

THE MINNESOTAN

The University Staff Magazine

- *October 1958*





THE NEW ACADEMIC YEAR brings, as always, new opportunities, new obligations—and new problems to the University.

We shall face what is surely an unprecedented challenge to higher education and its support in Minnesota, of special significance in this “legislative year.” University representatives, including the Regents, will meet many times with the State Legislature and its several committees. We will again ask our legislators to share with us, and other state spokesmen for education, the educational responsibilities of our times.

The wholehearted cooperation of the entire University family during the 1957 session of the Legislature was effective in the favorable heartening response of the Legislature to our biennial request for 1957–58 and for 1958–59. The substantial salary increases for all staff members were clear-cut evidence of the Legislature’s faith in the University. It bore witness to the ability of University staff members to serve with competence and devotion the people of the State in education, in research, and in service.

Those who sat as members of the 1957 Legislature accepted the challenge of the future. Funds were voted by the legislators to start the building and the land purchase programs which are so necessary if the University is to meet the needs of our rapidly expanding college-age population of Minnesota.

But the people of the State of Minnesota have not only acted so splendidly in the support of their University through their elected representatives in the Legislature. They have also worked to enhance the prestige and competence of the University in many other ways.

Funds appropriated by the Legislature are now bringing into existence on the Minneapolis and St. Paul Campuses such buildings as those for mines and metallurgy, architecture, dairy husbandry, veterinary science, medicine, forestry, and plant pathology. Legislative funds are also responsible for buildings on the Duluth Campus for social science and for humanities; on the Waseca Campus for physical education; on the Morris Campus for classrooms.

Funds contributed directly by citizens and their organizations are rapidly bringing into existence the St. Paul Campus Student Center, the Masonic Memorial Hospital,

the Variety Club Heart Hospital addition, the Veterans of Foreign Wars Cancer Research Center, and the Tweed Gallery on the Duluth Campus.

Dormitories for single students, as well as housing for married students, are being greatly expanded this year on all campuses, thanks to the availability of borrowed federal funds. Federal funds also are assisting in the remodeling of Millard Hall, in the Student Health Center addition, in the medical library — bio-medical building, in the Variety Club Heart Hospital, and in the Veterans of Foreign Wars Cancer Research Center.

This year will indeed be one of great growth. But these brick-and-mortar advances will be minor indeed when comparison is made with the expected contributions that will come from University staff members, not only in the education of Minnesota youth, but in medical, agricultural, technological, and other research, and in hundreds of services that are so essential to the ongoing and upgrading of our society in general.

In planning for the larger future of the University, educationally and physically, I would express most grateful appreciation for indispensable faculty and staff cooperation. Surely such cooperation has been, and is, the cornerstone upon which our University is built.

f. L. Merrill

On the cover . . .

The two footbridges across Washington Avenue have been dressed up with appropriate maroon paint and University of Minnesota gold lettering and lighted for day or night identification by motorists driving through the Minneapolis Campus.

Vol. XII

No. 1

THE MINNESOTAN

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The Minnesotan



Dr. Reuben A. Johnson, clinical professor of medicine, and Dr. Erling W. Hansen, clinical professor of ophthalmology, pause to admire the table decorations at the reception. Both were honored guests from the College of Medical Sciences.

82 Staffers Receive Certificates of Merit

THE 82 STAFF MEMBERS who were awarded Certificates of Merit this spring upon their retirement from University service averaged over 27½ years of service. In his address at the presentation ceremonies, President Morrill pointed out that this average increases each year. He said, "I see in this statistic a measure of loyalty as well as of longevity — and of the value to the University of experience and proven capacity . . . it is the sum of your days and years which account for the scholarship and science, the service and strength, of the institution today. . . ."

In recognition of 10 years or more of service, the Board of Regents authorized Certificate of Merit awards. Malcolm M. Willey, vice president of Academic Administration, presided at

the twelfth annual Presentation Ceremony, May 23, in the Main Ballroom of Coffman Memorial Union. Families, friends, and University associates attended the ceremonies which were also broadcast over KUOM. All present were invited to attend the reception which followed the presentation.

In his opening remarks Vice President Willey said, "the outstanding service records of these 82 men and women indicate that there is a rewarding satisfaction in serving as a staff member of the University. . . ."

Vice President Middlebrook prefaced his introduction of the honored guests with "staff members here today can take personal satisfaction in the support given to your University by the people . . . such support is a

provocative reflection of your own service during the many past years."

The presentation of Certificates was made by President Morrill who explained, "a special purpose of this ceremony is to inscribe the names of many in this room officially in the archives of the institution . . . let me express the grateful appreciation of the University and the respect and esteem of all of us, your colleagues and friends, who regret so sincerely to lose you from our association and partnership."

Those whose names were officially inscribed in the University records this spring are: John W. Anderson, Phillip A. Anderson, Edna E. Bachman, Veronica Barry, Hugo Beckstrom, Mabel Benson, Axel T. Bergren, Ole Bjorness, Ida Bucher, Ralph

Honored guest E. Elsie Quilling shares her happy experience with co-worker Helen Hauser. Both are staff members of the Physical Plant Department.



Gladys Hirsch holds the Certificate of Merit for the General Storehouse group to admire. Left to right, Miss Hirsch, Helen Splan, honored guest, Rose Fiorentino, and Roberta Schuett.





LEFT: Raymond S. Dunham, professor of agronomy, and his wife stand in the center of a group of well-wishers, left to right, Professor Milton Kernkamp, Professor Will Myers, Professor and Mrs. Dunham, Mrs. Will Myers and Professor Alois R. Schmid. All are from the Institute of Agriculture.



ABOVE: Members of Anna Olson's family met her University associates. Left to right, Mrs. Solheim and Mrs. Rundquist, daughters of Mrs. Olson; James P. Schroeder, Director of Centennial Hall; Mrs. Olson, honored as a staff member of University Services; Clinton T. Johnson, director of University Services, and Marilyn Solheim, granddaughter and a University student.

Dwight Minnich, chairman of the Department of Zoology, waits in line as Guy Bond, professor of education, congratulates Dora V. Smith, professor of education. Professors Smith and Minnich were honored guests.

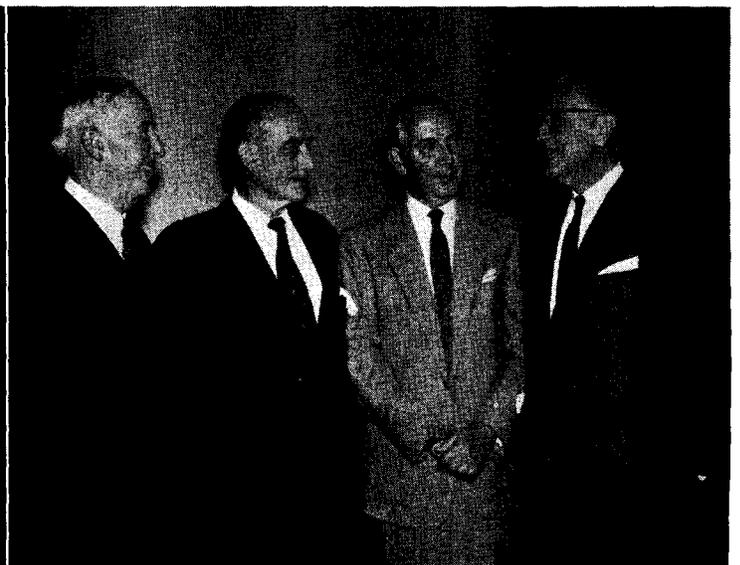
D. Casey, Jane T. Casserley, Cora E. Cooke, Dr. Virgil S. Counseller, Pearl T. Cummings, Sadie C. Currier, Carroll A. Davis, Dr. Harold S. Diehl, Dr. Claude F. Dixon, Margaret Duffy, Raymond S. Dunham, Marie E. Egan, and Henry C. T. Eggers.

Also honored were: Dr. Hiram E. Essex, Dr. Walter A. Fansler, Dr. William H. Feldman, Dr. Frederick Figi, Dr. Victor K. Funk, Dr. Ralph K. Ghormley, Gladys Gibbens, Mabel Grondahl, Ida Gudmondson, Carl O. Gustafson, Dr. Samuel F. Haines, Myrtle F. Hales, Dr. Erling W. Hansen, Hans P. Hanson, Herbert Heaton, J. Gertrude Hebert, Dr. Philip S. Hench, Dr. Richard M. Hewitt, Stanley Hooper, Dr. Bayard T. Horton, Roy Huff, Anny M. Jachwak, Dr. Reuben A. Johnson, Helen Karow, Olga Lakela, Frances Larson, George W. Larson, and Alvin O. Leuzinger.

Also Nannie Lilliquist, Clara Lovel, Louis R. Lundgren, G. Tremaine McDowell, Ebba Merk, Dwight E. Minnich, Forrest L. Moody, Robert Nasstrom, Lowry Nelson, Ella K. S. Oerting, Anna Olson, George A. Pond, Orrin W. Potter, E. Elsie Quilling, Margaret J. Salisbury, Dr. Frederick H. K. Schaaf, Dora V. Smith, Helen M. Splan, Maybelle Strand, Genevieve E. Stoddart, Jasper I. Swedberg, Gertrude E. Tennant, Pearl B. Truscott, Alma Wallblom, Dr. James F. Weir, Eleanor Willits, Rosella Wold, and Adolph Ziegler.

Four persons were honored posthumously. Certificates of Merit were presented to the families of Frank Pearce, Frances K. del Plaine, Fred A. Krantz, and Eugene T. Leddy.

Three honored guests from the Mayo Foundation, left to right, Dr. James F. Weir, associate professor of medicine, Dr. Hiram E. Essex, professor of experimental physiology, and Dr. Bayard T. Horton, associate professor of medicine, receive congratulations from President Morrill.



in attendance, courses and enthusiasm

Duluth Campus Sets Summer Records

A STIMULATING PROGRAM of institutes, workshops and regular courses featuring faculty as well as distinguished guest teachers pushed the 1958 summer session enrollment at the Duluth Campus to record-breaking levels.

First session registered 1,018; second session registered 668. Both sessions set records as did the 10-week total of 1,686. The new record exceeds by 15 per cent the previous all-time high of 1,454 in 1949. Valworth R. Plumb, chairman of the Duluth Campus summer session, supervised nationwide advertising of this program.

A summer session "first" this year was a summer theatre workshop. Three plays were presented under the direction of William R. Morgan, assistant director of University Theatre.

A newly introduced Lake Superior course attracted overflow enrollments. All-day Saturday class sessions were actual tours of historical and industrial sites in the region, including Duluth and the Iron Range. Richard O. Sielaff, chairman of the division of social sciences, conducted the course.

Activities in the arts included the third annual Tepee Camporee for elementary age children conducted by William Boyce, assistant professor of art. Will Barnet, guest artist from New York, instructed the tenth annual workshop in advanced painting. A display from 30 American publishing houses was set up in Kirby Student Center under the direction of Edwin O. Siggelkow, coordinator of student activities, and Harry C. Johnson, head of elementary education.

A National Science Foundation institute was held. This is the second year in succession for the important NSF science teaching refresher program. Five states were represented by the 76 high school teachers of science and mathematics attending. William R. McEwen, chairman, division

of science and mathematics, was institute director.

The institute faculty included: Blanchard O. Krogstad, associate director of institute and assistant professor of biology; Francis B. Moore, associate professor of chemistry; John B. Carlson, assistant professor of biology; John E. Hafstrom, associate professor of mathematics; Donald E. Olsen, instructor in physics, all of Duluth; and Joseph R. Dillinger, professor of physics, University of Wisconsin.

Workshops for elementary school teachers in science and arithmetic were also held in conjunction with the Center for Continuation Study. Gordon M. A. Mork, associate professor of education on the Minneapolis Campus, appeared on the program.

Other faculty members participating included: Moses Passer, associate professor of chemistry; John Verrill, science workshop coordinator and principal of the Duluth laboratory school; John Carlson, associate professor of biology; Donald Olsen, instructor in physics; Henry Lepp, assistant professor of geology; Walter Fluegel, instructor in chemistry; John Hafstrom, assistant professor of mathematics; Gilford Remington, manager of the Duluth office, General Extension Division; Fred E. Berger, director of the Center for Continuation Study; James Stochl, instructor at University High School in Minneapolis, and Harry C. Johnson, head of elementary education and arithmetic workshop coordinator.

The former federal fish hatchery on Lester River was converted into a center for extensive study of Lake Superior. Under direction of Hugh Putnam, coordinator for the 1958 project and instructor on the Minneapolis Campus, researchers continued in the hatchery building work conducted the past two summers. Duluth Campus faculty participating in-

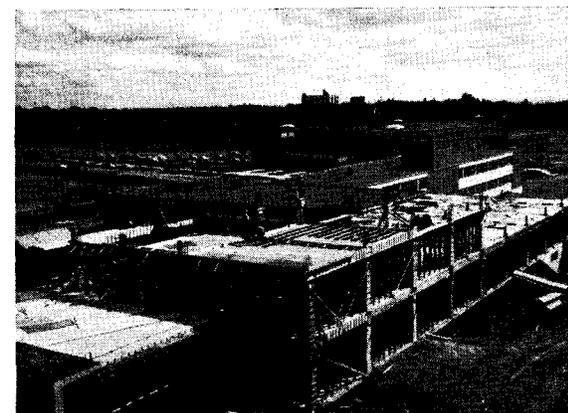
clude Theron O. Odlaug, head of the Biology Department, and Edward J. Cowles, assistant professor of chemistry.

Staff people were active off campus, too. Provost Darland toured Europe with his family while 13 students and faculty took a summer-long tour of Europe under the leadership of Maude L. Linquist, History Department head.



Audrey Hoilund, senior cashier, R. W. Darland, provost, and Valworth R. Plumb, chairman of Duluth summer session, watch as "Mr. 1000" John L. McComber becomes the 1000th student to register for summer classes.

Under construction on the Duluth Campus is the social science building, pictured, a 10-unit men's residence hall, and the first unit of a new central heating plant. All are about one-third complete. Extensive improvements have also been made on the grounds this summer. Dedication of the new Tweed Gallery and Humanities Building will be October 18.



October, 1958



C. C. Ludwig, League executive secretary, Orville Peterson, attorney, and Bernice Fairfax, office manager, study a Minnesota map designating member-municipalities.

