	\$	13,440
Turkey brooder and laying house .....		22,400
Beef Cattle Barn .....		14,400
Foundation Seed Storage & Cleaning Building .....		11,200
Sheep Barn — pole-type construction .....		11,200
Feed Storage facilities on Beef Farm .....		8,500
<b>SUB-TOTAL</b>	<b>\$</b>	<b>81,140</b>

### E. NORTHEAST EXPERIMENT STATION

Garage at Superintendent's residence .....	\$	1,200
Machine shed 156' x 42' (including scale) .....		13,000
Hay and straw storage research building .....		3,000
<b>SUB-TOTAL</b>	<b>\$</b>	<b>17,200</b>

## F. CLOQUET STATION

### NEW BUILDINGS

Central student washroom shower, toilet, laundry building .....	\$ 20,000
New classroom building .....	30,000

### REMODELING AND REHABILITATION

Remodel Office and Laboratory Building .....	20,000
Surface roads and rebuild front entrance .....	6,000

**SUB-TOTAL** \$ 76,000

## G. ITASCA STATION

### NEW BUILDINGS

Laboratory for Botany .....	\$ 7,000
Bathhouse and laundry facilities for family units and camp ground occupants .....	8,000

### REMODELING AND REHABILITATION

Oil and surface roads .....	2,000
-----------------------------	-------

**SUB-TOTAL** \$ 17,000

## H. EXCELSIOR STATION

Utility and operations building .....	\$ 8,000
Machine storage and operations building .....	8,000

**SUB-TOTAL** \$ 16,000

**GRAND TOTAL** \$21,731,640

## **This, Then, Is the Request**

of the University of Minnesota which is made to the people of the State through their elected representatives in the Legislature for the two years of the biennium 1961-63. These years will be important years in the history of the State, and of the University. Before the biennium begins, a new President of the University will be inaugurated. And, during the biennium, in the academic year 1961-62, the University will join all the other Land-Grant colleges and universities in the nation-wide observance of the Land-Grant Centennial, commemorating the 100 years of progress in American higher education since President Lincoln signed into law the Land-Grant Act, which provided for the establishment and support of institutions of higher learning of and for the people.

President Lincoln had a vision of greatness for America; the founders of the State and of the University had a vision of greatness, too. The promise is now, and is continuously, being fulfilled. But the continuance of this greatness rests squarely with the people of the State, and with their elected representatives.

**As the State grows, the University must grow;  
As the University grows, the State will grow.**



This Statement of Needs of the University of Minnesota is being sent to alumni, parents, staff members, community and state leaders, and friends of the University. In the interest of economy, duplicates have not been eliminated, and it may be that you will receive more than one copy. If you do, will you please give the extra copy to someone who should know about the University and its needs?

Permission is given to reproduce any portions of this publication.

Additional copies may be obtained from the Department of University Relations, 213 Administration Building, Minneapolis 14, Minnesota.



For the convenience of all University staff members who would like to send copies of the Needs statement to their friends, additional copies are available from the Department of University Relations, 213 Administration Building, extension — 6847. These copies do not have **THE MINNESOTAN** cover.

# University of Minnesota Calendar of Events

## DECEMBER, 1960

### MINNEAPOLIS SYMPHONY CONCERTS

#### Subscription Series

*Northrop Auditorium, 8:30 p.m.*

December 2—Samson Francois, pianist.

December 9—Christian Ferras, violinist.

December 16—"Missa Solemnis" by Beethoven. Soloists and the University of Minnesota Chorus.

December 30—All Orchestral Program with Colin Davis, guest conductor.

(Single tickets \$2.00 to \$4.50. Reservations may be made at 106 Northrop.)\*

#### Twilight Concert

*Northrop Auditorium, 4:30 p.m.*

December 11—"Nutcracker" by Tchaikovsky. Bob DeHaven, narrator, and the Women's Chorus of the Augsburg College Choir.

(General admission \$1.25. Sale of tickets opens at the Northrop Box Office at 3:30 p.m. on the day of the concert.)

### UNIVERSITY ARTISTS COURSE CONCERT

#### Masterpiece Series

*Northrop Auditorium, 8:30 p.m.*

December 1—Glenn Gould, pianist.

(Single tickets \$1.50, \$2.50, \$3.00, \$3.50. Reservations may be made at 105 Northrop.)\*

### COMMENCEMENT

*Northrop Auditorium, 8 p.m.*

December 15—"The Future Is Yours," address by Dr. C. A. Elvehjem, president, University of Wisconsin.

(Admission by guest card only.)

### UNIVERSITY THEATER PRODUCTION

#### Regular Production

*Scott Hall Auditorium*

December 1 and 2, 8 p.m.; December 3, 6:30 and 9:30 p.m.; and December 4, 3:30 p.m.—*Heartbreak House* by George Bernard Shaw.

(Single tickets \$1.50 on sale at the Scott Hall Box Office.)

### SIGNIFICANT UNIVERSITY BROADCASTS

#### KUOM, 770 on the dial

December 19-24—"Christmas Music Festival." Every major music program will feature familiar and little-known compositions written in the spirit of the Christmas season. The Festival opens at 11 a.m. December 19 with "Marienlieder" by Brahms and "Magnificat in D Major" by Bach. It concludes on December 24 at 2 p.m. with a performance of "The Messiah" by Handel.

January 2, 1961, 1-5 p.m.—"Holiday Request Program." Requests for classical favorites should be sent by postal card or letter to "Holiday Request Program," Station KUOM, Minneapolis 14. Please have them in the mail no later than December 20.

Friday, 4:10 p.m.—"Accent," a glimpse behind the scenes on the University Campus: personalities, events, ideas.

### UNIVERSITY TELECASTS

Seen on Channel 2, KTCA-TV

Monday, 9 p.m.—"World Affairs."

9:30 p.m.—"At Home With Music."

Tuesday, 9 p.m.—"Arts of Reading."

9:30 p.m.—"Statistically Speaking."

Wednesday, 9-10 p.m.—"Folio."

Thursday, 9 p.m.—"Arts of Reading."

9:30 p.m.—"Town and Country."

Friday, 9 p.m.—"Repertory Theater."

9:30 p.m.—"Faculty Abroad."

### MUSIC DEPARTMENT PROGRAM

*Northrop Auditorium, 4:30 p.m.*

December 4—University Symphony Orchestra Fall Concert.

### MUSEUM SUNDAY PROGRAMS

*Museum of Natural History  
Auditorium, 3 p.m.*

December 4—"Geology and Twin City Water Problems." Dr. George Schwartz, director, Minnesota Geological Survey.

December 11—"Australia's Great Barrier Reef," color sound film.

December 18—"Meet Paul Bunyan." Donald K. Lewis, Museum audio-visual adviser.

### UNIVERSITY GALLERY EXHIBITIONS

Through December 2—Rooms To Let: photographs and text by Frank Agar, Jr.

Through December 2—Gorky Drawings.

Through December 9—Third Annual Collectors Exhibition.

December 8-January 13—Kerlan Collection.

### DECEMBER UNIVERSITY OF MINNESOTA PRESS PUBLICATION

*Rodin's "Gates of Hell" by Albert E. Elsen. \$7.50.*

### ATHLETIC DEPARTMENT EVENTS

#### Home Basketball Games

*Williams Arena, 8 p.m.*

December 1—Bradley University.

December 10—University of Maryland.

December 17—St. Mary's College of California.

December 26—Alumni.

(Single game reserved tickets \$2.00. Mail order sales close one week prior to each game. General admission tickets at \$1.25 for adults and \$1.00 for individuals under 16 on sale at gate only.)\*

#### Home Hockey Games

*Williams Arena, 8:15 p.m.*

December 16—United States Nationals.

December 30—United States Nationals

(Single game reserved tickets \$1.75. General admission tickets at \$1.00 for adults and \$.75 for individuals under 16 on sale at gate only.)\*

(Over-the-counter ticket sales for both hockey and basketball games begin the Monday before each game at 108 Cooke Hall.)

#### Swimming

*Cooke Hall, 11 a.m. and 1:30 p.m.*

December 3—Minnesota Time Trials.

Unless otherwise noted, events are open to the public without charge.

\*Tickets for these events are available at the Field Schlick Ticket Office, St. Paul, and the Downtown Ticket Office, 188 Northwestern Bank Building, Minneapolis, on Monday of the week prior to the performance.

# THE MINNESOTAN

*The University Staff Magazine* - January, 1961



# They Made Us Great



Mrs. Alice Tweed Tuohy

**G**EORGE P. TWEED was a man who symbolized the American tradition of greatness. An individualist who achieved great success in the world of industry and finance, he was moved also by humanitarian instincts and throughout his life he was influential in advancing the social, economic, and cultural well-being of an entire region.

Thus, it was particularly appropriate that to perpetuate the memory of George P. Tweed, his widow, Mrs. Alice Tweed Tuohy, continued the tradition of greatness by giving to the University the valuable paintings collected by her and her late husband. Included with the gift was Mrs. Tuohy's Duluth home which originally housed the art collection.

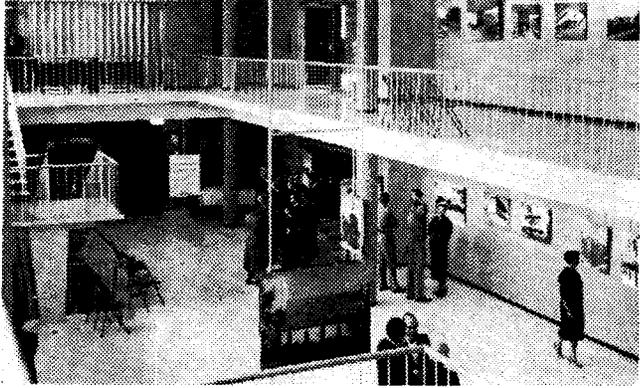
In the fall of 1958, the Tweed Gallery opened on the Duluth Campus. The new permanent home of the George P. Tweed Memorial Art Collection; the Gallery was constructed with contributions from Mrs. Tuohy and her daughter, Mrs. Bernice Tweed Brickson of Duluth.

Mrs. Tuohy's desire that the art collection be a "living" memorial and that its maximum value be realized was demonstrated by the generous provisions accompanying the gift. Although it was provided that the permanent home of the Collection would be in Duluth, the University was given permission to arrange traveling exhibitions of selected pictures and to replace or add to the Collection. It was also the wish of Mrs. Tuohy that the Collection should have maximum usefulness in a teaching and instructional program both for University students and for citizens throughout the state.

The Tweed Memorial Collection has, indeed, been a "living" memorial. It has been the nucleus for an ever-expanding program of art education and appreciation in Minnesota. In presenting the paintings to the University, Mrs. Tuohy gave to the citizens of this state an invaluable source of inspiration and understanding.

In recognition of her many contributions to the University, the Regents on October 20 presented Mrs. Tuohy

Right: The former Tweed Home in Duluth. Below: The Tweed Gallery, home of the George P. Tweed Memorial Art Collection.



with the Regents Award. Mrs. Tuohy, who now resides in California, was present at a special dinner in Duluth to accept the Award. A special "Regents Award Exhibition" of paintings from the Tweed Collection was arranged in honor of the occasion.

The citation to Mrs. Tuohy reads in part:

"Born in the North Star State, her childhood filled with the grace of lakes and trees, and her spirit imbued with the sparkle of freedom, she learned early to perceive beauty, and to pursue truth; as a devoted wife she was a partner in assembling a magnificent collection of paintings; as a benefactor she has given to the people of her city of Duluth, and of her state, an incomparable legacy of art for ages yet to come."

**On the cover . . .**

is a cosmic ray research balloon being helium filled and readied for launching. The balloon is used in cosmic ray research being carried on by the University's Department of Physics. For full story, see page 10.

*Cover photography by Alan Ominsky*

Vol. XIV	THE MINNESOTAN	No. 4
Published by the Department of University Relations, 213 Administration Building, University of Minnesota, Minneapolis 14, Minnesota.		
William L. Nunn, Director		
Beverly Sinniger .....	Editor	
Jo Anne Ray .....	Associate Editor	
Advisory Committee: Members of the University Public Information Council.		
<p><i>The Minnesotan</i> will be published monthly October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2.00 a year, 25 cents a copy.</p>		
<p>Photographs, unless otherwise credited, were taken by members of the University Photographic Laboratory.</p>		
Second-class postage paid at Minneapolis, Minnesota.		

# University Launches Plan for the Continuing Education of Women

THE PLIGHT OF A COLLEGE graduate with a degree in social work who sought to return to her profession after an interval of several years is described in an article in a recent issue of *Harper's* magazine. This woman, at the age of 42, was told that before she could be hired for a social work position, she would have to go back to school.

"They were quite right," she was quoted as saying. "My M. A. has been in mothballs for 11 years and I wouldn't dare face a client all alone. I'm really unemployable without a refresher course and there don't seem to be any. I wonder why not?"

This woman and the many like her are the concern of a program launched this year at the University of Minnesota with a \$110,000 grant from the Carnegie Corporation of New York. The Minnesota Plan for the Continuing Education of Women is based on the philosophy that a degree is only the foundation of a person's education and that the University has an obligation to see that academic skills are protected against deterioration through disuse. It aims to provide women with the kind of education which will enrich their

lives and enable them to contribute effectively to society throughout their adult lives.

The Plan is concerned with the woman of the *Harper's* article who wants to re-enter the labor force but needs to be brought up to date in her professional field; with the female undergraduate who wants to plan an educational program which takes into account her future role or roles; with the woman who is staying home but wants and needs intellectual stimulation; and with the woman who is not interested in entering the labor force but who can help fill the urgent need for well-trained, semi-professional volunteers in hospitals, in cultural and social work agencies, and in schools.

"It can also help fill the less tangible, but perhaps more important, need for independent, informed, mature layman's judgment in every facet of a complex life, be it political, scientific, or in the area of basic values," said Elizabeth L. Cless, assistant to the dean of General Extension for liberal arts programs. Mrs. Cless and Virginia L. Senders, whose official title is coordinator of the Women's Continuing Education Program, are jointly responsible for

the operation of the Plan.

That there is a need for a program such as the Minnesota Plan is indicated by the growing number of reports and studies by psychologists and sociologists on the varied and complex roles of women today. A mass of evidence supports the contention that it is no longer realistic to force professionally trained women to choose either marriage or a career. Recent studies showed that in 1958 the median age of a woman having her last child was 26. Thus, when a woman's last child reached school age, there were approximately



Above: A series of coffee hours has been scheduled to help women become better acquainted with the operations of the Minnesota Plan. Describing the services offered by the program is Virginia L. Senders, coordinator of the Plan. Left: Ralph G. Ross, chairman of humanities, is instructor for the Arts of Reading seminar, one of the new courses initiated by the Minnesota Plan. Elizabeth L. Cless, seated to his right, works with faculty members in the College of Science, Literature, and the Arts in developing new courses.





Cornelia D. McCune, counselor for the Minnesota Plan, helps women plan educational programs which are tailored to their individual needs.

43 years of life remaining for which the mother had often made no plans.

A one-page announcement of the Plan appeared in the Extension Division bulletin published in August, and within two weeks 213 inquiries were received and many more have come in since that time. Of those inquiring, over 170 have indicated that they want to become a part of the Minnesota Plan. The ages of these women range from 18 to 62 and their educational backgrounds range from high school diplomas through masters' degrees plus some work toward a doctorate. Three women want to work for the M. D. and at least two want the Ph. D. Some are single, while one has a husband and seven children.

Just what is the Minnesota Plan and how does it operate?

"The Plan is a coordinating, advisory, and planning service," said Mrs. Senders, who is also a lecturer in psychology. "Generally, it will accomplish its aims through coordination of existing University facilities, although some additional facilities will be added as the need arises.

"Presently," she said, "much of our work involves processing the applications we have received and deciding what sort of information or service each individual needs. In some instances, the woman simply needs information. For example,

some had the mistaken idea that they could not attend University classes in the daytime unless they were enrolled as full-time students."

For those who need more extensive guidance, a special counselor is available. Cornelia D. McCune, the Plan's counselor, has all the facilities of the Student Counseling Bureau available for her use in helping a woman plan an educational program tailored to her individual needs.

A folder has been started on each applicant, forming the beginning of a documented record of grades and accomplishments which the Plan will maintain. The Plan can also help women make use of the University regulation that permits credit by examination. In some cases this will mean that knowledge gained through professional-level work in community or other activities can be converted into academic credit.

Seeking out those women who can benefit from the Plan and informing them of its services and objectives is a major job of Mrs. Senders. She has spoken before the state meeting of the American Association of University Women, branch AAUW groups, and various professional groups.

"Informing undergraduates of the Plan so that they can begin early in their University careers to plan for their continuing education is an im-

portant part of the Minnesota Plan," said Mrs. Senders. She will speak before student honoraries, academic sororities, residence hall groups, and at dean's retreats. The University is the first educational institution in the United States to initiate such a plan with continuity through the undergraduate, graduate, and extension levels.

In addition to present services, plans now call for establishing a placement service which would involve discovering and developing part-time jobs and at-home jobs at a professional level.

Where the need exists, new courses will be added to the curriculum. Two such seminars have been established in the General Extension Division—New Worlds of Knowledge, started last year as the first step toward the establishment of the Minnesota Plan, and the Arts of Reading, initiated this year. Mrs. Cless is especially concerned with program development and she worked with Dean E. W. McDiarmid of the College of Science, Literature, and the Arts in initiating these two seminars.

The New Worlds of Knowledge seminar meets every other week for a year. In addition, three residential seminars are held at which the class devotes a full day and a half to study and discussion. Most of the women enrolled have B. A. or M. A. degrees. The seminar seeks to explore critical thinking in the United States today and to point out the changes in thought which have occurred in the past 30 years and the questions specialists are asking in various fields. Ralph G. Ross, chairman of humanities, is faculty adviser for the seminar. Other faculty members and their areas of instruction are: Associate Professor Richard W. Anderson, psychiatry; Professor Emeritus William Anderson, politics; Associate Dean J. William Buchta, theoretical physics; Professor Herbert Feigl, philosophy of science; Assistant Professor George L. Houle, music; Professor Leonid Hurwicz,

economics; Lecturer Jack Ludwig, poetry and the novel; Professor Emeritus Dwight E. Minnich, evolution and genetics; Professor Paul C. Rosenbloom, mathematics; Professor Robert F. Spencer, cultural anthropology; Professor Donald Torbert, plastic and graphic arts and architecture; and Professor John Turner, comparative government.

Professor Ross is the instructor for the Arts of Reading seminar which meets bi-weekly and has been filmed for showing over KTCA-TV. This seminar seeks to develop skills in thinking, speaking, writing, and reading. The text used by the class was written specifically for such a course by Professor Ross, John Berryman, lecturer in interdisciplinary studies; and Allen Tate, professor of English.

Other major colleges and universities throughout the country have indicated their interest in the Plan and are watching the Minnesota program with interest.

"We are pleased and somewhat overwhelmed with the enthusiastic response from the community," said Mrs. Cless. "Elements of the Plan have existed for years within the University, but the support of the Carnegie Corporation grant is making it possible to expand our resources and make them more readily available to adult women.

"Ideas for the seminars have come primarily from faculty members in the College of Science, Literature, and the Arts, and their enthusiasm and excitement have made the seminars possible."

Office staff members for the Plan are Wendy J. Malin and Gertrude L. Roff. The Plan's administrative committee, which determines policy, includes E. W. Ziebarth, dean of the Summer Session, chairman; E. W. McDiarmid, dean of the College of Science, Literature, and the Arts; Julius M. Nolte, dean of the General Extension Division; E. G. Williamson, dean of students; and Mmes. Cless and Senders.

January, 1961



The Arts of Reading seminar, which seeks to develop skills in thinking, speaking, reading, and writing, meets bi-weekly and has been filmed for showing over KTCA-TV.

# THE REGENTS AWARD



A COLLECTION OF VALUABLE paintings which honors a tradition of greatness in Minnesota history; hospitals where the afflicted may find hope and comfort; and melodic bells which bring beauty into the lives of University staff members and students—these are among the many valuable gifts which have been presented to the University by individuals and organizations.

These gifts, which reflect the donors' magnanimity as well as their varied interests and personalities, substantially augment the University's teaching, research, and service programs. How does the University say "thank you" to those who thus demonstrate their confidence in, and support of, the University?

Presentation of the Regents Award, consisting of a gold medal and citation, is one way the University may express its gratitude and appreciation and give special recognition to the qualities of benefaction, fidelity, and leadership.

A total of 10 benefactors have received the Regents Award, and in each case, the University has made the presentation an occasion of special meaning and significance to the individual donor.

"Mr. University"—*Gerald T. Mullin*—was the first

## *Benefaction*

to receive the Regents Award. A generous and dynamic individual, his many years of service in the state Legislature—first as representative and then as senator—testify to his dedication to higher education and to his abiding concern for the welfare of all Minnesota citizens. For many years he served as chairman of the Senate University Committee and he became a major spokesman for, and advocate of, the University.

The Regents Award was presented to Mr. Mullin at a dinner in Coffman Memorial Union in December, 1957. His family and friends and associates from the University, the Legislature, the community, and his alma mater, the College of St. Thomas, were present when the University paid tribute to Mr. Mullin's many accomplishments and said "thank you" for all he had done for the University.

*Donald J. Cowling*, president of Carleton College for 36 years, has left his imprint not only on Carleton College but has influenced the advancement of private liberal arts colleges in the United States as a whole. He has been a dedicated and tireless supporter of the University's Medical Center. He served as chairman of the Committee of Founders of the Mayo Memorial and as chairman of the Executive Committee for the building of the Masonic Memorial Hospital.

Carleton College and the University sponsored a dinner honoring Dr. Cowling in December, 1958, to which his family and friends and associates from throughout the state were invited. Highlight of the dinner, was the presentation of the Regents Award to Dr. Cowling.

A small delegation of Regents and University officials visited *Earle Brown* at his farm in Brooklyn Center to honor him with the Regents Award. Former sheriff of Hennepin County and a longtime friend and supporter of the University, Mr. Brown has devoted a lifetime of service to his state. An ardent advocate of efficient methods in scientific agriculture, he has deeded his farm of 750 acres to the University. Funds from the sale of this land will go for construction of the Earle Brown Short Course Center on the St. Paul Campus.

Over 35,000 people witnessed the presentation of the Regents Award to the *Minnesota Department of the American Legion and its Auxiliary*. Presentation of the Award, which was made to coincide with the American Legion national convention held at Minneapolis in August, 1959, immediately preceded the Senior Drum and Bugle Corps Finals and Parade of Champions in Memorial Stadium.

Members of the American Legion posts and their auxiliaries throughout Minnesota raised \$500,000 to

## Fidelity

establish the American Legion Memorial Heart Research Professorship as a memorial to the Minnesota men and women who served their country in both world wars.

In specially equipped laboratories on the fourth floor of the Variety Club Heart Hospital, Dr. Robert A. Good, American Legion Memorial Heart Research Professor, studies the causes, prevention, and treatment of rheumatic fever and heart diseases.

*The Veterans of Foreign Wars and the Ladies Auxiliary, Department of Minnesota*, received the Regents Award at a dinner in Coffman Union following the dedication of the VFW Cancer Research Center in the fall of 1959. The Minnesota VFW posts and their auxiliaries raised over \$316,000 toward the construction of the Center and gave over \$14,130 toward purchase of equipment.

The dedication ceremony and dinner, held in conjunction with the Department's Fall Conference, were attended by over 500 members of VFW posts and their auxiliaries. Copies of the Award were included in the dinner programs.

This fall, with all equipment installed and all laboratories in operation, VFW statewide cancer committee members were invited to campus for a complete guided tour of the Center.

*H. Rowatt Brown*, a neighbor to the University and a man deeply sensitive to beauty, presented the electronic bells to the University which each week day mark the class hours and ring from the roof of Northrop in a half-hour evening concert.

Two dedication concerts on the Carillon Americana, the latest gift of electronic bells from Mr. Brown, marked the presentation of the Regents Award to Mr. Brown. The Award was given at a small dinner party on campus attended by Mr. Brown's family and close friends. That evening, Robert Carwithen, noted organist and carillonneur, presented a concert on the organ and Carillon Americana. An afternoon concert was given by Helen Garvey, University carillonneur.

The Variety Club Heart Hospital, the first hospital in the United States devoted exclusively to the treatment and study of heart disease, was built with funds raised by the *Variety Club of the Northwest*. Formal dedication of the building in 1951 brought noted motion picture personalities to the campus.

Originally a four-story building, the Club raised funds for a fifth floor, named the Arthur W. Anderson Floor in honor of the chief barker who spearheaded early Hospital construction plans.

At a dinner in the Campus Club in January, 1960, the Regents Award was given to the Variety Club of the

## Leadership

Northwest. A copy of the Award, enclosed in the dinner program, was given to each guest. Following talks by University doctors, the guests toured the Hospital.

*The Masons of Minnesota* were given the Regents Award at a luncheon this fall in Coffman Union to which more than 600 Masons, representing lodges and chapters throughout Minnesota, were invited. The Award cited the Masons for their gift of the entire \$1 million needed for the construction of the Masonic Memorial Hospital. The Hospital is dedicated to patient care, teaching, and research.

A large dinner program, enclosing a facsimile of the Regents Award citation, was presented to each luncheon guest. In addition, a copy of the Award was sent to each of Minnesota's 564 Masonic lodges and Eastern Star chapters where it can be framed and placed on the wall.

Prior to the luncheon, guests visited the Hospital where they met with staff doctors who described the work being done.

The James Ford Bell Room in the Walter Library was the setting for the presentation of the Regents Award to the man in whose honor the Room was named. *James Ford Bell*, Regent of the University for 21 years, was honored by his fellow Regents in a surprise ceremony following their October 15 meeting.

A man who looks forward to change and progress, but one who also seeks to preserve that which is valuable from the past, he has collected rare books on exploration and trade from the Renaissance period and presented them to the University, where they are housed in a vault adjoining the James Ford Bell Room.

An avid sportsman and dedicated conservationist, he contributed to the construction of the Minnesota Museum of Natural History. Regent Bell's own hunting expeditions furnished the Dalls Sheep from Alaska and Woodland Caribou from Newfoundland for two of the Museum's major exhibits. He has financed several other major exhibits as well as contributed funds for the Museum's operating expenses.

A special "Regents Award Exhibition" of paintings from the George P. Tweed Memorial Art Collection marked the presentation of the Regents Award to *Mrs. Alice Tweed Tuohy* on October 20. The Collection was given to the University by Mrs. Tuohy as a living memorial to her late husband, one of Minnesota's leading industrialists and financiers. A former resident of Duluth who now makes her home in California, Mrs. Tuohy also gave her home to the University and contributed to the construction of the Tweed Gallery on the Duluth Campus, the permanent home of the Tweed Collection.

(continued on page 14)

### James G. Kirk

Making a daily "reconnaissance" check of Kirby Student Center is one of the duties of James G. Kirk, senior building custodian at the University of Minnesota, Duluth. Here, Mr. Kirk takes readings in the student center fan room. Mr. Kirk, who has been working at the University for almost three years, was formerly a caterer for several Duluth restaurants for a number of years. During his spare time away from the University, he is still involved in catering service.



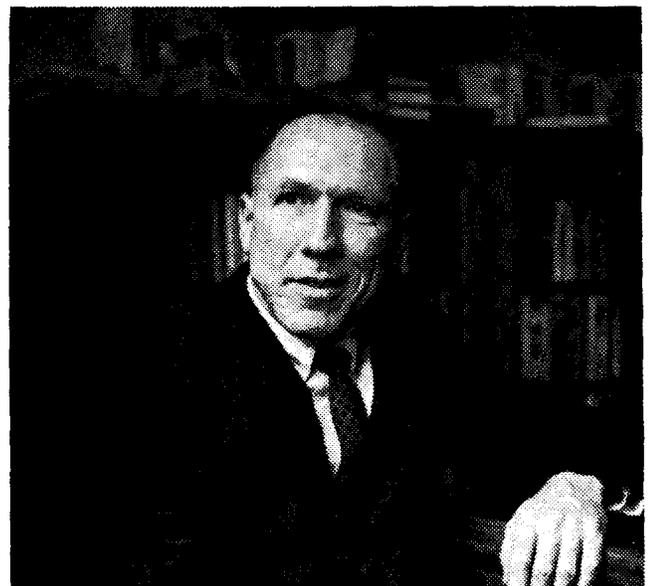
### George S. Hage

Associate Professor George Hage, who teaches reporting and magazine writing courses in the school of journalism, was formerly a newspaperman for five years with the Scripps-Howard newspapers. A native Minnesotan, he graduated from the University in 1937, and received his master's and doctor of philosophy degrees in 1950 and 1957. During the summer of 1958, he served an editing internship on the staff of the Saturday Evening Post, and that summer, the Post published his feature story on actor Robert Preston, star of "Music Man." The two had met previously when both were serving with the Air Force. He is the adviser, this year, to the student publications, the *Gopher* and the *Minnesota Daily*. Professor Hage is married and has three children.

HAVE Y

### Willard Philipson

Prior to his present position of materials advisor in Audio Visual Education, Willard Philipson was an instructor in agricultural engineering at Morris. Mr. Philipson filled the job formerly held by Wesley Grabow, who was made director of the department. Mr. Philipson's work involves consulting with University staff members for visual aid materials to be used in their classrooms. He is a 1953 graduate of the University. His master's degree program was also completed here. A six-year-old daughter and a seven-month-old son are included in his family.





**Ruth Johnson**

Norman County home agent at Ada is Ruth Johnson, also assistant professor in Agricultural Extension. Miss Johnson was cited for her distinguished service as a Minnesota home agent at the annual meeting of the National Home Demonstration Agents' Association held last November in Chicago. Miss Johnson has been in Norman County since 1957. She joined the University Agricultural Extension Service staff in 1949 as home agent in Grant County. In both counties she has directed a well-rounded home economics extension program, touching many phases of home and family living.

**U MET?**

**G. Robert Stange**

Director of the newly established Fellowship Program in the Graduate School is G. Robert Stange, also a professor of English. According to Professor Stange, the new Program will function as an information center to answer queries regarding all phases of graduate education here and at other universities. A professor of English for eight years, Professor Stange completed his undergraduate work at Harvard University. He also holds a doctor of philosophy degree. Last year he was a visiting professor at the University of Chicago. His family includes three children.



**Jean McIntosh**

Departmental secretary in botany is Jean McIntosh, who has been working at the University for 18 years. An amateur photographer, Miss McIntosh is a camera club member and is particularly interested in color photography. Bird watching and stamp collecting are also included in her hobbies. She is primarily interested in United States and British Columbia stamps. Her collection, started when she was a young girl, now includes a wide variety of stamps. Although she grew up in St. Paul, Miss McIntosh calls Minneapolis her home.





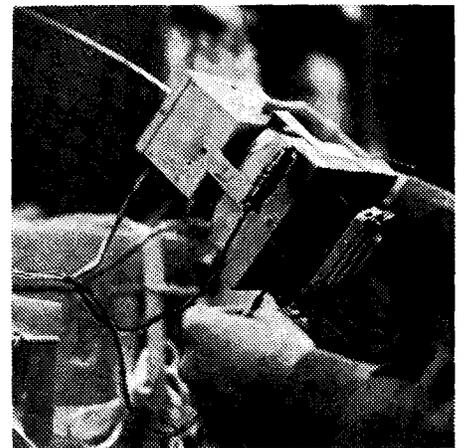
**OPERATION:**

# Balloon Launching



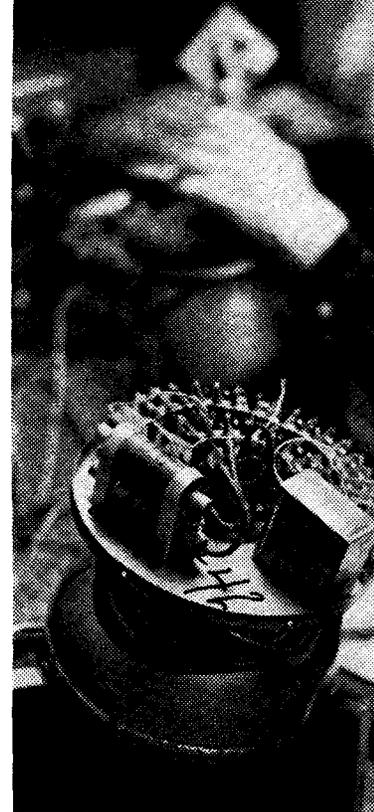
Placing gold-plated fiber on the electrometer.

Setting the cut-down timer.





David Hoffman and Ralph Fuchs time the transmitter before flight. The instruments are packed in polyurethane foam containers.



The detector unit.

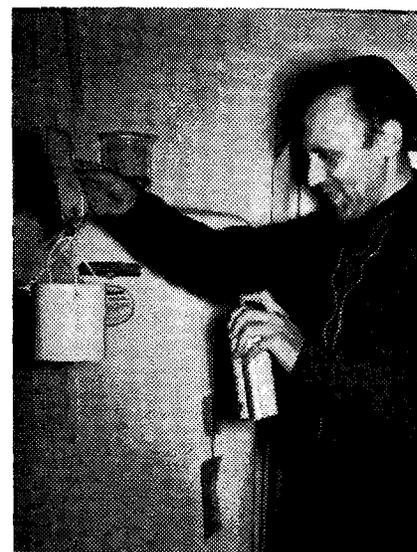
**E**ARLY DAWN or fading twilight will find a team of men from the Physics Department out at their "shack" at the University Airport near Anoka, preparing for a balloon launching. The "shack" is a 30-foot high building with 20-foot doorways, especially constructed for setting up balloon launchings. Inside, the balloons are filled with helium to a 100,000 cubic foot capacity, and then released into the atmosphere.

Attached to the balloon, which soars 23 miles into space, are three packages of transistorized equipment, which monitor cosmic rays and solar phenomena at high altitude.

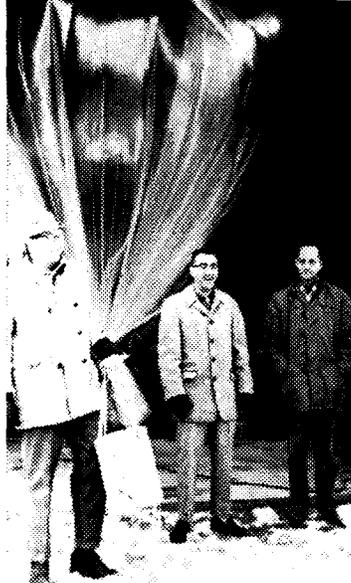
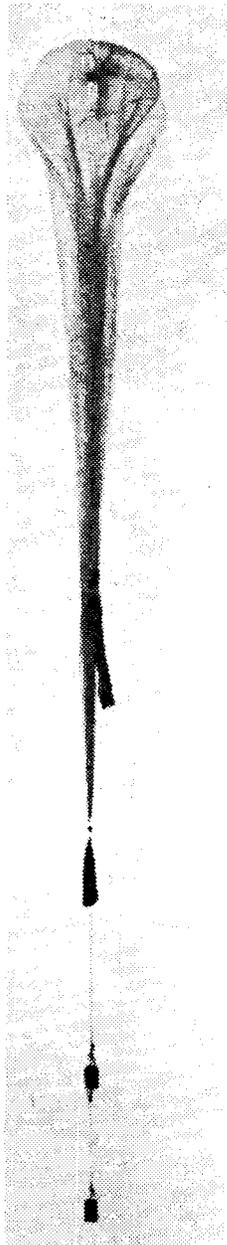
The equipment includes a radiation detector, a set of emulsions which records the track of nuclear particles, and a utility package which includes a transmitter, a cut-down timer, and a pressure or altitude-measuring instrument. The balloons must be above most of the atmosphere before the detectors will monitor any environmental space information. When periods of radiation level are high, as many as five balloons per day are launched until this high level subsides.

The balloon program is financed by a National Science Foundation grant awarded to Professors John R. Winckler and Edward P. Ney of the Physics Department. Additional funds have been received from the National Aeronautics and Space Administration. Also, long term support of cosmic ray research is provided by the Office of Naval Research.

Polyethylene, a 1/2000 of an inch thick plastic, is used in the manufacture of the balloons. They are made especially for the project from a design developed by Professors Winckler and Ney, and William Huch, research associate. Before being inflated, a balloon weighs 32 pounds.



Sam Brinda sprays an emulsion can.



Ready with the balloon are Andrew Masley, Ray Kaste and Michel DeGallier.

Balloon up and away.

The emulsions, which are a type of photographic film about 100 times thicker than ordinary film, record the movement or path of individual nuclear particles in the atmosphere. The developing process of the emulsions, from beginning to end, takes about one week. Phyllis Freier, research associate, is in charge of the emulsion laboratories. Involved in the work of processing the emulsions are Sukmar Biswas, research associate from India; Sam Brinda, engineering assistant; Dawn Copeland, Julia Petts and Barbara Berry, senior laboratory technicians; and Julianne Betz, laboratory technician trainee.

Wind velocity and equipment weight determine how high and how far the balloon will fly. These factors are determined before the cut-down timer is set to automatically detach the equipment from the balloon. The balloons travel about 400 miles and are set to remain in the atmosphere from about five to 24 hours, depending upon the wind velocity which can be up to 100 miles per hour at 115,000 feet. At such altitudes, the temperature is 60 degrees below zero Centigrade.

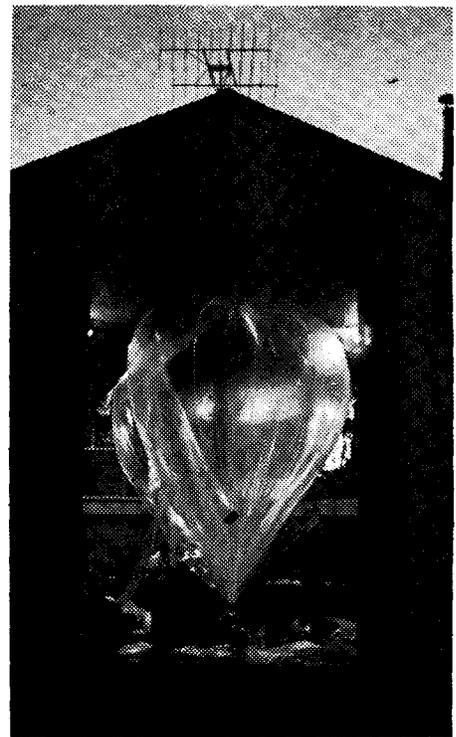
After the equipment is detached, a 10-foot parachute brings the load to the ground. The released balloon ascends into the atmosphere where it explodes. An identification card is attached to each equipment load, notifying the finder what it is, and where to return it. About 80 per cent of the equipment is found and returned.

Most of the equipment is made in the Physics Department. All of the parts are assembled and tested in simulated environmental conditions for pressure and temperature by Thomas May and Andrew Masley, research assistants. Special instrumentation is worked on by Raymond Maas, research associate. Other members of the cosmic ray group include Michel DeGallier, research assistant; Praful Bhavsar, research fellow; Ralph Fuchs, engineering assistant; and Robert B. Nelson and John Anderson, electronics mechanics.

Michel DeGallier weighs off the balloon.



Twilight in the physics "shack".



# - Have You Heard? -

## Staff Appointments, Elections, Activities

• CECIL J. WATSON, head of medicine, was made a "Commander of the Order of Merit of Chile", the highest award that can be made by that country to a non Chilean. The Award recognized Dr. Watson's contributions to medicine, medical research, and medical education.

Dr. Watson went to Chile to deliver the first Dr. Hector Duci Memorial Lecture in Santiago. Dr. Duci, Chilean physician who died last year, was a classmate of Dr. Watson's in their medical student years.



• ROBERT F. SPENCER, professor of anthropology, served as program chairman for the 59th annual meeting of the American Anthropological Association held in Minneapolis Nov. 17-20. Some 1,000 anthropologists exchanged information and discussed new findings in fields ranging from social organization of ancient cultures to anthropology's application in modern medicine. Margaret Mead, association president, was conference chairman. E. ADAMSON HOEBEL, chairman of anthropology, welcomed the delegates.

• DR. ARNOLD LAZAROW, head of anatomy, recently was elected president of the Minnesota Medical Foundation. Also elected to two-year terms of office were DR. CORRIN H. HODGSON, associate professor of medicine at the Mayo Foundation, vice president; and DR. JOHN A. ANDERSON, head of pediatrics, secretary-treasurer.