Reference Bureau Plus League Equals Effective Government For Minnesota Municipalities

Officials from Ada to Zumbrota Benefit from League Membership

MAYORS AND COUNCILMEN as well as city managers, police chiefs, assessors, attorneys, and city engineers from 660 communities in Minnesota expressed a collective "thank you" to the University of Minnesota recently.

The occasion was the forty-fourth annual convention of the League of Minnesota Municipalities; the "thank you" resolution adopted by the group was for 45 years of University service to the League, which is the official association of municipalities in Minnesota.

Close Tie to University

Of the 43 state leagues in the United States (which, in turn, make up the American Municipal Association), the Minnesota organization has one of the closest ties to a state university.

Although the League retains a separate identity, with its own constitution and its own officers, its close association with the University is so generally accepted that, for all prac-

tical purposes, the two organizations have become inseparable.

The University, through the initiative of Richard R. Price, dean emeritus of the General Extension Division, was responsible for the organization of the League. Dean Price assembled an interested group of municipal officers who met in the office of the mayor of Minneapolis in August, 1913; two months later, the newly-formed League held its first annual convention in St. Paul with George Vincent, president of the University, as principal speaker.

Since the very inception of the League, the bond between it and the University of Minnesota has been strengthened through the existence of the Municipal Reference Bureau of the General Extension Division. This Bureau and the League share common office facilities on the ground floor of the Library building on the Minneapolis Campus.

By virtue of the League constitu-

tion, the director of the Municipal Reference Bureau also serves as executive secretary of the League itself.

The Bureau offers information and research services to city and village officials as well as to other interested individuals throughout the state. It is financed through general University appropriations, with four persons on its payroll: C. C. Ludwig, director; Alfredo Villanueva, research assistant; Gwen Jones, secretary, and Helen Warhol, typist.

League of Municipalities Staff

Operating revenue for the League of Minnesota Municipalities comes from such sources as membership dues (which range from about \$40.00 to about \$1800.00 annually, depending upon the population of the municipality) and from advertising carried in the monthly magazine *Minnesota Municipalities*.

The League staff includes, in addition to Mr. Ludwig, the executive secretary: Orville C. Peterson and Carey

Winne, attorneys; Bernice Fairfax, office manager; David Kennedy, research assistant; Paul Haugen, field man; James Lee, magazine editor, and Marilyn Solheim, secretary. Librarian Myrtle Ecklund also fulfills an important function as a reference consultant.

The executive committee of the League has as its honorary president Dean Emeritus Price; Julius M. Nolte, present dean of the General Extension Division, is a trustee.

In addition to his dual role as Municipal Reference Bureau director and League executive secretary, Mr. Ludwig serves as a professor of political science, teaching several classes in public administration.

An expert in the field of municipal government and city management, Mr. Ludwig has been particularly active in the movement to establish the Twin Cities Metropolitan Planning Commission created by the 1957 Legislature; he was appointed by the Governor as a member of this commission and serves as its chairman. He was also a member of the 1955 Highway Study Commission. Both of these agencies are listed as "legislative successes" of the League.

With the leadership of men like Mr. Ludwig and his predecessor, Professor Morris B. Lambie, now retired from Harvard University, the League

has become an important force in the effective functioning of local government in Minnesota.

League Functions

The League's inquiry service probably ranks number one in importance, for each year hundreds of questions on municipal and governmental problems are received, investigated, and answered promptly. Questions on revenues and traffic probably rate number one and two positions in quantity of inquiries received.

Legislation, of course, is also of great concern to the League. Formal action on proposals to be presented to the State Legislature is taken at the biennial legislative conferences. The last such conference, held in June, resulted in the formulation of proposals on such subjects as workmen's compensation coverage, house trailer regulation, regulation of school building construction, and juvenile traffic violators.

League staff members follow through with such proposals by actually drafting many of the bills, finding "authors" to introduce them in the Senate or the House of Representatives, and keeping account of their status as they go through the Legislature.

The function of the League in matters of legislation affecting municipal-

ities is non-partisan. The organization is not interested in questions as political or party matters, but only as they may affect municipal welfare.

Services to Members

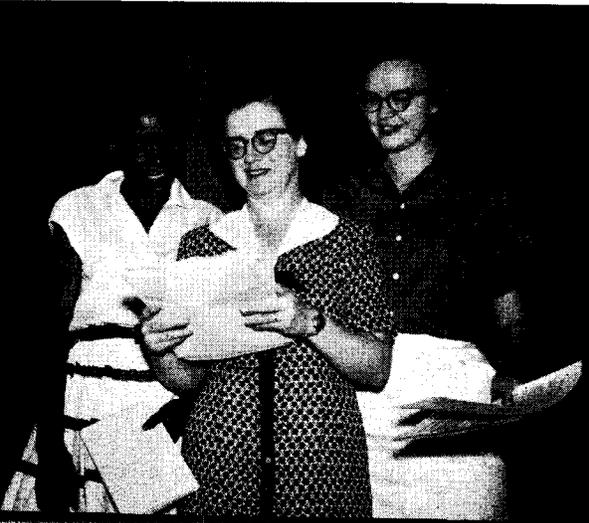
League members are kept informed on such matters as legislation through the monthly publication *Minnesota Municipalities*, which has a circulation of about 8,500. The publication includes such vital information as court decisions and summaries of the attorney general's opinions.

The various schools and short courses co-sponsored by the League, the Center for Continuation Study, and various state agencies bring up-to-date and pertinent information and instruction to such individualized municipal officers as police chiefs, assessors, engineers, new mayors and councilmen, and juvenile officers.

Because of the training and information these men and women receive, not only through these continuation courses, but through the various regional conferences, the monthly magazine, the information from the various League study committees, the personal consulting service, and all the reference and research facilities of the Municipal Reference Bureau, they are able to serve their communities and their fellow-citizens more effectively.

League and Bureau staff members share common office facilities on the ground floor of the Library. Pictured below, left to right, are Gwen Jones, secretary, Helen Warhol, typist, and Marilyn Solheim, secretary.

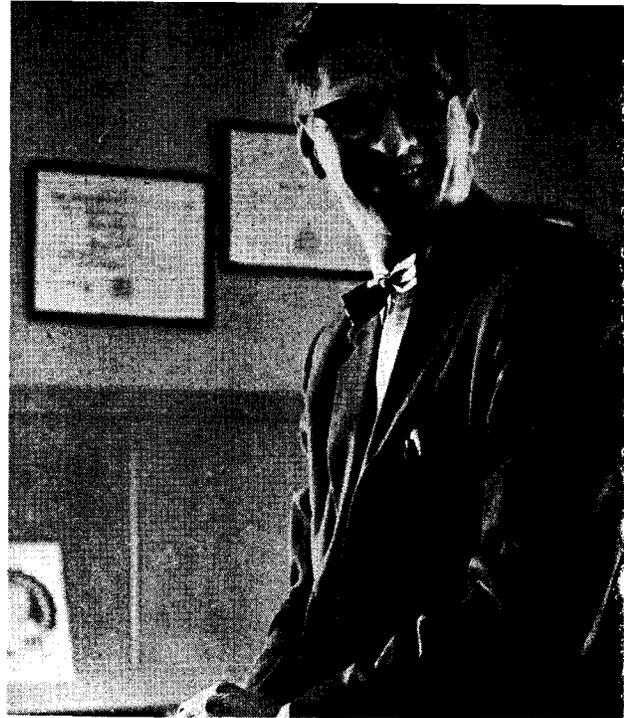
Examining a recent copy of the League publication MINNESOTA MUNICIPALITIES are Alfredo Villanueva, seated; Paul Haugen, James Lee, Carey Winne, and Myrtle Ecklund, left to right, standing. Missing from the photo is David Kennedy, research assistant.



Have You Met?

Dr. Robert B. Howard

Dr. Robert B. Howard is the new dean of the College of Medical Sciences, succeeding Dr. Harold S. Diehl who retired June 30. Dr. Howard was director of continuation medical education from 1952 to 1957 when he was named associate dean of the College.



Joseph Kuehn



As fiscal officer for the Agricultural Extension Service on the St. Paul Campus, Mr. Kuehn handles a payroll of approximately 375. Before joining the Extension Service 25 years ago, he was a member of the Animal Husbandry staff.

Hertha Jorgensen

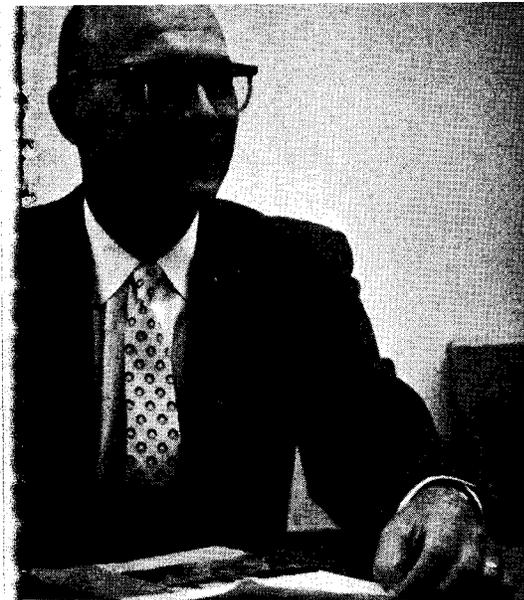
Mrs. Jorgensen has the responsibility of handling the fiscal and budget work for the Graduate School. In this capacity she has daily contact with a wide range of staff members.



Esther Freier and Verna Rausch

Esther Freier, left, instructor in medical technology and hospital chemist, and Verna Rausch, center, assistant professor of medical technology, received four awards for a paper which they presented this summer at the American Society of Medical Technologists convention. Bess Ehmann of Wampole Laboratories, right, presented them with the Hillkowitz Memorial Award for "best original research."





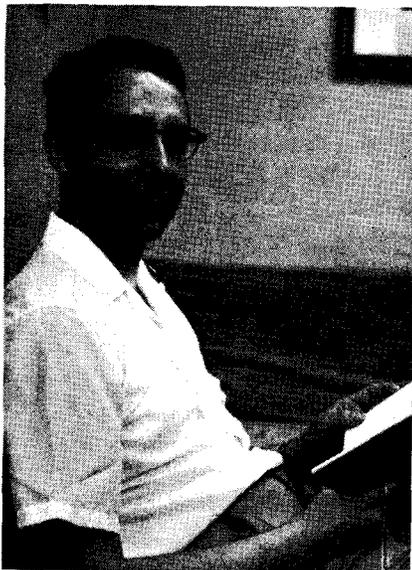
Clifford Carlson

Mr. Carlson became director of University housing on July 1. The new position coordinates all housing activities under one individual.



William Maupins

As science laboratory services supervisor on the Duluth Campus, Mr. Maupins keeps track of a complex variety of supplies and equipment, orders chemicals, and assists in maintaining inventories in the busy Duluth laboratories.



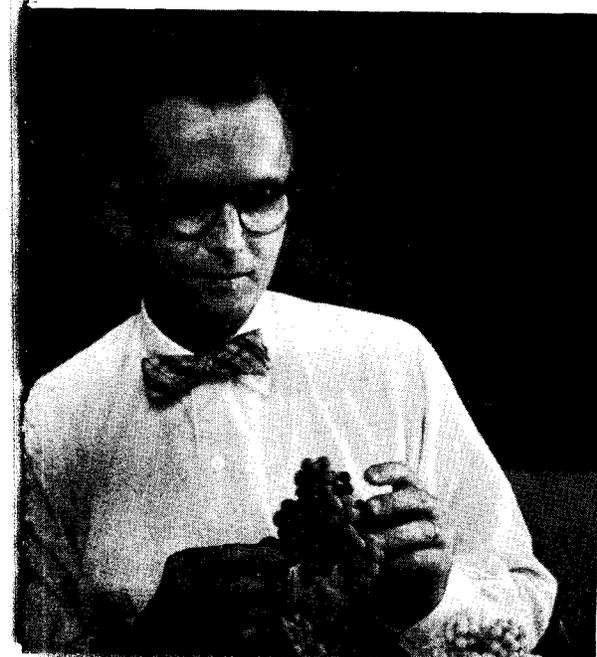
Russell Cooper

Russell M. Cooper, assistant dean of the College of Science, Literature, and the Arts, has been elected president of the Association for Higher Education in a nationwide ballot of its members. Dean Cooper took office September 1 for a one-year term.

Roxana Ford



Miss Ford, who is professor of home economics education, was named assistant director of the School of Home Economics in July. She is a past president of the Minnesota Home Economics Association.



William Lipscomb

On November 1, William N. Lipscomb, professor of chemistry, will receive the Harrison Howe Award for 1958, one of the nation's major awards in the field of chemistry. Professor Lipscomb, chief of the division of physical chemistry, is noted for his experimental and theoretical studies of boron hydrides and related compounds.

Here is a main-dish recipe as intriguing as its name, Chicken Sans Souci (Carefree Chicken), just one of 645 recipes in "Curriculum for Cooks."



CHICKEN SANS SOUCI

2 frying chickens (2½ lbs. ea., quartered or in cup-up pieces)
 3 T. salad oil 3 T. flour
 3 T. butter ½ C. Sauterne
 1 can condensed chicken consomme or 3 bouillon cubes in 2 C. boiling water
 1 4-oz. can mushrooms stems and pieces
 2 T. chop. onion 2 T. chop. parsley
 salt, pepper, monosodium glutamate to taste

Heat oil and butter in heavy skillet. Remove to casserole or roaster. Add flour to drippings in skillet and blend. Then add consomme and wine and cook, stirring until mixture boils and thickens. Add remaining ingredients. Pour sauce over chicken. Cover. Bake at 350° about 1½ hr. or until chicken is very tender. Turn and baste at least twice during baking. Turn oven down to 300° and leave in oven another 1 hr. until ready to serve. 6 portions. Flavor improves if chicken is left overnight in refrigerator.

Mrs. Louis Tobian

Auxiliary Adds Cooking to Curriculum

THE MORTARBOARD replaces the chef's hat in "Curriculum for Cooks," the University Hospitals Auxiliary's cookbook, and the result is a course of study for a master's in cookery. The cookbook, 1958 money-making project of the Auxiliary, is now on sale at \$2.50. Mrs. Gerald T. Evans, chairman of the Auxiliary, explained that all proceeds will go to support special services of the University Hospitals, such as the purchase of radios, ceiling projectors, and toys. Books are sold in several campus bookstores and through Mrs. Burtrum Schiele, chairman of the cookbook committee.

Illustrated by Mrs. Lemen Wells, the book is a treasury of 645 recipes, many as simple as salt steak, an outdoor cookery recipe submitted by Mrs. Lyle French, and as fancy as Zuppa Inglese, an Italian dessert recipe submitted by Mrs. Howard Longstaff.

Here is Mrs. French's recipe for Salt Steak: prepare a bed of charcoal coals to burn one hour. Have the butcher cut a top sirloin three or four inches thick. Prepare for cooking by making a paste of an entire box of salt and a little water. Spread the paste over the entire steak forming a crust. Put the steak directly on the coals and heap coals over the steak. Cook 20 minutes on each side.

Selection, on the basis of quality, was made from over 1400 recipes received, many of which are on file for the second edition. Some are old family favorites, some originals, many have been collected by faculty members on foreign travels, some are recipes originally prepared by foreign students while in faculty homes. All are completely practical but with the subtle twist that singles out the good cook. Included is a recipe for coffee,

originally Mrs. Coffman's, which was saved by a faculty wife because it could be prepared ahead of time and served at a moment's notice. There is even a recipe for the Jean Piccards' favorite entertaining. And there is Stroganoff for all occasions, too: Hamburger Stroganoff, Stew Meat Stroganoff, Round Steak Stroganoff, and Tenderloin Stroganoff.

The Faculty Women's Club is featuring the cookbook at its fall tea for newcomers. Mrs. Schiele pointed out that in every aspect of producing the book, non-auxiliary members have contributed. She emphasized that this is typical of the goodwill, support and enthusiasm within the Faculty Women's Club. She also gave credit to the 100 sponsors throughout the community who, through contributions, made the book possible.

—Have You Heard?—

Resume of Construction Projects

• Minneapolis Campus: parts of the Mines-Metallurgy wing will be occupied this quarter and finishing work is proceeding. Dedication of the Masonic Memorial Hospital is scheduled for October 4, when most of the building will be in use. Territorial Hall, men's dormitory, and the addition to Comstock Hall, women's dormitory, are both in use. The new animal quarters, two underground stories; Frontier Hall, the second men's dormitory, and the addition to the Student Health Service are in the process of construction. Contracts have been let on both the Bio-Medical Library and the VFW Cancer Research Center. Major revamping projects have been completed in Burton Hall, which has a new third floor among other improvements, and in Millard Hall, which has a new fourth floor. A space has been cleared near the stadium on Washington Avenue for the athletic fields which must be moved because the architecture building, now in the planning stages, will take most of the present field area.

• St. Paul Campus: the new Student Center and the first unit of the new Dairy Building are in use. Bailey Hall, co-educational residence hall, is practically complete, and finishing work is proceeding. A two-story addition has been made to the south wing of what will be the College of Veterinary Medicine Building. The Soils Building is very near completion and the second unit of the Dairy Building is under construction. Student housing facilities for 125 families are under construction; 100 families are now accommodated. Construction has begun on the dining hall and will begin soon on three units for the College of Veterinary Medicine, forest products building, horticulture greenhouses and the plant science field building. General rehabilitation on present buildings is to be started soon, including work on Coffey Hall, Haecker Hall, and Green Hall.

New Faculty Appointments

• The following major appointments were announced by the President: David L. LaBerge, associate professor of psychology; Martin Bronfenbrenner, professor of economics; Charles Howell Foster, professor of English; Peter Howard Fowler, professor of physics; Harald R. Jensen, professor of agricultural economics; Richard Behrens, associate professor of agronomy and plant genetics; Delbert C. Hastings, associate professor of business administration; Mahmoud Riaz, associate professor of electrical engineering; Harold William Stevenson, associate professor of business administration, and William Edwin Ranz, professor of chemical engineering.

• Dr. William B. Bernstein, clinical pro-

fessor of surgery, is the new director of the division of proctology in the Department of Surgery.

• Dr. John Edward Harris has been appointed head of the Department of Ophthalmology.

• James S. Malosky, top quarterback on post-war Gopher teams, has been appointed instructor of men's physical education and football coach at Duluth.

• Five new appointments to the Duluth Campus faculty were announced by Provost R. W. Darland. They are: Paul H. Monson, instructor in biology and botany; John Chandler Green, instructor in geology; Robert Alvey Hall, instructor in mathematics; Russell H. Schmidt, instructor in chemistry, and Leverett P. Hoag, assistant professor of geography.

Regents' Scholarships

• The University Regents voted to increase the number of Regents' Scholarships from 66 to 100 per year, and also created 30 new General Extension Division Scholarships per year. All full-time Civil Service employees are eligible.

• Those awarded Summer Session Regents' Scholarships were: Rudolph H. Fischer, senior clerk Main Library, who attended a course in Library Administration during the first session; and Fred J. Anderholm, senior bookstore manager at the Duluth Campus Bookstore, who took Elementary Statistics during the second session.

Major Summer Events on Campus

• Twenty-four Swedish teachers were guests of the University and the College of Education as a part of their educational tour of the United States.

• Dave Garroway and his TV show, "Today," originated from the Minneapolis Campus on July 25. Several faculty members appeared on the nation-wide, three-hour show. James J. Ryan, professor of mechanical engineering, demonstrated automobile safety; E. H. Henrikson, director of

the speech clinic, showed how those with speech defects can be retrained; Edward W. Davis, professor emeritus, spoke on tac-onite; Alvin G. Anderson, associate professor of civil engineering, demonstrated the free-jet wind tunnel and the smoke tunnel; Frank M. Whiting, director of University Theater, and the Centennial Showboat cast welcomed the Garroway cast aboard the showboat. Mr. Garroway interviewed both President J. L. Morrill and Dr. Charles W. Mayo, University Regent.

• The first meeting of the World Health Organization in the United States was held in Minneapolis in June. Nine University health authorities were on advisory panels. They were: Dr. Gaylord W. Anderson, director of the School of Public Health; Dr. J. R. Berkson, professor of biometry and medical statistics; Herbert M. Bosch, professor of public health; Dr. Harold S. Diehl, former dean of the College of Medical Sciences; Dr. Ruth E. Grout, professor of public health; Dr. Philip S. Hench, professor emeritus of medicine; Dr. Ancel Keys, director of the physiology and hygiene laboratory; Dr. Wesley W. Spink, professor of medicine, and Ray M. Amberg, director of University Hospitals. Among the various WHO groups who toured the campus were a group of Russian dentists and the wives of WHO delegates.

Honors and Awards

• I. M. Kolthoff, head of the Department of Analytical Chemistry, was elected to the National Academy of Sciences. He is the sixth University member. Others are: Alfred O. C. Nier, head of the School of Physics; Lee O. Smith, head of the Department of Organic Chemistry; Dr. Maurice B. Visscher, head of the Department of Physiology; Bryce Crawford, head of the School of Chemistry, and Elvin C. Stakman, professor emeritus of plant pathology.

• Dr. Karl W. Stenstrom, professor emeritus of radiation therapy, was awarded the 1958 Cancer Society medal.

• Walter W. Nelson, foreman at the Forestry and Biological Station at Itasca State Park, was awarded a 30-year service pin by the United States Weather Bureau in recognition of 30 continuous years of daily weather observations.

• Athelstan Spilhaus, dean of the Institute of Technology, was awarded a cross of appreciation by the United States Air Force for his service as a member of the Geophysical Research Panel of the Scientific Advisory Board to the Chief of Staff, U.S.A.F.

• Dr. Laurence O. Pilgeram, assistant professor of physiology, was awarded one of nine 1958 Ciba Foundation awards for research relevant to the problems of aging.

• Annual Safe Driver Awards were pre-



Professor Emeritus Davis and Dave Garroway as they appeared on "Today."

HAVE YOU HEARD?

sented to 27 University drivers this spring by the National Safety Council. Four-year awards went to: Arthur Kirb, James McDonough and William House, Protection and Safety. Also, John Webb, Duane Dorfner, Curtis Mattson and Walfred Nelson, Physical Plant Shops; Robert S. Anderson, General Storehouse, and Fred Heinkel, Laundry. Also Lewis Lee, Dennis Wolters and Oscar Krona, Campus Maintenance, and Dean Kottke, Farm Maintenance.

Three-year awards went to Norman Pekula and Patrick Kaiser, Campus Maintenance, and Wayne Boysen, Protection and Safety.

Two-year awards to Hugh Pettygrove, Arthur Halpin and Robert Gould, Protection and Safety. Also, Hubert Garrison, Milk and Cream; Art Norland, Campus Maintenance, and Gale Hoover, Farm Maintenance.

One-year awards to Gerald Nichols and Douglas Hartley, Protection and Safety. Also, Deane Erickson, Farm Maintenance, Clarence Barnhart, Physical Plant Shops, and Robert Adams, General Storehouse.

Travel and Activities

• A Hill Foundation grant enabled 11 faculty members to spend a month studying life inside Russia. Members of the study-seminar group are: Robert H. Beck, professor of education; John R. Borchert, chairman of the Department of Geography; Francis M. Boddy, professor of economics; J. William Buchta, associate dean of the College of Science, Literature, and the Arts; Robert J. Holloway, chairman of the Department of Business Administration; Robert T. Holt, assistant professor of political science; William S. Howell, chairman of the Department of Speech; Thomas F. Magner, chairman of the Department of Oriental and Slavic Languages; Philip M. Raup, professor of agricultural economics; John E. Turner, associate professor of political science; and E. W. Ziebarth, dean of the Summer Session.

• Robert H. Cameron, chairman of the Department of Mathematics, and Monroe D. Donsker, professor of mathematics, both of the College of Science, Literature, and the Arts, attended the International Congress of Mathematicians in Edinburgh, Scotland.

• Doris I. Miller, assistant professor of nursing administration, spent two weeks in Santiago, Chile, helping the University of Chile set up a program to improve nursing services in hospitals.

• Dr. Robert A. Good, professor of pediatrics, spent five weeks in Europe as a member of a medical exchange team on immunopathology.

• Dr. B. J. Kennedy, associate professor of medicine, toured Europe this summer

studying treatment of cancer. A Lovelace Foundation grant made the tour possible. Dr. Kennedy attended the International Cancer Congress in London before beginning his trip.

• Ralph E. Rapson, head of the School of Architecture, studied architecture in Germany on invitation of the West German government.

• Selmer A. Engene, professor of agricultural economics, participated in the Farm Management Research Institute in Japan, attended the International Conference of Agricultural Economists in Mysore, India, and visited universities and research institutes in the Scandinavian countries and Great Britain.

• Sherwood O. Berg, head of the Department of Agricultural Economics, visited Korea and Seoul National University and participated in the International Conference of Agricultural Economics at Mysore, India.

• C. C. Hsiao, associate professor of mechanics and materials, attended a conference sponsored by the International Union of Pure and Applied Physics and the Academy of Sciences in the U.S.S.R.

Summer News Notes

• In a nation-wide testing of nursing graduates the University graduates scored considerably above the national over-all standard average and ranked first among graduates in the state.

• The Cedar Creek Forest project has been renamed the "Cedar Creek Natural History Area" to more accurately describe its nature and purpose.

• Admissions to the Medical School have been increased from 125 to 140 students. Enlarged and improved facilities and strengthening of the staff made the move possible.

• Enrollment in both summer sessions topped last year's figures. First summer session enrollment was 9,748 (850 above last year); second summer session enrollment was 6,613 (494 above last year). These figures include registration on the Duluth Campus.

• Staff members will find it easier to appear on television because of a \$37,500 Ford Foundation grant.

• Dr. Homer J. Smith, professor emeritus, had an operation on his eyes for glaucoma and is presently recovering in his son's home. He would appreciate hearing from students and friends although his vision will not enable him to acknowledge cards. His address is: 2748 West River Road, Minneapolis 6.

• The Aeronautical Engineering Department has been reorganized; incorporated within it is the former Department of Mechanics and Materials. Benjamin J. Lazan,

associate dean of the Institute of Technology, heads the new Department of Aeronautical Engineering. Simultaneously, the Rosemount Aeronautical Laboratories became an independent agency within the Institute of Technology. John D. Akerman, former head of Aeronautical Engineering, is now director of the Laboratories.

New Service

• A new Instant Copying and Microfilm Service is now available, in Room 10 of the Main Library, to all departments of the University and to students. Established by the Audio-Visual Education Service, in cooperation with the University Library, the new service includes a microfilm printer which provides instant, 8" x 10" positive prints of material on 16 mm or 35 mm microfilm. For further information, call extension 6253 or 6798.

Lecture Series

• "What We Don't Know About Science" is the basic theme of the six lectures in Series VII, "Man and His Scientific Quest," offered consecutive Mondays beginning October 20, at 8:00 p.m. in the Museum of Natural History Auditorium. Featured are: "Groping Among the Galaxies," Harlow Shapley, astronomer; "Exploring the Upper Atmosphere With Radio Waves," Dr. C. Gordon Little, British atrophysicist; "Why Does a Small Planet Have Oceans?" Dr. Roger Revelle, director Scripps Institution of Oceanography; "The Fourth Dimension of Anatomy," Dr. Arnold Lazarow, head of Anatomy; "Some Aspects of Race," Dr. Rupert Murrill, assistant professor of anthropology; "Our Vanishing Mineral Resources: A Challenge," Dr. Eugene P. Pfeider, division chief of Mines and Metallurgy. Enrollment may be handled in person or with the following coupon.

**General Extension Division,
50 Nicholson Hall,
Univ. of Minn., Mpls. 14, Minn.**

Please register me in "Man and His Scientific Quest" lecture Series VII.

Name

Address

City..... Zone.....

Public rate \$5
Academic rate, \$2.50
Single tickets, \$1.50
(state number wanted)

If applying for academic rate, indicate your place of employment.....

Checks should be payable to the University of Minnesota. Tickets will be mailed or held at the door until you claim them.

(Academic rate applies to faculty, staff, students, of all education institutions, and to their wives.)



ABOVE: David Boobar, senior tabulating equipment supervisor, feeds staff cards into the University's check-writing machine.

Skilled Staff Members and Electronic Marvels Process 26,000 Paychecks Monthly

BELOW: Ralph Willard discusses a payroll question with Wanda Sands. Other payroll personnel pictured, left to right, are Joyce Knops, Margaret Lindstrom, and Frances Wilson.