The Minnesota Medical Foundation is a non-profit organization of alumni, physicians, faculty, and other individuals providing private support for the University's Medical School.

• DR. HENRY W. MEYERDING, professor emeritus of surgery at the Mayo Foundation, and DR. JOHN B. ERICH, professor of plastic surgery at the Mayo Foundation, attended the 21st annual session of the American Fracture Association in Mexico City, Mexico, this fall. Dr. Erich was a speaker on the scientific program of the meeting. Dr. Meyerding is honorary life president of the Association.

• BENJAMIN E. LIPPINCOTT, professor of political science, was elected first vice president of the American Society for Political and Legal Philosophy at a recent meeting in New York City.

• WILLIAM E. PARHAM, chief of organic chemistry, has been elected chairman of the organic division of the American Chemical Society. He served as secretary-treasurer of the Division for five years before being named chairman-elect in 1959. He also served on several of the Society's national committees.

• RAYMOND B. NIXON, professor of journalism, was invited by Latin American editors and journalism educators to conduct the first classes at the new International Center for Higher Education in Journalism in Quito, Ecuador. Professor Nixon, editor of the *Journalism Quarterly* and president of the International Association for Mass Communication Research, opened a two-month session this fall at the Latin American center with a series of lectures comparing journalism in Europe and the Americas. His lectures, which extended through the first week of classes, also covered the relation of journalism to public opinion.

The center in Ecuador is the second International Center for Higher Education in Journalism established under United Nations sponsorship. The first, at the University of Strasbourg, France, opened in 1957 to serve Europe, Africa, and the Middle East.

Purpose of the new Latin American center and its European counterpart is to help develop journalism education and practice in all lands.

• The Educational Testing Service, Princeton, N.J., has named HORACE T. MORSE, dean of the General College, as chairman of a committee to revise the graduate record area examination in the social sciences. The area tests are designed to assess the broad outcomes in education in the liberal arts from the sophomore year through the first year of graduate study, according to Dean Morse.

• C. GILBERT WRENN, professor of education, reported on findings of a national study on guidance in American schools before the student personnel section of the Minnesota Education Association in October. Professor Wrenn heads the guidance study, which is being conducted by the American Personnel and Guidance Association's commission on guidance in American schools. A Ford Foundation grant is financing the study, which has included a survey of educators and men and women in virtually all professions in order to assess the role guidance should be playing in the future of American education. Professor Wrenn reported on the survey's progress.

THOMAS A. SOLDAHL, instructor in educational psychology, presided over meetings of the MEA's student personnel section, and LAWRENCE R. MERL, lec-

turer in the School of Social Work, served on a panel discussing "The Role of the Personnel Worker in the Elementary School."

• HERBERT FEIGL, director of the Philosophy of Science Center, has been elected president of the Minnesota Philosophical Society for the year 1960-61. The Society also elected CHARLES R. MACEL, coordinator of administrative services in the General Extension Division, as secretary-treasurer.

• The Minnesota section of the American Chemical Society presented its Minnesota Award to IZAAK M. KOLTHOFF, head of analytical chemistry. Consisting of a plaque and a check for \$500, the Award is given for "outstanding contributions in chemistry." It is made every two years to an outstanding chemist from the area and is recognized as an official prize of the American Chemical Society.

The Award was conferred by ROBERT C. BRASTED, professor of chemistry and chairman of the Minnesota section of the Society.

• MALCOLM M. WILLEY, vice president for academic administration, has been elected for a second term as chairman of the board of the Social Science Research Council. E. ADAMSON HOEBEL, chairman of anthropology, was re-elected secretary of the board.

## Research Grants

• The Johnson Service Company of Milwaukee, Wis., has given the University a \$6,000 grant for a study of the lifetime costs of heating, ventilating, and control equipment in school buildings. The study will be conducted by the Bureau of Field Studies and Surveys of the College of Education. Selected educational buildings in Minnesota will be surveyed, according to OTTO E. DOMIAN, director of the bureau.

Johnson Service Company is a member of the Minnesota School Facilities Council, which is organized to develop programs in Minnesota communities for more efficient schools and school equipment as tools of better education. The Council is composed of educators, architects, engineers, and businessmen who specialize in school equipment.

• The University has received three grants totaling almost \$40,000 for long-range research in organic chemistry under the direction of WILLIAM E. PARHAM, chief of the organic chemistry division.

A \$12,726 grant from the United States Public Health Service will support the organic division's continued studies of the mechanism of action of certain chemical agents against leukemia.

(Continued on Page 14)

(Continued from Page 13)

The other two grants will support Professor Parham's work in synthetic organic chemistry. A two-year grant of \$16,000 from the National Science Foundation will finance a study entitled "Ring Expansion Reactions Involving Carbene Intermediates", and a grant of \$11,090 from the United States Army Office of Ordnance Research will support study of "Sulphur Containing Organic Compounds."

• Three University faculty members recently received National Science Foundation research grants and fellowship awards totaling \$56,400. Two of the awards provide for study in foreign countries.

ROBERT F. LAMBERT, professor of electrical engineering, received a \$44,300 renewal-grant for the continuation of support of basic research on "Sound Propagation in Moving Media."

HUGH L. TURRITTIN, professor of mathematics in the Institute of Technology, was awarded a \$7,600 grant for basic research on "Ordinary Differential Equations." The work will be carried on at the University of Vienna and at the Vienna Institute of Technology.

WILLIAM GARLAND, teaching assistant in anthropology, received a \$4,500 fellowship for advanced study and research in the National Science Foundation's post-doctoral fellowship program. Mr. Garland will go to Tanganyika, Africa, where he will work on the general ethnography of a specific tribe in the mountainous section of the eastern coastal section.

---

(continued from page 7)

A special program, designed for the exhibition, listed the titles and artists of the paintings exhibited and displayed a copy of the Regents Award citation.

Recipients of the Regents Award are recommended to the Board of Regents by a special Regents Award Committee and then voted upon by the Board. Members of the Regents Award Committee are Regent Marjorie J. Howard (Mrs. C. Edward), chairman; William L. Nunn, director of University Relations, secretary; Laurence R. Lunden, vice president for business administration; Malcolm M. Willey, vice president for academic administration; and Raymond W. Darland, provost of UMD.

## Minneapolis Campus Gives Over \$60,000 To United Fund and Voluntary Agencies

University staff members on the Minneapolis Campus gave over \$60,000 to the Consolidated Drive for United Fund and Voluntary Agencies. The Drive, conducted on the Minneapolis Campus in October, netted \$48,801.96 for the United Fund of Hennepin County, or 87.7 per cent of the University's United Fund quota; \$6,565.33 for the American Cancer Society (Minnesota Division); and \$5,608.22 for the Minnesota Heart Association. (These totals are subject to changes resulting from late contributions, etc.)

The single campaign was a departure from previous University policy which provided that two campaigns be conducted each year, a Community Chest Drive in the fall and a Red Cross campaign in the spring. The Consolidated Drive enabled Minneapolis Campus staff members to contribute at one time to the United Fund of Hennepin County and to each of the two voluntary agencies.

The University, along with other groups participating in the United Fund Drive, was given a quota by the United Fund of Hennepin County. The quota was established by adding the totals raised by the Minneapolis Campus in last year's Community Chest and Red Cross drives, plus a percentage mark-up to take care of the additional organizations which have come under the United Fund. The University had no quotas for the two voluntary agencies.

"We were pleased with the total amount of contributions," said William O. Cook, assistant to the supervising engineer in the Physical Plant Department and director of the

Drive. "The University contributed approximately \$24,000 more than it contributed in any single previous drive. However, we are hopeful that next year, as more staff members realize the advantages of using payroll deduction, the University will achieve its quota for the United Fund of Hennepin County."

Associate director of the Consolidated Drive was Samuel H. Popper, associate professor of education.

Staff members serving as captains of sections during the Drive were:

Dr. Joe B. Aust, associate professor of surgery; W. Donald Beatty, associate professor of history; Frank R. Braun, assistant director of the Bureau of Recommendations; Ernest B. Brown, professor of physiology; Lawrence E. Conroy, assistant professor of chemistry; John J. Cound, professor of law; Edward J. Dvorak, health educator, Health Service; Dr. Ivan D. Frantz, professor of medicine; George Freier, associate professor of physics; Ambert B. Hall, professor of dentistry; Alvin R. Johnson, shop superintendent, Plant Services; Clara Kanun, assistant to the dean of Summer Session; Theodore J. Kaul, program consultant, Student Unions; Adolph O. Lee, assistant professor of mechanical engineering; Edwin H. Lewis, professor in the School of Business Administration; Edward S. Loye, associate professor of mathematics in the Institute of Technology; Jean McCarthy, personnel supervisor, Admissions and Records; Mary Ann McIntyre, assistant director of nursing services; Glenn Mitchell, assistant director of University Hospitals; Dr. Charles F. Morgan, professor of anatomy; Clarence E. Mueller, director of intramural athletics; Gerald B. Ownbey, chairman, botany; Eleanor M. Salisbury, assistant to the dean of the General Extension Division; James P. Schroeder, director of men's residence halls; Donald K. Smith, professor of speech; Martin L. Snoke, assistant dean, Office of the Dean of Students; Dr. Mildred C. Templin, professor of child development; Dr. Stewart C. Thomson, associate director of the School of Public Health; and Verners Vitins, senior librarian.

# ROSE BOWL TICKETS

## All Staff and Student Requests Honored

ALL UNIVERSITY STAFF MEMBERS and students who followed instructions and applied in person for their Rose Bowl tickets on the dates designated received tickets. Five hundred and sixty-one staff members and 3,261 students applied and their requests were honored.

Special dates were set aside by the Athletic Department ticket office for staff and students to apply at Williams Arena lobby. Staff members applied in person on Friday and Saturday, December 2 and 3, from 9 a.m. to 4 p.m., and students applied in person the same place and time on November 30 and December 1.

The only requirement for staff members was that the individual be currently employed and eligible to purchase the staff season athletic ticket. Students had to be currently registered and also eligible to purchase regular student athletic tickets. However, in both cases, it was not necessary to be a holder of a current season ticket.

Students and staff were limited to one ticket if single, plus one additional if married. Either or both tickets purchased were for personal use only. The student or staff member's ticket was sold at half price. The non student-staff spouse ticket was sold at the regular admission price of \$6. Documentary proof of marriage was required at the time of purchase. Students were required to present a fee statement on purchase, and staff members were asked to establish appointment and classification status.

Marshall Ryman, business manager of athletics, stressed that all tickets sold to students and staff had to be picked up personally by the original applicant upon presentation of official receipt and other identification at Los Angeles.

A special Rose Bowl committee, which determined policy for the distribution of Rose Bowl tickets, was headed by Stanley Wenberg, vice president and administrative assistant. Other committee members included Ike Armstrong, director of athletics; Sterling B. Garrison representing Laurence R. Lunden, business vice president; Edwin L. Haislet, director of alumni relations; Stanley V. Kinyon, law school professor and faculty representative to the Western

Conference (Big 10); William L. Nunn, director of University Relations; Marshall Ryman, Athletic Department business manager; Max O. Schultze, chairman, University senate committee on intercollegiate athletics and professor of animal husbandry; Willard L. Thompson, assistant to President O. Meredith Wilson; Edmund G. Williamson, dean of students; and James R. Spensley, Minnesota Student Association president.

Tickets were allocated to five main priority groups, as determined by this committee. The groups were (1) University students, (2) University staff, (3) University benefactors, (4) public season football ticket purchasers (those who purchased season tickets for the last three years), (4) Alumni Association paid-up members and Minnesota "M" lettermen, and (6) general public.

Thirty thousand applications were printed, addressographed, sorted, and stamped between November 23 and 27. On Sunday, November 27, they were mailed to individuals in the priority groups three to five (staff and students applied in person). (The general public was not sent applications pending the outcome of the sale in the other priority groups. Total applications from the first five groups exceeded the supply of tickets, and therefore, no tickets were available to the general public.) Each of the 12,000 applications received by the Athletic Department was sorted and reviewed four times. Only 50.9 per cent of the total applicants (excluding staff and students) received tickets. Requests from staff, students, and benefactors were filled 100 per cent; the public, 41.8 per cent; and Alumni and "M" lettermen, 33.3 per cent. A total of 6,034 applications were returned unfilled.

The Athletic Department ticket office employees worked seven days a week and 12 hours or more a day during the rush. Ten additional employees were hired to assist the regular staff which includes Ed Brostrom, Irene Kessler, Shirley Korblick, Marion Raihala, Mary Spalding and Sally Burling. Four people were assigned to answer Rose Bowl telephone calls. Mr. Ryman, Irene Kessler, and Shirley Korblick flew to California before Christmas to staff the ticket claim office in Los Angeles.

# University of Minnesota Calendar of Events

## JANUARY, 1961

### MINNEAPOLIS SYMPHONY CONCERTS

#### Subscription Series

Northrop Auditorium, 8:30 p.m.

January 6—Nathan Milstein, violinist; Frank Miller, conductor.

January 13—Peter Maag, guest conductor.

January 20—Walter Hendl, guest conductor.

January 27—Byron Janis, pianist; Stanislaw Skrowaczewski, conductor.

(Single tickets \$3.00 to \$4.50. Reservations may be made at 106 Northrop.)\*

#### Twilight Concerts

Northrop Auditorium, 4:30 p.m.

January 8—"A Musical Tour." Frank Miller, conductor.

January 15—"A Day In Spain." Norman Carol, violinist; Adylene Johnson, contralto; Frank Miller, conductor.

January 22—Grieg, Gershwin, Gould. Eva Knardahl, pianist; Frank Miller, conductor.

(General admission \$1.25. Sale of tickets opens at the Northrop Box Office at 3:30 p.m. on the day of the concert.)

### UNIVERSITY ARTISTS COURSE CONCERTS

#### Masterpiece Series

Northrop Auditorium, 8:30 p.m.

January 16—Isaac Stern, violinist.

January 25—Mary Costa, soprano. (Single tickets for both concerts \$1.50, \$2.50, \$3.00, \$3.50. Reservations may be made at 105 Northrop.)\*

#### CONVOCATIONS

Northrop Auditorium, 11:30 a.m.

(unless otherwise specified)

January 5—Richard Dyer-Bennet, tenor and guitarist.

January 19—To Be Announced.

January 26—"Is There A World Opinion?" lecture by the Honorable Anthony Wedgwood Benn, M.P.

January 26—"Our Age of Revolution," lecture by the Honorable Anthony Wedgwood Benn, M.P. (North Star Ballroom, St. Paul Campus Student Center, 3 p.m.)

### UNIVERSITY THEATER PRODUCTION

#### Regular Production

Scott Hall Auditorium

January 26, 27, February 1-3, 8 p.m.; January 28 and February 4, 6:30 and 9:30 p.m.; and January 31 and February 5, 3:30 p.m.—*Desire Under The Elms* by Eugene O'Neill.

(Single tickets \$1.50 on sale at the Scott Hall Box Office.)\*

### SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

Monday-Friday, 10:45 a.m.—"Highlights

In Homemaking" with Jo Nelson.

Monday-Friday, 1 p.m.—William Hillard reads *The Fathers* by Allen Tate on "Your Novel."

Saturday, 11 a.m.—"The Little Concert" features classical music requested by younger listeners.

Saturday, 2 p.m.—"Music For The Asking" presents the classical favorites of adult listeners.

Wednesday, 4:15 p.m.—"University Concert Band Ensemble" under the direction of Frank Beniciscutto.

### UNIVERSITY TELECASTS Seen on Channel 2, KTCA-TV

Monday, 9 p.m.—"World Affairs" with George Grim as moderator.

9:30 p.m.—"At Home With Music."

Tuesday, 9 p.m.—"Books From The Bell Collection" with John Parker, curator of the James Ford Bell Collection.

9:30 p.m.—"The Civil War: Backgrounds" with Rodney C. Loehr, associate professor of history.

Wednesday, 9-10 p.m.—"Folio" with Arnold Walker of the University television staff as guide.

Thursday, 9 p.m.—"Economic Growth" with Department of Economics faculty members.

9:30 p.m.—"Town and Country" with Ray Wolf, Agricultural Extension Information specialist.

Friday, 9 p.m.—"Photography, The Popular Art" with Burton Paulu, director of radio and television.

9:30 p.m.—"Mythology in Literature" with Roy A. Swanson, assistant professor of classics.

### MUSEUM SUNDAY PROGRAMS

Museum of Natural History Auditorium, 3 p.m.

January 8—"Caribou Mystery," color sound film.

January 15—"Exploring Historic Sites In Minnesota."

January 22—"Recent Technical Advances In Animal Studies."

January 29—"The Kpelle Culture of Liberia, West Africa."

### UNIVERSITY GALLERY EXHIBITIONS

Through January 15—200 Years of Children's Books from the Kerlan Collection.

January 23-March 7—The Eighteenth Century: One Hundred Books by One Hundred Artists.

### JANUARY UNIVERSITY OF MINNESOTA PRESS PUBLICATIONS

*An American Social Worker In Italy* by Jean Charnley. \$5.25.

*The Welsh In America: Letters From The*

*Immigrants*, edited by Alan Conway. \$6.00.

*Libel In News Of Congressional Investigating Committees* by Harold L. Nelson. \$4.25.

*Recent American Drama* by Alan Downer. (University of Minnesota Pamphlets on American Writers, No. 7.) \$65.

*T. S. Eliot* by Leonard Unger. (University of Minnesota Pamphlets on American Writers, No. 8.) \$65.

### ATHLETIC DEPARTMENT EVENTS

#### Home Basketball Games

Williams Arena, 8 p.m.

(unless otherwise specified)

January 14—Purdue. (3:30 p.m.).

January 16—Northwestern.

January 23—Michigan State.

January 30—Indiana.

(Single game reserved tickets \$2.00. Mail order sales close one week prior to each game. General admission tickets at \$1.25 for adults and \$1.00 for individuals under 16 on sale at gate only.)\*

#### Home Hockey Games

Williams Arena, 8 p.m.

January 2—Russia. (Single game reserved tickets at \$2.00 and \$3.00. General admission tickets at \$1.50 on sale at gate only.)\*

January 6—Colorado College.

January 7—Colorado College.

January 13—Michigan.

January 14—Michigan.

January 27—Michigan State.

January 28—Michigan State.

(Single game reserved tickets \$1.75. General admission tickets at \$1.00 for adults and \$.75 for individuals under 16 on sale at gate only.)\*

(Over-the-counter ticket sales for both hockey and basketball games begin the Monday before each game at 108 Cooke Hall.)\*

#### Gymnastics

Cooke Hall, 2 p.m.

January 7—Illinois.

January 28—Southern Illinois.

#### Swimming

Cooke Hall

January 7, 3:30 p.m.—Nebraska and Gustavus Adolphus.

January 14, 3:30 p.m.—Chicago.

January 27, 8 p.m.—Northwestern.

January 28, 2 p.m.—Iowa State University.

#### Track

Field House, 2 p.m.

January 28—Iowa State University.

#### Wrestling

Williams Arena, 5 p.m.

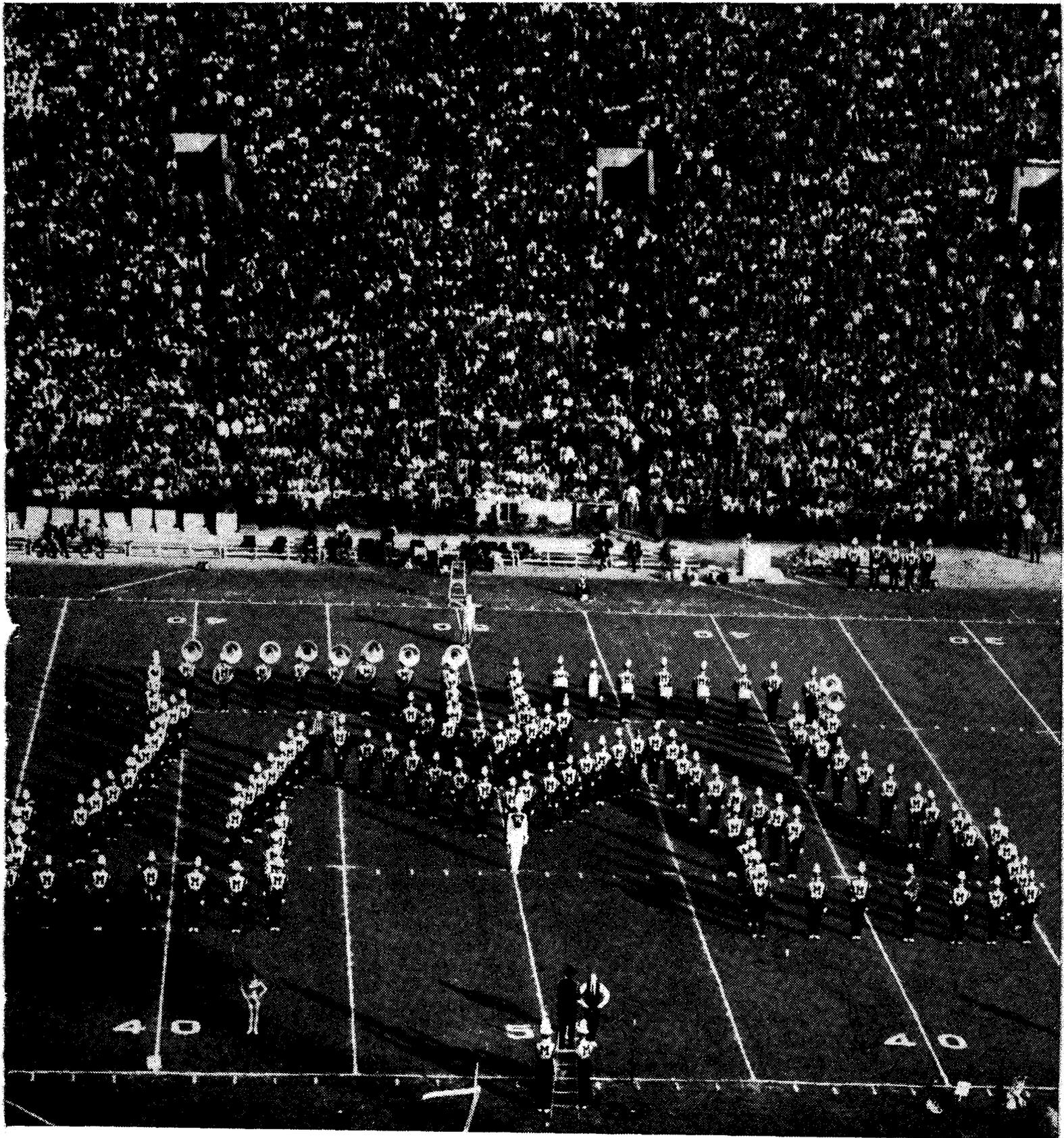
January 14—Illinois.

(Tickets for gymnastics, swimming, track, and wrestling at \$.60 for adults and \$.25 for individuals under 16 on sale at gate only.)

Unless otherwise noted, events are open to the public without charge.

\*Tickets for these events are available at the Field Schlick Ticket Office, St. Paul, and the Downtown Ticket Office, 188 Northwestern Bank Building, Minneapolis, on Monday of the week prior to the performance.

# THE MINNESOTAN

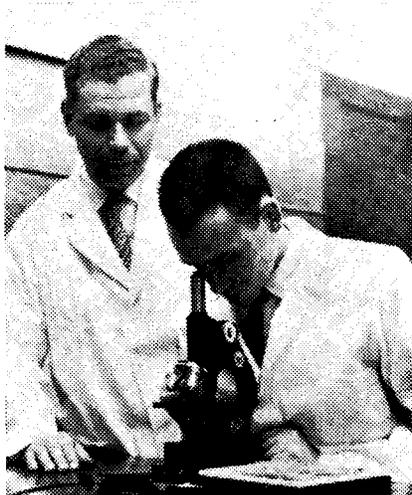


# THEY MADE US GREAT

**L**AST FALL, ON THE opening day of school, the Minnesota Medical Foundation awarded 32 scholarships totaling \$16,500 to aspiring, young medical students. A total of \$110,000 has been distributed to 215 students since this program was launched in 1950. This is just one of the many important contributions made by the Foundation to the University of Minnesota Medical School for education and research.

Twenty years ago, a group of physicians, including faculty of the Medical School and doctors practicing medicine throughout the state, met to organize the Minnesota Medical Foundation, a non-profit organization, founded to advance the interests of the Medical School by improving the undergraduate, graduate, and research functions; to establish scholarships, lectureships, professorships, research and student loan funds; and to publish a medical bulletin.

Beginning with only a small nucleus of friends, membership in the Foundation has grown to over 1,500 supporters. The backbone of the organization is some 1,000 members who contribute annual dues of \$10. Total membership includes students, friends, medical alumni, and practicing physicians. In addition to the scholarship program, the Foundation is rapidly broadening its private aid to the Medical School. In the past year, it has contributed \$5,000 to aid in the construction of Diehl Hall, and has recently awarded \$13,716 to Dr. Frederick Goetz of the Department of Medicine, for a two-year diabetes research study.



The official publication of the Foundation, known as the University of Minnesota Medical Bulletin, is sent to all members and has proved to be a valuable liaison between the school, its friends, and graduates. Originally a mimeographed sheet, it is now a 5 x 8½ inch medical and alumni news journal. It is published by the Medical Foundation and the University Hospitals. Another service of the Foundation is to provide 90-day emergency loans to medical students without interest charges.

Two of the University's foremost medical educators and scientists were recipients of the Foundation's Distinguished Service Awards presented last fall for the first time. Dr. Maurice B. Visscher, head of physiology, and Dr. Owen H. Wangensteen, chairman of surgery, were honored with the awards which will pay them each \$5,000 annually for the remainder of their faculty careers. The awards were financed by specific contributions to the Foundation from the Modern Medicine Foundation Publications, and from the Phillips Foundation, both of Minneapolis.

For 20 years, the Foundation was operated by a part-time staff. Not until 1959, when Eivind Hoff the executive secretary was hired, did the organization have a full-time person to direct its activities. In the last 18 months, the membership has grown

by 50 per cent. Although operated as a part of the University, the Foundation is privately endowed and all of its operating funds are provided from off campus.

About the future, Mr. Hoff says, "We are just beginning to grow. Presently we are enacting long range plans for a substantially enlarged private support program for the Medical School in areas where legislative appropriation cannot do the whole job."

Dr. Arnold Lazarow, professor and head of the Department of Anatomy, was elected president of the Foundation at its fall meeting last year. Elected for a two-year term, he succeeds Dr. Herman Drill, Hopkins, who had been president since 1958.

**On the cover . . .**

## On the cover . . .

is the University of Minnesota band, under the direction of Bandmaster Frank Benicuccio, performing during half-time ceremonies in the Rose Bowl. Fourteen Twin Cities firms contributed to sending the band to California. They include Minnesota Mining and Manufacturing Company, St. Paul Dispatch-Pioneer Press, Minnesota Federal Savings and Loan Association, Northern States Power Company, West Publishing Company, Paper Calmenson and Company, St. Paul Book and Stationery Company, McNally Foundation Incorporated, Northwestern National Life Insurance Company, General Mills Incorporated, Minneapolis Star and Tribune, Super Valu Stores Incorporated, Twin City Federal Savings and Loan Association, and Minneapolis-Honeywell Regulator Company.

Vol. XIV

No. 5

## THE MINNESOTAN

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

William L. Nunn, Director

Beverly Sinniger..... Editor  
Jo Anne Ray..... Associate Editor  
Advisory Committee: Members of the University Public Information Council.

*The Minnesotan* is published monthly October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2.00 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.

Second-class postage paid at Minneapolis, Minnesota.



The UMM Campus, including several experimental farm buildings in the upper right-hand corner.

This is

# UMM

University of Minnesota, Morris

Rodney A. Briggs, energetic young dean of UMM.



February, 1961

**A**N INFECTIOUS SPIRIT of enthusiasm to succeed and to grow permeates the atmosphere of the University's newest campus, the University of Minnesota, Morris. Located in the city of Morris in west-central Minnesota, some 150 miles from the Twin Cities, the new University campus opened its doors for the first time just six months ago, September of 1960.

In less than 11 months, a transition has been made from high-school-level instruction to first-year college instruction. For 50 years the campus was known as the West Central School and Experiment Station. The School of Agriculture (the high school level instruction) will be phased out. Students presently enrolled will complete three more years of instruction, but no new students are being enrolled. The Experimental Station, which comprises 17 buildings and 821 acres of experimental plots, will continue in operation. With the elimination of the high school, new adult education programs will be planned and put into operation.

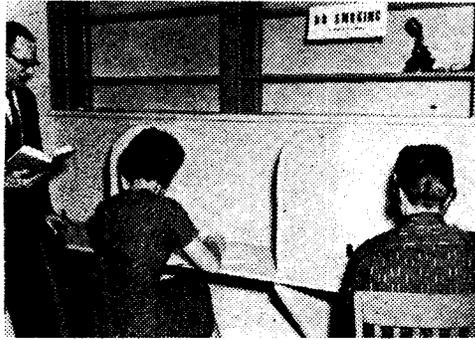
An inviting, tree-lined drive leads into the 35-acre UMM Campus and follows around the U-shaped mall, passing an impressive array of 13 collegiate buildings. The facilities include four resident halls for men and women, four classroom buildings, a health service, a gymnasium with swimming pool, a new auditorium, a library, a bookstore, a student lounge, and a cafeteria.

Cooperation in all areas was needed and received in the planning of a new University program. A curriculum was formulated to conform with the high standards of academic excellence in instruction offered by the University in all of its collegiate programs. UMM offers a broad sequence of subjects in the humanities, languages, science and mathematics, and the social sciences. One or two-year pre-professional programs are offered in agriculture, dentistry, engineering, journalism, medicine, nursing—to name a few.

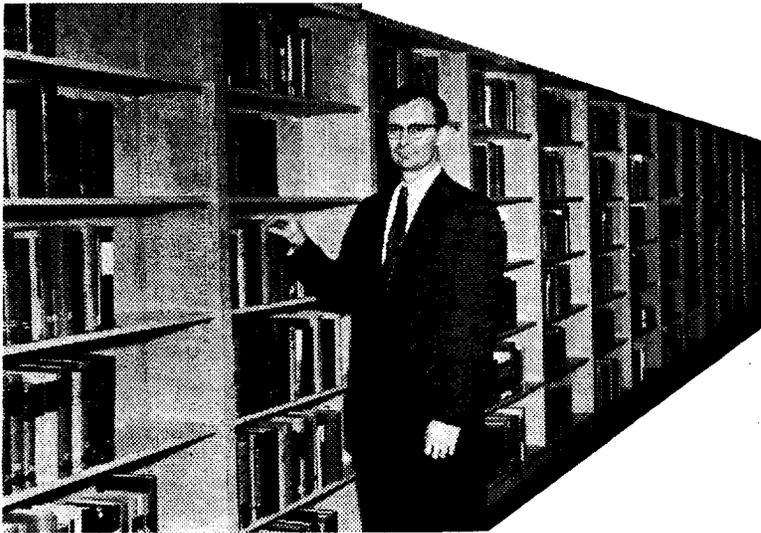
The new liberal arts college had an enrollment of 238 freshman students at the beginning of fall quarter, and over 230 in the winter quarter. It is staffed by 17 full-time and four part-time faculty members, selected from institutions around the country.

The student body includes graduates from 51 different high schools representing 21 different Minnesota counties.

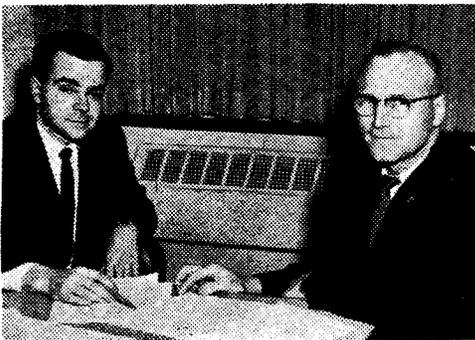
Kathy Stock, secretary to Dean Briggs, assists a student in filling out a form.



Two students in the language laboratory receive assistance from John Heald, instructor in Romance languages.



Donald Gray, librarian, places UMM's 3,000th volume on the library bookshelf.



Stephen Granger, counselor, left, discusses a student activity with Herbert Croom, acting director of student services.

Assistant Professor Jay Roshal receives student assistance on his biology research project.



Seventy-seven per cent of the students are from the upper 50 per cent of their high school graduating class.

Western Minnesota has long been without an institution for higher education. As early as 1933 the Board of Regents was petitioned by citizens of that area to offer college-level instruction at the West Central School and Experiment Station. Surveys and studies showed that of the 34 colleges in Minnesota, only four were located in the western half of the state . . . and because of the need for higher education, only about 22 per cent of the high school graduates from that area were going on to college. Finally, 27 years from the first time a request was submitted, the Board of Regents authorized the establishment of college education at Morris — on October 31, 1959.

What is attracting students to Morris? Two of the major reasons probably are need for a college, and cost.

Thirty-four per cent of the students now enrolled indicated they chose to attend UMM because they could live at home and commute; 21 per cent said it would have been very difficult financially to attend another college. Although the tuition on the Morris Campus is equal to that on other University campuses, boarding expenses at UMM are approximately \$200 a year less.

The UMM Campus is unique in several ways. It is a Campus where the dean, Rodney A. Briggs, knows most students by name, where they are from, and how they are doing in their classes. Each student is personally interviewed by the dean before being accepted into the school. A program has been established with strong individual counseling and advisement.

It is a campus where parking is free and never a problem, where freshmen wear UMM crew caps, and where students make their own traditions and set the pace for those who will follow. Six religious foundations, a student council, and student government are functioning. A college newspaper, the Vanguard, is published bi-weekly, and UMM students have a daily, five-minute radio program on the Morris station, KMRS.

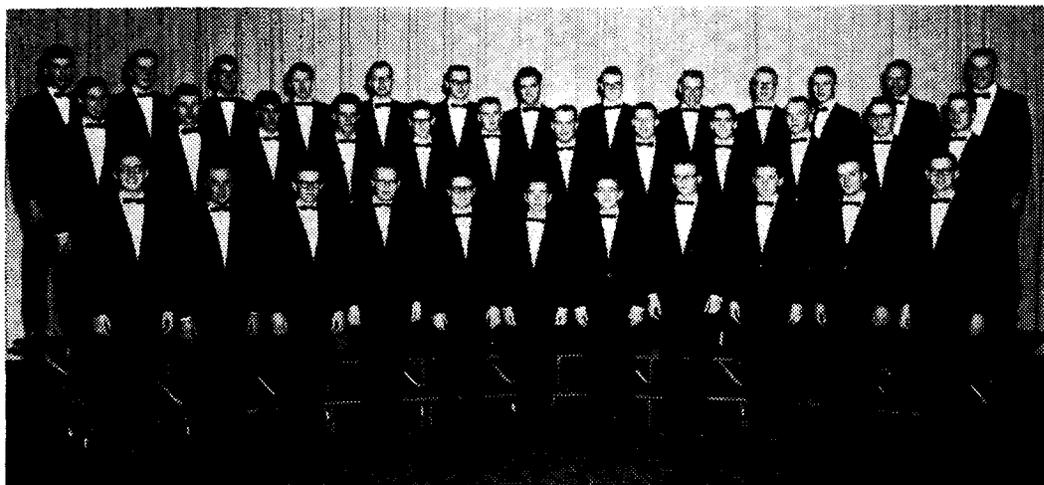
A wide variety of interests highlight the UMM convocations, and nationally and internationally known personalities are billed for the University Artists Course, including the Vienna Boys' Choir, the St. Paul Opera Company, "Doc" Evans, and Bennett Cerf — giving area residents an opportunity to attend lectures and concerts in their own community.

A scholarship and loan program is in operation, and a student employment office is maintained in the Office of Student Services. An intercollegiate athletic program is developing rapidly, and UMM athletes have encountered neighboring college basketball teams. A concert band, mixed choir, male chorus, and individual lessons highlight the strong music program.

Physical facilities had to be rehabilitated to handle college courses. New biology, physics and chemistry laboratories have been built, and cafeteria and study rooms have been provided for commuting students — and there is a post office with individual post office boxes.

We pro-claim its des-ti - ny Now sus-tain our loy-al-ty

Lyrics and music taken from UMM Hymn.



The UMM Men's Chorus, in their plaid jackets with satin lapels, have entertained Morris citizens and are scheduled to tour other Minnesota communities. The chorus is directed by Assistant Professor Ralph Williams, director of music at Morris. Professor Williams is the composer of the music and lyrics for the UMM Hymn and Fight Song.

Unused and renovated equipment has been put to work again on the Morris Campus — tables from Haecker Hall, chairs from all over the University, kitchen equipment from the old food service on the St. Paul Campus, books from the library, old University band uniforms, choir robes from the School of Agriculture, and an organ from Coffman Memorial Union.

On July 1 the Morris library had one volume; on January 4 the 3000th volume was checked in. Theodore C. Blegen, former dean of the University Graduate School, gave his 600-volume personal library, plus two journal series.

The new University campus has received enthusiastic support from the citizens of Morris and the surrounding communities. Morris, a city of 4,200 citizens, originally pledged \$25,000 to help equip the chemistry and physics laboratories, and provide books for the library — but this sum was raised to \$52,500 by the time classes commenced. Today this figure has reached nearly \$80,000. A local group, the West Central Education Development Association, organized the community to raise money. Money-raising projects included door-to-door canvassing by high school students and a fruitcake-selling campaign launched by a civic group.

The Morris Campus Advisory Committee, headed by Malcolm Willey, vice president for academic administra-

tion, has set the over-all educational philosophy and has guided the academic development of the new Campus. Other committee members include T. H. Fenske, associate dean of the Institute of Agriculture; Frank Verbrugge, associate dean of the Institute of Technology; Marcia Edwards, associate dean of the College of Education; E. W. McDiarmid, dean of the College of Science, Literature, and the Arts; Clinton Johnson, assistant vice president and University treasurer; R. E. Summers, dean of admissions and records; Lloyd M. Short, chairman of political science; and Dean Briggs.

And UMM is attracting students . . . at a recent three-day open house for area high school seniors, 175 prospective students came from 40 different high schools encompassing a radius of 100 miles. Only 27 of the 175 were from the city of Morris.

A new college has emerged at Morris — complete in program and facilities — and enthusiastically supported by the citizens of the area.

University spirit is summed up in the words of one of its young visitors, a prospective student, “. . . I came away very impressed. There was something very unique about the University of Minnesota, Morris. You succeeded in transmitting to me the feeling of oneness that seems to hover over your school.”

A winter view of the scenic Morris Campus pictures Spooner Hall, the Health Service, and Music Hall.