TWICE EACH MONTH 13,000 eagerly-anticipated University paychecks make a speedy, electronic journey through a Twentieth-Century mechanical marvel on their way to staff members, their banks, their grocers, their landlords, and their used car dealers. These will total approximately \$40,000,000 this year.

Yet this final and dramatic mechanical step in the preparation of a paycheck is just that — a strictly mechanical operation, for leading up to the actual check-writing is a series of processes involving a large number of specialized personnel without whose services the vital payroll system could not function.

Administrative Responsibility

Just a glance at a paycheck will show that administrative responsibility for the University of Minnesota payroll operation rests with William T. Middlebrook, vice president of Business Administration, and Laurence R. Lunden, treasurer, the men who actually sign the checks. The Comptroller's Office is in charge of the entire payroll operation.

Edwin C. Jackson, assistant comptroller, Clifford S. Plank, chief accountant, and Alfred H. Cheese, assistant chief accountant, oversee the entire operation, with Ralph Willard in actual charge of both the tabulating and payroll sections. Byron Smith is principal tabulating equipment supervisor; Wanda Sands is in charge of the payroll department staff.

Still additional individuals are involved in making the paycheck a twice-a-month reality. Responsibility for accurate and prompt record-keeping rests with individuals in the personnel office who process all new appointments and provide the Payroll Department with the new employee numbers. This is the machine world's introduction to a new staff member; to the machine an individual can only be a number, for that is the language it understands.

Further responsibility for accurate payroll records rests with the department head, his secretary, and, ultimately, with the staff member, for it takes everyone's cooperation to provide the prompt data the machine needs before it clicks off that welcome paycheck.

Payroll Department

Each check starts its journey in the Payroll Department located on the third floor of the Administration Building on the Minneapolis Campus. The files kept by these 10 staff members include individual cards for everyone on the University payroll all over the state: deans, secretaries, 4-H leaders, extension specialists, county agents, carpenters, physicians, nurses, custodial and food service workers. There are some 18,000 different individuals on University payrolls during a fiscal year.

This record-keeping is divided into three categories: Laura Kummett, Joyce Knops, and Margaret Lindstrom handle the regular payroll cards (including nearly all permanent staff members, both Academic and Civil Service); Frances Wilson, Gail Eckblom, and Patricia Becker work with the miscellaneous payroll (temporary

staff members and student employees, most of whom work on an hourly basis), and Joyce Berg, Shirley Arndt, and Elaine Saari take care of the mechanics payroll which includes carpenters, electricians, and other skilled staff members in Physical Plant.

The record cards for these latter two groups change with each pay period because of irregular hours and rates, but there is generally only about a 10-15 per cent change each time in the regular payroll cards. This percentage represents 800 to 1200 changes, however.

Payroll personnel must accurately reflect adjustments in pay caused by absences without pay. This information is noted on the individual cards which pass from the Payroll Department to the keypunch operators who, in turn, translate the information into IBM terms (the familiar punched holes).

IBM Machines Take Over

Then machinery takes over. The punched cards pass from the keypunch operators to the apparatus which has the awe-inspiring job of figuring deductions for federal withholding tax (which alone totals nearly \$5,000,000 annually), S.E.R.A., and deduction for social security. (The Insurance Department furnishes the data on Blue Cross and Blue Shield deductions.) This electronic age marvel is a junior size "brain" which is capable of making hundreds of arithmetic calculations per minute.

From this machine the cards are fed into the check-writing device which handles not only the checks themselves but the yellow cards staff members receive for their own records and an additional card kept on file in the Comptroller's Office.

Mistakes Can Happen

All this mechanical equipment is only as accurate as the information provided by Payroll Department staff members. There is always the possibility of a mechanical flaw, however, which could even be responsible for a paycheck error.

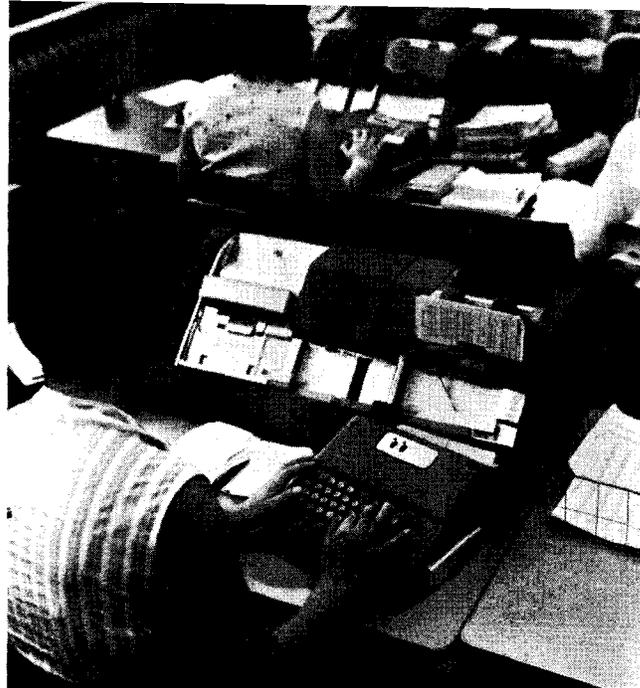
Still there's no danger of any staff member becoming a millionaire with one erroneous paycheck. In fact, University payroll checks are printed in such a way that the highest possible figure could include no more than five digits; so, unfortunately, the highest error possible would be a paycheck for \$999.99.

This hasn't happened yet, and chances are the error would be caught before some startled staff member saw the astonishing total.

Busiest Periods for Department

The acquisition of IBM equipment (which the University first started using over 35 years ago) has not eliminated "rush" seasons for payroll personnel.

The recent cost-of-living salary increases plus the regular July merit increases (see story on page 15), for example, found many staff members working evenings and week-ends to keep up with the many changes; a similar situation existed last year when social security went into



ABOVE: University key-punch operators translate payroll information into IBM's "punched-hole" terms.

effect. Every new deduction means a new challenge for the Department, particularly for Ralph Willard who is responsible for putting new systems into operation.

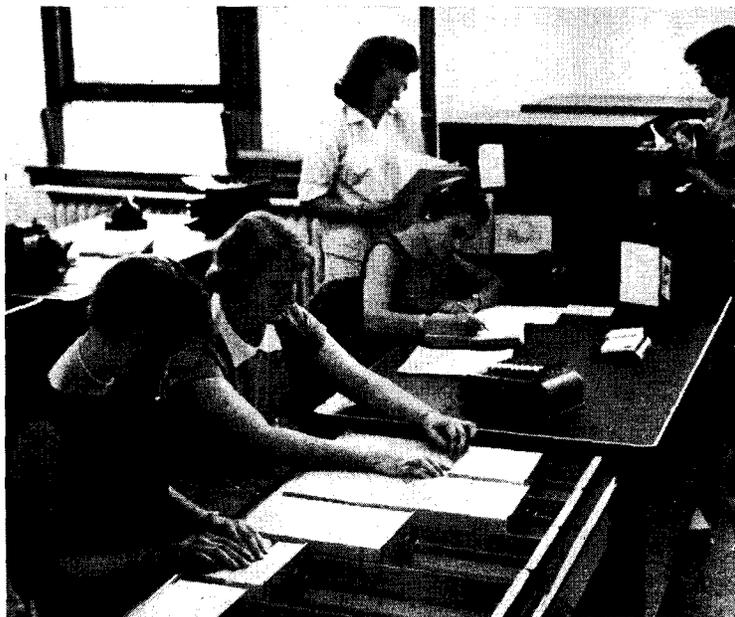
Cash that Check!

Although the work of all the payroll personnel is doubtless appreciated by all staff members, these paycheck experts warn University people not to appreciate their checks *too* much, at least not to the extent of hanging on to them for weeks or even months, which has happened!

This can cause a great deal of confusion when the University balances its mammoth checkbooks.

So, to the rare individuals for whom such a plea is necessary, the Payroll Department asks that paychecks be cashed promptly and without mutilating.

BELOW: Responsibility for accurate payroll record-keeping rests with staff members Patricia Becker, Elaine Saari, and Gail Eckblom, left to right, seated, and Shirley Arndt and Joyce Berg, left to right, standing.



What Does the Recent Cost-of-Living Increase Mean to the University's Civil Service Staff?

JULY PAYCHECKS were welcome sights indeed to Civil Service staff members, for many noticed an eight per cent increase in salary, and all were granted at least a four per cent increase.

For staff members who were not at the maximum of their present pay ranges and who had been with the University more than five and one-half months on July 1, the eight per cent increase represented two four per cent increases: first, the four per cent increase granted to compensate for the increased cost-of-living, and second, the regular four per cent July merit increase.

The first increase was granted all Civil Service people regardless of their length of time at the University. For those who received an eight per cent increase, the larger paycheck means essentially a two step advance.

How Cost-of-Living Increases Are Figured

The cost-of-living salary increase system was set up by the Minnesota Legislature to help both University and state Civil Service people keep up with today's high prices.

Basically, it works this way: when prices for the things sold go up, the University pays a higher salary for work done.

The actual cost-of-living is based on an average of the prices paid for food, rent, clothing, and other similar items. The index of these prices is figured by the U. S. Department of Labor, not by the University.

The University does, however, watch the U. S. Bureau of Labor Statistics Price Index carefully. This index shows what it costs a moderate-income family to live in the Twin Cities area. Then salaries are adjusted every July 1 on the basis of what that index showed for January 1 of the same year.

The Bureau has set the cost-of-living index at 100 for the average of prices between 1947 and 1949. Thus, the index shows how average prices compare at any one time to the 1947-1949 prices. An index of 200, for example, would mean that prices are double what they were during the 1947-1949 period. This index goes by four-point steps — from 100 to 104, to 108, to 112, etc. Cost-of-living adjustments are made each time the index goes above or below one of these four-point cut-offs on January 1 of a given year.

For example, on January 1, 1957, the index was 119.4;

by January 1, 1958, it had increased to 123.2, thus passing the 120 cut-off point and entitling Civil Service personnel to a four per cent salary increase. One reason for the four per cent figure is that this particular percentage ties right in with the four per cent merit increases.

Because it would be virtually impossible to change salary rates with every little change in the cost of things we buy, adjustments are made not oftener than once a year. If the cost of living falls, salaries will, too, but more slowly than costs.

Merit Raises

The second of the four per cent salary increases granted many Civil Service staff members in July was the "merit increase," the pay increase granted from year to year for work well done.

All Civil Service positions fall within a certain range of pay, and each of these pay ranges has six steps, ranging from starting pay to top pay for the job. The difference between successive steps in a pay range is four per cent (to the nearest dollar). Annual merit increases, then, are figured on this four per cent basis and cause salaries to be increased to the next step in the pay range.

When the top step of any range is reached, there is still a chance for two more salary increases.

Longevity Merit Increases

These two additional salary increases are called "longevity merit increases." The first comes after three years at the top of a pay range (and after eight years of University service). This is a four per cent raise, like the regular increases.

After five additional years, there awaits another raise of four per cent. These two longevity raises do not come automatically. Department heads must recommend them.

The regular merit and the longevity raises are entirely separate from the cost-of-living adjustments, for they are granted whether prices go up or down, and they become effective on July 1 each year.

To be eligible for the regular merit increases, Civil Service staff members must have been appointed to their current positions and rates on or before January 15.

If staff members begin work at the University or receive promotions after January 15, their first regular merit raises do not come until July 1 of the following year.

University of Minnesota Calendar of Events

OCTOBER, 1958

MINNEAPOLIS SYMPHONY CONCERTS

Subscription Series

Northrop Auditorium, 8:30 p.m.

October 18 — Gala opening concert.

October 25 — All orchestral program.

October 31 — Vladimir Ashkenazy, pianist.

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

UNIVERSITY ARTISTS COURSE MASTERPIECE SERIES

Northrop Auditorium, 8:30 p.m.

October 9 — Roberta Peters, Metropolitan Opera coloratura soprano.

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

October 28 — Danish National Orchestra, John Frandsen and Thomas Jensen, conductors.

(Single tickets, \$1.50 to \$4.00. Reservations may be made at 105 Northrop.)*

UNIVERSITY ARTISTS COURSE CELEBRITY SERIES

Williams Arena, 8:30 p.m.

October 27 — H. M. Grenadier Guards Band and Scots Guards, Pipers, Highland dancers.

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

CENTENNIAL MUSIC FESTIVAL

Northrop Auditorium, 8:30 p.m.

October 20 — Minneapolis Civic Orchestra Centennial concert. Thomas Nee, conductor.

October 21 — Centennial choral concert. Participating choirs: Carleton college, Hamline college, St. Paul Central high school, and Minneapolis Southwest high school.

October 26 — Centennial Religious Music concert. Participating choirs: Minneapolis Central Lutheran church, St. John's Abbey Schola, Combined Jewish, and St. Mary's Russian Orthodox-Greek Catholic church.

GIDEON SEYMOUR MEMORIAL LECTURE

Northrop Auditorium, 4:00 p.m.

October 12 — Archibald MacLeish, poet, former Librarian of Congress and two-time Pulitzer Prize winner.

(Tickets available by writing Seymour Ticket Office, 223 Northrop.)

THURSDAY MORNING CONVOCATIONS

Northrop Auditorium, 11:30 a.m.

October 2 — President James Lewis Morrill.

October 9 — To be announced.

October 16 — *The Thirteen Clocks*, an opera by Mary Johnson based on a James Thurber story.

October 23 — "A Foreign Policy to Fit the Modern World," lecture by Walter H. C. Laves, chairman, Department of Government, Indiana University.

October 30 — His Excellency Mohammed Ali, Ambassador to the United States from Pakistan.

SPECIAL PROGRAMS

October 19 — *Religion in Life Week* speaker, Dr. Theodore A. Gill, managing editor of the Christian Century. (Northrop Memorial Auditorium.)

October 20 — Tore Segelcke, Norwegian dramatic actress, in dramatic scenes. (Scott Hall Auditorium.)

MAN AND HIS SCIENTIFIC QUEST Lecture Series VII

Museum of Natural History Auditorium, 8:00 p.m.

October 20 — "Groping Among the Galaxies," Harlow Shapley, astronomer.

October 27 — "Exploring the Upper Atmosphere with Radio Waves," Dr. C. Gordon Little, British astrophysicist.

(Series of six lectures, \$5.00 to the public; academic rate to faculty, staff, students of all educational institutions, and to their wives, \$2.50. Single tickets \$1.50 each.)

UNIVERSITY THEATER PERFORMANCES

Scott Hall Auditorium

October 18-19 — *Paul Bunyan's Lumberjacks* by Helen and Lowell Manfull. (10:30 a.m., Oct. 18; 3:30 p.m., Oct. 19.) (Tickets at \$.50 on sale at Scott Hall Box office.)

October 30-November 1, 4-9 — *The Importance of Being Earnest* by Oscar Wilde. (3:30 p.m., Nov. 4, 9; 8:30 p.m. Oct. 30-Nov. 1, 5-8)

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

(Season tickets available at Scott Hall Box Office only. Evenings and Sundays, five plays, \$5.00; sales close Nov. 9. Tuesday matinees, five plays, \$3.00; sales close Nov. 4.)

MUSIC DEPARTMENT CONCERTS

Scott Hall Auditorium, 11:30 a.m.

October 7, 14, 21, 28 — Music Hour.

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

Monday-Fridays, 12:15 and 4:30 p.m. — Newscasts. Quarter-hour reviews of world, national, state and University news.

Monday-Friday, 1:30 p.m. — *Public Affairs Forum*. Talks and lectures.

Friday, 3:45 p.m. — *Community Calendar*. A round-up and interviews about University and community activities.

Saturday, 12:00 p.m. — Gilbert Highet, book commentary.

Saturday, 1:15 p.m. — University of Minnesota football preview and game.

Saturday, 4:30 p.m. — *The Creative Mind*.

UNIVERSITY TELECASTS Channel 2, KTCA-TV

Monday, 9:00 p.m. — *At Home With Music*. 9:30 p.m. — *The Living Theater*.

Tuesday, 9:00 p.m. — *Invest Intelligently*. 9:30 p.m. — *Understanding Human Behavior*.

Wednesday, 9:00 p.m. — *To be announced*. 9:30 p.m. — *The Living Theater*.

Thursday, 9:00 p.m. — *TV Journal*.

9:30 p.m. — *Town and Country*.

Friday, 9:00 p.m. — *Contemporary Design*. 9:30 p.m. — *Minority Problems*.

UNIVERSITY GALLERY EXHIBITIONS

September 22-October 31 — Rudy Pozzati, paintings and prints.

October 3-22 — Edward Weston prints.

September 19-October 31 — Wright Pottery display.

OCTOBER UNIVERSITY PRESS PUBLICATIONS

A History Of the Arts Of Minnesota edited by William Van O'Connor, \$3.00. Each of three book sections also sold in pamphlet form.

The Obedience Of A King Of Portugal, translated by Francis M. Rogers, who also provides a commentary, \$5.00.

ATHLETIC DEPARTMENT EVENTS Football Games at Home

Memorial Stadium, 1:30 p.m.

October 4 — Pittsburgh

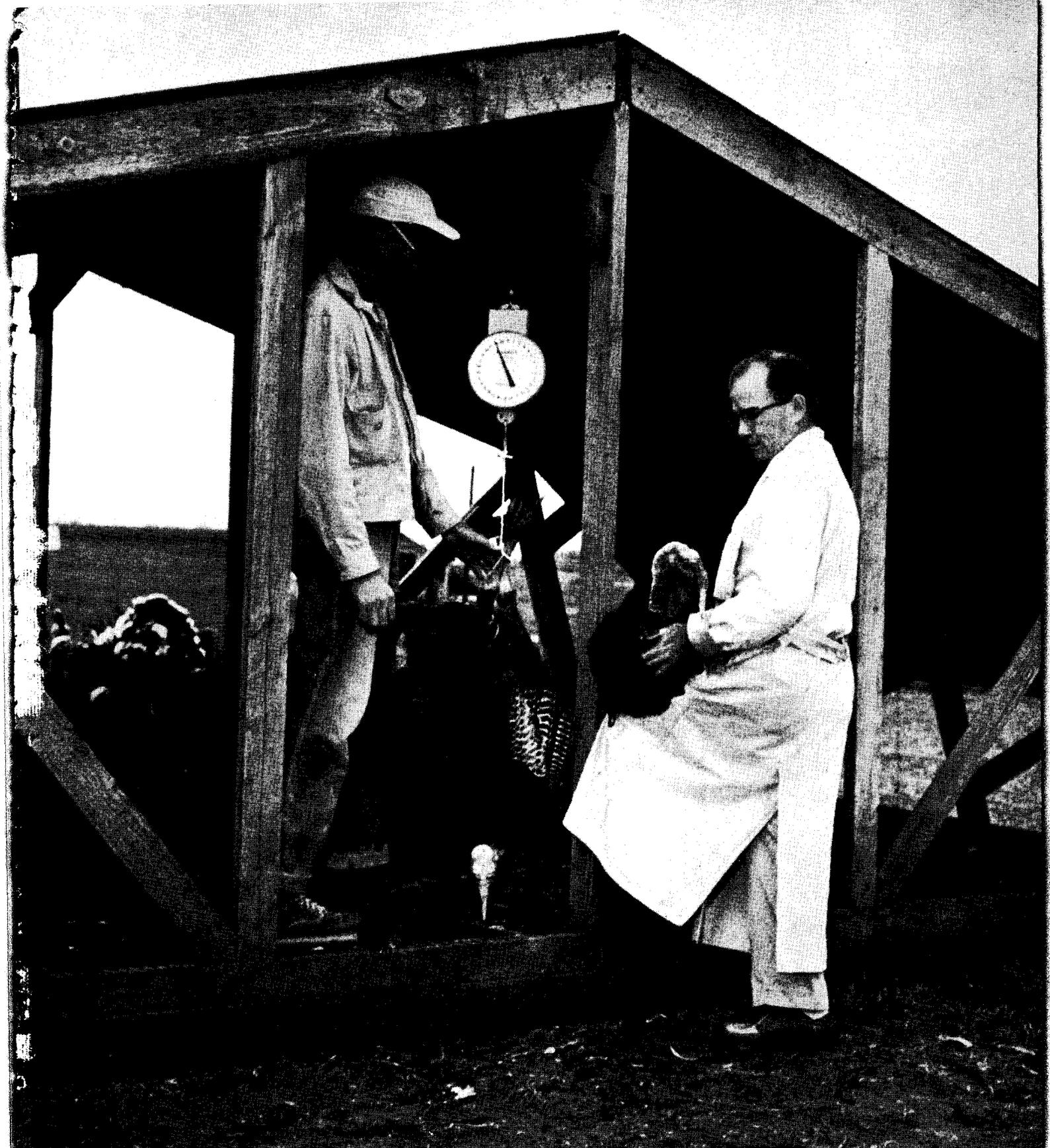
October 11 — Northwestern

October 18 — Illinois (*Homecoming Game*)

(Single tickets, \$4.00. Counter sale of any unsold tickets begins the Monday before each game at the football ticket office, 109 Cooke Hall. For further ticket information call FE. 2-8101.)

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

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



THE MINNESOTAN

The University Staff Magazine

-

November 1958

They Made Us Great



Maria L. Sanford

ONE OF THE BEST-KNOWN women in the nation, and perhaps the best-known in Minnesota, will be honored on November 12 in Washington, D.C., when the statue of Maria L. Sanford is unveiled in the rotunda of the Capitol. The seven-foot bronze figure was created by Minnesota sculptress Evelyn Raymond. President J. L. Morrill will speak at the dedication ceremony.

Maria Sanford came to the University of Minnesota in 1880 during the presidency of W. W. Folwell. She was named professor of elocution the following year, one of the first women in America to become a full professor.

Her freshman rhetoric class became so popular that it was necessary to add an extra session, which became known as the "sunrise class," because it met in Old Main at 7:00 a.m.

Aside from her classroom teaching, Professor Sanford was in great demand as a lecturer throughout the entire state. Her illustrated talks on the history of art were a pioneer venture in the still-frontier culture of Minnesota.

Yet Maria Sanford was more than an educator and a lecturer. She was an ardent champion of all who needed help and encouragement: the Indians of Montana, the

Negroes of Georgia, the refugees of World War I. She was also an advocate of scholarships for gifted youth, a pioneer in the field of adult education, a founder of countless parent-teacher groups, and a vigorous champion of women's rights.

One of the University's women's dormitories, Sanford Hall, bears her name.

Professor Sanford retired in 1909 after 29 years of teaching at the University. At the time of her retirement there were 1,000 students in her University classes, and she received what she considered one of her greatest honors that year when she was invited to deliver the Commencement address.

Her retirement years were full of activity; she gave many patriotic addresses during World War I; she received the degree of Doctor of the More Humane Letters from Carleton College and had numerous clubs and scholarships named in her honor.

In 1920 she died quietly in her sleep in Washington, D.C., the day after she had attended a luncheon given in her honor by the D.A.R. Congress.

Among the 78 citizens honored in the Capitol by states, Frances E. Willard of Illinois and Florence R. Sabin of Colorado are the only women who have received recognition.

Minnesota's Maria Sanford thus becomes the third woman to have been judged worthy of a place in America's Hall of Fame.

On the cover . . .

Robert N. Shoffner, professor of poultry husbandry, and Kenneth W. Sandberg, herdsman, weigh in two Thanksgiving gobblers from the breeding and feeding research flock at the Rosemount Experiment Station.

Vol. XII

No. 2

THE MINNESOTAN

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

William L. Nunn, Director

Ann Tucker Editor

Emma Lund Associate Editor

Advisory Committee: Members of the University Public Information Council.

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

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

St. Anthony Falls Hydraulic Laboratory



Associate Professor Alvin G. Anderson demonstrates flow to a graduate class in fluid mechanics with the help of Senior Engineering Assistant William H. Dingman. Advanced students in hydromechanics learn from actually working in the Laboratory as well as in classroom lectures and demonstrations. Three foreign students pictured are: Zal S. Tarapore, India, Aftab Kaza, Pakistan, and Adel Akhundzadeh, Iran.

A World-Renowned Water Clinic for 20 Years

THE UNIVERSITY'S St. Anthony Falls Hydraulic Laboratory is a center for advanced study, research, and public service. Here, the University of Minnesota collaborates with American and foreign governments and authorities of their creation, as well as with private business organizations, in fundamental designs of water and water-control systems, in the dissemination of scientific data, and in advanced research. All of this makes possible the instruction of advanced students in hydraulics and fluid mechanics.

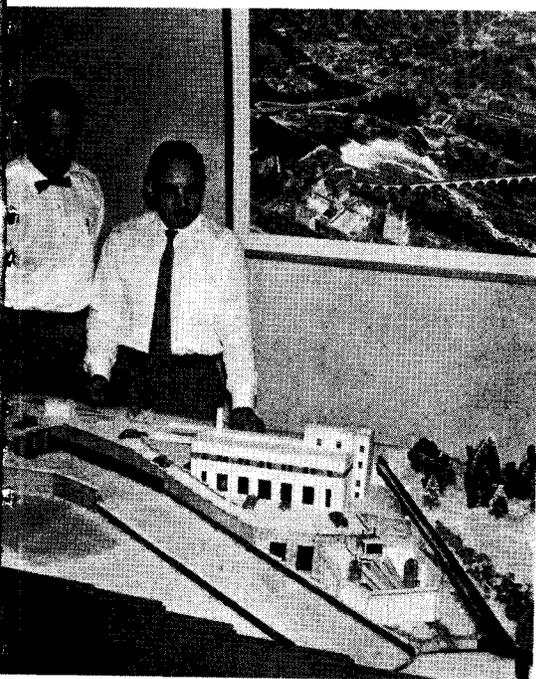
Projects are diversified, ranging from those concerned with culverts, sewers, and erosion, to those concerning river revetment, locks, dams, and spillways. For example, the Laboratory aided in the designs of the Mangla Dam in Pakistan and the Guayabo Dam in El Salvador, as well as in solving sedimentation problems in the Mississippi River, under St. Paul's High Bridge.

There are 39 full-time University staff members at the Laboratory, 16 of whom have been there over 10 years. Of these, four assisted with the original design work or construction of the Laboratory. In addition, several co-operating agencies maintain full-time staffs at the Laboratory. They include: the Corps of Engineers, the U.S. Geological Survey, and the Agricultural Research Service.

Lorenz G. Straub, director of the Laboratory, established the plans and managed the original construction of the Laboratory, which was a WPA work project. When the job was completed in 1938, Dr. Straub took over the directorship.

Operating costs are paid, in part, through Legislative appropriations and, in part, by project sponsors.

The Laboratory is built against the stone ledge which forms the head of St. Anthony Falls in Minneapolis. Most of the floors of the Laboratory are below the headwater level of the river; this means that full advantage can be taken of the natural power that is created in the drop of approximately 50 feet. Once used, the water runs back into the river.



Professor John F. Ripken and Professor Edward Silberman study the scale model of the St. Anthony Falls Hydraulic Laboratory built on Hennepin Island, just below St. Anthony Falls in Minneapolis.

November, 1958

NATURE GETS A



This is the research staff at a consultation on the Priest Rapids project, Columbia River, Washington. Left to right: Charles E. Bowers, research associate; Edward Silberman, professor of hydraulics; Alvin G. Anderson, associate professor of civil engineering; Albert G. Mercer, instructor in civil engineering; Lorenz G. Straub, director; John F. Ripken, professor of hydraulics; Loyal A. Johnson, lecturer in civil engineering, and Sigurd H. Anderson, research fellow.

Each project begins its way through the Laboratory upon its acceptance by Director Lorenz Straub, who selects a project leader from the research staff, pictured at the left. The project engineer is selected on the basis of specialized knowledge which applies to the project. All of the Laboratory facilities, as well as the entire staff, will be at his disposal. On every project there is invaluable interaction and exchange between members of the research staff and their associates, in every phase from organization and tooling until the final reports are entered in the Library files.



Technical reference material is available in the Library for research. Laboratory publications are also kept here, as well as a negative file of photographs of projects. Here Walter James, associate scientist, does research with the aid of Ruth Carpenter, junior librarian. Meir Pilch, research fellow, is translating from a foreign publication.



Ernst Elguther, engineer, studies a finished piece brought to him by Joseph Bauer, laboratory machinist, to see if it fits into the design planned and drafted for the project. The drafting room is manned by students and is responsible for drawing up plans for both the scale models and those drawings which appear in the final Project Report.



The mechanical staff fabricates all special research equipment and instrumentation. Looking over Lucite components made for the Ontario Paper Company project are Frank Dressel, senior engineer, and Clarence Nolt, senior general mechanic. These Lucite pieces and other plastic materials are formed in a special oven in the Laboratory. At the machines in the background are Carl G. Peterson and Joseph Waresch, senior general mechanics.