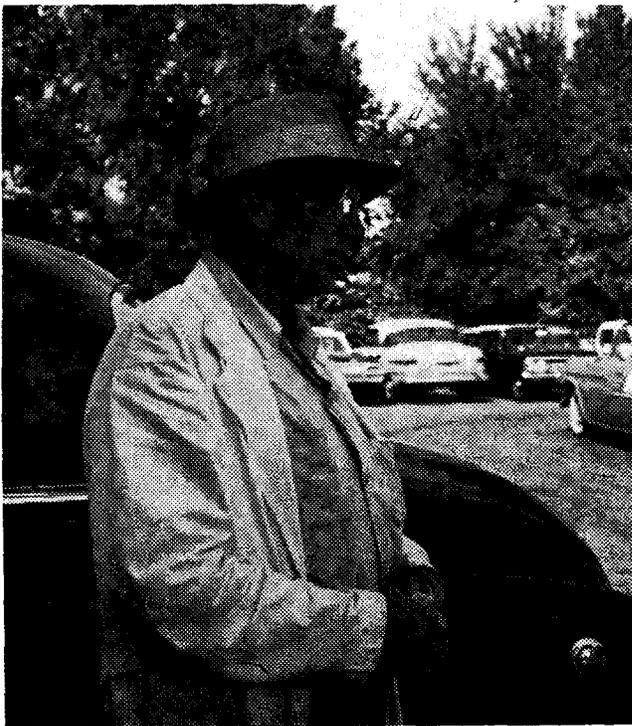
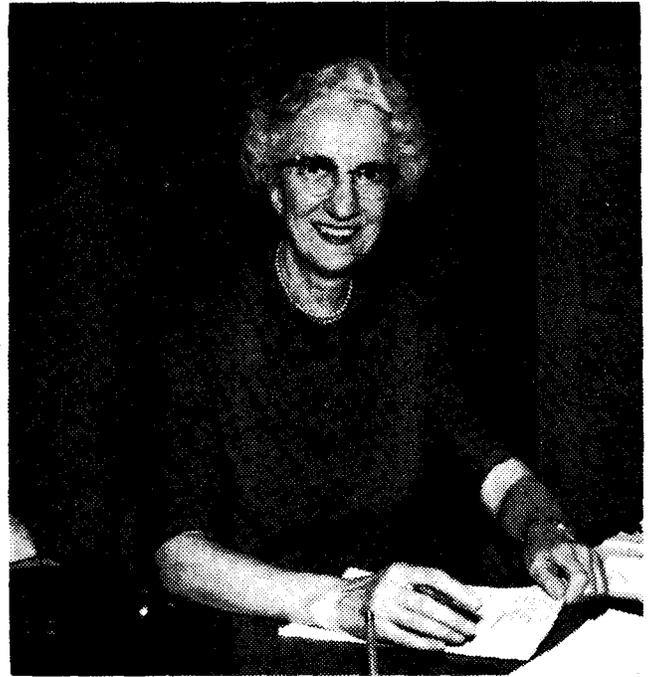
February, 1961



# HAVE YOU MET?

## Viola Stallman

Long familiar with the work of 4-H clubs in the state of Minnesota is Viola Stallman, who has been secretary to the state 4-H club leader on the St. Paul Campus "for many years." She will readily tell you that there are 51,000 4-H Club members in Minnesota. She is the person responsible for sending out awards and scholarships won in various competitions for young 4-H members throughout the state. She likes traveling and one of her most memorable tours was one taken in Washington, D.C., during "cherry blossom time."



## Rueben Nelson

A man well known to students and staff members who park their cars in the 120-car lot near Comstock Hall is Reuben Nelson, who has been the attendant at the lot for three years. A Minneapolitan, Mr. Nelson has worked for the University since 1955. During the time he has attended the lot, Mr. Nelson says he has met people from all over the country and has seen car license plates from "just about every state in the Union." He was formerly a crane operator for the Minneapolis Moline Company, but because of his health, it was necessary for him to do less strenuous work. During the summertime he likes to do a "little gardening" in his back yard and then relax in an easy chair with the evening newspaper.

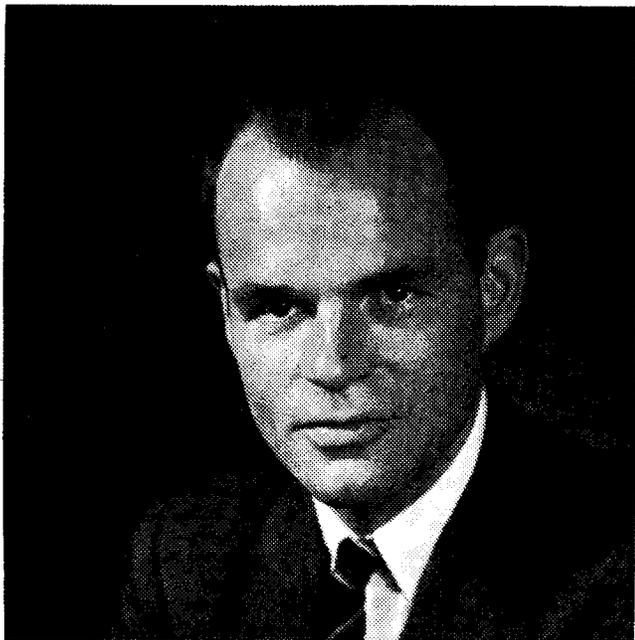


**Evelyn Dick**

A familiar face in the Center for Continuation Study is that of Mrs. Evelyn Dick, who has been dormitory manager at the Center for 24 years. She is in charge of all accommodation reservations for individuals participating in the continuing education courses conducted at the Center. Mrs. Dick has registered many well known personalities. Two whom she particularly recalls are Mrs. Eleanor Roosevelt and Dimitri Mitropoulos. Vacation and traveling are synonymous with Mrs. Dick, and her travels have taken her to many areas of this country, to Europe and to Mexico.

**Gordon Allen**

New sales manager for the University of Minnesota Press is Gordon Allen, formerly of Meriden, Conn. Mr. Allen was associated with several publishing companies before coming to Minnesota and was most recently the southern sales representative for Harcourt Brace Company. He will be University Press's contact with sales representatives around the world and he will personally contact Twin Cities area booksellers. Mr. Allen graduated from Choate School in Connecticut and attended Yale University.



**Bruno H. Green**

New law librarian and professor of law, Bruno Green came to the University this year after completing a one-year Ford Foundation grant studying at the Institute of Comparative Law in Milan, Italy. Previous to that time he was a staff member at the University of Syracuse for seven years. Originally from Austria, where he practiced law, Professor Green holds a doctorate from the University of Vienna. He received his bachelor's degree from Columbia University, and his LL.B. degree from Rutgers University. His daughter, Josephine, is a third-year law student at the University.



**Suzanne Inman**

A 1955 graduate of the University, Suzanne has worked in the SLA college office since that time. Mainly secretary to William J. Buchta, associate dean, her work also involves the registration and processing of programs for University College students and adult specials. She likes to relax with a good book or listen to classical music. However, since she and her husband recently bought a home, her "spare" time has been taken up with interior decorating plans.

# Metallurgy Faculty and Mysteries

**T**HE FAMED SWORDS of Damascus and the man-made satellites circling the globe today may seem to have little in common. But to the metallurgist, they symbolize the history of metallurgy, from its beginning as an art to its present day status as a science necessary to technological progress.

Metallurgy, as practiced by the metalsmiths of ancient Damascus, was the art of forging the steel of the sword blades which produced intricate and beautiful patterns. The great advances in chemistry and physics spurred the development of metallurgy so that today it is a science concerned with metal processing and the development of new metals and alloys.

"During the last decade," said Morris E. Nicholson, head of the Department of Metallurgy, "the metallurgist's understanding of the structure and behavior of metals has grown enormously, and he has developed many new alloys to meet engineering demands. The production of rockets and supersonic aircraft, for example, is dependent on the science of metallurgy."

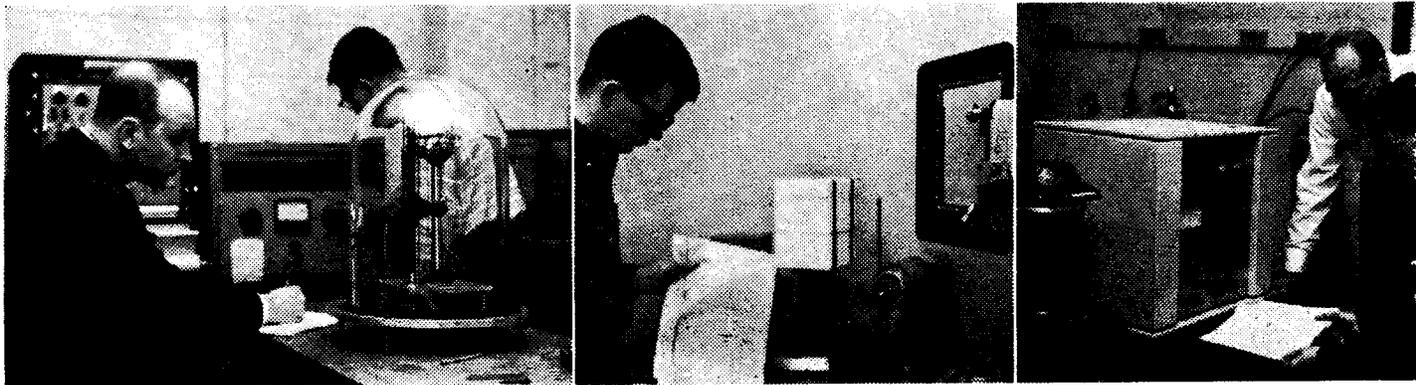
Concurrent with the increasing importance of metallurgy has been the growth of the University's Department of Metallurgy. Formerly part of the division of metallurgical engineering in the School of Mines and Metallurgy, the Department was established in 1956 under the School of Chemistry. Located in the new Mines and Metallurgy Building, the Department's classrooms and laboratories house an ever-increasing amount of new equipment. During the past five years, the United States government alone has given the Department over \$75,000 worth of equipment used mainly for teaching, and another \$15,000 worth of research equipment.

Also within the past five years, the Metallurgy curriculum has expanded more than two-fold and the number of

Mr. Ma study the diffusion of liquid metals using radioactive tracer techniques; and Professor Jerabek uses the metallograph for microscopic examination of metal samples.

Metal samples are made by Metallurgy students in the Department's laboratories. From top to bottom, the molten metal is poured into a mold; after it is cooled, it is rolled to the desired shape; and it is then subjected to heat treatment.

Metal samples are subjected to various tests and analyses. From left to right, Professor Sivertsen and Mr. Chen check changes in metal properties produced by heat treatment; Mr. Sundahl studies the atomic arrangement in metals; Professor Swalin and



# Students Explore the of Metals

graduate students has grown from two to 12.

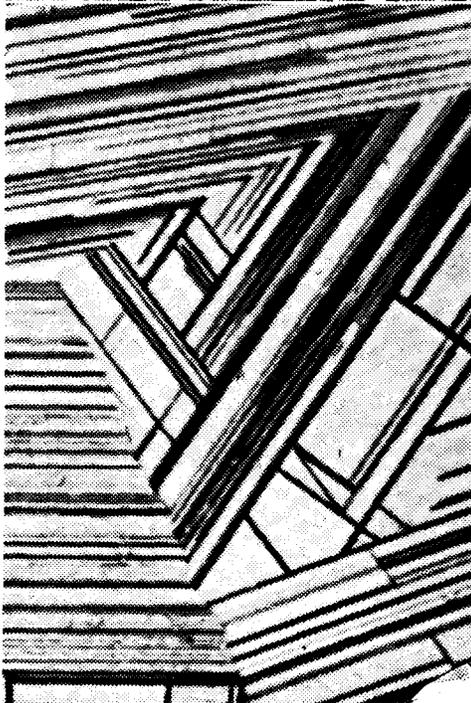
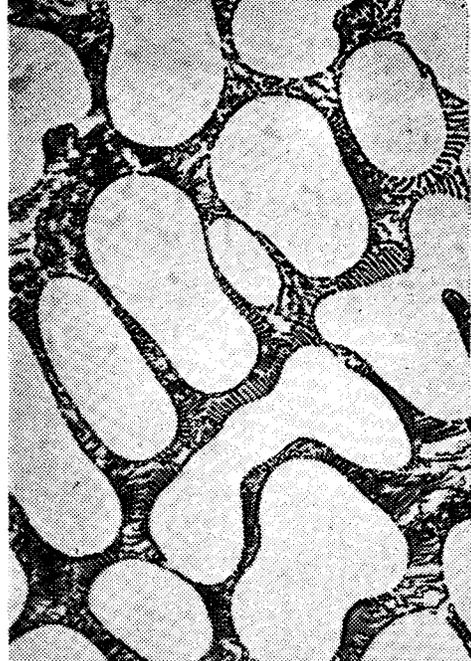
There is considerable demand for metallurgists with graduate degrees, which probably accounts for the fact that one-third of all those majoring in metallurgy at the University are graduate students. And too, says Professor Nicholson, students usually do not become interested in metallurgy until late in their academic careers.

"Early in their careers," said Professor Nicholson, "most engineering students tend to think in terms of end products. Seldom do they think of process developments or the developments in materials, particularly metals, which make possible the production of new items.

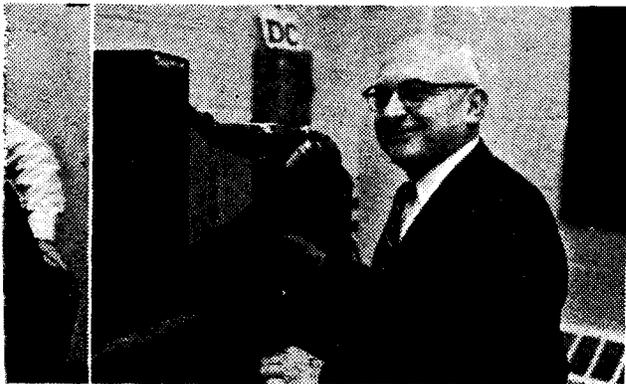
"We've come a long way from the days when students referred to metallurgy as a course in 'heating and beating'. This rather descriptive title was not altogether inappropriate, since much of the student's laboratory work involved heating a metal and forging it to a particular shape.

"Now the whole field of metallurgy is an exciting one. Engineers used to talk about 'sound barriers' and 'heat barriers'. Today, it is more likely to be the lack of suitable materials which holds up the development of a rocket or aircraft. One of the major problems facing the scientists working on the atomic bomb, for example, was a metallurgical one — the development of plutonium. The metallurgist must develop steels and alloys to have certain desired properties in the finished parts; properties such as hardness, wear resistance, heat resistance, and strength."

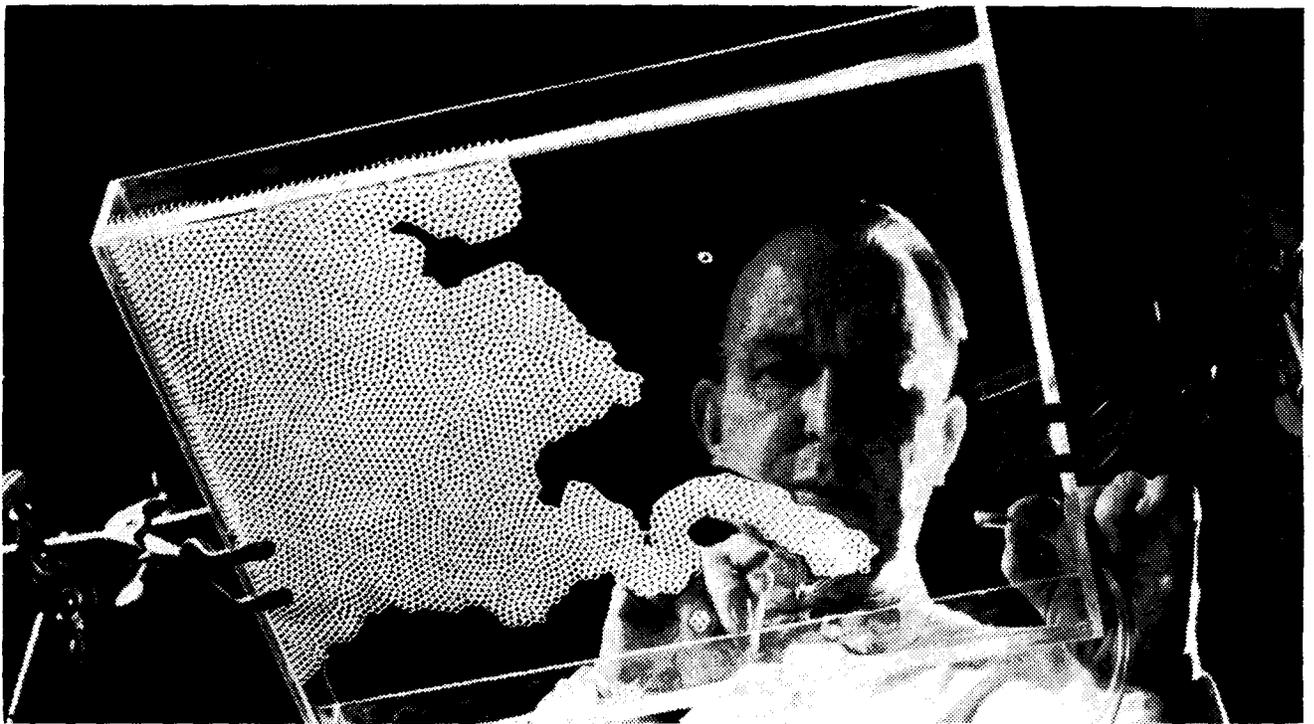
Although it is mainly the field of modern technology which attracts students into metallurgy, the science is not without an aesthetic appeal. When subjected to heat and other treatment, the structures of metals form intricate patterns, pleasing both to the scientist's and to the artist's eyes. Samples of various metals subjected to dif-



Intricate structures of metals, as revealed through the microscope, are shown at right.



February, 1961



Professor Nicholson, using soap bubbles, water, and glycerin, shows how atoms arrange themselves in metal crystals.

ferent treatments are prepared in the Department laboratories by the students themselves.

The formation of the Department of Metallurgy recognized the growing importance of the study of the structure and behavior of metals. Prior to 1956, Metallurgy at the University consisted of two nine-credit sequences offered in the division of metallurgical engineering. These courses were separated from the division and made the basis for building the Metallurgy Department. Metallurgical engineering, still part of the School of Mines and Metallurgy, differs from Metallurgy in that it is concerned mainly with beneficiation — such as the taconite process — and extractive metallurgy — the removal of metal from ores.

In addition to Professor Nicholson, the Department faculty includes Professor Richard A. Swalin; Associate Professors Henry S. Jerabek and Thomas L. Johnston; and Assistant Professor John M. Sivertsen. All, except Professor Jerabek, have come to the University since 1955, and all teach full time except Professor Johnston, who is a staff scientist at the Hopkins Research Center of Minneapolis Honeywell. Graduate students who hold teaching assistantships are James Eriksson, Peter T. Fin-

den, and Robert W. Westerlund. Phyllis D. Frederiksen is the Department secretary.

Professor Nicholson, who came to the University in 1955 from the University of Chicago, recalled the resources and facilities of the Department then as compared to today.

“In addition to having old and out-dated equipment,” he said, “there was no government sponsored research at that time. Now there is better than \$80,000 a year in research supported by the Office of Naval Research and the Atomic Energy Commission. Virtually all of our graduate students have either teaching or research assistantships.”

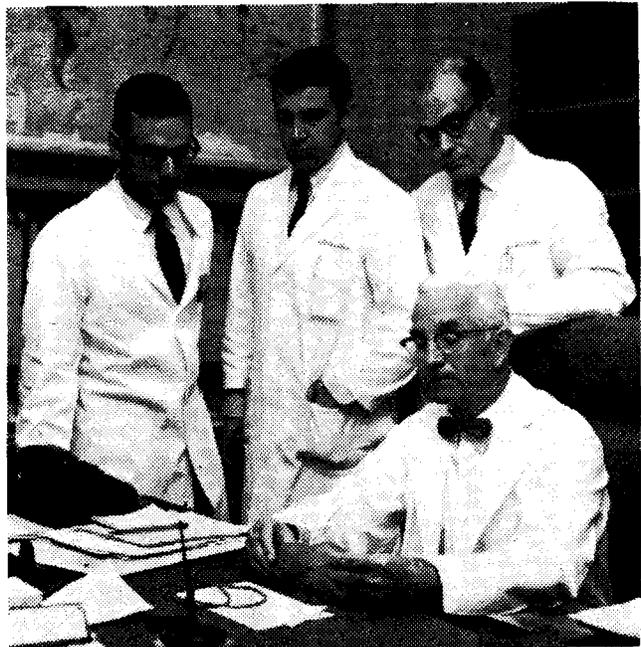
Many of the graduate students assist faculty members with research projects. Professor Swalin is studying atomic defects in semi-conductor materials such as silicon; Professor Sivertsen is interested in what controls the arrangements of atoms in solid solutions; and Professor Nicholson is studying the behavior of certain alloys such as palladium, copper, and nickel, and is also interested in how metals behave when subjected to explosive forces. Assisting the professors are Ching H. Ma, research associate; John W. Ferman, research fellow; and Wei-Kong Chen, Vance G. Leak, William C. Olander, Robert C. Sundahl, Richard D. Weltzin, and Robert W. Westerlund, research assistants.

An electron microscope was added to the Department's laboratories last month. This microscope is a major addition to the research tools with which both faculty members and students are uncovering new knowledge about metals.



“Indispensable to the smooth operation of the Department,” says Professor Nicholson of the Department secretary, Phyllis D. Frederiksen.

# Doctors Develop Diagnostic Test For Gastric Cancer



Checking the balloon radioautograph for results of a diagnostic test are Dr. Wangensteen, seated, and Drs. Ackerman, Santoro, and McFee.

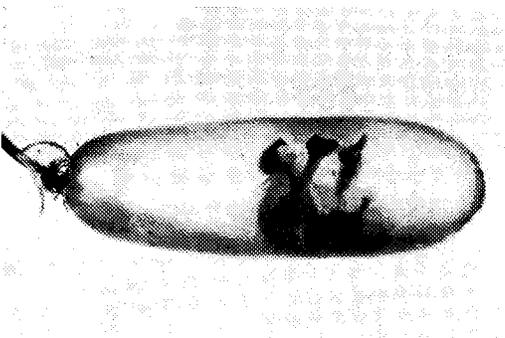
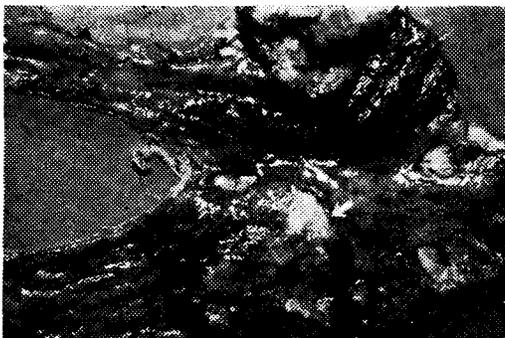
**R**ADIOACTIVE PHOSPHOROUS and balloons coated with photosensitive emulsion are the tools now used by a team of University doctors to detect gastric cancer.

Under the direction of Dr. Owen H. Wangensteen, chairman of surgery, the University doctors have developed a test which has been used successfully to diagnose gastric cancer in over 300 patients.

"There are, of course, several other tests which are very useful in diagnosis," said Dr. Norman B. Ackerman, medical fellow in surgery and one of the doctors working on the test. "But some cancers are difficult to detect, and we are hopeful that this test will prove successful in these cases. There is also the possibility that the test will prove successful in diagnosing gastric cancers in their early stages. This would be extremely important since early diagnosis is a major factor in obtaining higher cure rates in cancer of the stomach."

Development of the test using balloons and radioactive phosphorous ( $P^{32}$ ) grew out of studies, begun in 1940, of the reaction of the body to  $P^{32}$ . Among those conducting the studies was Dr. George E. Moore, then surgical interne at the University Hospitals and now director of Roswell Park Memorial Institute, Buffalo, N.Y., one of the nation's leading cancer institutes. Dr. Moore found that the chemical, fluorescein, was absorbed in greater amounts by cancerous tissue than by normal tissue.

Then Dr. Komei Nakayama from Japan, visiting the University in 1955, told University doctors about diagnostic tests he had performed using radioactive phosphorous. He first injected the patient with  $P^{32}$  and then passed a small Geiger tube through the patient's mouth



Top photo: Stomach with cancer removed at operation. Bottom photo: Balloon radioautograph of stomach, positive for cancer.

into his stomach in an effort to detect a concentration of  $P^{32}$  which would indicate the presence of cancerous tissue.

"University doctors tried this technique," said Dr. Ackerman, "but the results did not appear promising and seemed to offer little."

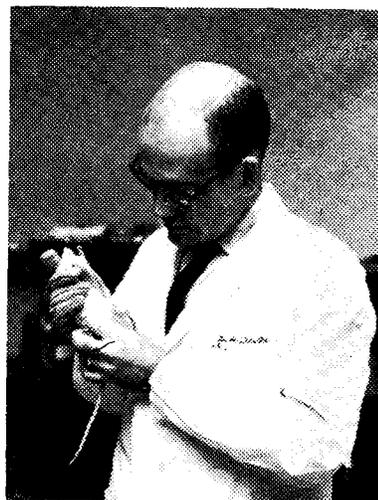
An actual radioautograph (a picture of radioactivity obtained on an X-ray film) was obtained in 1956 by Dr. Donald Shahon, until recently the director of the University's Cancer Detection Center. At the time of surgery, Dr. Shahon took tissues of patients who had been injected with  $P^{32}$  and placed them in contact with X-ray film. In every case, the cancer, since it had absorbed more  $P^{32}$ , was shown on the X-ray film.

The question then arose: would it be possible to obtain a radioautograph before surgery?

Dr. Wangensteen had developed the technique of placing balloons filled with cold water in the patient's stomach to stop bleeding. This suggested to him the possibility that if the balloon were like an X-ray plate, it could be used to detect gastric cancer.

Under the direction of Dr. Wangensteen, Drs. Ackerman and Arthur S. McFee and Benjamin T. Santoro, medical fellows, began to develop a diagnostic test using a balloon and  $P^{32}$ . Alvin Shemesh, medical illustrator and then Head of the University Department of Medical Art and Photography; his staff; and the Eastman Kodak Company cooperated with the doctors in developing a special latex base photosensitive emulsion which could be applied to the inside of the balloon and would expand and contract with the balloon.

In performing the test, the patient is first injected with radioactive phosphorous. Twelve to 24 hours later he is taken to a darkroom where the balloon, fastened to a stomach tube, is inserted through his nose into his stomach. The balloon is then inflated with air so that it takes the shape of the stomach. Four hours later the patient is returned to the darkroom and the balloon is removed. If cancerous tissue is present, the resulting radioautograph will show the area or areas of heavy concentration of  $P^{32}$ .

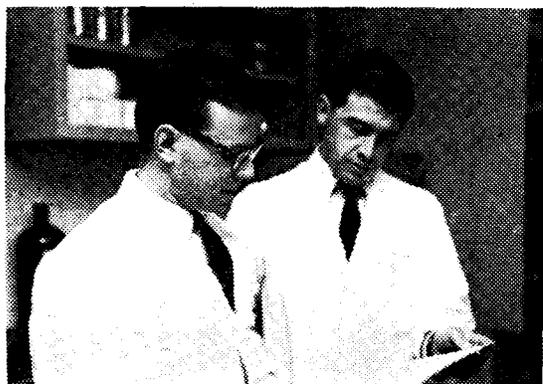


White rats are used by the doctors in their research. Here Dr. McFee examines a rat which has a cancerous tumor.

The success of the balloon and  $P^{32}$  diagnostic test was reported by the University doctors at the April, 1960, meeting of the American Surgical Association, and at the fourth National Cancer Conference held at the University this year.

In a laboratory in the VFW Cancer Research Center, the doctors, assisted by Jean Kreykes, senior laboratory technician, are investigating the theoretical aspects of the test as well as other possible applications of  $P^{32}$  in the detection of cancer. Working with the Eastman Kodak Company, they hope to adapt this type of test to detect cancer in other parts of the body.

The initial studies were supported by the Minnesota Division of the American Cancer Society, and currently, the research is supported by the Atomic Energy Commission and the national American Cancer Society.



Drs. Ackerman and Santoro study the results of an application of one of the clinical tests.



Assisting the doctors in their research is Jean Kreykes, laboratory technician.

# Have You Heard?

## Staff Appointments and Elections

• Three School of Social Work faculty members served as United States representatives on international commissions during the International Conference of Social Work in Rome, Italy, in January. Attending the Conference were JOHN C. KIDNEIGH, director of the School of Social Work; and WERNER W. BOEHM and GISELA KONOPKA, professors of social work.

• LORENZ G. STRAUB, director of the St. Anthony Falls Hydraulic Laboratory, has been reappointed for a six-year term of membership on the United States Beach Erosion Board. He is one of three civilian members of the Board which has its headquarters in Washington, D.C. The Board is concerned with investigations and studies of devising effective means of preventing erosion by waves and currents of the shores of coastal and lake waters on the Atlantic, Pacific, and Gulf coasts and on the Great Lakes and in Territories of the United States.

• WALTER W. COOK, dean of the College of Education, and RALPH F. BERTIE, director of the Student Counseling Bureau, have been named to the 1963 yearbook committee of the National Society for the Study of Education. This committee plans the Society's annual yearbook on American education, widely distributed in American schools and libraries and used in education and related fields. The 1963 yearbook will be on the topic of school testing programs.

• ROBERT W. BRIDGES has been named business manager at the University of Minnesota at Duluth. He succeeds the late Earl H. Hobe.

Mr. Bridges served as an engineer in the Physical Plant Department on the Minneapolis Campus from 1946 to 1951. He went to Duluth in 1951 to take charge of the physical plant at a time when the new UMD Campus was in its early stages of development. Since 1954, Mr. Bridges has served as principal engineer at UMD.

• DR. VICTOR JOHNSON, director of the Mayo Foundation, attended the Conference on Latin-American Medical Education held in Uruguay from Nov. 28 to Dec. 2. He was one of the representatives of the Association of American Medical Colleges and of the World Medical Association. He is a member of the board of directors of the World Medical Association.

• Eight University faculty members appeared on the program of the 50th convention of the National Council of Teachers of English. HAROLD B. ALLEN, professor of English, presided at a meeting on "Scholarship in Linguistics;" DORA V. SMITH, professor emeritus of education, presided at a meeting on the English curriculum and was also a program speaker; and GUY L. BOND, professor of education, presided at a meeting devoted to "Reading in the Atomic

Age" and was also a program speaker.

Other University speakers were: WILLIAM VAN O'CONNOR, professor of English; NAOMI C. CHASE, assistant professor of education; DANIEL V. BRYAN, associate professor in interdisciplinary studies; STANLEY B. KEGLER, assistant professor of education; and JOHN S. SIMMONS, instructor in University High School.

*(continued on page 14)*

## Walter W. Heller Is Named Chairman Of the Council of Economic Advisers

President John F. Kennedy has named University Professor Walter W. Heller chairman of the influential Council of Economic Advisers. Professor Heller is chairman of the University's Department of Economics.

The Council analyzes the national economy, advises the President on economic developments, appraises the economic programs and policies of the federal government, and recommends to the President policies for economic growth and stability.

President Kennedy, in announcing the major appointment, called Professor Heller "one of the country's most distinguished economists, with broad interests in the public policy problems facing the United States."

Professor Heller, who joined the University faculty in 1946, has served government in a variety of assignments. He was a United States treasury fiscal economist from 1942 to 1946, helping to install the federal income tax withholding system. He has been an adviser to the U.S. military government in Germany, a consultant to the secretary of interior's defense production staff during the Korean War, and a tax adviser to former Governor Orville L. Freeman.



Walter W. Heller

During the past summer, he served on the Ford Foundation Commission on Taxation and Fiscal Policy, an advisory group to King Hussein and the Jordanian Royal Fiscal Commission in tax and fiscal reforms.

Born in Buffalo, N.Y., Professor Heller spent most of his youth in Milwaukee, and received his A.B. degree from Oberlin College and masters degree and Ph.D from the University of Wisconsin. His wife, Emily, also has a Ph.D from the University of Wisconsin. They are the parents of three children — Walter, 18, a freshman at Oberlin; Eric, 14; and Kaaren, 12.

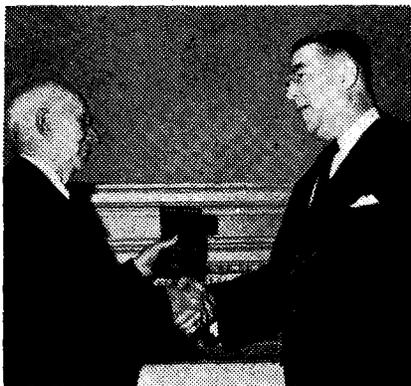
(continued from page 13)

• HAROLD B. ALLEN, professor of English, was elected president of the National Council of Teachers of English at the organization's 50th annual convention in November. Professor Allen served as second-vice president in 1957 and as first-vice president this past year.

• L. EDWARD SCRIVEN, assistant professor of chemical engineering, received the A. P. Colburn Award of the American Institute of Chemical Engineers for a paper setting forth new mathematical developments in fluid mechanics.

The paper was written by Professor Scriven and C. V. Sterning, chemical engineer for the Shell Development Company, California. The Award was presented jointly to the two men.

The Award, consisting of a certificate and a plaque, is presented to the author or authors of outstanding papers published by the Institute. Professor Scriven's paper developed a mathematical model to explain the mechanism of transfer of a solute between two different fluids or between a fluid and a gas.



Clyde H. Bailey, left, dean emeritus of the Institute of Agriculture, receives the 1960 Charles F. Spencer Award from C. Y. Thomas, chairman of the board, Spencer Chemical Company. The Award, given for outstanding achievement in agricultural and food chemistry, was made at the Fall Chemical Conference sponsored by the Kansas City Section of the American Chemical Society. The Award was established by the late Kenneth A. Spencer, in memory of his father. It consists of a medallion and \$1,000 honorarium.

• MAYNARD C. REYNOLDS, professor of education, has been named a member of a committee of the Council for Exceptional Children. He will work with the National Institute of Mental Health in planning a study of school programs for emotionally disturbed and socially maladjusted children.

### Research and Scholarship Grants

• The Minnesota Medical Foundation, a non-profit organization which provides private financial support to the University's Medical School, received a \$1,500 grant for heart and cancer research from Schwan's Ice Cream Company of Marshall, Minn., in behalf of the firm's customers.

This is the fifth year the company has contributed to medical research at the University as a Christmas gift to its customers.

• The University has received a \$1,000 scholarship fund from the H. W. Wilson Foundation, Inc., to be awarded to a student for study in the Library School in the 1963-64 school year. Minnesota is one of 32 institutions which were awarded \$1,000 scholarships each by the Foundation in order to further recruitment for professional librarians, according to Howard Haycraft, president of the Foundation and of the H. W. Wilson Company.

• The University has received a \$21,400 grant from the National Science Foundation for a two-year continuation of research on a new electrode introduced by the University's analytical chemistry division. IZAAK M. KOLTHOFF, division head, directs the study which is entitled "Fundamental Polarographic Studies at the Rotated Dropping Mercury Electrode."

• DR. BYRL J. KENNEDY, associate professor of medicine, has been awarded a \$20,063 American Cancer Society Grant for research on "The Role of 5-Fluorouracil Therapy in the Treatment of Breast Cancer Refractory to Hormone Therapy." The term of the grant is from November, 1960, through August, 1961. Working with Dr. Kennedy on this research project is DR. JOHN F. FOLEY, Graduate School fellow in internal medicine.

• BURTON STEIN, assistant professor of history, has received a Fulbright grant to conduct research in the economic history of South India. His study of the economic and social history of South India before the British control will be carried on during the 1961-62 academic year at Madras University, India.

### Regents Scholarship Winners

Winners of Regents Scholarships for winter quarter day school, are:

DONALD E. BATTLES, principal laboratory attendant, Surgery; AUSTRIE E. CERS, junior engineer, Aeronautical Engineering; JUNE B. CHECKLUND, library assistant, Math-Physics Library; MYRNA ANN COMNICK, head hospital nurse, University Hospitals; MILDRED DEWEY, head hospital nurse, University Hospitals; KAY L. DRAVES, student technologist supervisor, Hospital Laboratory Service; DIXIE LEE FREESE, assistant head hospital nurse, University Hospitals; MARJORIE J. GERLICH, Agricultural Experiment Station assistant; PATRICIA HAGA, senior clerk, Library; and AVIS K. HATCH, psychometric assistant, Student Counseling Bureau.

LAWRENCE A. HOLMBERG, operating engineer, Duluth Physical Plant; BARBARA F. JACKSON, student technologist supervisor, Hospital Chemistry Laboratory; CAROLE M. JOHNSON, secretary, Political Science; ALDEN E. KLUNGES, junior scientist, Hospital Chemistry Lab; ALTON L. KOLLMANN, bookstore manager, Coffey Hall Bookstore; IRENE B. KRAFT, clerk, Student Counseling Bureau; PATRICIA C. LEE, laboratory technologist, Veterinary Physiology; JEAN D. LINDLEY, principal secretary, Laboratory Medicine; ALAN F. MAHLER, student pharmacist supervisor, Pharmaceutical Chemistry; LADONNA M. MOSSEFIN, administrative secretary, Dean of Students Office; MYRTLE L. MYERS, general staff nurse, University Hospitals; and ELAINE M. PITTELKO, bookkeeping machine operator, Plant Services.

EILEEN D. RIORDAN, head nurse, Professional Patient Care; KATHRYN L. SMITH, junior scientist, Veterinary Medicine; JUNE B. STEIN, student personnel worker, Student Counseling Bureau; JOANN L. STUART, senior clerk-typist, Civil Service Personnel; LAURA R. SWENEY, laboratory technologist, Anatomy; HUBERT J. THIBODEAU, junior engineer, Plant Services; RHODA A. THORESON, general staff nurse, University Hospitals; and DORIS M. TONSBURG, head hospital nurse, University Hospitals.

Staff members winning Regents Scholarships for winter quarter in the General Extension Division are:

BETTY M. ANNEKE, senior secretary, Education and Psychology at Duluth; JUDITH ECKHOLM, senior secretary, Social Sciences at Duluth; BARBARA L. KNIGHT, senior secretary, Psycho-Educational Clinic; DAVID E. KNOPS, senior account clerk, State Organization Service; MILDRED B. RICCI, senior secretary, Physics; and IMOCENE L. ROLFE, senior secretary, General Extension Division at Duluth.

# REGENTS' SCHOLARSHIPS

## are available to Civil Service personnel

**T**HE REGENTS' SCHOLARSHIP PROGRAM awards scholarships to full time Civil Service employees of the University. Scholarships awarded for daytime classes permit the employee to take time off during the day to attend tuition free classes. In addition, scholarships are also awarded for tuition free extension classes or night school.

### Number of Scholarships Increased

The Program, administered by the Training Division of the Office of Civil Service Personnel, was established 21 years ago by a resolution of the Board of Regents. At that time, in 1939, 20 scholarships were available for daytime classes only. By 1958, the Regents had increased this number to 100, and added 30 extension scholarships for evening classes. The number of daytime scholarships awarded since 1939 totals 1,203. In the past two years, 58 extension scholarships have been awarded.

Approximately 30 of the day school scholarships are available in each of the fall, winter, and spring academic quarters every school year. Unused scholarships are available for the following summer sessions. The 30 extension scholarships are divided between the two evening school semesters.

### Applications for Scholarships

Applications for Regents' Scholarships may be submitted at any time. The deadline date is always a month before the quarter begins. Application blanks, obtained from departmental offices or in 302 Johnston Hall, are processed through the department head and dean to the personnel office.

February, 1961

Any full time employee may apply for a scholarship, although awards are not usually made during the probationary period, unless completion of a course of study may materially affect the employee's ability to successfully complete the first six months of work.

Early applications for summer session scholarships are especially invited so that the number to be reserved may be estimated as far in advance as possible. The scholarship is awarded only for the specific course requested, and up to six credits may be taken (not over six hours of classroom or laboratory work per week). Only in very exceptional cases are scholarships awarded for more than one course at a time.

### Selection of Applications

The Training Division, under the direction of Frank Pieper, training coordinator, screens all scholarship applications.

The final decisions are made by the Civil Service Committee, composed of six University academic and Civil Service staff members. The Committee includes James W. Stephan, associate director, course in hospital administration, chairman; Ray F. Archer, director, insurance and retirement; Clarence L. Cole, head of dairy husbandry; John G. Turnbull, professor of economics; and Richard C. Jordan, head of mechanical engineering.

Final choice is made on the basis of usefulness of the course to the employee's work record, and his previous grade record. Also considered is the employee's term of service to the University.

Courses must be taken for credit, not audited. Scholarship holders pay no tuition or incidental fees, but do pay special charges or laboratory fees and deposits.

# University of Minnesota Calendar of Events

## FEBRUARY, 1961

### MINNEAPOLIS SYMPHONY CONCERTS

#### Subscription Series

Northrop Auditorium, 8:30 p.m.

February 3—Zino Francescatti, violinist.  
February 10—Gina Bachauer, pianist, and the Macalester College Choir directed by Ian Morton.

February 17—Modern Jazz Quartet.  
February 24—Gary Graffman, pianist.  
(Single tickets \$3.00 to \$4.50. Reservations may be made at 106 Northrop.)\*

#### Twilight Concerts

Northrop Auditorium, 4:30 p.m.

February 5—"Trial by Jury" by Gilbert and Sullivan.

February 19—New Sounds in Music—Brant, Ussachevsky, Moussorgsky-Ravel.  
(General admission \$1.25. Sale of tickets opens at the Northrop Box Office at 3:30 p.m. on the day of the concert.)

### UNIVERSITY ARTISTS COURSE CONCERTS

#### Celebrity Series

Northrop Auditorium, 8:30 p.m.