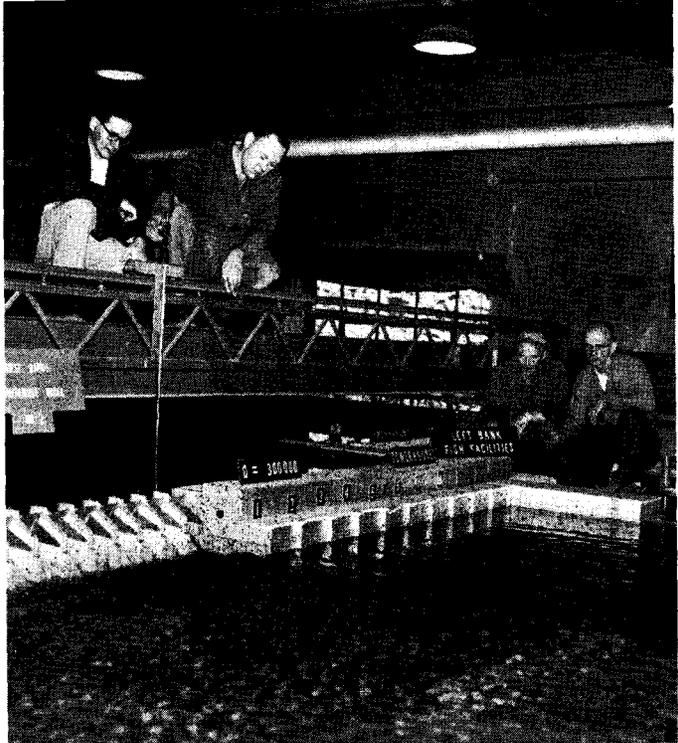
Since an exchange of information is so vital to scientific investigation, every project, upon completion, is covered in a formal report giving procedure and results. Project Reports are submitted to the sponsor as well as kept on file. They are produced by the editorial staff. Left: Robert Gordier, research fellow, checks on details with Nancy Geiger, office supervisor. Mary Ann Peterson, editorial assistant, is typing at a varityper in the foreground.

Projects are also photographically recorded in slides and in moving pictures. Technical papers, master and doctoral theses, bulletins of basic and general information, and circulars of semi-popular information, are also produced.

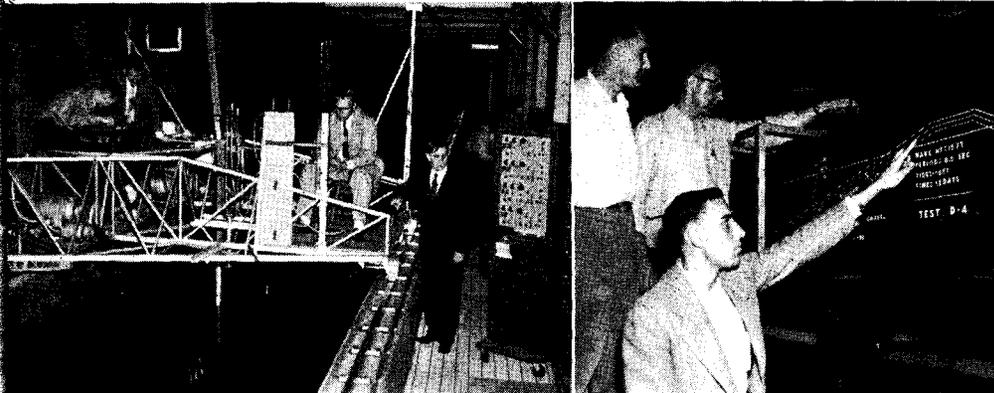
The Minnesotan

HELPING HAND

There is a two-way flow at the St. Anthony Falls Hydraulic Laboratory; water flows in — ideas, designs, and scientific information flow out. Research and the resultant construction of models and special apparatus are regular and systematic operations because the Laboratory is equipped with a diversified pattern of facilities and personnel. This is what happens after the Hydraulic Laboratory accepts a project; these are the University staff members who have made it a world-renowned water clinic.



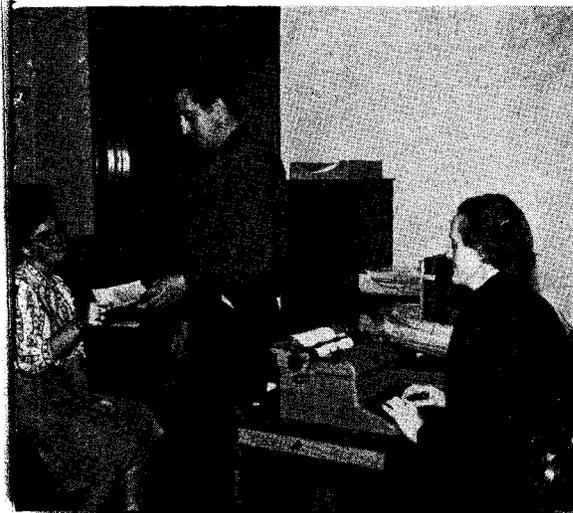
This scale model of the Priest Rapids project on the Columbia River in Washington is now being used for tests preliminary to actual construction at the site. Here Warren Dahlin, junior engineer, gives directions for a test to Charles Freeman, Clyde Lovelace, and Raymond Kleppe, all senior general mechanics.



An electronics section provides instruction and service for measurement problems. Shown calibrating the electronic equipment which will give them a measure of the velocity of the flow within the model are Norman Viss, student; Frank Schiebe, assistant scientist; Joseph Wetzell, research fellow, and John Killen, research fellow.

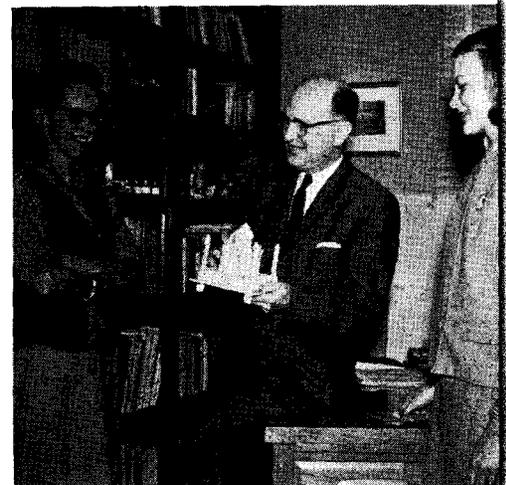
One phase of the study for the U.S.-Canadian Passamaquoddy Tidal Power project is determining the effect waves will have on a proposed slope. Shown at the test model are Harald Frederiksen, junior engineer; Jerome Schutta, senior general mechanic; and Paul Diethelm, junior engineer.

Staff members not pictured are: Raymond Murdock, Floyd Thomas, and Helmer Amundson, senior general mechanics; Gaffe Erickson, junior scientist, and Barbara Johnson, editorial assistant.



Left: Lloyd Kirsch, senior general mechanic, picks up his check in the accounting section from Patricia Williams, senior clerk typist. Joyce Peterson, principal account clerk, is at the typewriter.

Right: Director Straub displays in his office mementos of many of the nations in which he has traveled and worked. Here he shows an alabaster model of the Taj Mahal to Mary Marsh, editorial assistant, and Marian Hiner, principal secretary.





Pictured above with Robert P. Boyle, left, radio program director, are: Jean K. Lowe, Arnold W. Walker, and Audrey June Booth, program supervisors.

KUOM Marks 21st Year of Broadcasting

ON MAY 2, 1938, Burton Paulu began the day of broadcasting for radio station WLB.

Twenty years later to the day, the same man, now director of the Department of Radio and Television Broadcasting, began the day of broadcasting for the same radio station (called KUOM since 1945), to inaugurate a year-long birthday celebration.

During its twenty-first year, KUOM is presenting a number of special broadcasts reminiscent of earlier events on the station. Former students and faculty members are returning to participate in the observance, and a series produced for the Centennial of the University in 1951 is being revived in connection with the Centennial of the State of Minnesota.

History of Radio at University

Although WLB officially took to the air in 1938, this did not mark the beginning of broadcasting at the University of Minnesota. The station had been operated regularly since 1922 and had even done some broadcasting during World War I, but major activities, with an average program schedule of 40 hours per week, did not begin until 1938.

During the World War I period, WLB broadcast experimental dot-and-dash reports of football games

as well as market activity. The studio at that time was located in the Electrical Engineering Building.

By 1922, the program schedule averaged eight hours per week at 1250 on the dial, a spot it shared at various times with stations at Dunwoody Institute, Carleton College, and with commercial station WRHM (now WTCN).

KUOM Serves a Varied Audience

KUOM means many things to a variety of loyal listeners.

To the music lover it has become the radio concert hall for Minneapolis Symphony previews and children's concerts which have been regular features since the early days. Recordings of regular season Symphony concerts played back during the summer months is a more recent development. Arnold W. Walker serves as director of all music programs.

For listeners seeking stimulating talks, KUOM is a source of lectures, discussions, and convocations. Programming for these features is handled by Jean K. Lowe, who directs adult education programs.

Audrey June Booth is in charge of community services, including her weekly program "Community Calendar" which brings news of University and Twin City events to the KUOM audience.

Daily newscasts are also an im-

portant part of KUOM services. They are edited and broadcast by Richard Lyon, chief announcer.

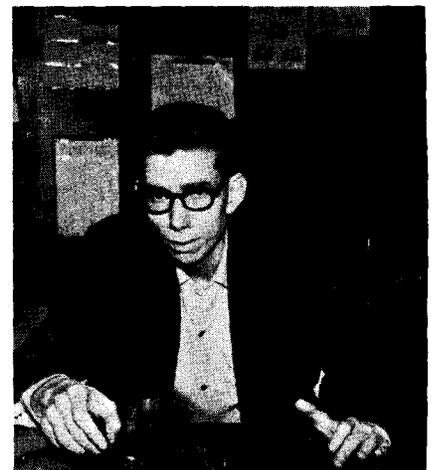
To teachers and students, KUOM means the Minnesota School of the Air, programs designed for reception in classrooms. Betty Girling is director of the School of the Air, assisted by Lotte Seidler, administrative fellow.

Burton Paulu established the first regular series of programs for in-school use with a music appreciation series in 1931, although the School of the Air as such was not established until 1938 at the time the station's program services were expanded.

Fall Quarter Program Highlights

A glance at the basic program schedule for fall quarter, 1958, shows the variety of presentations prepared by Robert P. Boyle, radio program director, and the KUOM staff. A day-

Program Supervisor Richard Lyon is in charge of editing and broadcasting KUOM newscasts.





Lawrence A. Brogger, chief engineer, standing; Russell A. Iverson, and Robert Boynton, junior engineers, are responsible for the technical aspects of KUOM broadcasting.



Pictured, left to right, in the foreground are: Lillian Fleming, senior communications technician, Roberta L. Belois, principal secretary, and Kay L. Schuller, clerk-typist. Left to right in the background are: Donna Strom, senior clerk-typist, and Ann Litman, senior clerk-typist for the Minnesota School of the Air.

by-day listing may be obtained from KUOM, Eddy Hall, Minneapolis Campus. This program schedule offers Minnesota listeners a choice selection of educational, cultural, and music features.

A "Public Affairs Forum" each day at 2:00 p.m. features the outstanding speeches delivered in the Twin City area including University and Macalester College convocations. "Background of the News" at 3:30 p.m. daily presents British, Canadian, and French views of world affairs. On Mondays, this news show is presenting a series of on-the-spot interviews prepared in Russia by E. W. Ziebarth, dean of Summer Session, and the other members of the University faculty who toured the Soviet Union recently.

A program entitled "The Creative Mind" on Saturday afternoons features a series of radio essays about the creative process as it pertains to the American artist and scientist in the Twentieth Century. This series features such men as Allen Tate, professor of English, and Robert Penn Warren, former University of Minnesota professor of English, now on the staff of Yale University. "The Creative Mind" is distributed through the facilities of the National Association of Educational Broadcasters (NAEB) taped network. This organization sends this and other programs to all educational radio stations in

the country.

KUOM has contributed a number of programs to this network including "Ideas and the Theater" produced by Phillip Gelb, a former KUOM staff member, with David W. Thompson, professor of speech, as consultant.

Two other series which have been contributed to NAEB under a grant from the Educational Television and Radio Center are "Security and Civil Rights" and "Your Rights Are On Trial," also produced by Mr. Gelb with the assistance of former University law professors Monrad Paulsen and Charles Alan Wright.

A number of KUOM-produced features have been used over commercial radio stations within the state, thus expanding the service function of the station. KSTP has broadcast "Your Rights Are On Trial" and this fall has been running "Ideas and the Theater" Sundays at 5:30 p.m. WDCY has broadcast "Security and Civil Rights." In addition, Minnesota School of the Air programs are available to Minnesota schools and radio stations through the Minnesota Department of Education tape service.

KUOM Awards

An indication of how well KUOM has served its public is reflected in the number of awards the station has received throughout the years: two *Variety* "showmanagementship" awards,

one in 1946 in recognition of the station's broadcasts of programs for children during a polio epidemic, and one in 1954 for "the outstanding noncommercial radio station of the year" for its series on "The Classical Tradition," a group of programs based on the classroom lectures of Norman DeWitt, chairman of the Department of Classics.

Other awards have been presented to KUOM and to its individual staff members from such groups as the Institute for Education by Radio-Television, the National Safety Council, the Alfred I. Dupont Foundation, and the Chicago School Broadcast Conference.



Burton Paulu, director of the Department of Radio and Television Broadcasting, is spending the current academic year in England studying British broadcasting. Sheldon Goldstein, who is in charge of television programming, is acting director of the Department.

Have You Met?

Ruth E. Carlson

When Miss Carlson retires in the near future as senior cashier on the St. Paul Campus, she intends to spend her leisure pursuing her hobby of collecting stamps. She has been in the cashier's office for 32 years.



Ruth C. Smith

As principal secretary in the office of the Dean of the College of Medical Sciences, Miss Smith has a good deal of contact with medical students. She plans to retire this academic year.

Morris A. Mitteness

Refurbishing of the St. Paul Campus grounds is being directed by Mr. Mitteness, acting farm and grounds superintendent. The north end of the mall has been completed, with work on the south end scheduled.