February 14—Andahazy Ballet Borealis.  
February 28—Andres Segovia, classical guitarist.

(Single tickets for either concert \$1.50, \$2.50, \$3.00, \$3.50. Reservations may be made at 105 Northrop.)\*

#### Special Concerts

Northrop Auditorium

February 7, 8:30 p.m.—"The Limelinters."  
February 11, 8 p.m.—"Parade of Quartets."

(Single tickets for either concert \$1.50, \$2.50, \$3.00, \$3.50. Reservations may be made at 105 Northrop.)\*

February 12, 8 p.m.—"Brotherhood Week Concert," with the Hazonir Choral Society of Beth-el Synagogue, St. Mary's Russian Orthodox Catholic Church Choir, St. John's Abbey Schola, and the Central Lutheran Church Choir.  
(No admission charge.)

February 16, 8:30 p.m.—Ivan Davis, pianist.  
(Admission by invitation.)

February 18, 8:30 p.m.—Minneapolis Symphony Orchestra and the University Chorus.

### CONVOCATIONS

Northrop Auditorium, 11:30 a.m.

(unless specified)

February 2—"The Boor" by Dominick Argento, presented by the University Opera Workshop.

February 2—"UNESCO's Service to the World" and "UNESCO and Its Relations with the Citizen of the United States," lectures by William S. Dix, chairman, and Ray Murphy, vice chairman,

United States National Commission for UNESCO.

(Mayo Memorial Auditorium, 8 p.m.)

February 16—Brotherhood Week. Program to be announced.

### UNIVERSITY THEATER PRODUCTIONS

#### Regular Productions

Scott Hall Auditorium

February 1-3, 8 p.m.; February 4, 6:30 and 9:30 p.m.; and February 5, 3:30 p.m.—*Desire Under the Elms* by Eugene O'Neill.

February 23-24, March 1-3, 8 p.m.; February 25 and March 4, 6:30 and 9:30 p.m.; and February 28 and March 5, 3:30 p.m.—*The Merchant of Venice* by William Shakespeare.

(Single tickets for either play \$1.50 on sale at the Scott Hall Box Office.)\*

#### Arena Theater Production

Shevlin Hall Arena Theater

February 10, 13, and 14, 8 p.m.; February 11, 6:30 and 9:30 p.m.; and February 12, 3:30 p.m.—*In The Cage* by William Van O'Connor.

(Single tickets \$1.00 on sale at the Scott Hall Box Office.)

### SIGNIFICANT UNIVERSITY BROADCASTS

#### KUOM, 770 on the dial

Monday, 4 p.m.—"The Dawn of Africa," a series of talks on the history of Africa and its peoples.

Tuesday, 4 p.m.—"Let It Be Said," a series using non-musical recordings from the KUOM library.

Thursday, 4 p.m.—"Medical Research," documentary programs on the role of medical research in combating threats to our nation's health and welfare.

Saturday, 4:30 p.m.—"Minnesota Theater of the Air," full length dramatic productions.

### MUSEUM SUNDAY PROGRAMS

Museum of Natural History Auditorium, 3 p.m.

February 5—"International Nature Salon Color Photos."

February 12—"Winter Birds at Your Window."

February 19—"The Hunters."

February 26—"Birds of Minnesota's Wetlands."

### UNIVERSITY GALLERY EXHIBITIONS

Through March 7—"The Eighteenth Century: One Hundred Drawings by One Hundred Artists."

### MUSIC DEPARTMENT EVENT

Scott Hall Auditorium, 8:30 p.m.

February 9-11—Donizetti's "Il Campanello"

and Argento's "The Boor," presented by the University Opera Workshop.  
(General admission charge \$1.00.)

### FEBRUARY UNIVERSITY OF MINNESOTA PRESS PUBLICATION

*Sumerian Economic Texts from the Third Ur Dynasty: A Catalogue and Discussion of Documents from Various Collections* by Tom B. Jones and John W. Snyder. \$10.00.

### ATHLETIC DEPARTMENT EVENTS

#### Home Basketball Games

Williams Arena, 8 p.m.

February 4—Illinois.

February 11—Michigan.

February 25—Iowa.

(Single game reserved tickets \$2.00. Mail order sales close one week prior to each game. General admission tickets at \$1.25 for adults and \$1.00 for individuals under 16 on sale at gate only.)\*

#### Home Hockey Games

Williams Arena, 8 p.m.

February 17—Michigan Tech.

February 18—Michigan Tech.

(Single game reserved tickets \$1.75. General admission tickets at \$1.00 for adults and \$.75 for individuals under 16 on sale at gate only.)\*

(Over-the-counter ticket sales for both hockey and basketball games begin the Monday before each game at 108 Cooke Hall.)\*

#### Gymnastics

February 4—Indiana. (Williams Arena, 9:30 p.m.)

February 11—Northwest Open Meet. (Cooke Hall, 1 p.m.) Air Force-Illinois-Minnesota. (Cooke Hall, 3 p.m.)

#### Swimming

Cooke Hall

February 4, 2 p.m.—Wisconsin.

February 4, 4 p.m.—Alumni.

February 10, 8 p.m.—Iowa.

February 11, 3:30 p.m.—Ohio State.

#### Track

Field House

February 4, 2 p.m.—Northwestern.

February 11, 1 p.m.—Open Meet.

February 25, 2 p.m.—Iowa.

#### Wrestling

Williams Arena

February 2, 7:30 p.m.—Cornell.

February 4, 2 p.m.—Michigan.

February 10, 2 p.m.—Iowa State Teachers College.

February 18, 1 p.m.—Purdue-Wisconsin-Indiana.

(Tickets for gymnastics, swimming, track, and wrestling at \$.60 for adults and \$.25 for individuals under 16 on sale at gate only.)

Unless otherwise noted, events are open to the public without charge.

\*Tickets for these events are also available at the Field Schlick Ticket Office, St. Paul, and the Downtown Ticket Office, 188 Northwestern Bank Building, Minneapolis, on Monday of the week prior to the performance.

# THE MINNESOTAN



# THE UNIVERSITY OF MINNESOTA MACE

**A** TRADITION WAS BORN at the University of Minnesota on February 23 at the inauguration of President O. Meredith Wilson. A Mace of simplicity and beauty was handed to President Wilson, thus symbolizing, with dignity and ceremony, the conferring of authority and responsibility upon a new University president.

The new Mace, made of gleaming, highly polished aluminum and crystal, is truly a University of Minnesota Mace—designed by a University art professor and produced almost entirely on the Campus, in University shops and by University craftsmen. It bears little resemblance to its predecessor of the Middle Ages—a weapon of iron or steel capable of breaking through armor. It is, like the other maces used today in church ceremonies and by universities, a symbol of authority, and its crystal sphere is symbolic of the illuminating quality of knowledge and education.

Although an institution with a proud past and many strong traditions, the University for 110 years had been without a ceremonial symbol of presidential authority. Philip G. Morton, associate professor of art, was asked to design a mace which could be used at the inauguration of President Wilson and in all of the academic ceremonies in the life of this University.

Professor Morton responded enthusiastically. "I was happy to have the opportunity," he said. He drew two sketches—one of a contemporary design and one of a more traditional design. The contemporary design was selected, both because it was simpler to produce and also because it seemed to be particularly appropriate for the University.

"I chose aluminum for the handle and crystal for the sphere," said Professor Morton. "The star on top of the sphere is the North Star, symbol for the State of Minnesota. As far as I could discover, the University had no particular symbol except the Gopher, which didn't seem quite appropriate."

The Mace handle was produced in the University Machine Shop by Alfred E. Laurence, shop foreman, and Ray E. Duemke, maintenance machinist.

"It was something we had never done before and we found it challenging and interesting," said Mr. Laurence. "We turned it out on a machine lathe from a single piece of aluminum, but much of the detail work had to be done by hand."

The crystal sphere was produced in California and is the only "foreign" part of the Minnesota Mace.

The aluminum North Star and the star-shaped mounting for the sphere were produced in the Sheet Metal Shop by Wallace Gustafson and Joseph J. Hogen, sheet metal workers, under the supervision of Walter H. Bornman, foreman.

"We had never done anything of this shape before," said Mr. Bornman. "It took a great deal of precision work and we found it very absorbing and interesting. I am particularly proud of the skill of our University craftsmen which could produce this lovely Mace on the Campus."

An enameled seal of the University, mounted on the Mace handle, was obtained from Josten Manufacturing Company, Owatonna.

A walnut carrying case and walnut table on which to place the case were made in the Carpenter Shop by William J. Edin, foreman, and Harold Thorpe and Wayne Stein, carpenters. A cradle inside the case supports the Mace and can be removed for display purposes.

When not in use, the Mace probably will be kept in the President's office, although as yet, this is still undetermined.

## On the cover . . .

is the new University of Minnesota Mace, designed for the inauguration of President Wilson. See article above.

Cover photo by Alan Ominsky.

Vol. XIV

No. 6

## THE MINNESOTAN

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

William L. Nunn, Director

Beverly Sinniger ..... Editor  
 Jo Anne Ray ..... Associate Editor  
 Advisory Committee: Members of the University Public Information Council.

*The Minnesotan* will be published monthly October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2.00 a year, 25 cents a copy.

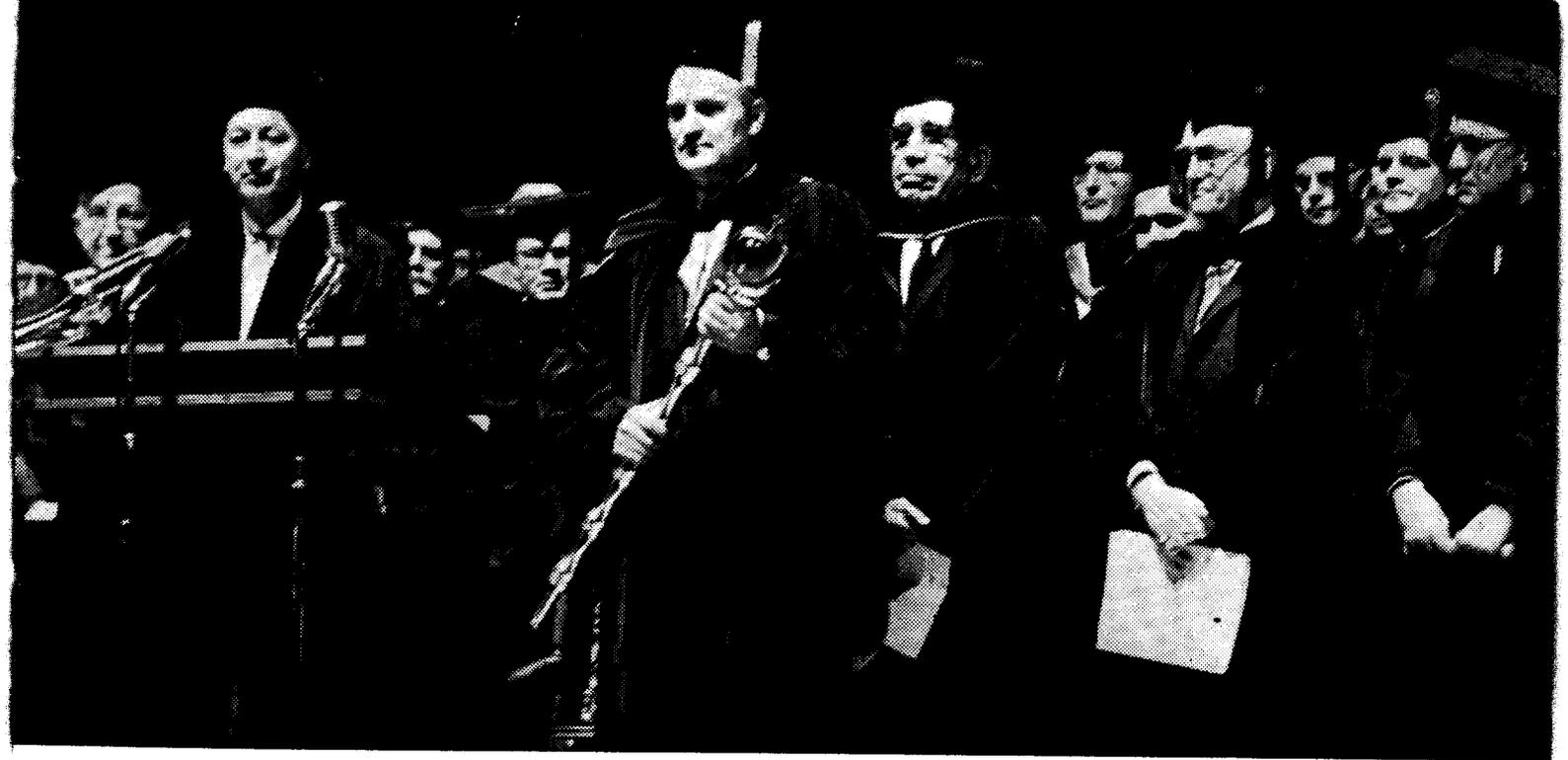
Photographs, unless otherwise credited, were taken by members of the University Photographic Laboratory.

Second-class postage paid at Minneapolis, Minnesota.

Left to right, Professor Morton and Mr. Duemke look over the original drawing; Mr. Laurence and Mr. Duemke check the completed Mace handle; Mr. Hogen polishes the star-shaped

mounting as Mr. Bornman and Mr. Gustafson watch; and Mr. Stein, Mr. Thorpe, and Mr. Edin are shown with the nearly completed carrying case and table.





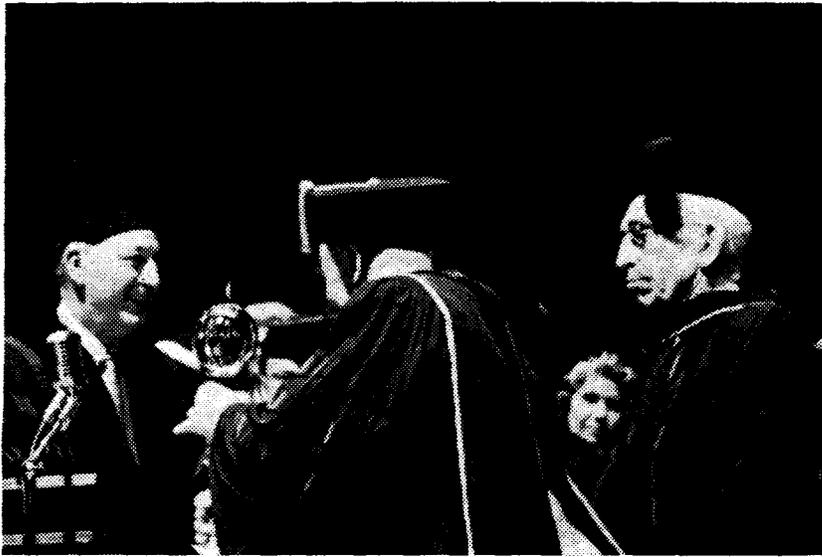
Holding the Mace, President Wilson is saluted with trumpet fanfare. Pictured with him in the front row are Governor Andersen, Regent Quinlivan, Vice President Willey, and Professor Nier.

THE UNIVERSITY  
INAUGURATES ITS  
NINTH PRESIDENT

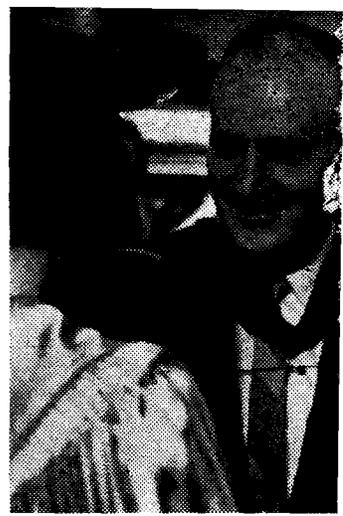


President Wilson, on his way to the ceremony inaugurating him as the University's ninth president.

*(Photos by Alan Ominsky)*



Highlight of the ceremony — Governor Andersen, at the request of Regent Quinlivan and on behalf of the people of Minnesota, presents the Mace to President Wilson.



## INAUGURAL PICTURES

*Time did not permit including complete coverage of the Inauguration in this issue of THE MINNESOTAN. Additional pictures and copy will be published in the April issue.*



Academic procession mounts the steps to Northrop.

Some of the close to 1,000 guests who attended the inaugural dinner in the Main Ballroom of Coffman Memorial Union.





Student marshal helps President Wilson adjust his robe and tassel before academic procession begins.



President and Mrs. Wilson at the reception in the Campus Club following the ceremony.

Mace bearer, Professor Alfred O. C. Nier, leads the academic procession.



Professor Nier leads the recession from Northrop Auditorium.



*Training Students for the Field  
Of Specialized School Services  
Is Prime Function of*

## THE PSYCHO-EDUCATIONAL CLINIC

**A**T AGE 18, DAVID A. had completed eleven and one-half years of school and had had difficulty reading for 11 of those years. A discipline problem at school, he was expelled from a Twin Cities area high school and continued to live at home, unwilling to apply for a job because "they would find out I can't read."

David's case is extreme, but there are many elementary and secondary school children who have difficulty learning to read, and the education and guidance of these students require teachers with highly specialized training.

At the University of Minnesota, the

Psycho-Educational Clinic of the College of Education serves as an invaluable training and instruction facility for graduate students who plan to enter the field of specialized school services and become, for example, remedial teachers or school psychologists.

The Clinic offers four graduate courses taught by Bruce Balow, director of the Clinic, and his staff of Clarence Wesenberg, instructor, and Margaret C. Mikkelsen, research assistant.

Students enrolled in these courses work with elementary and high school students like David A. who are re-

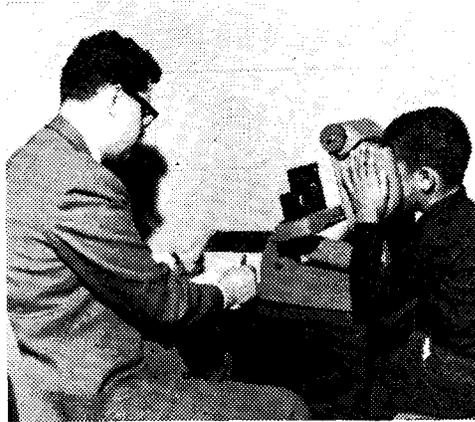
ferred to the Clinic because they have learning difficulties, mainly in reading but also in other subjects such as arithmetic, spelling, etc. Cases involving educational guidance of handicapped children and school readiness problems are also referred to the Clinic. And sometimes, parents of exceptionally bright children seek the Clinic's help in meeting the particular challenges involved in educating and guiding the gifted child.

Data obtained from all these cases are used by the Clinic staff for research.

The Clinic is concerned only with the area of educational psychology and closely allied disciplines and has no personnel trained in the fields of medicine, psychiatry, social work, or speech pathology. Generally, it limits itself to the study of children in whose cases school personnel can be expected to carry the most active role in rehabilitation. Many of the children referred to the Clinic have emotional or personality problems in some degree, but cases of primary personality or behavior problems are not accepted. Sometimes the Clinic does act as a screening station — that is, it makes brief studies as a basis for considering whether the child should be referred to other agencies.



Bruce Balow, director of the Psycho-Educational Clinic, and his secretary, Barbara L. Knight.



Left: Clarence Wesenberg gives hearing and vision tests; below: Margaret Mikkelsen administers an intelligence test. Posing as children referred to the Clinic are students in the University Elementary School.

Most children are referred to the Clinic by both the parents and school. However, some cases are referred by physicians, social workers, welfare agencies, etc. But in all cases, both the parents and a professional person (usually a school official) must agree to and participate in the referral.

Diagnosis of a child's difficulty is made through interviews with the child and his parents and through extensive testing—including intelligence and personality tests, tests in basic school subjects, and screening tests for vision and hearing difficulties. Graduate students enrolled in Clinic courses administer some of the tests, under supervision of Clinic staff members, and assist in diagnosing each case.

"A major role of the Clinic staff is supervising and working with the graduate students," said Professor Balow. "At the beginning of the term, the staff takes the initiative in diagnosing cases, but our goal is that as the term progresses and the students gain experience and confidence, they will be able to take the initiative and we can 'look on' as they make the diagnosis."

Graduate students also prepare a full report of findings, interpretations, and recommendations which is given to the referring agency or person (usually a school official). No

written reports on diagnosis are given to parents, but major results are summarized in the final interview.

The Clinic offers remedial services only after a diagnosis is made, and then only in cases where its facilities seem definitely suited to the needs of the child.

During the summer, the Clinic adds about five members to its staff and operates a ten-week Remedial Reading School in conjunction with a course in "Clinical Practices in Remedial Teaching". Children attend two hours a day, five day a week, and are divided into four classrooms with a Clinic staff member in charge of each class. Graduate students work with individuals and small groups under the supervision of a Clinic staff member.

Detailed daily records are maintained on all children enrolled for remedial work and periodic reports are sent to the schools.

In the case of David A., the Clinic recommended that an intensive remedial program be arranged for him. He was so extremely disabled in reading that neither classroom teachers nor school remedial services could offer him the help that he needed. He started a high school remedial program but was so deficient in skills that even this special program could not help him and he was asked to seek



help elsewhere.

The Clinic made arrangements to tutor David for three hours each week, and in January, following approximately forty hours of tutoring, David had made remarkable progress, advancing from practically no reading ability to the sixth grade level.

While David can now read well enough to lead a more productive and satisfying life, he will probably never fully utilize his talents. Results of tests administered by the Clinic showed that David had a better than average I.Q. and would have been capable of completing college if it had not been for his poor reading ability which had caused large gaps in his learning background.

Through its work in training and research, the Clinic is helping provide the personnel and knowledge necessary to help all students develop fully their talents and abilities.

### Lois H. Hansen

Before becoming secretary to the President of the University, Lois Hansen was secretary to Provost Raymond W. Darland at Duluth. She has worked for the University since 1949, coming to the Minneapolis Campus in December of 1959. Singing is her avocation, with emphasis on classical and sacred music. While in Duluth, she was a member of the Duluth Light Opera Company.



### Frank Bencrisutto

With band performances in the University's Memorial Stadium and at the Rose Bowl and with a concert on March 3, Frank Bencrisutto has had "hardly a moment to rest". Mr. Bencrisutto came to the University last fall from the University of Wisconsin where he conducted the University summer symphony. He received his BA and MA degrees at the University of Wisconsin and earned his doctorate at the University of Rochester's Eastman School of Music. Mr. Bencrisutto has received letters from around the country congratulating him and the Football Marching Band for their performance in the Rose Bowl.



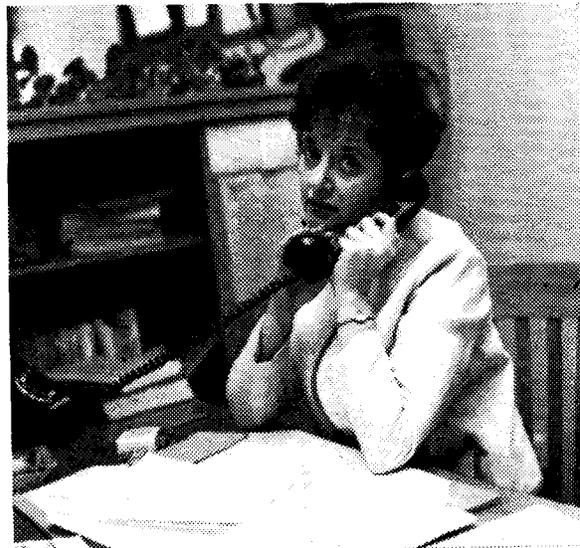
### Darrett B. Rutman

A newspaper man turned history teacher is Darrett Rutman, an instructor in the History Department whose particular field is colonial history. A New Englander, he worked on a Long Island newspaper for five years — advancing from reporter to promotion manager. A graduate of the University of Illinois, he did his post graduate work at the University of Virginia. This summer he plans to continue doing research at the Massachusetts Historical Society for his book "Winthrop's Boston: Institutional Portrait of a Puritan Town".

# HAVE YOU MET?

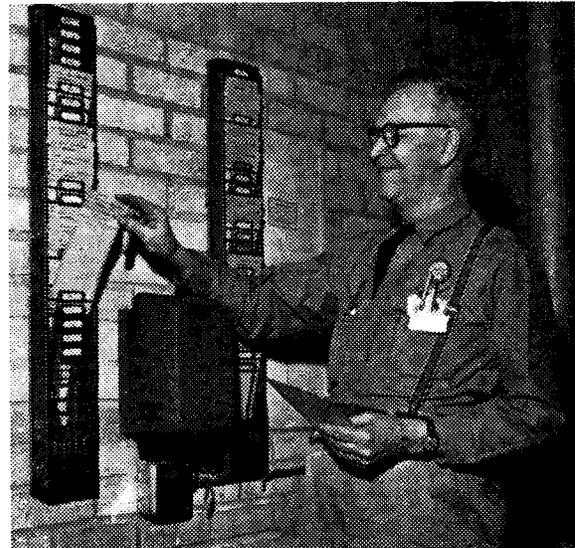
## Noel R. Kaufman

Editorial assistant in the Information Service Office on the St. Paul Campus is Noel Kaufman, who has worked at the University since September of 1959. Miss Kaufman edits Agricultural Extension publications, which include bulletins, folders, and pamphlets. A graduate of Rosary College in River Forest, Ill., Miss Kaufman was formerly an advertising copywriter. Her home is in Minneapolis.



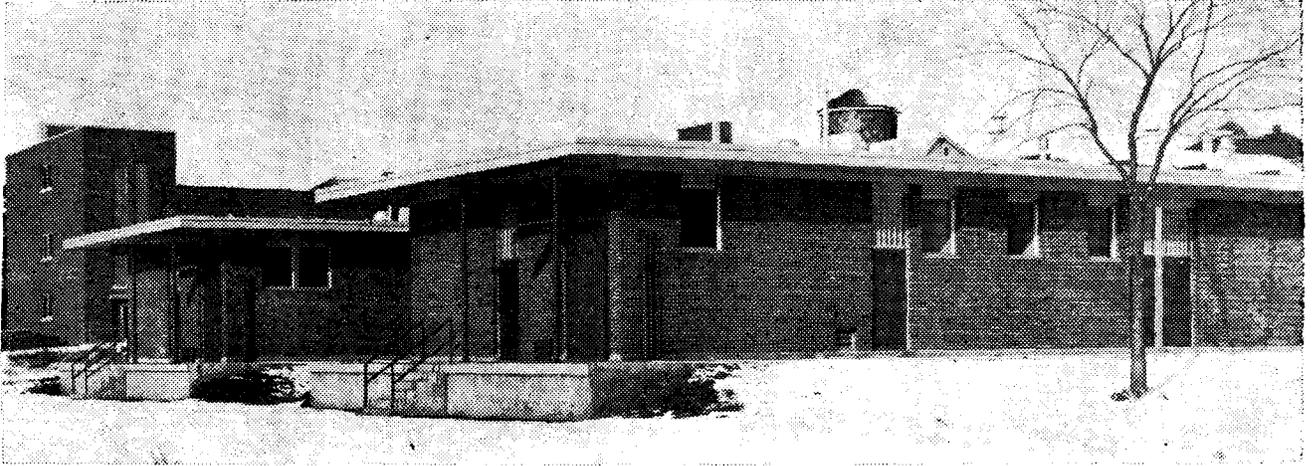
## Robert E. Johnson

After 29 years of service to the University, Robert Johnson will be retiring this year. A senior building caretaker, he has been stationed in the Lyon Laboratories for seven years, and supervises the work done in five other buildings. Mr. Johnson has been a resident in Columbia Heights for 20 years. Pan fishing is one of his favorite pastimes "in any lake, wherever there are fish".



## Major Harold J. Hopkins

Professor of Air Science, Maj. Harold J. Hopkins came to the University of Minnesota, Duluth, from Johnson Air Force Base in Japan where he was cited for his work as education and training officer. Maj. Hopkins is a leader in Scouting activities, helping to initiate the Lake Superior Council's first Air Explorer Squadron, and serving as adviser to a new Scout-related service fraternity at UMD.



New isolation laboratories for study of animals with infectious diseases are invaluable supplements to the Diagnostic Laboratory.

# The Diagnostic Laboratory

*College of Veterinary Medicine*

*facility serves the state's*

*billion dollar per year*

*livestock and poultry industry*

• *One morning last summer, a central Minnesota veterinarian answered a call to a farm where a skunk was running wildly about in a farmer's herd of cattle. Suspecting rabies, but lacking the facilities to make a laboratory diagnosis, the veterinarian sent the head of the skunk to the College of Veterinary Medicine's Diagnostic Laboratory at the University of Minnesota.*

• *In another county, a veterinarian treating a disease outbreak in a herd of 400 swine decided the animals weren't responding to treatment as they should and referred one of the hogs to the Laboratory.*

• *In western Minnesota's turkey growing region, a veterinarian observed strange disease symptoms in a flock and referred some of the birds to the Laboratory for further study.*

These actual cases are representative of the cases that come to the Diagnostic Laboratory at the rate of 28 per working day. One of eight divisions of the College of Veterinary Medicine headed by Dean William T. S. Thorp, the Diagnostic Laboratory is under the direction of Dr. Reuel Fenstermacher. He is assisted by Drs. John M. Higbee, associate professor, and Martin E. Bergeland and Harley W. Moon, instructors.

Formerly housed in Temporary East of Haecker, the Diagnostic Laboratory moved into new quarters in Janu-

ary and is now better equipped to serve the state's billion dollar per year livestock and poultry industry. Funds for the new facility were provided by the State Legislature and supplemented by support for the research areas from the National Institutes of Health. Additional funds have been requested of the Legislature to complete the building.

The Laboratory provides service to veterinarians in the field, both those in private practice and those employed by the Minnesota Livestock Sanitary Board. These veterinarians, when in need of laboratory assistance or consultation, refer cases to the Diagnostic Laboratory. Sometimes, animal owners bring in specimens, although they are encouraged to consult their local veterinarians to avoid taxing laboratory facilities with cases their local practitioners could easily handle.

Research is a continuing function of the Laboratory. Salmonella Pullorum, a disease organism that once cost turkey growers millions of dollars, was first isolated at the Minnesota Laboratory in 1928 by Dr. Earl A. Hewitt who is now at Iowa State University. Dr. Hewitt's work was followed by efforts that led to the virtual elimination of pullorum disease — not a single case has been isolated from Minnesota turkeys in the past four years. Valuable research contributions in the control of brucellosis and other diseases of livestock have been made here.

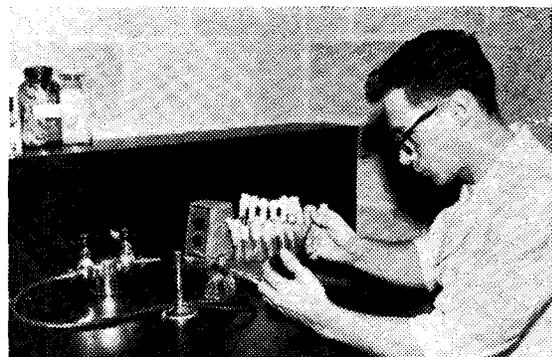
The Laboratory also furnishes information to Dr. Raymond B. Solac, Extension veterinarian, who has his offices in the new Laboratory. Dr. Solac makes research findings available to veterinarians and to the Minnesota livestock and poultry industry.

The Laboratory also serves as a teaching aid. Each week, two senior students in veterinary medicine are assigned to work with the Laboratory staff, thus gaining practice in diagnostic technique and valuable knowledge as to how the Laboratory may best serve them when they are practicing veterinarians.

A list of cases handled by the Laboratory last year reads like a roster of the animal kingdom — 451 cattle, 159 dogs, 1,284 chickens, 14 horses and ponies, 121 sheep, 652 swine, 3,883 turkeys, and 836 miscellaneous animals ranging from badgers and bats through mice, monkeys, and muskrats to woodchucks. Also, Irene H. Mattson, technologist, made 1,800 serum tests for Newcastle disease in poultry and USDA technologists Mary Brooke, Marguerite Morin, and Leonia Rahn tested 38,172 blood samples from cattle and 5,530 samples from swine for brucella organisms, and retested 13,103 samples referred to them by out-state brucellosis laboratories. Technologist Amy Theis made 21,544 tests for leptospirosis — a disease caused by bacteria — on animals of many species.



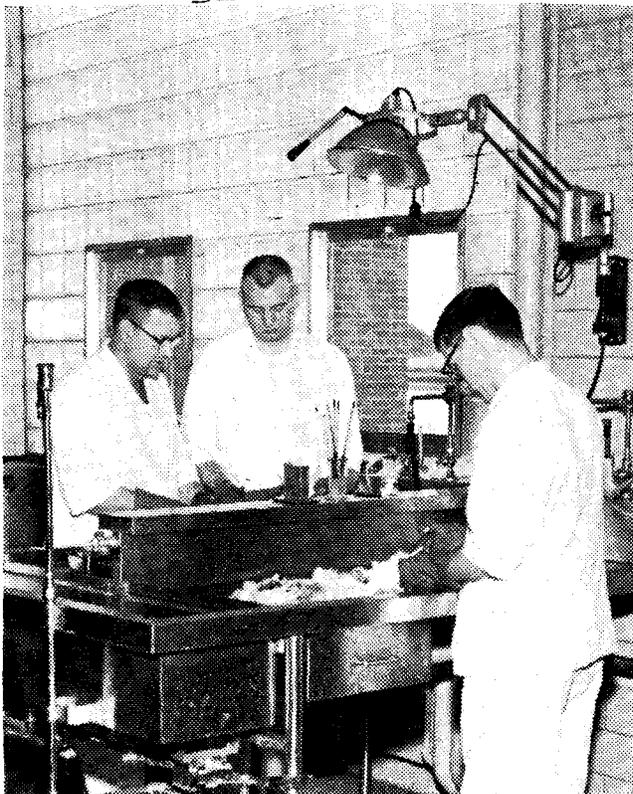
Dr. Reuel Fenstermacher is head of the Diagnostic Laboratory.



Dr. Moon, at work in one of the inoculation rooms.

An individual isolation unit as seen from the outside door of an isolation laboratory, showing the animal area at right with the observation window.





Drs. Higbee, Bergeland, and Moon examine some turkeys in the small animal necropsy room.

Each case brought to the Laboratory is entered on the records by Remi J. Brooke, technologist. Next, Drs. Fenstermacher, Higbee, Bergeland, and Moon, while observed by students, perform a thorough examination of the animal or specimen in the necropsy (post-mortem) room. Results of the diagnostic examination are recorded, and Dr. Fenstermacher prepares a complete report on the diagnosis which is sent to the veterinarian concerned with the case. If the examination of a rabies-suspect animal—the skunk, for instance—is rabies-positive, additional reports must be made to the Minnesota Livestock Sanitary Board, the State Board of Health, and the Minnesota Conservation Commission.

In some cases, tests for presence of specific virus or bacteria must be made. Culture media (material on which the virus or bacteria will live and grow) needed for these tests are prepared by Mr. Brooke. Preparation and sterilization of media equipment and instruments are handled by Dorothea J. Oltmann, senior laboratory attendant, and Mary L. Lehrke, laboratory attendant. Theodore W. Bryson, laboratory animal attendant, cares for the guinea pigs, white mice, and poultry which are used in certain diagnostic tests.

In many cases, assistance is secured from other divisions in the College of Veterinary Medicine. For example, tissues are forwarded to the pathology division and

poultry sera to the bacteriology division for study and testing.

A vast amount of correspondence is received and answered by the veterinarians. They are assisted by the office staff, Dorothy Goos, secretary, and Cheryl Smiglewski, clerk-typist.

Added space and equipment in the new Laboratory contribute to its effectiveness. Protective equipment safeguards researchers against material they handle. The poultry necropsy room permits the entire staff to work when time is at a premium. In the large animal necropsy room, there is special equipment for quick, efficient handling of larger animals—cattle, swine, horses, and an occasional wild animal such as a moose. Both necropsy rooms have space to permit holding unusual cases until students have the opportunity to examine them, a teaching advantage impossible under crowded conditions of the past. The building is arranged so that it is unnecessary for visitors to enter the working area, thus preventing possible further spread of disease.

Down the hill from the Diagnostic Laboratory and behind a six-foot, steel-mesh, barbed wire topped fence with a locked gate, are two new isolation laboratories, invaluable supplements to the Diagnostic Laboratory for research by the staff of the College of Veterinary Medicine. In these units, animals infected with virus or bacterial diseases may be studied without endangering personnel and other animals.

Each structure contains 11 isolation units for animals, a feed storage room, a steam retort for sterilization of contaminated carcasses and feed, a laundry to wash contaminated clothing, and locker rooms for men and women.

There are many safety features which prevent entry of unauthorized persons and spread of virus and bacteria. Each isolation unit is completely independent. A special outer door opens only to admit and remove animals. Enough feed goes into the unit with an animal to last the duration of the experiment.

Research workers must shower and change clothes before entering and upon leaving any one isolation section. Each unit has a separate air-locked barrier entrance and any person entering the barrier must don a protective garment and boots before proceeding to the animal area.

The role of the Diagnostic Laboratory in serving the Minnesota livestock and poultry industry may assume even more importance in the future. Now that foreign ships are docking at Duluth, and with the increase in world-wide movement of air freight into the state, the risk of livestock disease entering from another country is greater. A fast, accurate diagnosis is essential for disease control. If new diseases do enter Minnesota, chances are their detection will be made with the assistance of the Diagnostic Laboratory.

# Have You Heard?

## Staff Appointments, Elections, Activities

• ALLEN TATE, professor of English and man of letters — poet, critic, reviewer, and novelist — has been awarded the 1961 Medal in Poetry by the advisory commission on the Brandeis University Creative Arts Awards.

A grant of \$1,500 accompanies the medal, given annually since 1956.

The Award, according to the accompanying citation, is given for "a lifetime of outstanding artistic achievement."

• HERBERT FEIGL, director of the Center for Philosophy of Science, has been elected a member of the board of governors of the Philosophy of Science Association.

• MALCOLM M. WILLEY, vice president for academic administration, has been named chairman of the Committee on Social Sciences of the National Science Board. He was named to the board earlier this year.

• DEAN E. W. McDIARMID of the College of Science, Literature, and the Arts, participated in a panel discussion of "Curricular Beginnings: The First Two Years" at the 1961 conference of academic deans of the Association of American Colleges held in Denver in January.

• LORENZ G. STRAUB, director of the St. Anthony Falls Hydraulic Laboratory, has been appointed engineering consultant to the World Bank on the Dez Dam project in southwestern Iran.

• ROBERT C. BRASTED, professor of inorganic chemistry, directed 10 seminars in inorganic chemistry for a group of Central American professors at the University of Costa Rica last month. The seminars were part of an institute to improve science education organized by the Pan American Union and supported by the National Science Foundation. Professor Brasted was invited to present the seminar lectures by the Pan American Union's division of science development.

• FRANCIS M. BODDY, professor of economics, has been named associate dean of the Graduate School, effective July 1, 1961.

Professor Boddy, who received his B.A., M.A., and Ph.D. degrees from the University, joined the University faculty in 1935. In 1955 he was appointed to the Governor's Tax Study Committee for the study of Minnesota's tax situation and its effects on the location of business and industry in the state.

• PROFESSOR HENRY E. ALLEN, coordinator of student religious activities, will head the Lisle Fellowship, Inc., USA-USSR student exchange project during the coming summer. Under the program, now in its fourth year, 25 men and women students from the United States will spend July and August touring Russia and Central Asia.

• DR. OWEN H. WANGENSTEEN, chairman of surgery, was named the first recipient of the Donald Church Balfour visiting professorship at the Mayo Foundation. He lectured at the Foundation from February 20 through 22. The visiting professorship is named in honor of Dr. Donald C. Balfour, former head of a surgery section in the Mayo Clinic and director of the Mayo Foundation from 1937 until his retirement in 1947.

## Grants and Fellowships

• The University has received a \$51,800 grant from the National Science Foundation for the support of basic research on "Studies of Social Relationships." HAROLD H. KELLEY, professor of social relations, will direct the five-year grant which will enable him to carry on work of the last two years — largely laboratory studies in the area of social relationships.

• Four University faculty members will spend from six months to a full year in advanced study abroad and in the United States under National Science Foundation science faculty and senior postdoctoral fellowship grants. In addition, six faculty members from other colleges and universities in the United States will come to the University for advanced study.