Frank Verbrugge

Modernized methods of teaching physics were explained and demonstrated to 162 high school teachers from across the nation who attended the summer institute directed by Professor Verbrugge, associate chairman of the School of Physics.

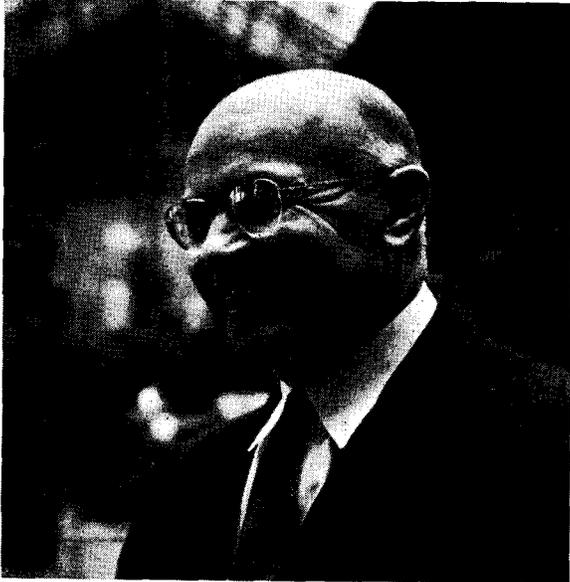
Barbara J. Stuhler

As a member of the National Board of the League of Women Voters, Miss Stuhler, assistant director of the State Organization Service, will attend several meetings in Washington, D.C., this year.



Henry H. Wade

Widely respected as an authority on iron ore beneficiation and the pelletizing of iron ores, Mr. Wade, director of the Mines Experiment Station, is currently working on the development of new methods for concentrating non-magnetic taconite. He also shared in the development of the magnetic taconite process.

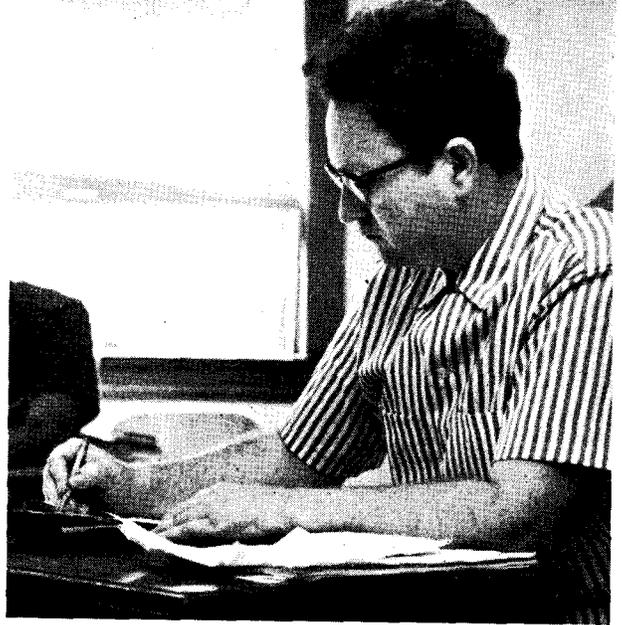


Maureen E. Locke

In the background is the complex class scheduling board for which Miss Locke, senior secretary, has been responsible since the School of Business Administration was departmentalized last year. She has been with the School six years.



November, 1958

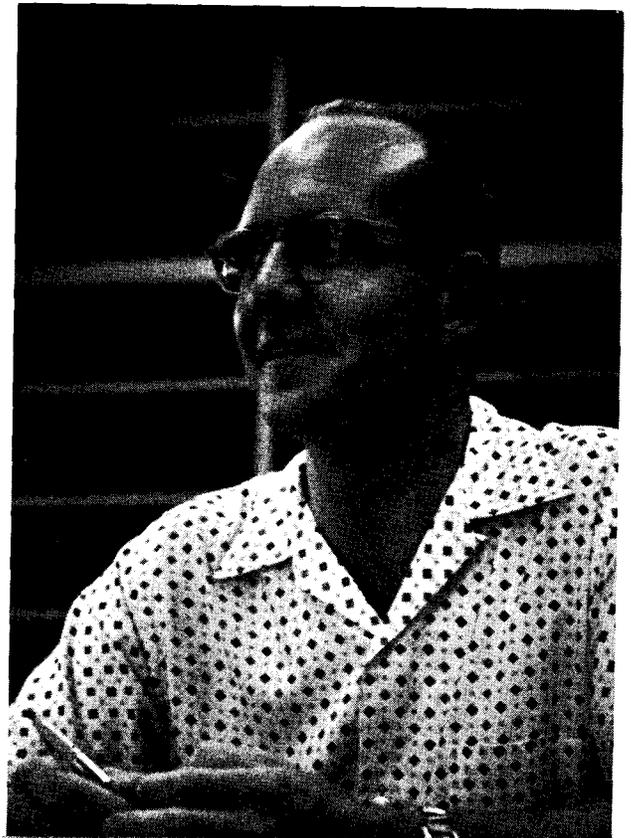


William R. Morgan

Three plays were presented in five weeks by Duluth Campus summer-session students who participated in the first Drama Workshop offered by the Speech Department and directed by Professor Morgan.

Paul L. Murphy

American constitutional development is the research field of Assistant Professor Murphy, co-editor of a book on the subject, "Liberty and Justice." This year, he is on leave teaching and completing some research at Northwestern University.



Research Programs Explore The Unanswered "Whys" of Diabetes

DESPITE RAPID ADVANCES in the treatment of diabetes since insulin was discovered 37 years ago, there are still many active and, more disturbingly, many potential diabetics. Unfortunately, medical science can only do something about the disease once it has developed; thus far, at least, there is no known method of preventing diabetes. Furthermore, despite presently available methods of treatment, serious complications occur all too frequently in diabetics who have had the disease for many years, specifically those who develop it at an early age.

The University of Minnesota, through several departments within the College of Medical Sciences, is engaged in extensive research on the unanswered "whys" of diabetes. This research, financed through numerous grants from the United States Public Health Service and other agencies, both private and public, is carried on in the Departments of Anatomy, Medicine, and Pediatrics, under the direction of Doctors Arnold Lazarow,

head of anatomy, Frederick C. Goetz, assistant professor of medicine, and Robert A. Ulstrom, associate professor of pediatrics.

What Is Diabetes?

The research program, of necessity, has many facets. Not only may a person become diabetic for different reasons; not all diabetes is the same.

The general term "diabetes mellitus" is equivalent to the more common term "sugar diabetes." (Mellitus means "sweet," referring to the presence of sugar in the urine.) There is reason to believe that among persons who have had a diagnosis of diabetes mellitus, there may be a variety of different causes, indicating a number of "subtypes" of the disease.

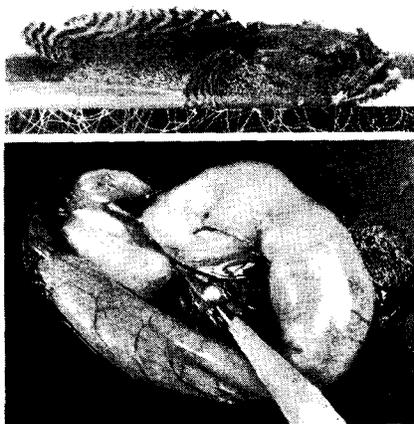
The inability of the body to utilize properly the carbohydrates in the diet is one reason why individuals become diabetic. There is a corresponding failure on the part of the pancreas to secrete insulin. Therefore, an important concept in diabetes research is an intensive study of the cells that

manufacture insulin. How do they work? What factors influence their activity? How do certain artificial chemicals such as alloxan selectively destroy the insulin-producing cells?

Studies of the Insulin-Producing Cells

There are two types of cells: alpha and beta. An understanding of the function of the insulin-producing beta cells is basic to diabetes research. Insulin is the substance which promotes the utilization of sugar in the body; it is produced by the beta cells in the Islets of Langerhans located in the pancreas.

One area of research, in which Dr. Anna-Mary Carpenter, assistant professor of anatomy, is engaged, concerns a study of these insulin-producing cells through a histochemical approach. Histochemistry relates the chemical composition of the component parts of the cell to the organized structures as they are seen under the microscope. Staff members like Anne Marie Hult, junior scientist,



RIGHT: Claudia Schepp, senior laboratory technician, uses the microburette to carry out microdeterminations of zinc in the islet tissue of the toadfish. Zinc may be concerned with the mechanism of storage insulin within the beta cells. This phase of diabetes research is under the direction of Dr. Joseph Davidson, assistant professor of anatomy.

LEFT ABOVE: The toadfish, caught at Cape Cod and flown to the University for diabetes research purposes, is ideal for studying the insulin-producing cells, because it possesses a single organ known as the "principal islet" (pictured **LEFT BELOW**) in which these vital cells are concentrated.



working with Dr. Carpenter, carry out the special staining procedures involved in these studies.

Animals Used in Research

Animals are used extensively for experimental work in diabetes. The toadfish, for example, is of value, because scientists have found that in this organism the vital insulin-producing cells are located in a single organ known as the "principal islet."

BELOW: Lenore Mottaz, senior laboratory technician, prepares a sample of human kidney tissue for examination under the electron microscope. These sections, which are cut with a knife made of broken piece of glass, are so thin that 4,000 placed on top of each other would equal the thickness of an ordinary sheet of paper. This laboratory work is vital to the research conducted by Dr. J. Francis Hartmann.



BELOW: Marion J. Anderson, junior scientist, cuts pancreatic tissue from an embryonic rat for study under the conventional microscope. Every section is mounted serially and stained. This procedure is necessary to the study of the relationship between diabetes and pregnancy, a study undertaken by Dr. Lemen J. Wells in an attempt to show how diabetes affects the development of islet tissue.



In contrast, in man and other mammals, the pancreas (which does not form a definitive organ in the toadfish) consists of two parts, just one of which is concerned with the secretion of insulin. In mammals, the Islets of Langerhans, which number approximately one million, are scattered individually throughout the pancreas. They constitute only one per cent of this organ; the other 99 per cent of the pancreas is concerned directly with the process of digestion.

The rhesus monkey is also used in diabetes research. This animal is useful in determining whether or not the complications of the disease develop spontaneously in a species closely related to man. The diabetic monkeys, which have been under study for five years, are compared closely to a control group of non-diabetic animals.

Studies of Human Diabetics

Many patients who have serious complications resulting from diabetes are referred to the University Hospitals. There, in the Department of Medicine, staff members working under the direction of Dr. Frederick C. Goetz are concerned with diabetes research problems which relate to two basic questions: How does the pancreas work in releasing insulin? What are the characteristics of diabetes that lead to serious complications?

A problem under current study is finding a method of measuring the amount of insulin circulating in the blood ("insulin assay" work). The long-term goal of this work is to study the actual amount of insulin present at various times in the systems of normal and diabetic persons.

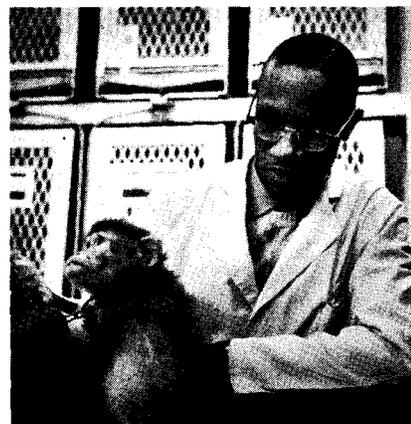
In this connection, Department of Medicine laboratory technicians inject samples of blood plasma from humans and from dogs into mice; then, the blood sugar of the mouse is measured.

Work is also being done on the synthetic substance, tolbutamide, which stimulates the production of insulin within the pancreas. What are the qualities of this drug which enable it to have this effect?

Another study conducted in this department relates to the problem of fat metabolism in diabetes. This phase of diabetes research which has involved actual diabetics (some of them students) who volunteer to go on special diets in an attempt to study the effects of a low-fat diet on diabetes.

Patients have aided research in another way. In several cases, those without obvious evidence of kidney disease have agreed to have biopsies

BELOW: Paul Crews, principal laboratory animal attendant, is responsible for the care of the group of diabetic and normal rhesus monkeys used in the research program which concerns complications of the disease. Pictured with Mr. Crews is one of the diabetic monkeys which have been under study for five years by Dr. Lazarow and his staff.



BELOW: Biruta Treibergs, junior scientist, working with Dr. Arnold Lazarow, follows closely the development of the diabetic state. The diabetic animal pictured at right, compared to the normal rat of the same age and sex, illustrates two of the common symptoms of diabetes: excessive thirst and excessive urination. The diabetic rat drinks its own weight in water each day and puts out enormous quantities of sugar in the urine.



done for purposes of research. A biopsy is the study of tissue taken from a living person. In this way it is hoped that important knowledge can be gained relating to the very early stages of complications in the diabetic kidney.

The tissue obtained for biopsies from diabetics under the care of Dr. Goetz are used by Dr. J. Francis Hartmann, professor of anatomy, in his research on diabetic kidney complications. This tissue is studied under the electron microscope which is capable of magnifying structures 100,000 times. At this magnification, the head of a pin would be enlarged to the size of a disc 300 feet in diameter. With the electron microscope, some changes in some of the most vital components of the kidney can be detected. These changes were previously only suspected from the usual microscope studies.

Use of White Rats in Research

The white rat is another valuable animal used in the Department of Anatomy to study the factors which influence the development and progression of diabetes. These rats are made "subdiabetic" with an injection of alloxan which causes enough of a change in the pancreas to produce

abnormalities in sugar tolerance similar to those observed in mild human diabetes. Subsequently, after weeks or months, depending upon treatment, these animals may develop typical diabetic symptoms like excessive thirst, excessive urination, and gradual emaciation, with the presence of large amounts of sugar in the blood and in the urine.

This type of research may eventually show why humans develop diabetes in increasing numbers as they grow older.

The rats are also being used to test a new drug which may be taken by the diabetic orally instead of insulin to stimulate the pancreas. This work may show whether or not prolonged use of the drug may exhaust the pancreas.

Diabetes and Pregnancy

Dr. Lemen J. Wells, professor of anatomy, is engaged in research relating to diabetes and pregnancy. He and his staff use embryos of diabetic rats to evaluate how diabetes in the mother may affect the development of the insulin-producing cells in the developing embryo.

Another problem under study relates to the well-known observation that mothers who give birth to large

babies are more likely to become diabetic later in their own lives. It is hoped that studies of animals may provide clues to the solution of this problem.