The programs are designed to support advanced research and improve teaching of science, mathematics, and engineering in colleges and universities.

Senior postdoctoral fellowship award winners from the University and their destinations are:

ROBERT C. BRASTED, professor of inorganic chemistry, University of Heidelberg; LAWRENCE H. JOHNSTON, associate professor of physics, Cern, Switzerland; and STEVEN OREY, associate professor of mathematics in the College of Science, Literature, and the Arts, Oxford University.

LEROY T. ANDERSON, associate professor of electrical engineering, will use his science faculty fellowship in a year's study at Stanford University.

• Three University faculty members are recipients of a total of \$85,100 in National Science Foundation basic research grants. A two-year grant of \$23,600 will continue the research work being done by ERNST C. ABBE, professor of botany, whose work is concerned with catkin-bearing trees such as the oaks and chestnuts. A \$36,000 grant was awarded to ALBERT J. LINCK, associate professor of plant pathology, for research on "Mechanism of Accumulations of Compounds by Plant Reproductive Organs." A two-year \$25,500 grant for research on "Trace Element Distribution in a Swamp Environment" was received by DONALD H. YARDLEY, associate professor in the School of Mines and Metallurgy.

• The Atomic Energy Commission has granted \$9,746 in nuclear equipment to the UMD Physics Department. The AEC program assists colleges and universities in the

(continued on page 14)

## President Wilson Meets With Legislators

The over-all needs of the University and the educational philosophy on which these are based have been presented to Minnesota legislators by President O. Meredith Wilson in a series of appearances before both House and Senate committees.

On January 25, President Wilson met with the Senate Finance Committee and on January 26 and February 3 and 9 with the House University Committee. On February 1, he appeared before the Appropriations Committee of the House and on February 20 and 21 he met with the Senate Education Committee.

President Wilson stressed to the Legislators: 1, the need for improving faculty salaries and for increasing the number of faculty positions to provide for an effective teaching program; 2, the need for establishing the principle of depreciation on equipment, thus providing for replacement of

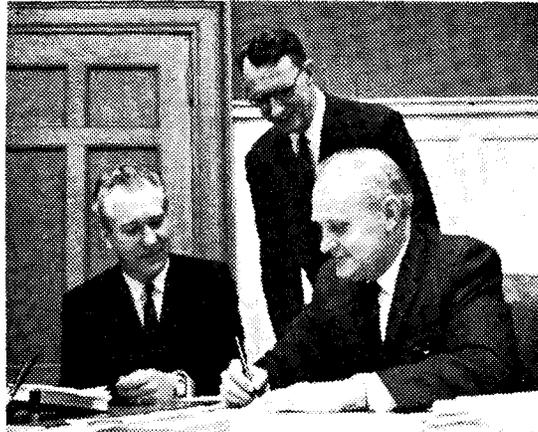
worn out and obsolete equipment; and 3, the need for applying the per student cost principle to equipment and supplies, thus providing money for supplies and equipment necessary to serve increasing enrollments. President Wilson said that it is essential that these needs be filled if Minnesota is to continue to have a distinguished institution of higher learning.

In his meetings with the legislators, President Wilson also emphasized the following points:

Nationally, the University is one of the most visible instruments of the people, and, therefore, is one of the means by which the State of Minnesota is judged; and

The University is the engine of change through which the state builds its economy. The economy of tomorrow is dependent on the vision of the people of Minnesota today in providing for their University.

President O. Meredith Wilson signs up for membership in the State Capitol Credit Union. Pictured with him are D. G. Reimer, assistant treasurer and manager of the University Office, and A. J. Snell, treasurer-manager of the Credit Union.



University President O. Meredith Wilson recently joined the State Capitol Credit Union and thus became one of the more than 4,000 University staff members who have joined the Credit Union since the University Office was opened nearly four years ago.

Savings received by the University Office since it opened total \$4,325,000. Also, 5,546 loans, representing \$5,125,000, have been made to University staff members. University

membership is composed of about an equal number of Civil Service and academic staff members.

The State Capitol Credit Union is a savings and loan organization owned and operated by state employees and University staff members. Total membership was 14,235 at the end of 1960, and assets amounted to over \$11,500,000. At the University Office alone, about 100 new members join each month.

(Continued from page 13)

area of nuclear energy technology. Its purpose is to increase the supply of engineers, scientists, and technicians for the growing atomic energy industry. The new equipment will be used by students of intermediate physics and in advanced laboratory experiments.

• A Ford Foundation grant of \$68,300 has been awarded to the School of Business Administration for the establishment of an experimental summer program in modern mathematics and a follow-up course in the application of mathematics to business problems.

Participating in the program, directed by Dean PAUL V. GRAMBSCH, will be approximately 40 faculty members and doctoral candidates from the schools of business administration of the Universities of Minnesota, Illinois, and Wisconsin.

An eight-week course at the University during July and August will be devoted to basic mathematics. Follow-up courses on the application of mathematics to business administration will be held weekly at the individual universities during the remainder of the 1961-62 academic year. Dean Grambsch will direct and coordinate both series of classes.

"This is an experimental idea in coordinating mathematics and business administration," said Dean Grambsch. "The Ford Foundation is sponsoring three of these institutes this year, with the Harvard University school of business administration

and the Wharton School, University of Pennsylvania, joining with the University of Minnesota in the initial programs."

• Over 200 research grants totaling nearly \$4,000,000 were given to the University during the 1960 fiscal year by the National Institutes of Health of the United States Public Health Service, according to the report issued by the Institutes for the fiscal year ending June 30, 1960.

The University received 224 grants totaling \$3,990,433. A total of 166 staff members direct projects supported by these grants. In addition, the University received \$113,992 for construction of health research facilities. Not included in this report were the training grants, research fellowships, and traineeships awarded by the Institutes.

• A National Defense Counseling and Guidance Training Institute for secondary school teachers and counselors from a six-state area will be conducted by the University in the 1961-62 school year. WILLIS E. DUGAN, professor of education, will direct the Institute. The area comprises Minnesota, North and South Dakota, Wisconsin, Iowa, and Nebraska.

The program will be financed by a federal grant to the University of \$94,825 allocated by the United States Office of Education under the National Defense Education Act of 1958. Another \$120,000 has been allocated for grants to participants.

The University is one of 12 major universities which will conduct full-year NDEA guidance training institutes in 1961-62. The program is aimed at providing counseling and guidance training for top quality

teachers and improving qualifications of present counselors.

• The University has been awarded a National Science Foundation grant of \$36,500 for the support of basic research on "Optical Absorption of Crystalline Defects." JOHN E. WERTZ, professor of physical chemistry, will direct the project which will be carried out at the University.

### Regents' Scholarship Winners

Winners of Regents' Scholarships for the spring semester in the Extension Division are:

JOAN E. ALDRICH, student technologist supervisor, Hospital Chemistry Laboratory; HELEN M. BAKER, senior clerk-typist, Inventory Department; JACK L. CHRISSINGER, electronics mechanic, Audio-Visual Education Department; NANCY ANN CORBIN, librarian, Law Library; DELORES E. DOOLEY, office supervisor, Dentistry; SHARON J. GEMMILL, assistant scientist, Surgery; CATHERINE L. GRUBER, assistant scientist, Ophthalmology; and MARY C. HESSBURG, principal secretary, Mechanical Engineering.

EUGENE S. KUNZ, principal laboratory attendant, Physiological Chemistry; KAY M. MALONEY, senior clerk-typist, General Extension Division; JOSEPH R. MATUSOVIC, general mechanic foreman, Plant Services; LUVERNE R. PASENOW, principal clerk, Civil Service Personnel; ENGEL H. PRINS, general mechanic, Plant Services; HELENMAE SCHAUER, senior lab technician, Oral Pathology; and CONSTANCE L. SCHENDEL, general staff nurse, University Hospitals.

ERIKA S. SCHROEDER, office supervisor, School of Public Health; CAROLE ANN SHAW, senior clerk-typist, Civil Service Personnel; ERMA R. SIMS, nursing station assistant, University Hospitals; MARIAN K. SUTHERLAND, senior lab technician, Laboratory Medicine, University Hospitals; HAROLD A. TATGE, general mechanic, Plant Services; CAROL L. URNESS, librarian, Walter Library; and JOSEPHINE M. ZIMMAR, principal clerk, Education.

University staff members may purchase a 1961 *Gopher* at a special discount price of \$5.00. Regular sale price is \$6.00.

"We are particularly anxious that staff members receive a copy of this year's *Gopher*," said Stuart E. Kloner, promotion director for the Yearbook staff. "It will include feature articles on several University professors which will be of special interest to staff members."

Staff members are asked to order their 1961 *Gopher* Yearbooks in Room 13 Murphy Hall by April 1. The books will be distributed sometime near the end of spring quarter.

# Legislators Visit the University

A VARIETY OF UNIVERSITY programs—from research on water problems to a classroom lecture and discussion—were viewed by Minnesota legislators when they visited the Twin Cities Campuses on January 19. Over 30 University staff members cooperated in welcoming the guests and in acquainting them with the operations of their departments.

Elmer L. Mueller, director of adult education for the State Department of Education, was in charge of the tour which was part of the department's orientation program for new members of the House of Representatives. Although sponsored primarily for freshmen legislators, the invitation was extended to the entire House and some 35 legislators, many with experience, accepted.

Stanley J. Wenberg, vice president and administrative assistant; William L. Nunn, director of University Relations, and Theodore H. Fenske, association dean of the Institute of Agriculture, greeted the legislators when they boarded a chartered bus at the State Capitol. Dean Fenske outlined the organization and function of the Institute during the ride to the St. Paul Campus and the first stop, the new Veterinary Diagnostic Laboratory, where William T. S. Thorp, dean of the College of Veterinary Medicine, was host. Dean Thorp, Dr. Reuel Fenstermacher, head of the Lab, and Dr. John M. Higbee, associate professor, led the legislators through the Laboratory and described its operations. Margaret Alm, office supervisor, and Dorothy E. Goos, senior clerk-typist, assisted in serving coffee and cookies.

Dean Harold Macy of the Institute of Agriculture met the legislators at the Laboratory and rode with them to the Forest Products Building, pointing out facts about other buildings passed enroute. At the Forest Products Building, Frank H. Kaufert, director of the School of Forestry, summarized the work being done in the forest products field, and Professor Ralph L. Hossfeld demonstrated how research equipment is used to test wood strength and wood glues.

Willard L. Thompson, assistant to the president, joined the legislative tour at the St. Paul Campus.

At the next stop, the St. Anthony Falls Hydraulic Laboratory, President Wilson joined the legislators as they saw tests underway on 20 research and development projects, including several of particular interest to Min-

nesotans. Lorenz G. Straub, director of the Laboratory, led the tour. Other Laboratory staff members assisting in the preparations for the tour were Professors Alvin G. Anderson, John F. Ripken, and Edward Silberman, and Charles E. Bowers, research associate. Dr. Robert B. Howard, dean of the College of Medical Sciences, met the legislators at the Mayo Memorial and took them to the Rehabilitation Center where they met Professor Frederic J. Kottke, head of physical medicine. Professor Kottke, Dr. Glenn Gullickson, Jr., assistant director, and Donna L. Pauley, physical therapy supervisor, led the group on a tour of the physical, occupational, pre-vocational, and speech therapy units.

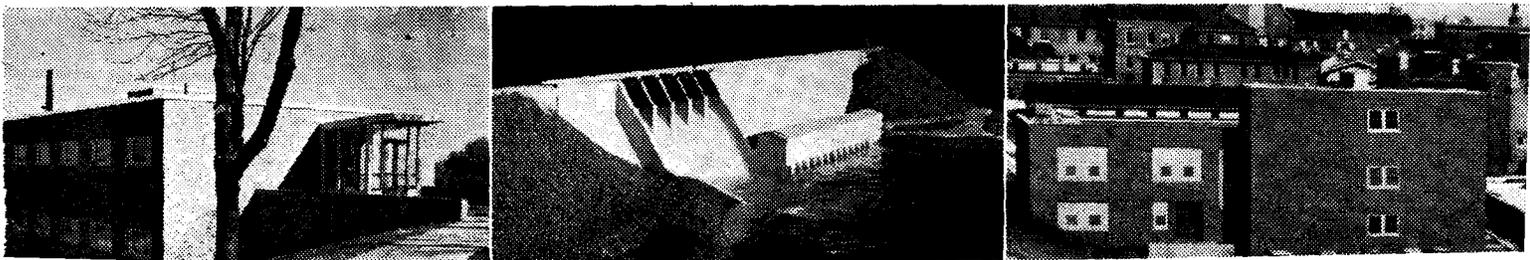
Dean Howard then escorted the visitors to the Bacteriology Department where their host was the head of the Department, the late Professor Jerome T. Syverton. Here they were shown through the Basic Virology Lab by Leroy C. McLaren, associate professor of bacteriology, and through the Cell Biology Lab by John D. Ross, assistant professor, and Perry E. Treadwell and Gordon T. M. Cummins, instructors.

A dinner in Coffman Memorial Union was prepared for the legislators by James Felber, director of the Food Service, and his staff. Present at the dinner, in addition to many of the above-mentioned staff members who assisted on the tour, were the following members of the Legislative Advisory Committee: Ray M. Amberg, director of University Hospitals; Edwin L. Haislet, director of alumni relations; and Clinton T. Johnson, assistant vice president, Business Administration.

Following dinner, a movie, "Education Is Everybody's Business", was shown by a member of the Audio-Visual Education Service staff. The legislators then went to Ford Hall where they visited an Extension class in Political Science taught by Professor William C. Rogers. This was the first classroom visit arranged for the legislators since the tours began in 1957.

"The legislators are very enthusiastic about the tour," said Mr. Mueller. "We feel that it is somewhat unique throughout the country and that it is very valuable in acquainting legislators with various University departments. One legislator told me he thought the tour was very informative and that it should be required of all legislators."

Some of the facilities seen by the visiting legislators were, from left to right, the new Forest Products Building; the St. Anthony Falls Hydraulic Laboratory, including a hydraulic model, shown here, of a hydroelectric project in South America; and the new Veterinary Diagnostic Laboratory.



# University of Minnesota Calendar of Events

## MARCH, 1961

### MINNEAPOLIS SYMPHONY CONCERTS

#### Subscription Series

*Northrop Auditorium, 8:30 p.m.*

March 24—Richard Tucker, Metropolitan Opera tenor; Stanislaw Skrowaczewski conducting.

March 31—Mozart's "Requiem" with the University of Minnesota Chorus and soloists; Stanislaw Skrowaczewski conducting.

(Single tickets \$3.00 to \$4.50. Reservations may be made at 106 Northrop.)\*

#### Twilight Concert

*Northrop Auditorium, 4:30 p.m.*

March 26—St. Olaf Choir, directed by Olaf C. Christiansen; orchestral works conducted by Stanislaw Skrowaczewski.

(General admission \$1.25. Sale of tickets opens at the Northrop Box Office at 3:30 p.m. on the day of the concert.)

### UNIVERSITY ARTISTS COURSE CONCERTS

#### Masterpiece Series

*Northrop Auditorium, 8:30 p.m.*

March 4—Glenn Gould, pianist.  
(Single tickets \$1.50, \$2.50, \$3.00, \$3.50. Reservations may be made at 105 Northrop.)\*

March 6—Giorgio Tozzi, Metropolitan bass-baritone.

(Single tickets \$1.50, \$2.50, \$3.00, \$3.50. Reservations may be made at 105 Northrop.)\*

#### Special Concert

*Northrop Auditorium, 8:30 p.m.*

March 7—Bob Newhart, comedian.  
(Single tickets \$1.50, \$2.50, \$3.00, \$3.50. Reservations may be made at 105 Northrop.)\*

### CONVOCATION

*Northrop Auditorium, 11:30 a.m.*

March 30—"A Theater for Minnesota," lecture by Sir Tyrone Guthrie, artistic director, Tyrone Guthrie Theater.

### COMMENCEMENT

*Northrop Auditorium, 8:30 p.m.*

March 16—"Your Years Ahead," address by Dr. Chauncy D. Harris, professor of geography, The University of Chicago. (Admission by guest card only.)

### UNIVERSITY THEATER PRODUCTION

#### Regular Production

*Scott Hall Auditorium*

March 1-3, 8 p.m.; March 4, 6:30 and 9:30 p.m.; and March 5, 3:30 p.m.—*The Merchant of Venice* by William Shakespeare.

(Single tickets \$1.50 on sale at the Scott Hall Box Office.)\*

### SIGNIFICANT UNIVERSITY BROADCASTS

#### KUOM, 770 on the dial

Saturday, 4:30 p.m.—"Minnesota Theater of the Air" featuring *Don Juan in Hell* by George Bernard Shaw on March 4; *The Spook Sonata* by August Strindberg on March 11; *This Music Crept By Me Upon The Waters* by Archibald MacLeish on March 18; and *The Curmudgeon*, Gilbert Highet's translation of the *Dyskolos* of Menander, on March 25.

March 27-April 1—"Lenten Music Festival" featuring music written in the spirit of the Easter Season. The Festival opens on March 27 at 11:15 a.m. with Bach's "Easter Oratorio" and closes on April 1 at 2 p.m. with Bach's *St. Matthew Passion*.

### UNIVERSITY TELECASTS Seen on Channel 2, KTCA-TV

Monday, 9 p.m.—"World Affairs."

9:30 p.m.—"At Home with Music."

Tuesday, 9 p.m.—"Books from the Bell Collection."

9:30 p.m.—"The Civil War: Backgrounds."

Wednesday, 9-10 p.m.—"Folio."

Thursday, 9 p.m.—"Economic Growth."

9:30 p.m.—"Town and Country."

Friday, 9 p.m.—"Photography, the Popular Art."

9:30 p.m.—"Mythology in Literature."

### MUSIC DEPARTMENT PROGRAMS

March 3—University Band Winter Concert. (Northrop Auditorium, 8:30 p.m.)

March 5—University Symphony Orchestra. (Northrop Auditorium, 4:30 p.m.)

March 9—St. Paul Campus Chorus Festival. (St. Paul Campus Student Center, 8:15 p.m.)

March 11—Joanne Schultz piano recital.

(Scott Hall Auditorium, 8:30 p.m.)

March 12 and 26—Concerts for Children under the director of Guy Duckworth. (Scott Hall Auditorium, 3 p.m.)

### UNIVERSITY GALLERY EXHIBITIONS

Through March 7—The Eighteenth Century: One Hundred Drawings by One Hundred Artists.

March 8-28—Symphony Art Project.

March 15-April 5—Major Paintings from the Whitney Museum of American Art: 1900-1957.

### MARCH UNIVERSITY OF MINNESOTA PRESS PUBLICATIONS

*The James Ford Bell Collection: A List of Additions, 1955-1959* by John Parker, curator of the Bell Collection. \$6.75.

*The Impact of Unionism on Wage-Income Ratios in the Manufacturing Sector of the Economy* by Norman J. Simler, assistant professor of economics. Paper. \$1.75.

*A History of Swedish Literature* by Alrik Gustafson, chairman of the Scandinavian Department. \$8.00.

*The Precambrian Geology and Geochronology of Minnesota* by Samuel S. Goldich and others. (Minnesota Geological Survey Bulletin No. 41.) \$4.00.

*Congress Versus the Supreme Court, 1957-1960* by C. Herman Pritchett. \$3.75.

*The Rhetoric of Science: A Methodological Discussion of the Two-by-Two Table* by Roy G. Francis, professor of sociology. \$4.75.

*Scandinavian Students on An American Campus* by William H. Sewell and Olaf M. Davidsen. \$3.50.

### MUSEUM SUNDAY PROGRAMS

*Museum of Natural History Auditorium, 3 p.m.*

March 5—"Speed and Endurance in Animals." P. L. Blackshear, professor of mechanical engineering.

March 12—"The Blue-Winged Teal." Allen Downs, associate professor of art.

March 19—"Island Treasure." Walter J. Breckenridge, director of the Museum of Natural History.

March 26—"Animal Life in a Twin City Pond." Dale Chelberg, assistant, Museum of Natural History.

### ATHLETIC DEPARTMENT EVENTS

#### Home Hockey Games

*Williams Arena, 8 p.m.*

March 3—North Dakota.

March 4—North Dakota.

(Single game reserved tickets \$1.75. General admission tickets at \$1.00 for adults and \$.75 for individuals under 16 on sale at gate only. Over-the-counter sale of any unsold tickets begins the Monday before the games at 108 Cooke Hall.)\*

Unless otherwise noted, events are open to the public without charge.

\*Tickets for these events are also available at the Field Schlick Ticket Office, St. Paul, and the Downtown Ticket Office, 188 Northwestern Bank Building, on Monday of the week prior to the performance.

# THE MINNESOTAN

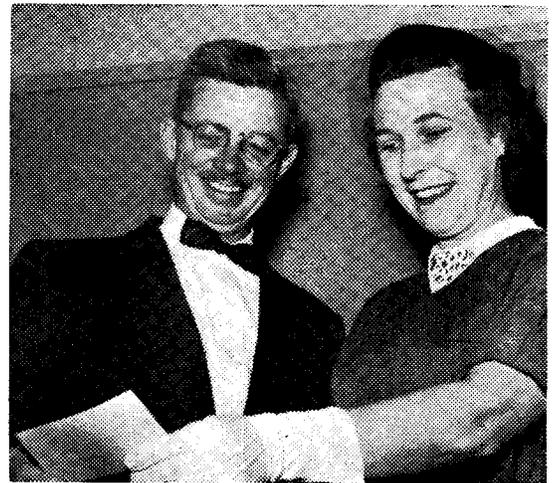
*The University Staff Magazine*

- *April, 1961*





Two Alpha Phi Sorority members admire the Certificate of Appreciation awarded by the American Heart Association.



Dr. John A. Anderson, head of the Department of Pediatrics, accepts a check from Mrs. George H. Alarik of the Alpha Phi Alumnae.

## They Made Us Great

**E**VERY YEAR FOR 14 YEARS, the Alpha Phi Sorority has been supporting a fellowship and research program in the field of pediatric cardiology at the University. Recipient each year of a check is Dr. John A. Anderson, head of the Department of Pediatrics.

Originally in 1947, the Alpha Phi Alumnae Club of Minneapolis began the program — setting up an Alpha Phi Fellowship. Funds came primarily from an annual “heart dance”, bridge luncheon, and style show sponsored by the sorority. To date, the local Alpha Phi alumnae have donated \$17,382.

In addition to the local club’s contributions to pediatric heart research, the national office of Alpha Phi has donated \$22,071 since its first contribution in 1950 — making a total of more than \$39,000 contributed to the University’s Alpha Phi Fellowship and Research Fund. Fifteen individuals have served as Alpha Phi fellows since the fund was initiated.

On campus, the collegiate Alpha Phi chapter has taken an active interest in cardiac aid work. During “Heart Week”, the sorority has taken a leading part by campaigning for the campus heart drive, and sponsoring a “Queen of Hearts” contest. The chapter also distributes displays and educational

material during the heart fund drive on campus. Members of the campus sorority also spend time reading to children at the Heart Hospital.

### On the cover . . .

is the beautiful daylight court in the new Architecture Building. Scale models exhibited in the courtyard are the work of architecture students.

Cover photography by Alan Ominsky

Vol. XIV

No. 7

### THE MINNESOTAN

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

William L. Nunn, Director

Beverly Sinniger ..... Editor  
Jo Anne Ray ..... Associate Editor

Advisory Committee: Members of the University Public Information Council.

*The Minnesotan* will be published monthly October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2.00 a year, 25 cents a copy.

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

Second-class postage paid at Minneapolis, Minnesota.

# INAUGURATION HIGHLIGHTS

**Representatives of the entire**

**University community**

**assisted with inauguration**

**events . . .**

**from faculty and staff**

**members to student organizations**

**and from wives of faculty members**

**to the pom-pom girls.**



PORTRAITS . . . of a President



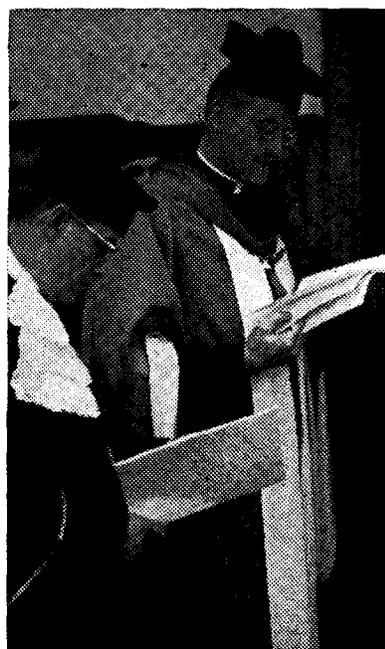
# February 23, 1961.

**A** DAY OF PAGEANTRY — rich with traditions from the University's past and rich with promise for the University's future — marked the inauguration on February 23 of O. Meredith Wilson as the ninth president of the University of Minnesota.

Close to 550 official delegates of academic institutions and learned societies, Governor of Minnesota Elmer L. Andersen, Minnesota legislators, representatives of the press and radio and television industry, superintendents of Minnesota school districts, University alumni and benefactors, and members of the Land Grant Centennial Committee and of other distinguished groups gathered on the Minneapolis Campus with University staff members and students to participate in and attend inaugural events.

Highlight of the day was the ceremony of inauguration which began with an academic procession up the Mall from Walter Library and into Northrop Memorial Auditorium. Leading the procession as bearer of the new University Mace was Alfred O. C. Nier, vice chairman of the University Senate and highest elected member of the faculty. Next came the official delegates, led by Herbert J. Davis, lecturer in English and delegate from Oxford University, England, founded in the 12th century, and John J. Bittner, director of cancer biology and delegate from the Perugia University, Italy, founded in 1266.

The Minnesotan



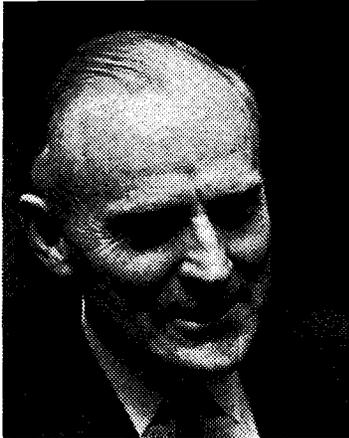
Academic gowns of all styles were worn by delegates from around the world.



President Wilson and his mother, Mrs. Melissa Wilson.

The President delivers his inaugural address.





# A Day of Pageantry

Among the delegates were close to 60 college and university presidents—including over 25 from Minnesota colleges—and delegates from 13 leading foreign universities.

Following the delegates were student and alumni leaders, University faculty members and Regents, members of the Administrative Committee and of the Faculty Consultative Committee, and participants in the ceremony, including William Anderson, professor emeritus of political science, who delivered the inaugural address, *The University and Its Presidents*.

An inaugural concert by the Minneapolis Symphony Orchestra, conducted by Stanislaw Skrowaczewski, music director, concluded the day's events.

Assisting with the events were representatives of the entire University community, from faculty and staff members to student organizations, and from wives of faculty members to the pom-pom girls.

Climax of the ceremony in Northrop Auditorium came when Chairman Ray J. Quinlivan, on behalf of the Board of Regents, asked Governor Andersen, as the highest elected representative of the people of Minnesota, to present the Mace to President Wilson. Following transfer of the Mace, President Wilson delivered his inaugural address.

Official delegates arriving from out of town were met at rail and air terminals and driven to their hotels by members of the Faculty Women's Clubs of St. Paul and Minneapolis. Members of the Clubs also helped distribute free tickets for the inaugural ceremony and concert which were available to all staff members and students.

After the ceremony, a reception for President and Mrs. Wilson was held in the Campus Club, and a dinner was held in the Main Ballroom of Coffman Union for official delegates and members of the official inaugural party.

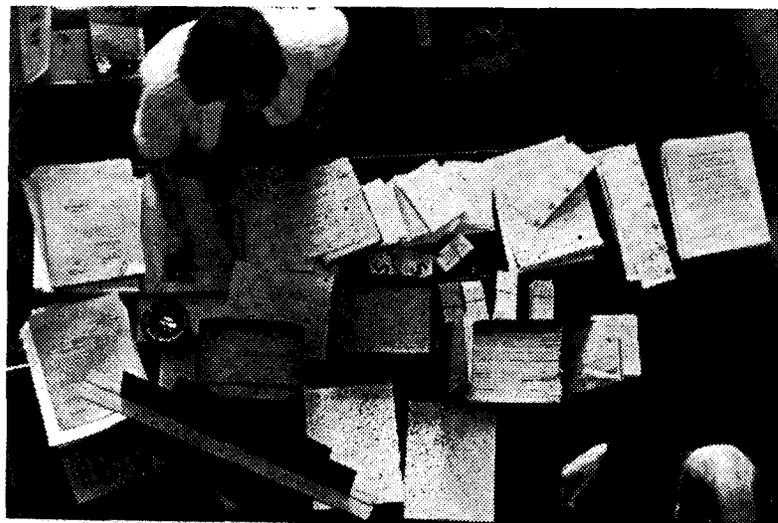
Following their registration at Coffman Union on the morning of inauguration day, out-of-town delegates were sent in groups with a student guide to the departments which interested them. Groups were escorted through



President and Mrs. Wilson.

A flurry of papers and delegates kept the registration desk busy in the Union.

April, 1961





The inaugural concert conducted by Stanislaw Skrowaczewski.

various departments or school facilities and to one of the open houses on the Minneapolis Campus. Those serving as hosts were Academic Vice President Malcolm M. Willey, Business Vice President Laurence R. Lunden and Assistant Vice Presidents Clinton T. Johnson and Roy V. Lund; Dean Robert B. Howard of the College of Medical Sciences; Assistant Dean of Students Martin L. Snoko and Henry E. Allen, coordinator of student religious activities; Associate Dean Marcia Edwards of the College of Education; Dean E. W. McDiarmid of the College of Science, Literature, and the Arts, E. W. Ziebarth, dean of Summer Session, and John C. Kidneigh, director of social work; Associate Dean Frank Verbrugge of the Institute of Technology and James J. Ryan, professor of mechanical engineering; and R. E. Summers, dean of admissions and records.

Open houses were held at the Gamma Irradiation Facility, the James Ford Bell Room, and the Museum of Natural History. Serving as guides at these facilities were Herbert S. Isbin, professor of chemical engineering, and Health Physicists Clayton R. Lagerquist and Ralph O. Wollan; John Parker, curator of the James Ford Bell Room, and Vsevolod Slesarev, research fellow in the Library; and Dwain W. Warner, curator of birds at the Museum of Natural History, and Cornelia L. Haugland, Museum artist and receptionist.

Luncheons were arranged for official delegates and members of the official inaugural party. Vice President Willey presided at a luncheon in the Campus Club for college and university presidents, which was attended by President Wilson. Vice President

Lunden presided at a luncheon in Coffman Union for official delegates, and Vice President Wenberg represented the University at the annual Alumni Honors Luncheon held in the Main Ballroom of Coffman Union.

Delegates, members of the official inaugural party, and faculty members who marched in the academic procession assembled in Walter Library. Those who helped make arrangements for the use of Library facilities were E. B. Stanford, director of Libraries; Associate director Ralph Hopp; James Kingsley, Jr., chief of special collections; and Marchet M. Sullivan, office supervisor. Student marshals assisted in robing the delegates and faculty members.

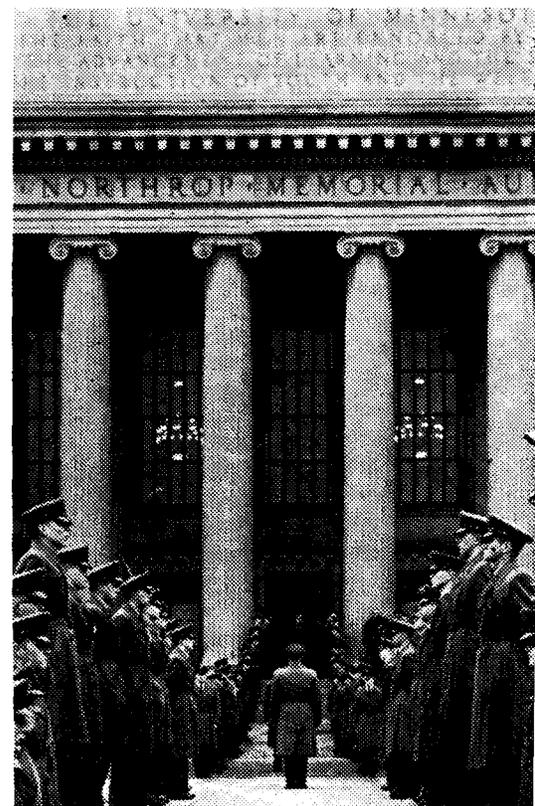
Civil Service staff members who served as college marshals were: Suzanne C. Anderson, Educational Psychology; Patricia M. Becker, Karen S. Roemhildt, and Delphine K. Winter, Business Office; Sandra Bentilla, Carol J. Lundberg, and Jean M. Lynes, Continuation Center; Phyllis D. Bigbee, Lois A. Mueller, and Jacqueline Wolf, College of Education; Claudette V. Bohnsack and Darlene A. Hillmer, State Organization Service; Dorothy K. Bromenshenkel, Office of the University Attorney; Dolores A. Bruncke and Barbara Chapman, Library School; Elayne W. Campbell and Lois A. Perault, Institute of Agriculture; Carol Carlson, Pharmacy; Marilyn R. Chock, Academic Administration; Genevieve M. Cole, Verna S. Robinson, and Sharon R. Stillings, Admissions and Records; Jacquelyn M. Crawford, Physics; Diane J. DuCharme, Student Activities Bureau; Jeanne L. Egeland and Marline A. Nordstrom, Graduate School; Elvera M. Erickson, Trade and In-

dustrial Education; Julaine D. Fitzsimmons, Student Personnel Office, College of Education; and Phyllis D. Frederiksen, Metallurgy.

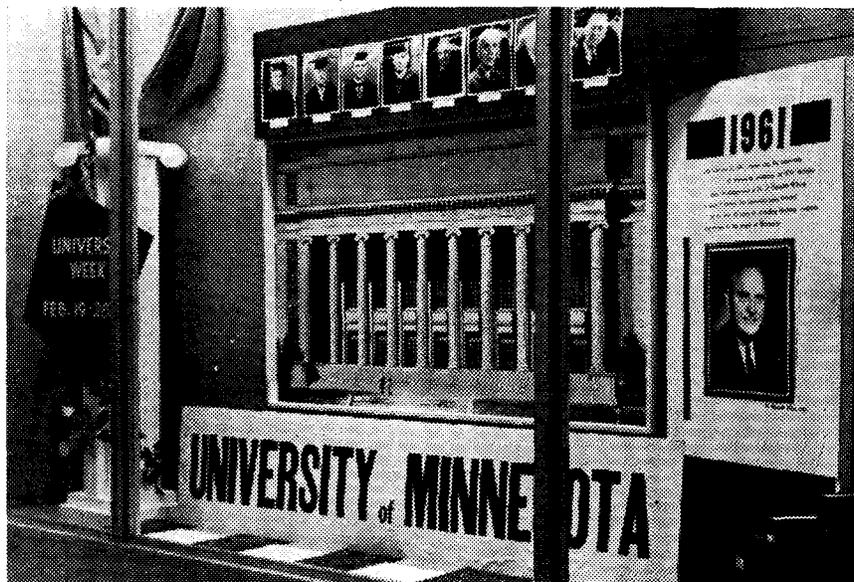
Betty L. Frolik and Ruth F. Rotman, General College; Anita Hahn, Office of the President; Phyllis M. Hardebeck, Margaret R. Peck, and Patricia A. Peters, Library; Shirley J. Hilsen, Susan Palmer, and Darlyne C. Pierson, Mechanical Engineering; Ruth A. Hendrickson, College of Science, Literature, and the Arts; Elizabeth A. Iverson, School of Forestry; Alice T. Jacobson, Student Unions; Gloria J. Kittelson and Luverne R. Pasenow, Civil Service Personnel; Marianne E. Lichtscheidl, Dairy Husbandry; Edwin May Maulding and Judith C. Widerski, College of Veterinary Medicine; Shirley M. Medo,

*(Continued on Page 11)*

ROTC units formed the honor guard.



# UNIVERSITY of MINNESOTA WEEK



Displays commemorating the University's birthday and the inauguration of President Wilson were exhibited in various establishments in the Twin Cities and other cities throughout the state.

**T**HE UNIVERSITY CELEBRATED its 110th birthday in February, marking with pride 110 years of progress and growth and looking toward future achievement and progress with the inauguration of its ninth president, O. Meredith Wilson.

Highlight of University of Minnesota Week (Feb. 19-25) was the inauguration of President Wilson which brought Minnesotans from all corners of the State to the Campus (see story on page 3). The Week also was the occasion for bringing University staff members from the Campuses into communities to speak on various topics before civic, professional, and other organizations.

University staff members who served as speakers and the organizations they addressed were:

W. Donald Beatty, assistant chairman of history, United Spanish War Veterans and Auxiliary; Robert F. Berkhofer, instructor in history, Society of Citizenship, Minneapolis; Walter W. Cook, dean of the College of Education, Minneapolis Businessmen's Association; Santiago A. Cuneo, associate professor of Romance languages, Rotary Club of Edina; Mykola H. Haydak, associate professor of entomology and economic zoology, Southeast Exchange

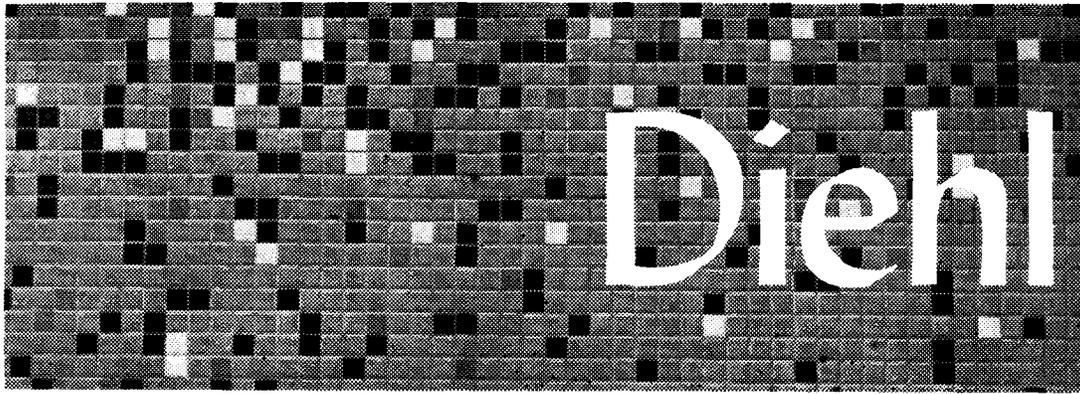
Club; Rodney C. Loehr, associate professor of history, American Legion; James S. Lombard, director of concerts and lectures, St. Paul Club; E. Scott Maynes, associate professor of economics, St. Paul Rotary Club; Josef A. Mestenhauer, assistant director of Foreign Students Office, Cosmopolitan Club of St. Paul; and Paul L. Murphy, associate professor of history, National Association for the Advancement of Colored People.

Stanley G. Payne, instructor in history, Uptown Commercial Club, Minneapolis; William C. Rogers, director of the State Organization Service, Downtown Lions Club, St. Paul; Harlan M. Smith, associate professor of economics, Southwest Exchange Club, Minneapolis; Leon C. Snyder, head of horticulture, Postal Transport Auxiliary of St. Paul; Barbara J. Stuhler, assistant director of the State Organization Service, Midway Lions Club; Romeyn Taylor, assistant professor of history, Downtown Wisemen's Club of St. Paul; Thomas N. Thiss, instructor in rhetoric, Medical Dames Club; Theodor W. Thomas, associate professor of civil engineering, Golden Valley Optimist Club; Willard L. Thompson, assistant to the president, Midway Civic Club; Stan-

ley J. Wenberg, vice president and administrative assistant, Gyro Club, Minneapolis; and Joseph M. Wetzel, research fellow at the Hydraulic Laboratory, North Minneapolis Exchange Club.

Staff members who spoke before alumni clubs throughout the State were: John D. Akerman, director of the Rosemount Aeronautical Laboratories, Baudette; Robert R. Bossons, instructor-coach, St. Cloud; Ernest B. Brown, Jr., professor of physiology, New Ulm; Harold C. Deutsch, chairman of history, International Falls; Paul V. Grambsch, dean of the School of Business Administration, Wadena; John A. Kundla, basketball coach, Moorhead; Athelstan F. Spilhaus, dean of the Institute of Technology, Rochester; and John E. Turner, professor of political science, Austin.

A display commemorating the University's 110th birthday and the inauguration of President Wilson was designed and produced for University Week. Exhibiting displays were 37 Twin Cities firms, 20 Duluth firms, and 24 Morris firms. In addition, displays were also exhibited by establishments in Albert Lea, Austin, Detroit Lakes, Owatonna, and Wheaton.



# Ha

**O**NE HUNDRED FIFTY THOUSAND BOOKS, live viruses, monkeys, a 24-hour study room, an inverted Japanese microscope . . .

This is just a glimpse of the combined wealth of study and research material and facilities that can be found in Diehl Hall, newly opened in January of this year.

Located just east of University Hospitals, the new building houses the Bio-Medical Library and an array of 150 medical science laboratories and research facilities. The building is named in honor of Dr. Harold S. Diehl, who was dean of the College of Medical Sciences from 1935 to 1958.

The Bio-Medical Library, with nearly 150,000 volumes, is one of the larger bio-medical libraries in the country. It houses the books and periodicals in the health sciences: medi-

cine and all its auxiliary disciplines, dentistry, nursing, botany, and zoology.

A unique feature of the new library (which was moved from Walter Library last December) is the open shelf arrangement of all materials which eliminates the need to wait for delivery of a book from a closed stack area, explains Mrs. Vera Clausen, assistant professor and librarian.

The library also features a 24-hour study room, a current periodicals reading room, and individual study areas and study tables interspersed throughout the library in close prox-

imity to the stacks. In the center of the basement level is a spacious lounge area surrounded by additional study tables and stacks.

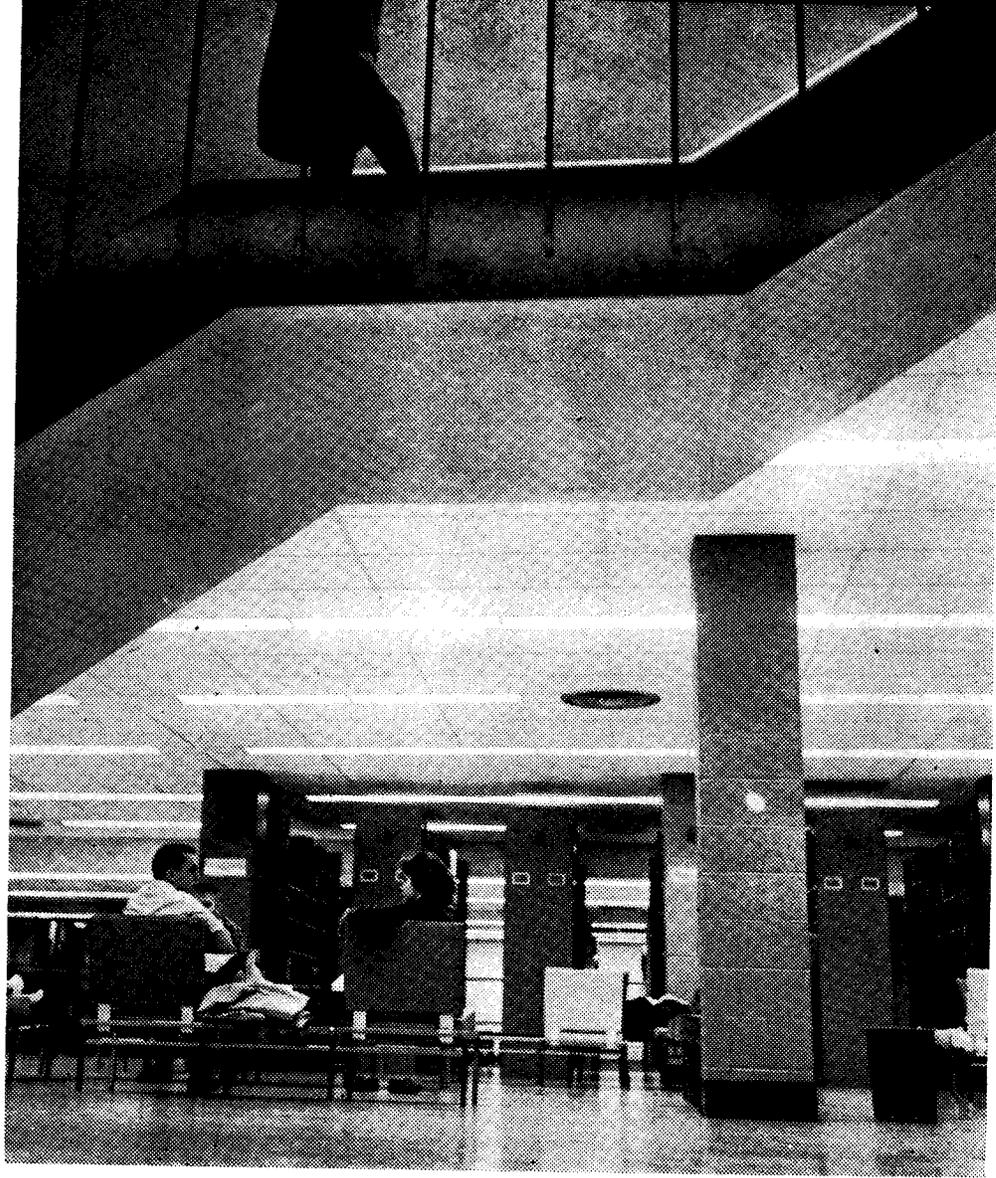
The library occupies the top two floors of the multi-purpose building plus half of the basement. The other half of the basement level and the full sub-basement house laboratory facilities for medical research and the University's scientific instrument shops.

The two underground levels (or floors one and two) comprise a larger footage than the two upper

Charles Stroebel, research assistant, is part of a research team in the psychiatry laboratory measuring the physiological and behavioral effects of drugs on rats.



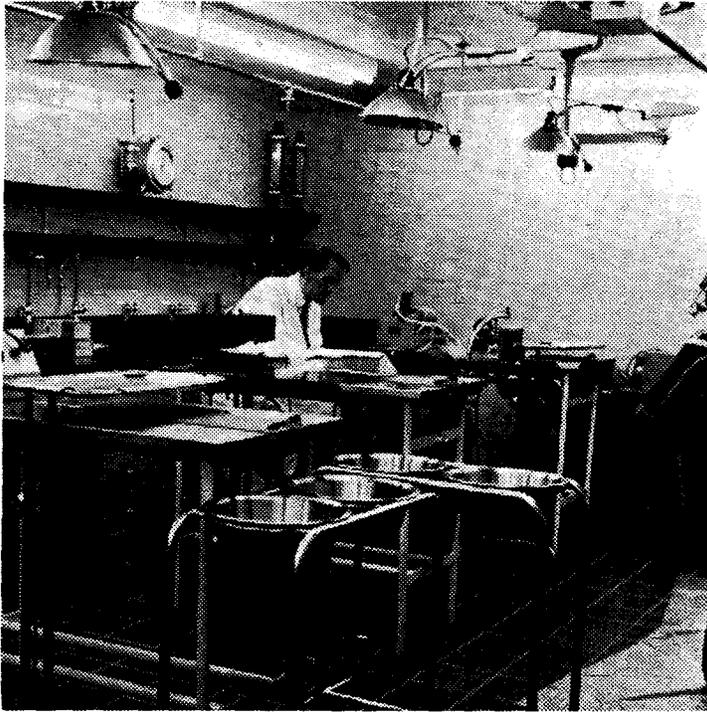
ew home of the  
Bio-Medical Library  
of Medical Science  
Laboratories



Open stairways lend a modern touch to the Bio-Medical Library. Part of the lounge area on the lower level is pictured above.

Caylen Bradley is the head of the bacteriology laboratories. With him is laboratory technician Beverly Nesbit.





Above: Dr. Svend Gaute sets up equipment in the anesthesiology operating room laboratory.

Above right: Analyzing radio active phosphate compound in brain tissue are medical student Larry Schut and laboratory technologist Joyce Keating in the neurology laboratory.



floors. The main or ground floor of the building measures 160 feet long and 140 feet wide. The sub-basement level extends under Union street and measures 110 feet longer and 50 feet wider than the ground level.

Not all of the departments which will have facilities in the new building have moved into their laboratories. Eight departments are now represented including psychiatry and neurology, anesthesiology, surgery, medicine, radiology, pediatrics, bacteriology, and ophthalmology. Each department has a series of laboratories, animal quarters, and equipment rooms. Each laboratory has its own temperature control. Some of the laboratories have special lower temperature levels where the temperature averages below freezing.

Tunnels connect the new unit to the Medical Center.

Below: Heljo Alari, junior librarian, checks a card file at the main desk. Other staff include Gladys Nollman, principal librarian, Vija Karklins, librarian; Dorothy Bohn, senior librarian; Eleanore Krakauer, junior librarian; Joan Gallagher and Alan Shirey, senior clerks; and Janet Koniar, clerk.

A sweeping view of the study area and part of the lounge area on the lower library level.



*(Continued from Page 6)*

Plant Services; Gordine Lindstrom, Peggy Rogers, and Colleen T. Zahler, Student Counseling Bureau; Linda L. Melby, Agricultural Experiment Station; M. Elizabeth Metcalfe and Joan Wicklund, Hospitals; Nancy S. Miller, Speech; Karen D. Nordberg, School of Business Administration; Barbara Peterson, Concerts and Lectures; Jane Priddy, College of Agriculture, Forestry, and Home Economics; Marlene L. Lindahl, General Extension Division; June von Ruden and Charlotte Smith, Agricultural Extension; Irene A. Skansgaard, Obstetrics and Gynecology; Barbara W. Tarjan and Jean V. Snyder, Insurance and Retirement; Mary B. Tesmar, Professional Colleges Bookstore; Jean M. Thompson, Alumni Relations; and Sharon L. Wigren, Bureau of Recommendations.

ROTC cadets and midshipmen composed the color guard and also dressed the line of march. Helping to organize the Color Guard were Maj. Frederick D. Stockdale and Lt. James R. Bauer.

Members of student honoraries served as ushers in Northrop Auditorium for both the inaugural concert and ceremony, and members of Women's honoraries poured punch at the reception. Elevators in Coffman Union were operated by the pom-pom girls — in uniform. Helping coordinate the student groups were Ronald C. Barrett, program director for the Student Unions, and Donald R. Zander, director of the Student Activities Bureau. Helping make arrangements for the pom-pom girls was their adviser, Robert Pattron.

The new University Mace was designed for the ceremony by Associate Professor Philip G. Morton and produced by Alfred E. Laurence and Ray E. Duemke of the Machine Shop, and Walter Bornman, Joseph J. Hogen, and Wallace Gustafson of the Sheet Metal Shop. William J. Edin, Wayne Stein, and Harold Thorpe of the Carpenter Shop made a case and table for the Mace.

Preceding the ceremony, the Frances Miller Brown Memorial Bells

were played by Helen Garvey, carillonist, and festive music was played in Northrop Auditorium by Heinrich Fleischer, organist.

Professor Paul Fetler and Bandmaster Frank Bencriscutto of the Music Department composed special fanfare music to introduce the Color Guard at the inaugural ceremony and to herald the transfer of the Mace.

Providing organ and instrumental music at the inaugural dinner were students from the Music Department and a medley of songs was sung by the Men's Glee Club, under the direction of Associate Professor Norman Abelson.

A filmed record of inaugural events was made by members of Alan Downs' photography class. Still photographs were taken by members of Kappa Alpha Mu, photo journalism fraternity, under the direction of their adviser, R. Smith Schuneman, and by Warner Clapp, Walter O. Zambino, and Eric K. Spitz of the Photographic Laboratory.

The complete inaugural ceremony was recorded by the Department of Radio and Television Broadcasting, directed by Burton Paulu. Robert P. Boyle made arrangements for the recording and served as an announcer along with Richard C. Lyon. Lawrence A. Brogger served as chief engineer. The ceremony was broadcast over KUOM the Saturday following the inauguration.

In charge of all policy arrangements for the inauguration was the Senate Functions Committee. Members are: William L. Nunn, director of University Relations, chairman; Cyrus P. Barnum, Jr., professor of physiological chemistry; Frederick E. Berger, director of the Continuation Center; Col. Arthur W. Dern, professor of air science; Wesley J. Grabow, director of Audio-Visual Education Service; Edwin L. Haislet, director of alumni relations; Ralph L. Kitchell, assistant dean of the College of Veterinary Medicine; James S. Lombard, director of concerts and lectures; Paul M. Oberg, chairman of music; Louise A. Stedman, director of home economics; Stewart C. Thomson, as-

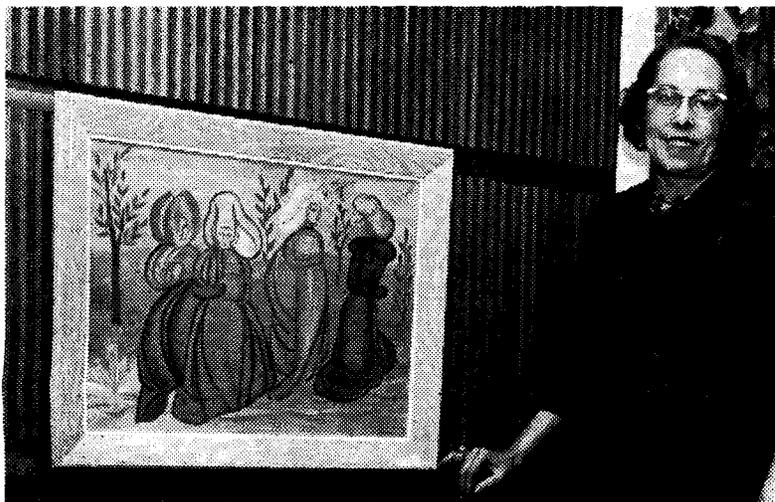
sociate director of the School of Public Health; E. G. Williamson, dean of students; E. W. Ziebarth, dean of summer session; and student members, Nancy Anne Heeter and Garrett Ray Nelson.

Working with the Committee in organizing all inaugural events were Beverly Hamilton and Rita Shemesh, news representatives, and Emmy W. Storholm, principal secretary, all of the Department of University Relations. Serving as advisers were members of the Public Information Council and of the University Land Grant Committee.

In addition to staff members mentioned previously, the Committee received invaluable assistance from Lawrence Catron, artist, who prepared an exhibit of congratulatory telegrams received from around the nation and drew posters and signs of various shapes and sizes; Arthur Ernest, stage custodian, who handled arrangements involving the use of Northrop stage; James Felber, director of the Coffman Union Food Service, and his staff who prepared and served three luncheons and the inaugural dinner; and Richard P. Getchell, assistant to the director of Student Unions, who handled arrangements involving Coffman Union.

Parking provisions and direction of traffic were handled by Clinton B. Hanscom, director of police, and his staff; William T. Harris, Jr., director of news service, was in charge of publicity; Joseph P. Leverone, custodial and grounds superintendent, and his staff handled all special construction such as the boardwalk for the academic procession; and Ray H. Mathews, manager of the Print Shop, Otto A. C. Bauman and Reuben C. Haugan, foremen, were in charge of printing the inaugural invitations and programs.

Arrangements involving the Campus Club were handled by Dale Shephard, manager of the Club. Blanche E. Moen, chief reference librarian, and her staff provided necessary information about the various colleges, universities, and societies which were invited.

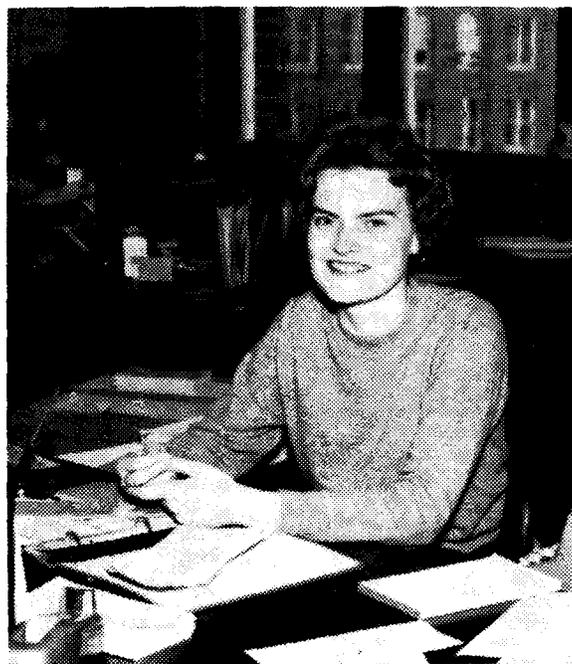


### Gladys Wenker

Painting is the hobby of Gladys Wenker, transcribing machine operator in the 4-H Club office on the St. Paul Campus. Fifteen of her water colors and oils were on display in the St. Paul Campus Student Center Rouser Room during February. Mrs. Wenker studied for two years at the Art School of the Chicago Institute of Art.

### Gerry Scudder

Gerry Scudder, in the Insurance and Retirement office, processes the hospitalization applications for all University employees. Gerry, who drives to work each day (even in snow storms) from Crystal, has been at the University for two years. She spends her summer weekends at Dagget Lake, "where there's nothing like loafing in the sun on a pontoon boat and doing a little fishing, too!" Dagget Lake is near the town of Cross Lake, about 140 miles north of Minneapolis.

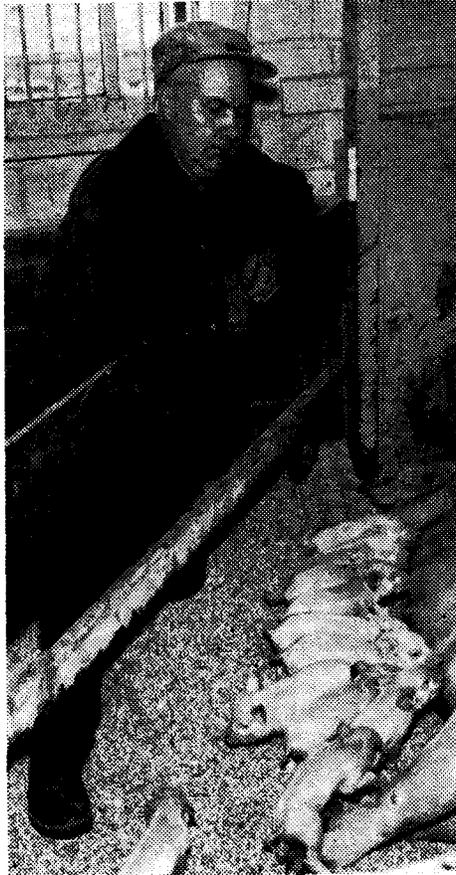


### Dominick Argento

Before coming to the University almost three years ago, assistant professor of music, Dominick Argento, had just completed a stay in Italy on a Guggenheim grant. Professor Argento composed the music for the comic opera "The Boor" which was presented at a University convocation last February. Its premier performance in 1957 in New York won praise for Professor Argento as one of the "front rank American opera composers". The opera has also been produced in Italy and France.



# HAVE YOU MET?



**Glen Swartz**

A gold plaque for "outstanding work in fitting and showing Yorkshire Barrow" was awarded to Glen Swartz by the American Yorkshire Club. Mr. Swartz, herdsman on the St. Paul Campus for 33 years, has brought renown to the University through his extraordinary winning record at the National Barrow Show each year at Austin. He has also done outstanding work on swine nutrition research. An avid sports fan, he attends practically all the University football, hockey, and basketball games. His home is in Lauderdale.



**Cary Hall**

A navy man whose tours of duty have taken him to "just about every part of the world" is Captain Cary Hall, NROTC commander. Captain Hall, a Georgian by birth, came to the University in the fall of 1959. A graduate of the Naval Academy, he received his master's degree at Cornell. He has served on a cruiser and a battleship, and has commanded two destroyers. At one time, Actor Robert Montgomery was his shipmate. His home is in Edina, and he has two sons and a daughter.

**Donalda Burnham**

At home in Spring Lake Park, Mrs. Donalda Burnham's family includes a daughter, Jean, who is a high school sophomore, and a son, Patrick, who is an eighth grade student. Mrs. Burnham has been the engineering librarian since July. Previous to that time she was head of the chemistry library. She has also worked in the circulation and reference departments of Walter Library.



# Have You Heard?

## Staff Appointments, Elections, Activities, Awards

• EUGENE P. PFLEIDER, head of mines and metallurgy, has been elected chairman of the Minnesota Section, American Institute of Mining, Metallurgical and Petroleum Engineers (A.I.M.E.).

• JAMES T. PRIESTLEY, professor of surgery at the Mayo Foundation, was one of the recipients of a gold medallion award conferred upon 22 outstanding figures in American medicine by the Golden Slipper Square Club of Philadelphia in a special program entitled "Salute to Medicine". The Award cited him for his "outstanding surgical practice, teaching, and research at the Mayo Foundation—a training ground for skilled surgeons".

Among the other 22 who were honored were Dr. Paul Dudley White, famous authority on heart disease and medical adviser to former President Eisenhower, and Dr. Selman A. Waksman, discoverer of streptomycin and recipient of the Nobel Prize in physiology and medicine in 1952.

• ATHELSTAN F. SPILHAUS, dean of the Institute of Technology, has been appointed to the National Science Foundation's advisory panel for specialized biological facilities.

• JOHN O. CHRISTIANSON, director of agricultural short courses, has been elected a life member of the State Agricultural Society in recognition of his contributions to agricultural education generally and of his work in conceiving, developing, and promoting the Fair Management Short Course.

• Three books designed by JANE MCCARTHY, production manager of the University of Minnesota Press, were among 27 winners in the 5th annual Midwestern Books Competition. The books were chosen by a jury of three San Francisco bookmen on a basis of typography, design, and quality of production.

Two of the books were published by the University of Minnesota Press. They are *Portage Into the Past: By Canoe Along the Minnesota-Ontario Boundary Waters* by J. Arnold Bolz and *Ambassador from Venice: Pietro Pasqualigo in Lisbon, 1501* by Donald Weinstein. The third book designed by Miss McCarthy, *Oliver Dalrymple: The Story of a Bonanza Farmer*, was published by the Lund Press, Minneapolis.

The Midwestern Books Competition is open to books published or printed and designed in any of these states: Ohio, Indiana, West Virginia, Illinois, Kentucky, Michigan, Minnesota, Wisconsin, Iowa, Missouri, Kansas, Nebraska, North and South Dakota.

• WILLEM J. LUYTEN, chairman of astronomy, served as visiting professor of astronomy at the National University of Mexico, Mexico City, during March. He made the visit under a United States educational grant.

• CHARLES K. OTIS, professor of agricultural engineering, was given the Z. W. Craine Award for outstanding contribution to the knowledge of silage and silos. The Award is made annually by the National Silo Manufacturers' Association. The Award to Professor Otis is the second such award.

• PAUL M. OBERG, chairman of music, will head the faculty for the third annual American Federation of Musicians (A. F. of M.) String Congress to be held for eight weeks this summer at Michigan State University. The student body at the Congress will consist of 100 young string instrument players—winners of scholarship auditions conducted and financed by musicians' locals in the United States and Canada. The scholarships provide eight weeks of intensive instruction under noted teachers.

• WALTER H. UPHOFF, assistant professor of industrial relations and head of the labor education program for the Industrial Relations Center, has been elected to the steering committee of a newly formed University Labor Education Association.

The directors of labor education programs at 17 universities decided to form an association that would permit periodic meetings for the purpose of comparing progress in this specialized area of adult education and to meet with the directors of education of the various unions with whom joint educational programs are conducted.

## President Wilson, Faculty Members Featured In National Magazines

President O. MEREDITH WILSON and members of the University of Minnesota faculty were featured in articles appearing in national magazines during the months of January, February, and March.

President Wilson, his inauguration, and some of his views on higher education were featured in the March 10 issue of *Time*.

ANCEL KEYS, director of the Physiological Hygiene Laboratory, and his cholesterol studies were the subject of a *Time* cover story on January 13. WALTER W. HELLER, former chairman of economics at the University and now chairman of President Kennedy's Council of Economic Advisers, also was the subject of a *Time* cover story in the March 3 issue.

The March 4 issue of *The Saturday Evening Post* carried an article on "artificial

'pacemakers' for faltering hearts" which featured DR. C. WALTON LILLEHEI, professor of surgery, who helped develop the electronic device which is adding years to the lives of many cardiac patients.

The March 18 issue of the *Post* featured an article on the State of Minnesota entitled, "Minnesota Grows Older."

## Grants

• JOSEPH N. FRANK, assistant professor of English, will spend a year in Paris, under a recently awarded research grant, studying the Russian author Dostoevsky's work in relation to Russian cultural history from 1830 to 1880. Professor Frank is one of 22 national recipients of grants for research on Slavic and Eastern European studies sponsored jointly by the American Council of Learned Societies and the Social Science Research Council.

• JOSEPH E. DUNCAN, assistant professor of English at Duluth, has received a Grant-in-Aid of \$1,000 from the American Council of Learned Societies to help in research on changing conceptions of the earthly paradise in relation to John Milton's *Paradise Lost* and the work of other sixteenth and seventeenth century poets.

• IRVING J. LOWE, assistant professor of physics, has been awarded one of 70 Alfred P. Sloan Foundation research fellowship awards. The two-year grant will start in September and will enable Professor Lowe to do basic research in solid-state physics—examination of the properties of solids, using nuclear magnetic resonance techniques.

Professors selected as Sloan research fellows receive grants for basic research in the broad fields of chemistry, mathematics, physics, and related areas. Under the Foundation's basic science program, the scientists are free to determine their own course of research.

• The Minnesota Medical Foundation has awarded a second grant for support of diabetes research at the University Medical School. DR. DONALD A. DUNCAN, fellow in medicine, received \$1,284 which will finance an immunochemical method of insulin assay. The work of Dr. Duncan and his associates will supplement a two-year research program at the University which the Foundation is already supporting. The objective is to develop substitutes for insulin in the treatment of diabetes.

The Foundation's first diabetes research grant went to Dr. Frederick C. Goetz, assistant professor of medicine, in October 1959.

Named chairman of the Foundation's scholarship awards committee was DR. H. MEAD CAVERT, assistant dean of the College of Medical Sciences.

## Dome Club Visits the University

Members of the Dome Club, an organization of Legislators' wives, made their annual visit to the University on March 6, despite a record snowfall the preceding evening.

Members were first taken to the new Architecture Building where they were joined by Mrs. O. Meredith Wilson. Following coffee and cookies in the Architecture Court, the members were taken through the Building by Professor Ralph Rapson, head of the School of Architecture, and were shown a scale model of the West River Campus plans.

Their next stop was the Variety Club Heart Hospital where they were welcomed by Gerald W. Frawley, assistant director, Hospital Administration. William Fleeson, assistant dean of the College of Medical Sciences,

described the medical advances and research in heart diseases that are being carried on at the University. The afternoon ended with a visit to the College of Pharmacy and Appleby Hall where the host was Dean George P. Hager. Herbert Jonas, assistant professor of pharmacy, led the group on a tour of the medicinal plant greenhouse.

Legislators joined their wives for a dinner in Coffman Union, attended by President and Mrs. Wilson and Governor and Mrs. Andersen. The evening concluded with a special showing of *The Merchant of Venice*. Frank M. Whiting, director of University Theater, welcomed the guests, told them about the Theater, and introduced them to some members of the cast.



Members of the Dome Club, along with Professor Rapson, Mrs. O. Meredith Wilson, and Mrs. Elmer L. Andersen, have a group picture taken in the Architecture Court by Warner Clapp, manager of the Photo Laboratory. A print of the photo was presented to each member later that evening at a dinner in Coffman Union.

• A special grant for a year of graduate study in certain problems of diseases of the skin has been created to honor Dr. HAMILTON MONTGOMERY, internationally recognized authority on diseases of the skin and professor emeritus of dermatology of the Mayo Foundation. The grant provides a year's stipend of \$6,000 for graduate study which is intended to serve as a fourth year of graduate training for physicians who are especially interested in teaching and research in the field of dermatology.

• The National Science Foundation has awarded grants totaling \$11,975 to UMD's biology and chemistry departments for support of the "undergraduate research participation program."

The programs will be under the direction of THERON O. ODLAUG, head of biology, and JAMES C. NICHOL, head of chemistry. The grants will provide funds for 10 chemistry students to work on research projects this summer, and for 12 biology and chemistry students during the 1961-62 academic year.

• The University of Minnesota Walter Library is among 20 libraries which will benefit from a recent grant of \$18,147 by the National Science Foundation to the Midwest Inter-Library Center, Chicago.

The grant was awarded for continued

partial support of the Scientific Journals Center, which is operated by the Midwest Center. The project, jointly supported by 20 midwestern universities and the National Science Foundation, makes available to the participating libraries all significant chemistry and biology journals published anywhere in the world.

### News Notes

• An advisory program whereby "professional associates"—well-known business executives—will provide the School of Business Administration students and faculty with first-hand information on approaches used in meeting critical business problems has been started by Dean PAUL V. GRAMBSCH.

The program, which opened in January, calls for a series of campus meetings each month with area executives.

• The University has been awarded a community cancer demonstration project grant of \$92,000 from the United States Public Health Service to produce 13 television films which will report on important research into the causes and treatment of cancer and show a general television audience how basic cancer research can ultimately be useful in the early detection and successful treatment of cancer.

The films, which will be distributed na-

tionally for broadcast by educational and commercial television stations, will be produced by the Department of Radio and Television Broadcasting under the supervision of BURTON PAULU, director of the Department. Writing and production will be under the immediate supervision of SHELDON GOLDSTEIN, assistant director of the Department.

DR. MAURICE B. VISSCHER, head of physiology, will serve as chairman of a newly appointed advisory committee on the television film series. The Committee will include, from the University, DR. JOSEPH B. AUST, associate professor of surgery; CYRUS P. BARNUM, JR., professor of physiological chemistry; DR. ROBERT B. HOWARD, dean of the College of Medical Sciences; REGENT CHARLES W. MAYO, M.D.; DR. OWEN H. WANGENSTEEN, chairman of surgery; DR. LEE W. WATTENBERG, associate professor of pathology; and DR. ARNOLD J. KREMEN, clinical professor of surgery.

Other Committee members are: Dr. Dean S. Fleming, director, division of disease prevention and control, Minnesota Department of Health; Stanley Hawkes, vice president and secretary, Minneapolis Star and Tribune; Dr. D. E. Stewart, Crookston; and Dr. Arthur Wells, St. Luke's Hospital, Duluth.

The programs will be filmed at major cancer research centers throughout the country. Work on the project will begin immediately and the series is expected to be completed this year.

# University of Minnesota Calendar of Events

## APRIL, 1961

### UNIVERSITY CONVOCATIONS

Northrop Auditorium, 11:30 a.m.

(unless otherwise specified)

- April 6—*The Matchmaker* by Thornton Wilder, presented by the University of Minnesota Touring Theater.
- April 13—William Clauson, balladeer and guitarist.
- April 20—Lecture by His Excellency Julius Odochi, ambassador of Nigeria.
- April 26—"Darwin to Einstein", lecture by Herbert Feigl, professor of philosophy and director of the Philosophy of Science Center, North Star Ballroom, St. Paul Campus Student Center, 11:00 a.m.
- April 27—Henry L. Scott, pianist-humorist.

### SPECIAL LECTURES

Mayo Auditorium

- April 14, 8 p.m. — The Honorable Paul G. Hoffman, director, United Nations Special Fund and guest speaker for the Minnesota Conference on World Tensions.
- April 17, 8:30 p.m.—The Honorable Paul Martin, Deputy Leader of the Opposition, Canadian House of Commons; former Minister of Health and Welfare, and guest speaker for the Minnesota Conference on World Tensions.

### GUY STANTON FORD LECTURES

Museum of Natural History Auditorium

- "Modes of Criticism", a series of lectures by Victor Lange, professor and chairman, Department of Germanic Languages and Literatures, Princeton University.
- April 17, 8 p.m.—"Poetic Criticism."
- April 18, 3:30 p.m.—"Academic Criticism."
- April 18, 8 p.m.—"Hermetic Criticism."

### BACH FESTIVAL

- April 12—Chamber Music Concert, directed by George Houle. Architecture Court, 8:30 p.m.
- April 13—"The Chorale Revisited", lecture by Johannes Riedel. Museum of Natural History Auditorium, 8:30 p.m.
- April 14—Orchestra-Choral Concert, directed by David LaBerge. Northrop Auditorium, 8:30 p.m.
- April 15—Organ Concert by Heinrich Fleischer. Northrop Auditorium, 8:30 p.m.

April 16—"Mass in B Minor" with soloists, Festival Chorus and Orchestra, directed by David LaBerge. Northrop Auditorium, 3 p.m.

(The Bach Festival is presented by the Bach Society of the University of Minnesota in cooperation with the Department of Concerts and Lectures and the Music Department. The Festival Orchestra is composed of members of the Minneapolis Symphony Orchestra and the Festival Chorus is composed of University students and Twin Cities citizens.)

### UNIVERSITY THEATER PRODUCTIONS

Regular Production  
Scott Hall Auditorium

April 13, 14, 19, 20, and 21, 8 p.m.; April 15 and 22, 6:30 and 9:30 p.m.; and April 18 and 23, 3:30 p.m.—*The Visit* by Friedrich Duerrenmatt.  
(Single tickets \$1.50 on sale at the Scott Hall Box Office.) \*

Foreign Language Play  
Shevlin Hall Arena Theater

April 18, 19, 20, and 21, 8 p.m.; April 22, 3:30 p.m.—*La Barca Sin Pescador* by Alejandro Casona, in Spanish.  
(Single tickets \$1.00 on sale at the Scott Hall Box Office.)

### UNIVERSITY TELECASTS Seen on Channel 2, KTCA-TV

- Monday, 9 p.m.—School of Journalism Series.  
9:30 p.m.—"At Home With Music" with Department of Music faculty members.
- Tuesday, 9 p.m.—"Juvenile Delinquency."  
9:30 p.m.—"The Civil War" with Rodney C. Loehr, associate professor of history.
- Wednesday, 9-10 p.m.—"Folio" with Arnold Walker as guide.
- Thursday, 9 p.m.—"The African Character" with James L. Gibbs, assistant professor of anthropology.  
9:30 p.m.—"Town and Country" with Ray Wolf.
- Friday, 9 p.m.—"The Civil War".  
9:30 p.m.—"Mythology in Literature" with Roy A. Swanson, assistant professor of classics.

### SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

- Monday-Friday, 1:30 p.m.—"Your Novel." BBC productions of "The Adventures of Sherlock Holmes" will be presented from April 5-21. Beginning April 24, William Hillard will read from *The Fathers* by Allen Tate. The author will introduce the reading on April 24.
- Monday-Friday, 3:55 p.m.—"Community Calendar." Audrey June Booth reports on Twin Cities activities and campus events.
- Monday-Friday, 5:50 p.m.—"University Bulletin Board," a five-minute program devoted to University news.
- Monday-Friday, 6 p.m.—"Evening Concert," classical music selected for dinner-hour listening.

### UNIVERSITY GALLERY EXHIBITIONS

- Through April 5—Major Paintings from the Whitney Museum of American Art: 1900-1957.
- Through April 5—Colorado Print Group.
- April 3-May 5—Lawrence Shustak: Photographs.
- April 17-May 5—Milton Avery Retrospective.

### APRIL UNIVERSITY OF MINNESOTA PRESS PUBLICATION

*Man Takes Control: Cultural Development and American Aid* by Charles J. Erasmus. \$6.50.

### MUSEUM SUNDAY PROGRAM Museum of Natural History Auditorium, 3 p.m.

April 9—"Landscaping to Attract Birds." Robert Phillips, assistant professor of horticulture.

### ATHLETIC DEPARTMENT EVENTS Home Baseball Games Delta Field

- April 7, 3:30 p.m.—South Dakota State College.
- April 8, 1 p.m.—South Dakota State College. (2)
- April 11, 2 p.m.—Luther College. (2)
- April 28, 3:30 p.m.—Indiana University
- April 29, 1 p.m.—The Ohio State University. (2)
- (Tickets at \$1.00 for adults and \$.25 for individuals under 16 on sale at gate only.)

### Tennis

University Courts

- April 12, 1:30 p.m.—Carleton College.
- April 15, 1:30 p.m.—Alumni.

Unless otherwise noted, events are open to the public without charge.

\*Tickets for these events are also available at the Field Schlick Ticket Office, St. Paul, and the Downtown Ticket Office, 188 Northwestern Bank Building, on Monday of the week prior to the performance.

# THE MINNESOTAN

*The University Staff Magazine*

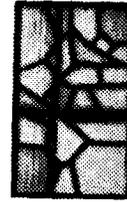
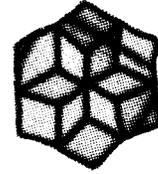
-

*May, 1961*





Original silk screened fabrics are created by students in textile design courses taught by Richard Abell.



## Imagination, Ingenuity Create a World of Color and Design

### On the cover . . .

Translucent window in McNeal Hall of Home Economics is the backdrop for stained glass designs created by related art students. See story on this and following page.

Cover photography by Alan Ominsky

Vol. XIV

No. 8

### THE MINNESOTAN

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

William L. Nunn, Director

Beverly Sinniger ..... Editor  
Jo Anne Ray ..... Associate Editor  
Advisory Committee: Members of the University Public Information Council.

*The Minnesotan* is published monthly October through May. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2.00 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.

Second-class postage paid at Minneapolis, Minnesota.



Professor Esteros, head of the related art division, assists a student in a class in costume design.

## Beauty as a Part of Living Is Goal of Students in the

# RELATED ART DIVISION

**M**ONKEY WRENCHES, buttons, match books, and other apparently unrelated objects share one thing in common in the hands of related art students in the School of Home Economics—they are the tools with which a myriad of fabric designs are created. To related art students, items of every conceivable size, shape, and texture, from a paper clip to a potato peel, are potential fabric designs, and the range of the students' imagination and ingenuity can be seen in the exhibit on display now through May 9 in the McNeal Hall of Home Economics.

In addition to the original silk screened fabrics, also on display are mosaics made from a variety of seeds, mobiles made from tissue paper and discarded wire from Western Electric Company, block prints, room perspectives of various interior decorating schemes, and original clothing designs. All the items were designed and made by students in the related art courses of the School of Home Economics.

Art as a part of living which enriches experiences, extends the range of art understanding, improves homes,



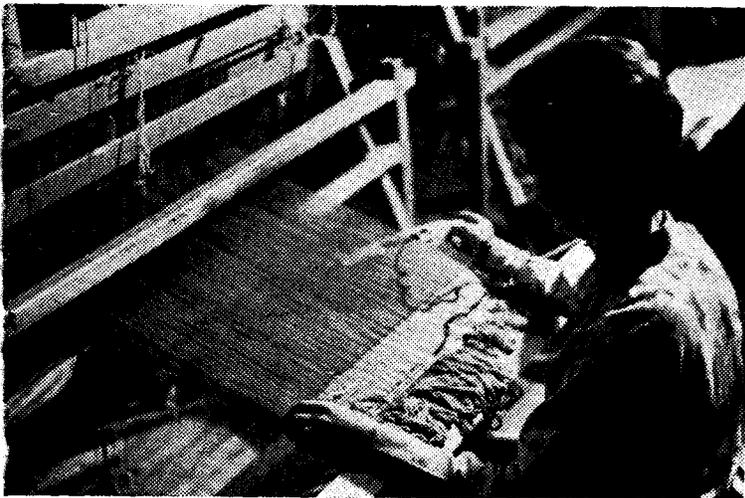
Finishing touches are applied to a decoration.

and prepares students for careers in the related art field is the basic concern of the related art division. Gertrude A. Esteros is head of the division and Louise A. Stedman is director of the School of Home Economics.

The division offers courses in home planning and furnishing taught by Helen Ludwig and Juliette I. Myren, associate professors, and Robert J. Forsyth, instructor. Courses in crafts and textile design are taught by Richard Abell, instructor, and courses in costume design are taught by Professor Esteros. Professor Esteros also directs the graduate work and instructs courses in art history.

The showing of student art is open to the public Monday through Friday from 9 a.m. to 4:30 p.m.

Skill in using the shuttle and loom is acquired by related art students.





A U.S. Hercules plane unloads equipment for scientists at Camp Minnesota in a matter of minutes. As the plane is taxiing along the snow covered ground, a ramp is lowered and cargo tumbles out.

Land of ice and snow—challenge and beauty

# ANTARCTICA

Official U.S. Navy Photographs.



An ice igloo made by the research team for emergency shelter.



The "Jamesway Hut" which served as the main office and mess hall.

**O**VER 8,000 MILES from the Twin Cities, near the South Pole, there's another land called Minnesota. It was founded just last year in December on the barren ice and snow desert of Antarctica by a geological research team from the University . . . and it is named Camp Minnesota.

Campbell Craddock, associate professor of geology, headed the University team of scientists which set up the camp site. Camp Minnesota was used as the home base during six weeks of Antarctic field investigations.

The group included Robert H. Rutford, research fellow; Thomas P. Miller, Paul G. Schmidt, Gerald F. Webers, John F. Spletstoesser, and Thomas W. Bastien, research assistants; and Dr. Raymond Bonnabeau, medical fellow in surgery. A topographic engineer from the U.S. Geological Survey also accompanied the group.

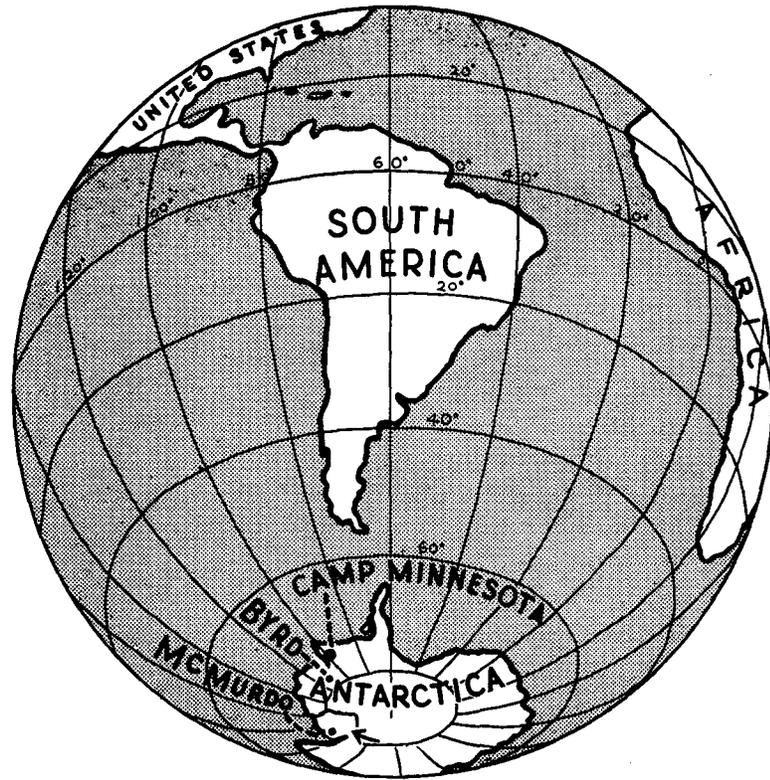
This field work was the major phase of a series of Antarctic geological investigations being carried out by Professor Craddock under an \$85,000 grant from the National Science Foundation.

Three team members received preparatory training in the Teton Mountains in Wyoming on "how to get out of a crevasse." Survival techniques were learned during a final week's orientation by the National Science Foundation in Virginia.

The Craddock team was flown from Washington by the Military Air Transport Service to California, Hawaii, New Zealand, and then Antarctica, arriving at McMurdo Base along the Ross Sea on November 22. McMurdo is one of the three bases maintained by the United States Navy for the Antarctic Research Program of the National Science Foundation. McMurdo is on the coast, but the other two, Byrd and Pole Stations, are in the interior on the permanent ice cap. All three were set up for the International Geophysical Year in 1957-58. During that year, 12 nations created some 47 bases for scientific research. Prior to that time, there had been only a few permanent establishments on the continent.

At McMurdo base four of the men and all of the equipment were loaded into two C-130 Hercules planes for the trip to their prospective camp site, 1400 miles east. Just prior to

# University scientists spend six weeks in Antarctica carrying out geological investigations.



this flight, a "shovel crew" consisting of the other five men had been flown out from Byrd Station in a smaller plane to establish a 3,000 foot ice runway for the large, ski-equipped Hercules planes.

The group first erected a "Jamesway Hut" (wood ribbing with canvas sheets stretched over the top and ends) which served as the "main office and mess hall" for the team while stationed at Camp Minnesota. Small tents were used for sleeping. Although temperatures in the Antarctic interior become very extreme, the weather at the camp site, 40 miles from the coast, was not too cold, averaging zero to about 35 degrees above. Elevation in this area was about 1,500 feet above sea level, comparable to the North Shore area of Minnesota.

While at Camp Minnesota, the scientists mapped the region geologically and surveyed the nearby Jones Mountain Range (which was discovered and unofficially named in 1959 by an airborne party of which Professor Craddock and Edward C. Theil, now assistant professor of geophysics, were members). They also collected rock specimens for petrographic study

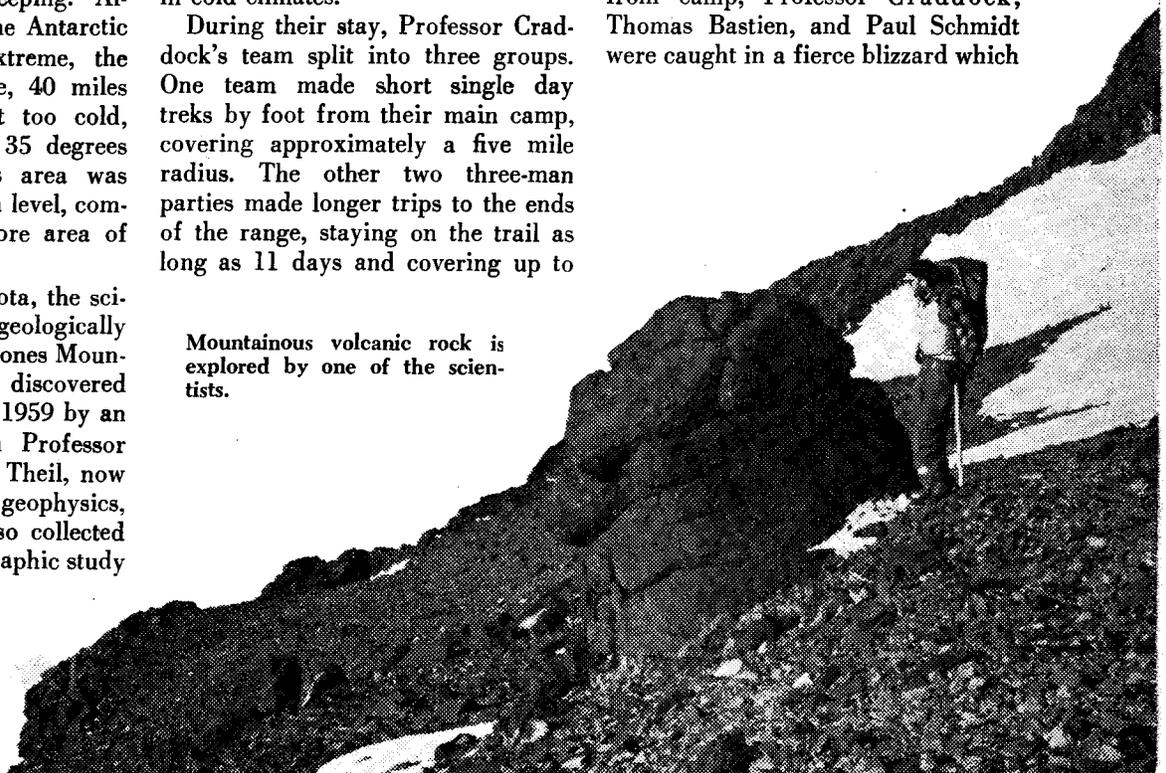
and age determination. Meteorological records were kept on temperature, wind speed and direction, relative humidity and cloud cover, and snow accumulation, which was found to be five inches in four weeks.

Snow pits were dug and the walls photographed for studying the snow stratigraphy. Dr. Bonnabeau ran blood-volume studies on all the men. Analysis of his data will test the theory that blood volume is reduced in cold climates.

During their stay, Professor Craddock's team split into three groups. One team made short single day treks by foot from their main camp, covering approximately a five mile radius. The other two three-man parties made longer trips to the ends of the range, staying on the trail as long as 11 days and covering up to

40 miles. Daily radio contact was always kept with the men in the Jamesway Hut. Because high wind velocity (recorded up to 80 miles an hour) can whip the snow into a blinding blizzard in a matter of minutes, survival provisions for as long as two weeks had to be taken with each party leaving the main camp site. Each man was provided a harness and pulled, dog-style, a sled weighing about 150 pounds. While on the trail five miles from camp, Professor Craddock, Thomas Bastien, and Paul Schmidt were caught in a fierce blizzard which

Mountainous volcanic rock is explored by one of the scientists.





Antarctic "frontiersmen" are pictured after their six weeks stay at Camp Minnesota. Front row, left to right, includes Robert H. Rutford, Professor Campbell, Gerald F. Webers, and Thomas W. Bastien; back row, left to right, Dr. Raymond C. Bonnabeau, Paul G. Schmidt, Thomas P. Miller, John F. Spletstoesser, and J. M. Anderson, the U.S. Geological Survey engineer. *Official U.S. Navy Photograph.*



Right and above right. Scientists "on the trail." The tents were made of bright pink canvas for easy detection.



lasted for three days. "We pitched our tent in the storm and then just sat it out, staring at each other for three days," explained Professor Craddock. "During this particular blizzard, our tent was blown down once at 2 a.m. In a later storm one tent was buried under drifting snow and four men spent the next night and day in one small tent."

Five years ago most of the continent — the size of the 48 states and Alaska — was unknown. Today, a large part of its almost five million square miles has been studied at least in reconnaissance by geologists, glaciologists, and geophysicists. Camp Minnesota was established along the coastline of west Antarctica because of scientific interest in "what happens" to the Andean mountain chain which has been traced only to the base of the Antarctic peninsula below South America. In South America, the Andes Mountains are rich in copper and oil.

Scientists are also attempting to determine whether west Antarctica itself is an oceanic archipelago of volcanic islands or if it is a conti-

mental area, geologically speaking. Professor Craddock's team found granite rock specimens below volcanic material, which supports the idea that west Antarctica is truly a continent and not simply an ice-covered archipelago.

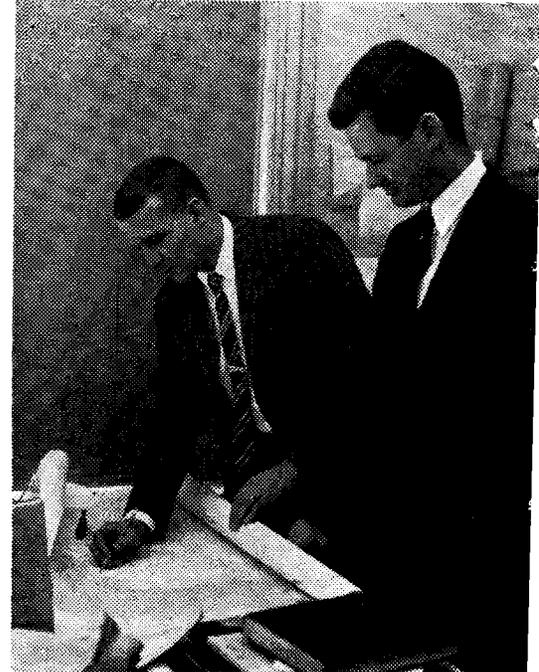
Near Camp Minnesota, rocky, volcanic peaks, jutting upward as high as 4,000 feet, pierce the vast whiteness of Antarctica's mantle of ice and snow.

Lichens, mosses, and other botanical materials were collected for laboratory study. The scientists discovered the site of a snow petrel (white Antarctic bird) nesting ground, and banded five skua gulls. A lone penguin visited their camp site, walking over the snow surface at least 40 miles from the nearest sea coast.

After six weeks, the team was picked up and flown back to Byrd Station and down to McMurdo Sound. From there they split into two teams for further geological investigations in nearby areas.

They returned to the Twin Cities in March.

Below: Professor Craddock, left, outlines an area covered by one of the expeditions while at Antarctica. With him is Dr. Bonnabeau.





President Wilson looks on as E. J. Chilgren, speaker of the House, administers the oath of office to B. E. Grottum, new University Regent.

## B. E. Grottum Is New University Regent

**B**JARNE E. GROTTUM, Jackson lawyer, former legislator, and now president of the First National Bank of Jackson, was installed as a new member of the Board of Regents at the April 14 meeting of the Board. Regent Grottum was elected by a joint session of the House and Senate on April 6 to fill the Second Congressional District post of Edward B. Cosgrove, LeSueur, who resigned recently when he moved to Edina, outside of his district.

Reelected to the Board of Regents at the same joint session were Regents Daniel C. Gainey of Owatonna, representing the First Congressional District; Robert E. Hess of White Bear Lake, the Fourth Congressional District; A. J. Olson of Renville, the Seventh Congressional District; and Herman F. Skyberg of Fisher, the Ninth Congressional District.

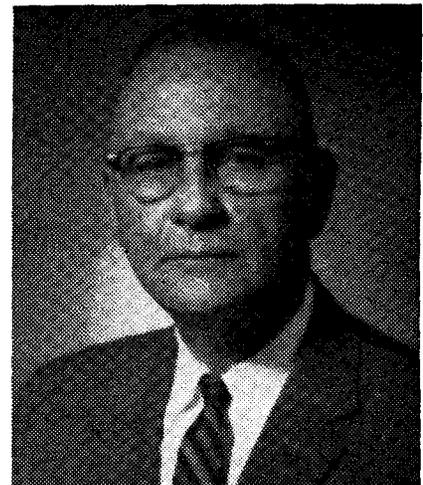
Born in Minneapolis and raised in

Jackson County, Regent Grottum was graduated from Windom High School and from the University of Minnesota Law School. He practiced law for 37 years in Jackson and was Jackson County attorney for 12 years.

A state senator from 1947 through 1953, Regent Grottum served on the Senate Finance Committee and on a sub-committee which analyzed the University budget along with the budgets of other state institutions.

"I feel that it is a great honor to be elected to the Board of Regents, and I will do whatever I can for the good of the University," said Regent Grottum when asked to comment on his election.

Regent Grottum is married to the former Thora Fullerton, widow of Judge D. H. Fullerton of Brainerd. He and Judge Fullerton were classmates at the University. Regent Grottum has a daughter, Mrs. R. H. Troup of Green Bay, Wis.

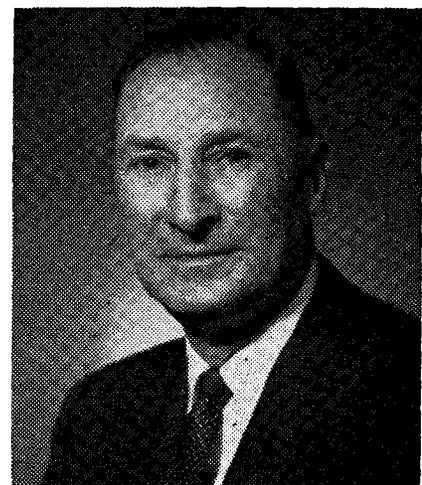
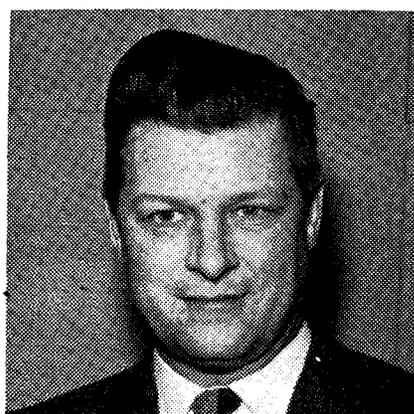


Regent A. J. Olson

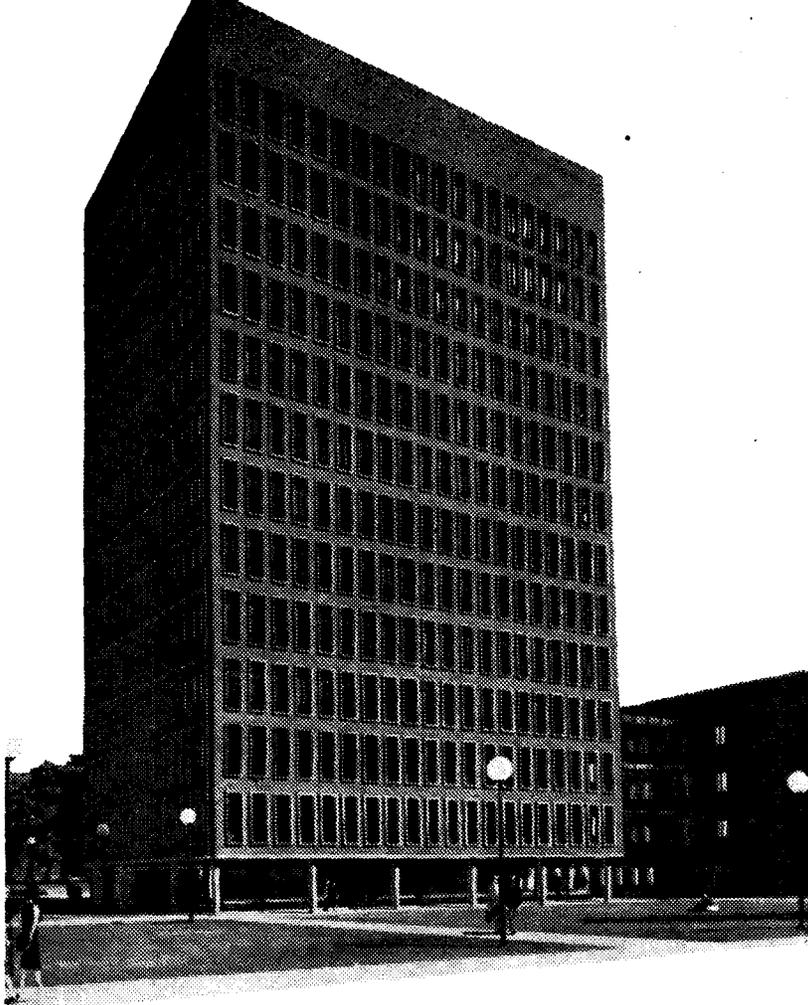
Regent Daniel C. Gainey



Regent Robert E. Hess



Regent Herman F. Skyberg



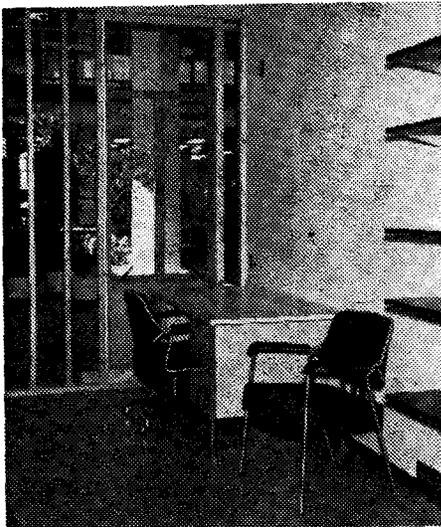
**School of Business Administration Tower**

# THE WEST CAMPUS

**T**HE LONG PLANNED FOR and much talked about West Campus of the University of Minnesota will soon begin to make its appearance on the West River skyline as girders, brick, and mortar reach for the sky with the construction of two office buildings and a classroom building. Final architect's drawings are now on display in the Campus Club.

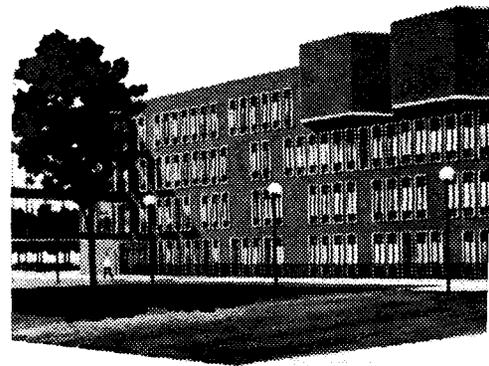
With space at a premium, the University — like Manhattan — is going up. An office building for the School of Business Administration will have 13 floors and office and conference space for 400 faculty and staff members; a humanities and social sciences office building will have 15 floors and space for 460 faculty and staff members. Each tower will be connected to the new classroom building, which will have four floors in addition to the basement.

Special features of the new classroom building include two hexagonal rooms for large classes and three horseshoe-shaped rooms designed after the case study rooms first used at Harvard University. The case study rooms seat approximately 65 stu



Inside view of a professor's office, typical of those to be constructed in the new office towers, is shown in this replica on display in the Architecture Courtyard.

## Classroom Building



# CAMPUS GOES UP!

Students sit at desks each while still maintaining the informal atmosphere of the small seminar. Each room has three rows of chairs in a horseshoe formation, with the rows elevated as in an amphitheater. The chairs pivot, allowing each student to swing completely around and address a fellow student sitting behind him. The rooms have proven effective in stimulating classroom discussion.

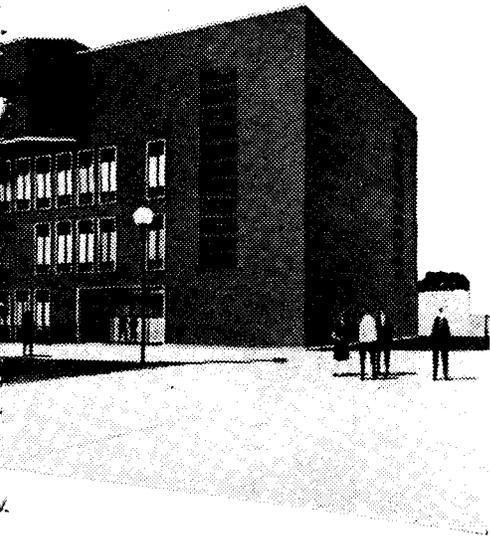
Special meeting areas for faculty and students are located on each floor of the classroom building at the point where the building connects with the office towers. In addition, the first floor of each office tower also provides student-faculty meeting areas.

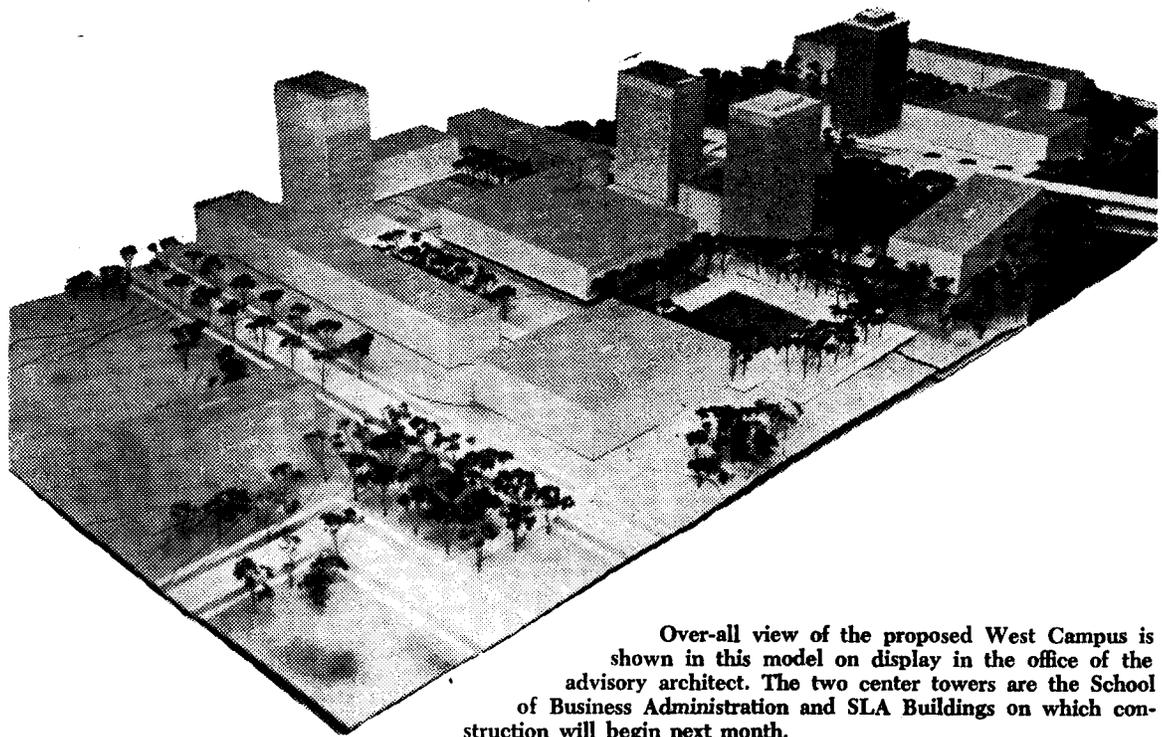
These three new buildings will be centrally located in the West Campus, adjoining a future library and other instructional buildings. Excavation work is now completed and building construction should begin sometime in June. The buildings are scheduled to be ready for occupancy by the fall of 1962.

Funds for the buildings were appropriated by the 1959 legislature.

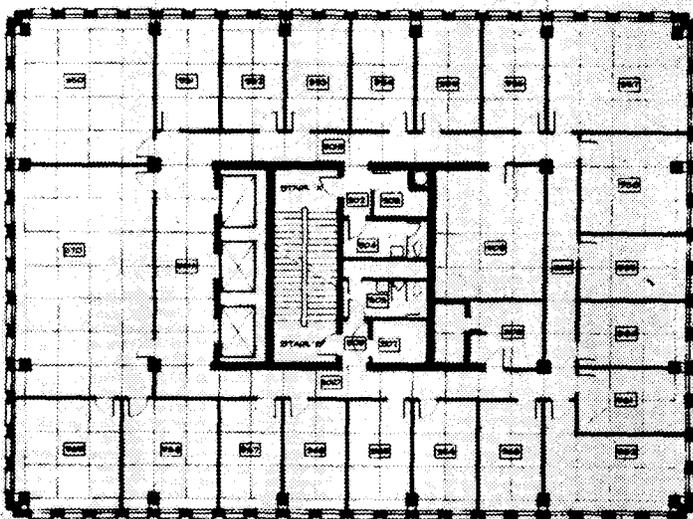


SLA Tower

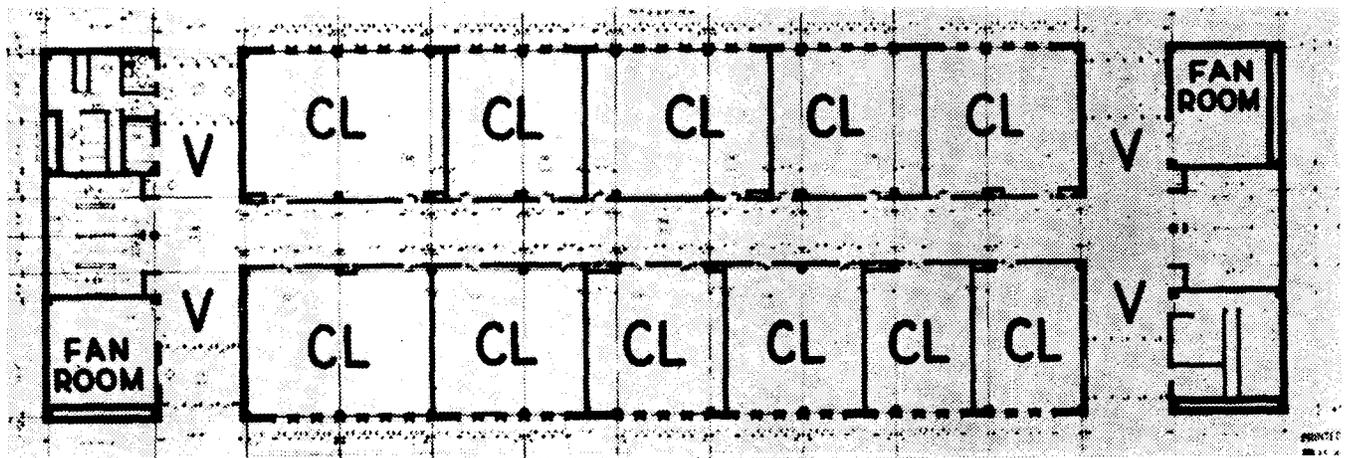




Over-all view of the proposed West Campus is shown in this model on display in the office of the advisory architect. The two center towers are the School of Business Administration and SLA Buildings on which construction will begin next month.



Left: Office tower floor plan. Floor space in a typical office measures 9 by 15 feet. In the center core are elevators, stairways, and washrooms. A large office for a department or division is shown off left corridor. Below: Classroom Building floor plan showing Classrooms (CL) and vestibules (V). Mechanical equipment rooms (Fan Rooms) are on each floor to help facilitate ventilation of classrooms.



# — Have You Heard? —

## Staff Appointments, Elections, Activities, Awards

- ARNOLD M. ROSE, professor of sociology, has been elected Midwest Sociological Society president for 1961-62.
- WILLIAM J. MICHEELS, chairman of the Industrial Education Department, was elected president of the American Industrial Arts Association, Inc., at the organization's annual convention in April.
- FRANK D. HIRSCHBACH, assistant professor of German, has been elected vice president of the Midwest Modern Language Association.
- Two University faculty members have been elected presidents of two American Personnel and Guidance Association divisions. WILLIS E. DUGAN, professor of educational psychology, was named head of the Association for Counselor Education and Supervision, and LLOYD H. LOFQUIST, professor of psychology, was chosen to head the Division of Rehabilitation Counseling.
- EDMUND G. WILLIAMSON, dean of students, has been appointed to a new committee of the National Association of Student Personnel Administrators which will study the role of student personnel administrators in supervising various student activities such as political demonstrations.
- THOMAS E. KEYS, assistant professor of the history of medicine at the Mayo Foundation, has been elected a member of the Section of Medical History of the Swedish Medical Society.
- WERNER W. BOEHM, professor of social work, has been appointed to Governor Andersen's Citizens Council on Aging.
- Two faculty members have been named to department chairmanships within the College of Science, Literature, and the Arts. D. BURNHAM TERRELL, associate professor of philosophy, has been appointed chairman of the Philosophy Department to succeed Professor Alan H. Donagan who will join the staff of Indiana University later this year as head of the philosophy department.
- EUGENE C. MATHER, associate pro-

fessor of geography, has been appointed chairman of the Geography Department for a three-year term starting next fall. He will succeed Professor John R. Borchert who will spend much of his time during the next several years on the Upper Midwest Economic Study.

- RAYMOND B. NIXON, professor of journalism, left in March for a five-and-a-half months tour of Europe and the Middle East as a journalism specialist for the United States State Department's Bureau of Educational and Cultural Affairs.

As State Department specialist, Professor Nixon will lecture to university and professional groups in eight countries from April 1 to September 11. He will visit Finland, West Germany, Poland, Yugoslavia, Greece, Lebanon, Egypt, and Jordan.

- Books designed by JANE McCARTHY, production manager of the University of Minnesota Press, have again received national recognition. Selected as Top Honor Books in the twelfth annual exhibit of the Chicago Book Clinic early in March were Weinstein's *Ambassador from Venice: Pietro Pasqualigo in Lisbon, 1501*; Robert's *Bird Portraits in Color*, and Elsen's *Rodin's Gates of Hell*, all published by the University of Minnesota Press. Weinstein's book was also chosen for inclusion in the annual Fifty Books of the Year exhibition sponsored by the American Institute of Graphic Arts. The books were chosen by a jury from more than 800 entries, and were selected to represent the highest standard of design, printing, and binding.

- RALPH D. CASEY, director emeritus of the School of Journalism, received the honorary doctor of laws degree from Marquette University on the occasion marking the 50th anniversary of the Marquette University College of Journalism. Professor Casey also delivered the anniversary honors convocation address on "Journalism Training and the Mass Media".

- PRESTON E. CLOUD, JR., research geologist with the U. S. Geological Survey, has been appointed professor and chairman of geology and mineralogy at the University. Professor Cloud, who received his B. S. degree from George Washington University in 1938 and his Ph.D. from Yale University in 1940, has been a member of the faculties at the Missouri School of Mines and Metallurgy and at Yale and Harvard Universities.

## Research, Study, Travel Grants

- Four University faculty members have received Fulbright Awards for travel, research, and teaching in foreign countries during the 1961-62 academic year. The recipients are ALRIK GUSTAFSON, chairman of the Scandinavian Department; REUBEN L. HILL, director of the Family Study Center; ROBERT JENNESS, professor of agricultural biochemistry; and MERLE P. MEYER, associate professor of forestry.

Professor Gustafson will arrive in Stockholm for the opening of the fall quarter at the University of Stockholm where he will conduct research in Scandinavian literature during the academic year. Professor Hill will lecture in family sociology at Louvain University, Belgium, and Professor Jenness will conduct research on milk proteins and dairy chemistry at the Netherlands Institute for Dairy Research. Aerial photogrammetry—the use of aerial photographs for mapping, timber cruising, laying out roads and logging operations—will be the special field in which Professor Meyer will work at the Agricultural College of Norway.

- A new grant to aid scientific research in geology and mineralogy has been awarded to the University by Research Corporation, a foundation. TIBOR Z. ZOLTAI, assistant professor of geology, will use the \$3,750 grant to study "Improved X-ray Patterns of Clay Minerals".

• Three University faculty members are recipients of American Council of Learned Societies Awards for the 1961-62 academic year. JACOB C. LEVENSON, professor of English, received one of the 26 post-doctoral fellowship appointments from the Society. These Awards free the recipients from regular duties to engage in research in the humanities for periods of six months to one year. Professor Levenson will leave August 1 with his family for a year's study and research in London. He is working on a book on the American novel from James to the present.

JOSEPH E. DUNCAN, assistant professor of English at Duluth, and DARRETT B. RUTMAN, instructor in history, received grants for research in the humanities and related social sciences. Professor Duncan is now on sabbatical leave doing research on the early history of changing ideas of paradise, and the use of these conceptions by Milton and others. Mr. Rutman will leave for Massachusetts in June to spend three months doing research for his book, *Winthrop's Boston: An Institutional Portrait of A Puritan Town*.

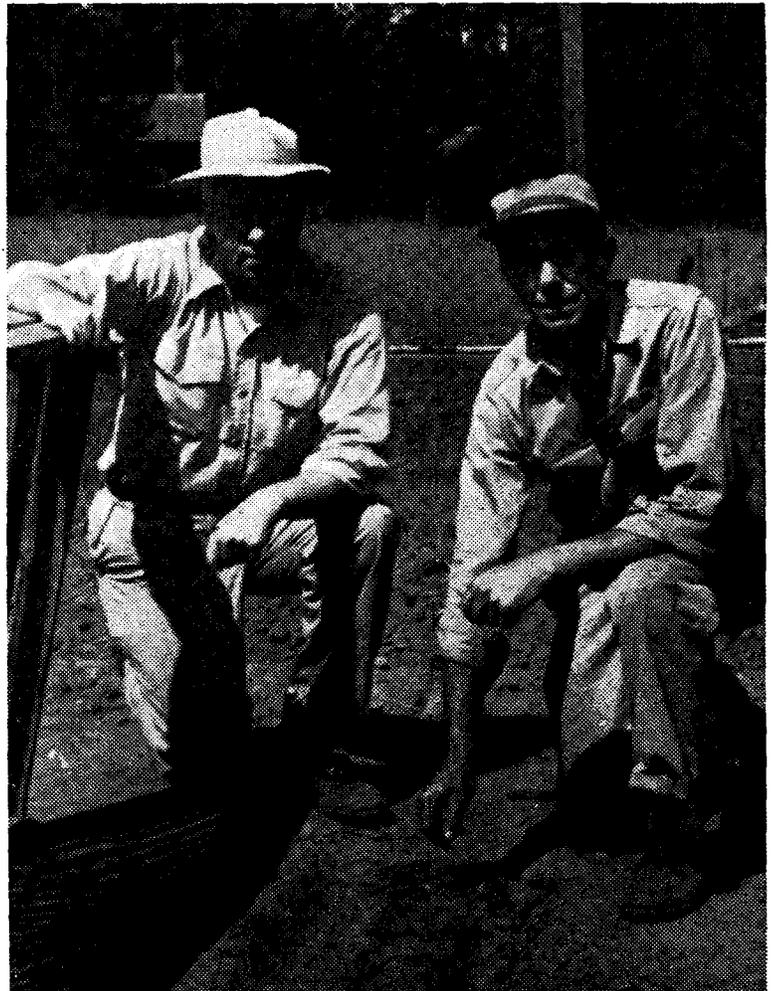
(Continued on Page 14)



**Milton Baker**

Electronics repairman in the Audio Visual department in Wesbrook Hall is Milton Baker, who has worked for the University for six years. Minnesota has always been his home, and he enjoys "the land of 10,000 lakes", being an avid fisherman as well as a hunter. Mr. Baker is married and lives in Brooklyn Park. His family includes two boys, three and four years of age.

**HAVE  
YOU  
MET?**



**Raymond Jensen and Lloyd Bolstad**

Checking the growth of tiny pine trees started from seed at the Forest Research Center at Cloquet are Raymond Jensen, left, assistant scientist, and Lloyd Bolstad, forestry foreman. Mr. Jensen earned his degree in forestry from the University in 1937 and in that same year he began working at the Research Center. Mr. Bolstad has been forestry foreman for nine years. He lives in Cloquet with his family, which includes two daughters. His older daughter was Miss Duluth of 1960.



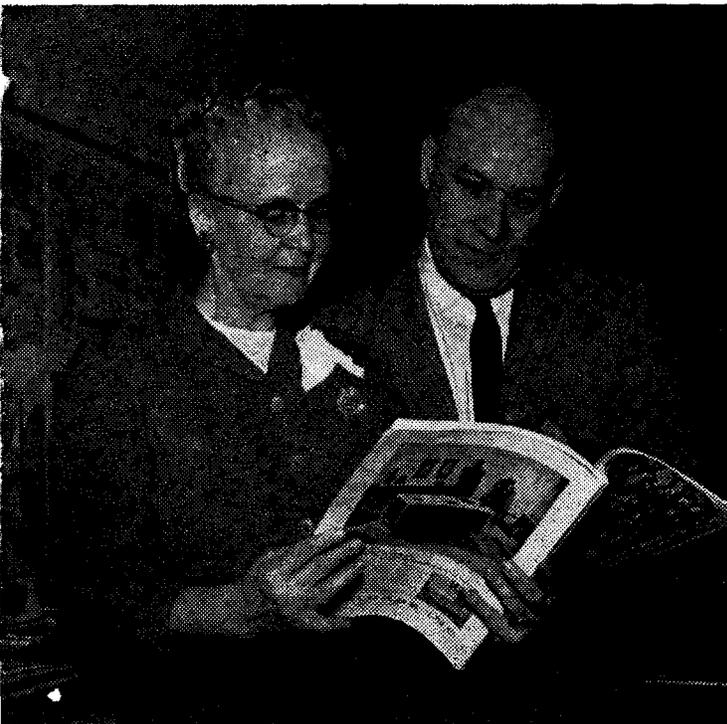
### Margaret Taarud and Stella Melbostad

Mrs. Margaret Taarud, left, and Miss Stella Melbostad together can add up over 60 years of service to the University. Both work in the Agronomy and Plant Genetics Department office on the St. Paul Campus. Miss Melbostad is secretary to W. M. Myers, the department head. Mrs. Taarud, principal secretary, is in charge of the budget and payroll. Reading is a favorite pastime for each of them. Both live in St. Paul.



### C. Patricia Theimer

Miss C. Patricia Theimer, formerly Lutheran Student Counselor at the University of Minnesota, Duluth, accepted new duties this year as Coordinator of Housing and Student Religious Activities. Her varied background includes several years as social worker among agricultural migrants of the Southwest. She earned her degree from the University, Minneapolis, and also graduated from the University of Denver School of Social Work.



### Leah M. Lewis and Immanuel C. Fischer

Associate professors Leah M. Lewis and Immanuel C. Fischer are two full time faculty members who teach only Extension courses, mainly evening classes. Mrs. Lewis has taught evening classes full time since 1945. She teaches interior design and the class subjects include decorative fabrics, styles, colors and floor coverings. She received her B.S. degree from the University of Minnesota and is a graduate of the Chicago Art Institute. Professor Fischer teaches mathematics and engineering courses from 6:20 to 9:20 in the evening. His service to the University in extension work adds up to 20 years. He completed his graduate work at Marquette University and the University of Wisconsin. Both professors also teach correspondence courses.

(Continued from Page 11)

• J. VERNON JENSEN, assistant professor of speech, has received a Fulbright Grant for lecturing in English literature, language, and composition at the State Training College for Teachers, Rangoon, Burma. Professor Jensen and his family will leave June 1 for Burma and will spend the Burmese academic year there, returning to the University in April, 1962.

### Regents' Scholarships Winners

The following staff members are winners of Regents' Scholarships for Spring Quarter day school:

AUSTRIS E. CERS, junior engineer, Aeronautical Engineering; JUNE CHECKLUND, library assistant, Math-Physics Library; WAYNE W. DALEY, sanitarian, Health Service; RITA A. DRONE, librarian, Law Library; PATRICIA L. ECKHART, senior secretary, School of Social Work; GRACE E. ENGLER, junior scientist, Laboratory Medicine; MARJORIE L. FISH, assistant nursing supervisor, University Hospitals; DELORES H. FITCH, senior clerk-typist, Interdisciplinary Studies; AXEL M. GABRIELSON, assistant herdsman, Dairy Husbandry; DALE W. GUILMONT, tabulating machine operator, Business Office; and MARY ANN HAVIR, senior account clerk, Extension Division.

ANDREA M. HILDEBRANDT, senior clerk-typist, Agricultural Biochemistry; JOYCE G. HILLMER, principal secretary, Physics; H. JEAN HOLMAN, general staff nurse, University Hospitals; CAROLE M. JOHNSON, secretary, Political Science; ALTON L. KOLLMANN, manager, Coffey Hall Bookstore; MAUREEN E. LOCKE, senior secretary, School of Business Administration; MARIANNE E. MAGNUSON, general staff nurse, School of Nursing; RAE C. MENA, head hospital nurse, University Hospitals; and ALBERT N. NELSON, junior scientist, Medicine.

ELAINE M. PITTELKO, bookkeeping machine operator, Plant Services; SANDRA I. RUONA, senior clerk-typist, Student Counseling Bureau; THOMAS P. SIMON, senior general mechanic, University Services; MARLENE M. SOWADA, senior clinic nurse, University Hospitals; JUNE B. STEIN, student personnel worker, Student Counseling Bureau; JOANN M. SULLIVAN, secretary, Philosophy of Science; HUBERT J. THIBODEAU, junior engineer, Plant Services; DORIS M. TONSBURG, head hospital nurse, Masonic Memorial Hospital; and ARNOLD W. WALKER, television program supervisor, Radio and Television Broadcasting.

Winners of Regents' Scholarships for the spring quarter in the General Extension Division are VICTOR B. JOHN, laboratory machinist, Mechanical Engineering, and MILDRED B. RICCI, senior secretary, Physics.

## Honorary Degrees

The University is unique in many ways and rich in tradition. It is unique among major universities in that it has awarded very few honorary degrees. Therefore, the granting of an honorary degree is an occasion of great significance. The University has bestowed only 40 honorary degrees since its founding 110 years ago. Humanitarians, presidents, conductors, scientists and generals have been among the recognized few so honored by the University for their significant contributions to humanity and for their eminent professional attainment. Recipients of honorary degrees, the name of the degree and the year granted are:

William Watts Folwell, president of the University from 1869 to 1884, Doctor of Laws, 1925; George Edgar Vincent, president of the University from 1911 to 1917, Doctor of Laws, 1931; Frank B. Kellogg, judge of the Permanent Court of International Justice, Doctor of Laws, 1931; Gratia Countryman, chief librarian, Minneapolis Public Library, Doctor of Laws, 1932; William James Mayo and Charles Horace Mayo, founders of the Mayo Clinic, Doctors of Laws, 1935; Elbert H. Carpenter, president of the Orchestral Association of Minneapolis, Doctor of Music, 1935; Ada Comstock, University dean of women and later president of Radcliffe College, Doctor of Laws, 1936; Sister Antonia McHugh, president of the College of St. Catherine, Doctor of Laws, 1936; Henry Johnson, University graduate and professor of history, Teachers' College of Columbia University, Doctor of Laws, 1937; F. Melius Christiansen, director of the St. Olaf College Choir, Doctor of Music, 1937; and Frederick May Eliot, pastor of Unity Church, St. Paul, Doctor of Laws, 1937.

Fred B. Snyder, chairman of the Board of Regents from 1912 to 1950, Doctor of Laws, 1940; Charles P. Berkey, University graduate and head of the Department of Geology, Columbia University, Doctor of Science, 1940; Thomas S. Roberts, University professor of ornithology and director of the Minnesota Museum of Natural History, Doctor of Science, 1940; Louis B. Wilson, director of the Mayo Foundation, Doctor of Science, 1940; Dimitri Mitropoulos, director of the Minneapolis Symphony Orchestra, Doctor of Music, 1943; Donald J. Cowling, president of Carleton College, Doctor of Laws, 1945; Andrew Boss, University professor and chief of the division of agronomy and farm management, Doctor of Science, 1945; Walter Castella Coffey, president of the University from 1941 to 1945, Doctor of Science,

1946; Guy Stanton Ford, president of the University from 1938 to 1941, Doctor of Humane Letters, 1946; Herman Haupt Chapman, University graduate and professor of forest management at Yale University, Doctor of Science, 1947; Arville Irving Levorsen, University graduate and dean of the School of Mineral Sciences at Stanford University, Doctor of Science, 1947; Edward F. Waite, judge of the District Court of Minnesota, in charge of the Juvenile Court, Doctor of Laws, 1949; Gregg Manners Sinclair, University graduate and president of the University of Hawaii, Doctor of Laws, 1949; and Thomas Poe Cooper, University graduate, pioneer in agricultural education, and a president of the Association of Land Grant Colleges and Universities, Doctor of Science, 1949.

Elmer Edgar Stoll, University professor and Shakespearean scholar, Doctor of Humane Letters, 1950; Everett Fraser, dean of the University Law School from 1920 to 1948, Doctor of Laws, 1951; Solon J. Buck, director of the Minnesota Historical Society, archivist of the United States, and chief of manuscripts and assistant librarian of the Library of Congress, Doctor of Laws, 1954; Lt. Gen. John Ernest Dahlquist, University alumnus and Chief of Army Field Forces, Fort Monroe, Virginia, Master of Arts, 1954; Maj. Gen. Stanley Raymond Mickelson, University alumnus and Commanding General of the Antiaircraft and Guided Missiles Center, Fort Bliss, Texas, Master of Arts, 1954; Robert Newton, president of the University of Alberta, Doctor of Science, 1954; Elvin Stakman, University faculty member and a leading authority in the field of plant pathology, Doctor of Science, 1954; Carl F. Hellström, Swedish Consul General, Master of Arts, 1955; Frederick L. Hoyde, University graduate and president of Purdue University, Doctor of Laws, 1956; Russell A. Plimpton, director of the Minneapolis Institute of Arts, Master of Arts, 1956; Edward W. Davis, superintendent and director of the Mines Experiment Station and a leader in developing the taconite process, Doctor of Science, 1956; Walter H. Brattain, University graduate and a winner of the Nobel Prize in physics, Doctor of Science, 1957; Farrington Daniels, University graduate, chairman of the Department of Chemistry at the University of Wisconsin, and internationally recognized research chemist, Doctor of Science, 1957; and Gunnar H. Nordbye, University graduate and Chief Judge of the United States District Court, District of Minnesota, Doctor of Laws, 1959.

**University of Minnesota Faculty  
Women's Club marks its**

**GOLDEN YEAR**

**T**HE UNIVERSITY OF MINNESOTA FACULTY WOMEN'S CLUB marked its 50th Anniversary with a luncheon and style show attended by some 600 guests and members in the main ballroom of Coffman Memorial Union on Saturday, April 22.

March 18 marked the date of its founding by a group of 143 faculty wives in 1911. Today, membership has reached almost 900. Since its beginning, the Club has been expanding into a wide variety of interest groups, now over 17 sections, from home and garden, international affairs, modern literature, newcomers and bridge, to art.

Three years after its founding, the Club established a loan fund for women students from proceeds earned from plays, concerts and other projects. In 1944, scholarships for women students were instituted to replace the loan system.

Through two world wars and the Korean conflict, faculty women have banded together to work as dietician aids, gray ladies, Red Cross workers, and nurse's aids — to name a few. They knit afghans for military hospitals, made surgical dressings and baked cookies. They also adopted two French war orphans.

The play room for toddlers at University Hospitals was installed through the efforts of Club members. They also have provided television sets, radios, and wheelchairs.

Membership in the University of Minnesota Faculty Women's Club is open to all women of the faculty and wives of faculty with the rank of instructor and above on the St. Paul and Minneapolis campuses. Wives of administrative officers, professional lecturers and other professionals whose appointments are comparable to an instructor are welcome to join. Questions pertaining to membership may be directed to Mrs. Albert B. Hood at IV 4-6340.

Right: The first lady, then, and now — Mrs. Walter Coffey, left, wife of the University's seventh president, meets Mrs. O. Meredith Wilson.

Below right: Special guest of Mrs. Paul D. Boyer, right, president of the University of Minnesota Faculty Women's Club, was Mrs. Murlyn B. Dickerman, president of the St. Paul Campus Faculty Women's Club.

Faculty Women's Club charter members attending the affair included: (Seated, left to right) Mmes. Hans Dalaker, Frank M. Rarig, Anthony Veleny, Hal Downey, L. J. Cook, and H. H. Gislason. Not pictured is Mrs. Levi B. Pease. Standing behind the charter members are past presidents (left to right) Mmes. Harold B. Allen, Gilbert C. Wrenn, Burtrum C. Schiele, John A. Anderson and Robert V. Cram.



Mrs. Venton Knechtges, left, models present day attire, and Mrs. Ernest H. Rinke shows what the faculty wife of yesterday wore. Seated is Mrs. O. Meredith Wilson.



# University of Minnesota Calendar of Events

## MAY, 1961

### UNIVERSITY CONVOCATIONS

*Northrop Auditorium, 11:30 a.m.*

May 1—Law Day U.S.A.

May 5—"Physics in Space," lecture by James Van Allen, head of the Department of Physics, State University of Iowa.

May 11—Education Day lecture by The Honorable Edmund S. Muskie, United States Senator from Maine.

May 25—Cap and Gown Day.

### SPECIAL LECTURES

May 2—"Japan" by Paul M. Tagita, retired professor of comparative religions, Catholic University of Nagoya, Japan. Murphy Hall Auditorium, 3:30 p.m.

May 2—"Anthropology and the Science of Culture" by Leslie A. White, professor of anthropology, University of Michigan. 155 Ford Hall, 8 p.m.

May 16—"The Igorots of the Mountain Province" by Fred Eggan, professor of anthropology, University of Chicago. 155 Ford Hall, 8 p.m.

May 23—"Clan, Caste, and Club: An Anthropological Analysis of Chinese, Hindu, and American Ways of Life" by Francis L. K. Hsu, professor of anthropology, Northwestern University. 155 Ford Hall, 8 p.m.

May 25—Lecture by the Right Reverend Joost de Blank, the Archbishop of Cape Town, South Africa. Museum of Natural History, 4 p.m.

May 25—Joseph Warren Beach Memorial Lecture: "T. S. Eliot: The Master of Nightmare and Civic Virtue" by Richard Palmer Blackmur of Princeton University, Museum of Natural History, 8 p.m.

### METROPOLITAN OPERA

*Northrop Auditorium*

May 17, 8 p.m.—"Turandot" by Puccini.

May 18, 8 p.m.—"Rigoletto" by Verdi.

May 19, 8 p.m.—"Aida" by Verdi.

May 20, 1:30 p.m.—"La Boheme" by Puccini.

May 20, 8 p.m.—"Martha" by von Flotow.

May 21, 2 p.m.—"La Traviata" by Verdi.

(Single tickets \$3.50, \$6.00, \$7.00, \$9.00, \$10.00. Counter sale of tickets opens May 8 at 106 Northrop Auditorium.)\*

### BACCALAUREATE

*Northrop Auditorium, 3 p.m.*

June 4—Speaker to be announced.

### COMMENCEMENT

*Memorial Stadium, 8 p.m.*

June 10—Address by O. Meredith Wilson, president, University of Minnesota.

### UNIVERSITY THEATER PRODUCTIONS

*Young People's Play*

*Scott Hall Auditorium*

May 6, 10:30 a.m. and 3:30 p.m.; May 7,

3:30 p.m.—"Radio Rescue" by Charlotte

Chorpenning.

(Single tickets \$5.00 on sale at the Scott

Hall Box Office.)

### Foreign Language Play

*Shevlin Hall Arena Theater*

May 16, 17, 19, and 20, 8 p.m.; May 18,

3:30 p.m.—"On Ne Badine Pas Avec

*L'Amour* by Alfred de Musset, in French.

(Single tickets \$1.00 on sale in Room 200 Folwell Hall.)

### Studio Theater Production

*Scott Hall Studio Theater*

May 19, 22, and 23, 8 p.m.; May 20, 6:30

and 9:30 p.m.; and May 21, 3:30 p.m.—

*Tell Me No Lies* by Lowell Manfull.

(Single tickets \$1.00 on sale at the Scott Hall Box Office.)

### Showboat Schedule

June 13-August 27—*Bloomer Girl*. Music by Harold Arlen; Lyrics by E. Y. Harburg. Based on the play by Lilith and Dan James.

(Performances at Minneapolis from June 13 through July 23 and from August 15 through August 27, and at St. Paul from July 25 through August 13. Evening performances at 8 p.m. on Tuesdays, Wednesdays, Thursdays, and Sundays, and at 7 p.m. on Fridays and Saturdays; late performances at 10 p.m. on Fridays and Saturdays, and matinees at 3:30 p.m. on Sundays. Single tickets are \$2.00 for evening performances and \$1.50 for matinees. Mail orders will be accepted beginning May 1. Counter sales begin June 1 at the Scott Hall Box Office.)\*

### UNIVERSITY TELECASTS

**Seen on Channel 2, KTCA-TV**

Monday, 9 p.m.—"University Research Report."

9:30 p.m.—"At Home With Music."

Tuesday, 9 p.m.—"Delinquency and the Community."

9:30 p.m.—"The Civil War."

Wednesday, 9-10 p.m.—"Folio."

Thursday, 9 p.m.—"The African Character."

9:30 p.m.—"Town and Country."

Friday, 9 p.m.—"The Civil War."

9:30 p.m.—"Mythology in Literature."

### SIGNIFICANT UNIVERSITY BROADCASTS

**KUOM, 770 on the dial**

Monday, 7 p.m., beginning May 1—The

Reith Lectures—1960, "Art and Anarchy"

by Professor Edgar Wind.

May 8-13, 6 p.m.—"Metropolitan Opera

Previews" with Donald N. Ferguson, professor emeritus of music.

Monday, 1:30 p.m., beginning May 22—

Public Affairs Forum features "The

African Character," lectures delivered on

the University campus under the liberal

arts program of the General Extension

Division.

Monday, 7 p.m., beginning June 5—"Com-

posers on Composers," eminent com-

posers discussing their own works or the works of distinguished colleagues.

Tuesday, 7 p.m., beginning June 6—The Godkin Lectures—1960-61, "Science and Government" by Sir Charles P. Snow.

### MUSIC DEPARTMENT CONCERTS

*Northrop Auditorium*

May 24, 8:30 p.m.—University Symphony

Orchestra.

May 26, 8:30 p.m.—University Band Spring

Concert.

May 28, 4:30 p.m.—University Chorus.

### UNIVERSITY GALLERY

#### EXHIBITIONS

Through May 5—Milton Avery Retrospective.

Through May 5—Jazz Recording Session: Photographs by Lawrence N. Shustak.

May 12-June 5—Student Show, Department of Art, University of Minnesota.

June 13-August 18—University of Minnesota Collects: Water Colors and Drawings.

### MAY UNIVERSITY OF MINNESOTA PRESS PUBLICATIONS

*The Molds and Man: An Introduction to the Fungi* by Clyde M. Christensen, professor of plant pathology. \$1.75 paper; \$4.75 cloth.

University of Minnesota Pamphlets on American Writers: *Walt Whitman* by Richard Chase, \$.65. *Wallace Stevens* by William York Tindall, \$.65. *Gertrude Stein* by Frederick J. Hoffman, \$.65.

*British Broadcasting in Transition* by Burton Paulu, director of radio and television. \$5.00.

### ATHLETIC DEPARTMENT EVENTS

#### Home Baseball Games

*Delta Field*

May 12, 3:30 p.m.—Purdue University.

May 13, 11 a.m.—University of Illinois.

(Tickets at \$1.00 for adults and \$.25 for individuals under 16 on sale at gate only.)

#### Football and Track

*Memorial Stadium*

May 13—Track meet with Wisconsin at

12:30 p.m. and Inter-squad football game

at 2 p.m.

(Tickets for the track meet and football game as well as the May 13 baseball game may be purchased for a special package price of \$1 through May 12 at 108 Cooke Hall. On May 13, tickets will be on sale at gates only for the regular single admission price of \$1 for the baseball game (see above) and \$1.50 for the track meet and/or football game.)

#### Tennis

*University Courts*

May 12, 1:30 p.m.—Quadrangular Meet.

May 13, 9 a.m.—Indiana, Iowa, Michigan.

#### Golf

*University Course, 8 a.m.*

May 13—Wisconsin and Iowa.

Unless otherwise noted, events are open to the public without charge.

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

# THE MINNESOTAN

*The University Staff Magazine* - August, 1961

## *Legislative Issue*

*A Letter from the President*  
... page 5

*Academic and Civil Service  
Salary Changes*  
... page 4

*University Building Program*  
... page 2

*Other Legislative Action Af-  
fecting the University*  
... pages 3 and 6

## **Funds Given for Books, Computer**

Among the funds appropriated by the Legislature and earmarked for specific items were \$50,000 for the purchase of library books and \$250,000 to assist in the purchase of a new computer.

The new computer will update the University's computing facilities and will replace the Univac Scientific 1103 computing system now in use. The University has asked the National Science Foundation for the additional funds needed to purchase the computer. At press time, no official announcement has been made as to whether the application has been approved.

## **University Is Granted \$55,151,455 for 1961-63 General Maintenance**

THE UNIVERSITY WAS GRANTED a total of \$55,151,455 for general maintenance for the coming two years. The figure includes \$27,240,691 for 1961-62, and \$27,910,764 for 1962-63.

The total maintenance appropriation is \$11,604,909 less than the request made by the Regents, but it does represent an increase of \$6,083,274 over the total maintenance appropriation for the 1959-61 biennium.

The total appropriation for the present biennium includes \$1,879,559 for academic and \$735,816 for civil service salary adjustments.

The Regents of the University approved a \$39,952,479 General University Fund operating budget for the fiscal year, 1961-62. Of the \$3,151,228 increase over the 1960-61 budget, approximately half, or \$1,588,065, is from State support funds. The remaining \$1,563,163 will result from: (1) tuition generated by increased enrollment, (2) an increase in out-of-state tuition rates approved by the Board at its meeting (the increase of \$20 per quarter will maintain the University's median position among Big Ten schools with respect to non-resident tuition), and (3) anticipated increases in other incomes available through temporary investments, indirect cost allowances on research contracts, federal funds for teaching and departmental income.

(In the proposed budget which the University presented to the Legislature, no provision was made for an increase in resident tuition, since the University felt that it was imperative to keep its median position among comparable institutions. Friends of the University in the Legislature fought successfully against an attempt by some of their colleagues to raise resident tuition.)

The budget, as approved by the Regents, covers the University's regular instructional program at all levels, the evening class and correspondence instruction and service activities of the general extension division, certain research units in agriculture and technology, the agricultural experiment stations and the "instructional" research carried on by staff members in connection with their instructional duties.

Of the total \$39,952,479 General University Fund operating budget for 1961-1962, state appropriated funds will provide \$26,990,691. Estimated income will provide the remaining \$12,961,788. During the past year, the legislative appropriation totaled \$25,402,626, with income totaling \$11,515,475.

## *Final Issue of The Minnesotan*

This special issue of THE MINNESOTAN marks the final publication of the magazine. A briefer—and more economical—publication is in the plan-

ning stage and will make its appearance during the coming academic year.

*The Department of University Relations*

# Building Program to Progress Only if Voters Approve Amendment in November, 1962, Election

## Physical Plant Appropriation Is \$7,789,351, But Bulk of Funds Is Not Yet Available \*

THE 1961 LEGISLATURE appropriated a total of \$7,789,351 to the University for buildings, land, remodeling, and rehabilitation during the 1961-63 biennium. But \$7,500,900 of this total is tied up because of a clause in the State Constitution which limits the state debt to \$250,000.

*(Legislatures in previous years have authorized borrowing through the sale of "certificates of indebtedness". In 1957 and 1959 the State Supreme Court, with legal reservations, approved the acts of the Legislature authorizing the sale of certificates, but announced in 1959 that it would not uphold such legislation in the future.)*

The progress of the University's building program, and of the State's building program as well, is dependent on the approval of an amendment, repealing the debt limit, which will

be put before Minnesota voters in the November, 1962, general election. (See item in box below.)

If the amendment is approved, the \$7,500,900 will be released to the University and will be used for land, remodeling, rehabilitation, and the construction of six new buildings—a science classroom building and additions to the physics and electrical engineering buildings east of the river on the Minneapolis Campus, a veterinary medicine building addition on the St. Paul Campus, and a humanities building addition and general classroom building on the Duluth Campus.

Of the \$288,451 available now, \$186,000 will be used for planning the new buildings which will be constructed if the amendment is approved, and \$102,451 will be used for repairs on the Morris Campus and at some of the Agricultural Experiment Stations and for meeting special

assessments levied by the cities of Duluth and Minneapolis.

No funds were appropriated for the biennium for land acquisition, building planning, or building construction west of the river on the Minneapolis Campus.

The \$7,789,351 appropriation may be compared with an original University request for physical plant additions totaling \$21,731,640. This figure did not include the funds for planning new buildings nor the funds for special assessments. Also, it did not include President Wilson's request for an additional \$100,000 (which the Legislature did not appropriate) to be used in planning a new library west of the river on the Minneapolis Campus.

In addition to the total appropriation of \$7,789,351, the Legislature reappropriated \$116,192.47 for land acquisition at Duluth and east of the river on the Minneapolis Campus. This sum was left over from money appropriated to the University for land acquisition by the 1957 Legislature.

*(Continued on page 3)*

Vol. XIV No. 9

THE MINNESOTAN

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

William L. Nunn, Director

Beverly Sinniger ..... Editor  
Jo Anne Ray ..... Associate Editor

Advisory Committee: Members of the University Public Information Council.

*The Minnesotan* is published monthly October through May, plus a special issue in the summer. Copies are mailed to University staff members. Subscription rates for non-staff members are \$2.00 a year, 25 cents a copy.

Second-class postage paid at Minneapolis, Minnesota.

The University of Minnesota's building program, along with the building program of the entire State, can move forward only if Minnesota voters approve an amendment altering the state debt limit in the State Constitution. (See article above.)

In the November, 1962, general election, amendment number two on the ballot will read as follows:

"Shall Article IX, Section 14 of the Constitution of the State of Minnesota be repealed and Article IX, Sections 5, 6, and 7 be amended to allow the state to incur indebtedness for temporary borrowing, and to incur indebtedness payable within 20 years for the acquisition and betterment of public lands and buildings and other public improvements of a capital nature when authorized by a three fifths vote of each branch of the legislature?

Yes \_\_\_\_\_  
No \_\_\_\_\_"

If a majority of *all* those voting in the general election votes yes, \$7,500,900 appropriated by the 1961 Legislature will be available to the University on December 1, 1962, for land, remodeling, rehabilitation, and the construction of six new buildings.

## Rep. Wozniak Requests Opinion

# Attorney General Says Minnesotans Could Vote to Give Legislature Greater Control Over University Affairs

Management of the University of Minnesota could be put under the control of the State Legislature if Minnesota citizens voted to amend the State Constitution, according to an opinion made in April by Attorney General Walter F. Mondale.

The opinion was given at the request of Rep. D. D. Wozniak of St. Paul who asked whether an amend-

ment could be submitted to the voters for repeal of a constitutional clause that gives the Regents control over the management of the University.

The power to administer the University was granted to the Regents in the Territorial Act of 1851. This power was guaranteed by Article VIII, Section 4, of the State Constitution which states:

"... All the rights, immunities, franchises and endowments heretofore granted

or conferred are hereby perpetuated into the said University . . ."

If this clause were repealed, the Attorney General said, the Territorial Act of 1851 would be the prevailing law.

In addition to giving the Regents the power to govern the University, the Act also gives the Legislature the right to "alter, amend, modify, or repeal this Act." Thus, the Legislature, and not the Regents, would have the final decision as to how the University would be governed if the Constitutional clause were repealed.

## Legislators Ask 'U' To Let Vikings Use Duluth Facilities

A resolution requesting that the Regents make facilities at the Duluth Campus available for professional athletic teams and games, including training and exhibitions of the Minnesota Vikings football team, was adopted in March by the House and the Senate.

The University was quick to point out that as a member of the Western Conference (Big Ten), the University of Minnesota is subject to the conference policy on use of athletic facilities, which states:

"The athletic facilities of conference institutions shall not be available for the conduct of admissions paid exhibitions or contests by professional sports teams or professional sports organizations, or for other than occasional practices by such teams or organizations."

## Vikings Train at Bemidji

The Minnesota Vikings football team will train at Bemidji State College this summer. The decision to use the facilities at Bemidji came after several weeks of looking at facilities around the state.

## Poll Shows 66% of Voters Oppose Legislative Control of University

According to the results of The Minnesota Poll made public in June, two out of three Minnesota voters oppose giving the State Legislature greater control over the University.

The *Minneapolis Tribune's* Minnesota Poll surveyed a cross section of voting age Minnesotans following the opinion, made by Attorney General Walter F. Mondale at the request of Rep. D. D. Wozniak, that the Legislature could gain control over the

management of the University if Minnesota voters amended the State Constitution.

In reply to the question — "Do you think the Legislature should have a greater amount of control over the University, or should not?" — 66 per cent said the Legislature should *not* have more control; 17 per cent said it should; and 17 per cent had no opinion.

## Legislature Passes Land-Grant Resolution

ON THE OCCASION of the approaching nationwide observance of the enactment of the Land-Grant Act, the Legislature of Minnesota passed the following resolution:

"WHEREAS, the Congress of the United States one hundred years ago passed a bill referred to as the Land-Grant Bill, and sometimes named the Morrill Bill after its principal author, Mr. Justin Morrill of Vermont, signed into law by President Abraham Lincoln in 1862, whereby grants of land were set aside for each state, for the support of public state colleges devoted to the education of the common man;

"WHEREAS, under the provisions of this act, each state in these United States has been enabled to provide education for its young men and women, to the advancement of truth and to the benefit of all the people;

"WHEREAS, in the State of Minnesota, the University of Minnesota has, as a Land-Grant institution, derived great benefit through this act which has advanced the status and position of the state and its citizens; and

"WHEREAS, Land-Grant colleges and universities in every state have now joined together to celebrate the Centennial of the signing into law of the Land-Grant Act by President Lincoln;

"BE IT NOW RESOLVED by the House of Representatives of the State of Minnesota, the Senate concurring, that this Centennial be observed and commemorated and that recognition be given by the people of the state to the Land-Grant Act as a cornerstone of public American higher education."

During the coming academic year this resolution will be included in all commencement and convocation programs. The resolution was passed first by the House University Committee and the House of Representatives. Members of the Committee are Representatives Peter X. Fugina, chairman; Harold R. Anderson, Alfred Falkenhagen, Graham Fuller, Richard Jones, Walter K. Klaus, Robert C. Kucera, John D. McGill, Willard M. Munger, Hervey Richardson, Martin Sabo, Roy Schulz, John P. Skeate, Ivan Stone, Glen W. Swenson, Curtis B. Warnke, and Harvey A. Wilder.

## FUNDS GRANTED FOR HOSPITALS, SPECIAL PROJECTS

THE LEGISLATURE ALSO granted funds for the operation of University Hospitals and for the University's special research, special service, and special educational projects.

For the State's share in general hospital maintenance the Regents requested \$4,443,618 for the biennium (an equal share to come from the counties); the Legislature granted \$4,019,060. In the Hospitals appropriation, provision was made for some additional professional and general hospital staff positions. About this, Ray Amberg, director of University Hospitals, said, "We will be able to make some progress in a few areas where deficiencies previously existed."

Other Hospitals appropriations for the biennium include: (All figures

are totals for the biennium with figures in parentheses representing the totals requested by the Regents.)

For the Psychopathic Hospital, \$1,373,890 (\$1,480,463); for the Child Psychiatric Hospital, \$532,474 (\$557,389); for the Rehabilitation Center, \$902,999 (\$1,012,037); for the Multiple Sclerosis Clinic, \$110,000 (\$110,753).

Funds appropriated for various special projects conducted by the University for the general benefit of the State and its citizens at the specific request of the Legislature are:

For Agricultural Extension Service, \$1,450,000 (\$1,638,447); for experiments in the beneficiation of manganiferous and low grade ores and for experiments in the direct process beneficiation of low grade ores — general experiments, \$108,000 (\$130,634); for general agricultural research,

ing, and for campus drainage, general landscaping, and campus improvement.

*Morris* — \$940,000 requested; \$65,000 granted and available now for rehabilitation of the street lighting system and the gymnasium, and for pavement, curbs, and gutters on the main roads.

*Crookston* — \$382,000 requested; \$70,000 granted. Available now is \$15,000 for tunnel draining and pipe insulation. Available if the amendment is passed is \$55,000 which will be used for rehabilitation of the dairy barn, for additions to the dairy barn and pure seed building and for land acquisition for feed crops.

*Waseca* — \$25,000 requested; \$5,000 granted and available now for remodeling a classroom into a science laboratory.

*Grand Rapids* — \$232,500 requested; \$5,000 granted and available now for completion of a road surfacing project.

*Rosemount* — \$81,140 requested; \$15,700 granted (but not yet available) for construction of a foundation seed cleaning and seed storage building, a bunker type silo, and shed for storing protein supplement.

*Northeast Experiment Station at Duluth* — \$17,200 requested; \$1,200 granted (but not yet available) for construction of a garage at the superintendent's residence.

*Cloquet* — \$76,000 requested; nothing granted.

*Itasca* — \$17,000 requested; \$10,000 granted. Of this total, \$2,000 is available now for oiling and surfacing of roads, and \$8,000 will be available, if the amendment is passed, for bathroom and laundry facilities for family units.

*Excelsior* — \$16,000 requested; nothing granted.

\$1,050,000 (\$1,339,646); for medical and cancer research, \$184,000 (\$200,000); for Livestock Sanitary Board Laboratory, \$128,000 (\$224,315); for Institute of Child Welfare, \$72,000 (\$89,188).

For general research, \$235,000 (\$250,000); for Minnesota Institute of Research, \$71,000 (\$106,399); for agricultural research — Rosemount, \$225,000 (\$281,084); for hybrid corn maturity tests, \$36,000 (\$38,512) — this figure is a transfer of an appropriation from the Minnesota Department of Agriculture; for tuition and transportation aid for students of agricultural schools, \$102,000 (\$102,000); for business and economic research, \$85,000 (\$107,892); for training project in delinquency control, \$20,500 (\$36,345); for hardwood timber species research fund, \$13,000 (\$15,233).

For psychiatric research fund, \$82,000 (\$144,316); for training of laboratory aides, \$23,000 (\$27,223); for special education training and research program, \$84,000 (\$105,165); for legume seed research fund, \$80,000 (\$97,476); for Industrial Relations Education program, \$82,000 (\$123,210); for experiments in the beneficiation of manganiferous and low grade ores and for experiments in the direct process beneficiation of low grade ores — experiments with emphasis on ores of the Cuyuna Range, \$216,000 (\$219,385); and for maintenance of the Southwest Agricultural Experiment Station, \$86,496 (\$117,351).

## Morris Campus Granted \$563,529

THE UNIVERSITY OF MINNESOTA, Morris, was allocated a total of \$563,529 for the coming biennium — \$220,286 for the 1961-62 fiscal year and \$343,243 for the following year. The Regents' request for 1961-62 was \$223,130, and for 1962-63, \$355,991.

Funds now available will enable the Morris Campus to initiate an upper division or junior class in 1962. A sophomore class will be opened this fall. Morris began its collegiate program in the fall of 1960, made possible in part by the generosity of the citizens of that region.

Experience of the first year shows that the need for higher education in central Minnesota is being met. The existing physical plant (the University's West Central School of Agriculture with a cost of reproduction approximately \$5,500,000) at Morris is being utilized for instruction and housing.

(Continued from page 2)

University requests for physical plant additions and Legislative appropriations for each campus are: (The building planning, special assessment, and reappropriated funds are not included in the request or appropriation figures.)

*Minneapolis* — \$13,036,800 requested; \$4,733,000 granted (available only when and if the amendment is approved) for the construction of a science classroom building and additions to the physics and electrical engineering buildings east of the river; for rehabilitation of chemistry, phase four, and of University Hospitals; for rehabilitation and remodeling of Jackson Hall and additional rehabilitation and remodeling of Wulling Hall; for completion of rehabilitation in Burton Hall and installation of an elevator; for installation of an additional elevator in the Mayo Building; and for replacement of boiler and auxiliaries in the heating plant.

*St. Paul* — \$4,245,000 requested; \$1,227,000 granted (available when and if the amendment is passed) for completion of the forest products laboratory and the basement in the veterinary basic science building; for an additional two floors to the veterinary medicine building; for utilities, storm sewers, sanitary sewers, and water mains; and for rehabilitation and remodeling of the home economics building and Green Hall.

*Duluth* — \$2,663,000 requested. \$1,461,000 granted (available only if the amendment is passed) for the construction of a humanities building addition and a general classroom and home economics build-

# Increases of 6 and 4% for Academic Payroll And New Civil Service Pay Plan Are Approved

## ACADEMIC SALARIES

**A**N INCREASE OF SIX per cent in funds for academic salaries to be used during 1961-62 and an increase of four per cent for 1962-63 were approved by the 1961 Legislature. The University had requested an eight per cent increase for each year of the biennium.

The increase in appropriated funds for 1961-62 totals six per cent of the 1960-61 academic payroll, or \$1,101,304. Of these additional funds now available for academic salaries, 25 per cent — or \$275,326 — goes to all academic staff members in the form of increased fringe benefits. Seventy-five per cent of the funds — or \$825,978 — has been distributed to the individual colleges for merit raises subject to certain minimum and fixed rates for assistant professors, instructors, teaching and research assistants, and medical and dental fellows.

Recommendations regarding distribution of these funds were made to the Board of Regents by President Wilson following consultation with his own staff, the Faculty Consultative Committee, the Administrative Committee, and the University Committee on Insurance.

An increase of four per cent over the 1961-62 academic payroll will be used for improvement of academic salaries during the second year of the biennium. Distribution of these funds has not yet been determined.

As part of the increased fringe benefits, the University, beginning September 16, 1961, will pay the entire cost of the group life insurance. Also effective September 16, the life insurance coverage will increase from \$10,000 to \$12,000 and the waiting period, presently in effect for some ranks, will be abolished so that coverage will be effective on the first date of University service.

Also, income disability payments of \$150 per month are now available to eligible academic staff members

*in addition* to any disability coverage for which they are now, or will be, eligible. The University pays the entire cost of this new coverage which became effective July 1, 1961. A staff member must be disabled for more than a four-month period before he can receive the disability payments. He may receive the payments until he is 68 for any disability occurring between July 1 and the date he reaches age 68.

Still another benefit now available without cost to eligible academic staff members provides the Waiver of Premium Disability on all retirement units previously issued or to be issued. Prior to July 1, 1961, Waiver of Premium Disability was applicable only to the first 15 units.

These new benefits mark a significant advance by the University in the area of fringe benefits.

## CIVIL SERVICE SALARIES

**N**EW PAY RANGES for most civil service classifications and new regulations regarding the granting of merit and longevity raises during the biennium went into effect on July 1, 1961, as a result of action by the 1961 Legislature.

Most University civil service staff members received at least a one step increase in salary, effective July 1, 1961, as a result of extensive pay range changes. Staff members whose pay ranges were not changed and who were eligible for merit raises received a four per cent salary increase on July 1.

Following a survey of wages paid by industry in the Twin Cities and out-state areas, the State and University civil service systems recommended that pay ranges for all except some 35 to 40 classifications be raised at least by one step. Acting on this recommendation, the Legislature provided funds for raising most State civil service pay ranges and included in the University appropriation act the stipulation that the University

should raise its pay ranges along with those of the State. Also included in the appropriation act was the ruling that no civil service staff member who receives a raise as a result of a pay range change shall receive a merit or longevity raise in 1961-1962. Thus, merit and longevity raises were granted only to those staff members who were eligible and whose pay ranges were not raised.

The basis on which merit and longevity raises will be given during 1962-63 has not yet been fully decided. The Legislature passed a law, affecting the State and University civil service, which provides that departments (the University is considered a department) with 1 to 20 staff members will receive 100 per cent of the funds needed to grant merit and longevity raises in 1962-63 to those staff members who would be eligible under present regulations; departments with 21 to 50 staff members will receive 75 per cent of the funds; departments with 51 to 100 staff members will receive 50 per cent of the funds; and departments with over 100 staff members will receive 40 per cent of the necessary funds. Thus, the University received 40 per cent of the funds needed to grant merit and longevity increases to staff members who would be eligible under present regulations. The law granting these funds suggested that a higher proportion of people might be given merit or longevity increases by financing the raises out of departmental savings.

The Legislature also passed a new, simpler law for longevity raises. It provides that employees who have an aggregate total of 15 years of service and are at the top step of their pay range may be recommended for a longevity increase of one additional step above the range. The provision that a staff member must serve five years at the first longevity step before being eligible to receive the second longevity raise is still in effect under the new law.

UNIVERSITY OF MINNESOTA  
MINNEAPOLIS 14

OFFICE OF THE PRESIDENT

Dear Staff Members:

In this special issue of THE MINNESOTAN are outlined the results of the special session of the 1961 State Legislature as they relate to the University of Minnesota, together with a report on the budget for the University for the year 1961-62.

The legislative session was a lengthy and difficult one, posing many perplexing problems for the University and the Legislature alike. The greatest of these, of course, was related to available funds.

In the presentation of its needs, the University received fair and courteous hearings before the committees of the Senate and the House. While we did not receive all that we asked, nor all that I believe wise considering the needs of the times, the alternatives available to the legislators were not easy.

In this first year of the biennium, the Legislature has provided us with an increase of \$1,588,065 in appropriated funds. These funds will help provide for academic and civil service salary increases. As such, these funds are indispensable. They will help us to maintain our already excellent faculty and to recruit replacements where necessary.

We are, however, faced with problems other than personnel. Among the greatest of these is the need to make vital changes in academic programs that will permit us to keep pace with shifting patterns of enrollment and to meet the demands of a rapidly changing society.

We have attempted to meet these needs through internal adjustments. In some measure we have been successful in this, and should be able to make substantial progress in adapting our program to present needs.

In the time available to us between the end of the special session and the close of the fiscal year, it was not possible to explore all of the revenues available to us in a redeployment of resources. We will continue throughout the biennium to search for additional ways to modify our existing programs in order to make possible fresh and modern attacks on the needs of our times.

The budget as it stands is less than I had hoped it would be. It is, however, a fact of life and we must extend every effort to live with it. This means continuing economies. I am confident that in this we will have the full support of faculty and staff.

I want particularly to commend Vice President L. R. Lunden and the members of his staff for their heroic efforts in building this budget. They worked against deadlines that were all but impossible.

We are grateful to the members of the Legislature for the funds they have provided. Without these increases we would be in desperate circumstances. At the same time we would be less than honest if we were to pretend that our problems have been resolved. It is our hope that in the time remaining before the next session of the Legislature we will be able to create a better understanding of our problems, and that we can, with the legislators, find a solution to them. We are eager to serve even more effectively Minnesota and its people.

Sincerely,

*Meredith Wilson*

August, 1961