Diabetic Children

Dr. Robert A. Ulstrom, Dr. Eleanor Colle, assistant professor of pediatrics, and Dr. Irwin H. Kaiser, associate professor of obstetrics and gynecology, are also interested in the problem of babies born of diabetic mothers.

Another diabetes project within the Department of Pediatrics concerns Dr. Ulstrom, Dr. Richard B. Raile, assistant professor of pediatrics, and Betty M. Priggie, dietician. These individuals are studying a group of "out-patient" diabetic children in an attempt to find out what these children actually eat when they are placed on a regular insulin intake and allowed a free selection in their diets.

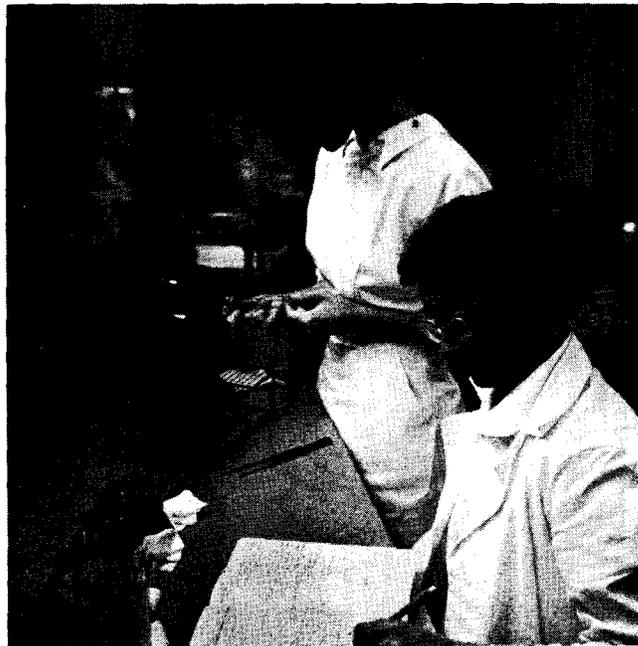
Hope for the Future in the Prevention of Diabetes

All of these University studies, including work on diabetes in rats, monkeys, and fish, may someday have an important bearing on treating and possibly even preventing human diabetes and its complications.

Junior Scientist Virginia Betlach draws a sample of blood from a diabetic patient. The blood then undergoes chemical studies related to research on blood fats in diabetics.



Virginia Betlach and Charlene Schmidt, senior laboratory technician, use blood samples to measure insulin. Mrs. Schmidt injects a small quantity of blood into a mouse to note the effect it has on the blood sugar of the animal.



—Have You Heard?—

News Notes

- Six, five-acre plots of land in Duluth, adjacent to the Northeast Experiment Station's conservation project, have been donated to the University through tax forfeitures.
- Names of four new student housing units were announced. On the St. Paul Campus, the dormitory for single students will be called Bailey Hall, and the married student housing development will be known as Commonwealth Terrace. On the Minneapolis Campus, the two men's dormitories are named Territorial Hall and Frontier Hall.
- Eighteen representatives of universities in the British Commonwealth, India, and South Africa spent two days on the Minneapolis Campus during September. They were delegates to the Eighth Quinquennial Congress of the Association of University of the British Commonwealth which met in Montreal, Canada.
- Disaster nursing will be integrated into the course of study in the School of Nursing. Captain Drusilla Poole, U. S. Army Nurse Corps, head of the 18-month project, will spend this academic year on campus.
- The Duluth Campus, students and winter recreation are featured in part of a Movietone short feature, "Snow Fun in College," which premiered in Duluth.
- A woodsman's training course has been added to the program at the North Central School and Experiment Station at Grand Rapids. William Matalamaki, superintendent, announced that the limited maximum enrollment was filled and names have been held over for next year.
- The University of Minnesota Press received a citation in recognition of outstanding public service to the U. S. Government for its participation in the 1957 International Trade Fair program.
- The Board of Regents adopted a resolution on the four outlying Schools of Agriculture which recognized that these schools presently render specialized education not available elsewhere in the state. The resolution suggested the basic plan of operation be continued but that special vocational courses be added and the Short Course Department expand its activities by using the facilities of the stations. It also suggested that research activities be strengthened.

Grants and Gifts

- The Kerlan Collection, which focuses heavily on books for children and related art, was placed in the University Library

November, 1958



The Minnesota State Fair exhibit (left) featured the Institute of Technology and its part in the International Geophysical Year. Cosmic ray research equipment used in balloon flights was displayed.

nine years ago. Now it has been given as an outright gift by Dr. Irvin Kerlan, an alumnus. E. B. Stanford, director of Libraries, described it as, "... a valued addition to the research resources of the Library."

- University scientists will continue their studies of human and animal cells through a March of Dimes grant.

Faculty Appointments

- Mitchell V. Charnley, professor of journalism, will serve part-time as assistant dean of the upper division of the College of Science, Literature, and the Arts.
- Nine additional appointments to the Duluth Campus faculty have been announced by Provost R. W. Darland. They are: Jay L. Benson, instructor in physics; Edward Flaccus, assistant professor of biology; Amos Nannini, lecturer in mathematics; Dean A. Crawford, assistant professor of education; Joan L. Hedrick, instructor in women's physical education; Muriel I. Lehman, instructor in the home management house; Loren C. Myrhe, instructor in men's physical education; Robert J. Wolff, instructor in psychology, and Holger R. Stub, assistant professor of sociology.
- The two new faculty members at the North Central School and Experiment Station at Grand Rapids are: Walter Carlson, social studies, English, and music; L. E. Eichman, health, physical education, and business training.

Regents' Scholarships

- The following staff members have received Regents' Scholarships for winter quarter:
Judy S. Ames, senior clerk-typist, Audio-Visual Education Service; Donald E. Battles, principal laboratory attendant, Surgery; Kathryn M. Cassidy, senior account clerk, Comptroller's Office; Ann L. Charn,

personnel representative, Civil Service Employment; Beverly Mae Cole, senior account clerk, Coffman Memorial Union; Alden E. Domning, senior mechanic, Agricultural Engineering; Aileen Feyereisen, general staff nurse, Nursing Service; Ivan C. Fletcher, senior accountant, Professional College Bookstores; June H. Grande, principal clerk, College of Pharmacy Library; Hattie L. Gray, senior laboratory technician, Radiation Therapy Research; Ernest A. Greene, junior scientist, Physiology, and Lois H. Hansen, administrative secretary, Office of the Provost, Duluth.

Also: Joan M. Haskin, senior laboratory technician, Physiology; Alvina R. Hennek, head nurse, Nursing Service; Lilian Huehnert, laboratory technician, Pathology; Elaine Hunter, head nurse, Nursing Service; Ruth D. Knudsen, senior clerk, Agriculture Library; Alton L. Kollman, bookstore manager, Coffey Hall Bookstore; Richard A. Landry, laboratory biologist, Physiology; Joseph L. Leong, junior scientist, Pathology; Barbara B. Loerzel, senior laboratory technician, Anatomy; Morris A. Mitteness, acting farm and grounds superintendent, St. Paul Campus General Service and Maintenance; LaDonna M. Mossefin, senior secretary, Physics; Marianne Nugent, head nurse, Surgical Nursing; Vera M. Olsen, senior clerk-typist, Electrical Engineering, and Norman L. Rich, engineer, Physical Plant.

Also: Veronica P. Schultz, senior clerk, Student Counseling Bureau; Arthur W. Schwalm, electronics mechanic, Physical Medicine; Mary W. Simonds, senior laboratory technician, Physiology; Eleanor M. Steele, psychometrist, Student Counseling Bureau; Philip A. Sutherland, roundsman, Protection and Safety; Richard P. Towner, experimental plot supervisor, Horticulture; Robert A. Walker, vocational counselor, Physical Medicine and Rehabilitation; Elisabeth G. White, psychometrist, Vet-

Have You Heard?

erans Counseling Center, and Barbara J. Zittel, senior clerk-typist, Audio-Visual Education Service.

• The following staff members have received the newly-created General Extension Division Scholarships for the fall semester: Charlotte R. Curry, psychometric assistant, Student Counseling Bureau; Delores E. Dooley, principal secretary, Dentistry; Duane N. Hall, student personnel worker, Student Housing Bureau; Ann A. Harelson, administrative secretary, Medical Sciences; Floyd L. Henderson, senior clerk, Main Library; Ardis L. Hovland, principal account clerk, Physics; Dorothy M. Lockard, office supervisor, Library; William C. Mattox, general mechanic foreman, University Hospitals; LuVerne R. Pasenow, senior secretary, Civil Service Personnel; Frank Pieper, coordinator of training, Civil Service Personnel; Engel H. Prins, general mechanic, Mines Experiment Station, and Donald R. Torgerson, engineering assistant, Physical Plant.

Offices, Honors and Awards

• Lee Irvin Smith, chief of organic chemistry, is the first recipient of the Minnesota Section Award of the American Chemical Society.

• Forrest G. Moore, foreign student adviser, is the new president of the National Association of Foreign Student Advisers. Professor Moore will also study continuing relationships with foreign students this academic year. He will spend four months overseas.

• Alfred O. C. Nier, chairman of the School of Physics, was elected to the board of directors of the Midwestern Universities Research Association. He is also serving on the advisory committee of the Argonne National Laboratory.

• Dr. Robert J. Gorlin, chairman of the division of oral pathology, is secretary-treasurer of the American Academy of Oral Pathology.

• Gordon I. Swanson, associate professor of agricultural education, was elected to the board of directors of the College of Education Alumni Association.

• John C. Kidneigh, director of the School of Social Work, is the president-elect of the National Association of Social Workers, Inc.

• Edmund A. Nightingale, professor of economics, has been appointed chairman of the education and research committee of the Associated Traffic Clubs of America.

• Marion Murphy, professor of public health, is serving as a member of the Tuberculosis Control Advisory Committee for the Public Health Service.

• Clarence A. Smith, purchasing agent, has been re-elected as vice chairman of the

board of State Employees Retirement Association.

• Lloyd H. Reyerson, professor of chemistry, is a councilor at large of the American Institute of Chemists.

• James W. Stephan, associate director of the hospital administration course, was re-appointed to the Civil Service Committee. Clarence L. Cole, head of dairy husbandry, was appointed to replace T. H. Fenske, associate dean of the Institute of Agriculture, on the board.

• Theodore C. Blegen, dean of the Graduate School, was elected to a four-year term on the Minnesota Alumni Association board of directors.

• Pacy Freidman, instructor in speech at Duluth, has been elected to the council of the Minnesota Speech and Hearing Association.

• Richard C. Jordan, head of mechanical engineering, was elected to the executive committee of the division of engineering research of the National Academy of Sciences. He also was an official observer to the International Commission meetings held in Moscow and Prague and a U.S. delegate to the International Organization for Standardization, London, England.

Travel and Activities

• Ernst R. G. Eckert, professor of mechanical engineering, attended the Ninth Congress of International Astronautical Federation at Amsterdam, Netherlands, and lectured at the First International Congress in the Aeronautical Sciences at Madrid, Spain.

• Dr. Hugh J. Thompson, Health Service physician, participated in the student health program at Leeds University, Leeds, England.

• Gordon L. Starr, director of student unions, participated in two national recreation meetings held in Atlantic City, N.J., in September.

• John J. Bittner, head of the division of cancer biology, was a guest speaker at the University of Michigan Medical Center's annual cancer retreat.

• Associate Professors Eugenio Calabi, Lawrence Markus, Johannes Nitsche and Edgar Reich and Assistant Professor George U. Brauer, all of the Institute of Technology's Department of Mathematics, attended the International Congress of Mathematics in Edinburgh, Scotland.

People Off Campus

• Willard W. Cochrane, professor of agricultural economics, is a visiting professor at the University of Chicago this academic year.

• William J. Luyten, chairman of the Department of Astronomy, is on leave fall

quarter doing research at Mount Palomar Observatory in California.

• William V. O'Connor, professor of English, is filling the Berg professorship at New York University while writing a book on the New University Wits.

• H. Harvard Arnason, head of art, is presently serving as Walker Art Center Director. He will become a visiting professor at the University of Hawaii next February 1.

• Leonid Hurwicz, professor of economics, is doing research at Stanford University under a Rockefeller Foundation Grant during fall and winter quarters.

• Richard E. Norris, assistant professor of botany, is at the New Zealand Oceanographic Institute, Wellington, New Zealand, during fall and winter quarters.

• Murray Krieger, associate professor of English, is a visiting professor at the University of Illinois this academic year.

• Dorothy T. Dyer, associate professor of interdisciplinary studies, is studying family life education at Los Gatos, California.

• Robert J. Keller, director of University High School, is serving with the Legislative Interim Commission on Higher Education as director of research through December.

• James P. Hartnett, professor of mechanical engineering, is doing research with the Rand Corporation this quarter.

• Fred H. Blum, associate professor of interdisciplinary studies, is attending a meeting of the Social Order Committee of the Society of Friends in England this quarter.

• Emma M. Birkmaier, professor and head of modern languages, University High School, is program coordinator for the international group of 26 secondary school teachers attending the University of Kansas under the auspices of the U.S. Office of Education.

News of Former Staff Members

• In a letter to President J. L. Morrill, Dean Emeritus Clyde H. Bailey expressed pleasure to learn that the new St. Paul Campus dormitory has been named in his honor. He explained, "From the sentimental standpoint, the site and function of the new building are singularly pleasing, since it stands on the same site as the old dormitory in which I resided as a freshman in the School of Agriculture 58 years ago."

• William S. Carlson, former dean of Admissions and Records, has been named the tenth president of the University of Toledo, Toledo, Ohio.

• W. Lane Williams, associate professor of anatomy, accepted chairmanship of the Anatomy Department, University of Mississippi Medical Center.

THE QUESTION IS:

How Will The Payroll Deduction Plan Benefit Members of the Credit Union?

A PAYROLL DEDUCTION PLAN for staff members belonging to the University Branch of the State Capitol Credit Union became effective November 1.

This new plan, which will be a distinct benefit to all staff people interested in practicing thrift regularly and conveniently, is available to all those on either the regular or the mechanics payroll. Payroll deductions for those on the miscellaneous payroll is under review, and it is hoped that this service will be extended to this group as well before too long.

Authorization Cards Must Be Filled Out

Credit Union members who wish to enroll in the payroll deduction plan must first sign authorization cards. These cards have been sent to all staff members on THE MINNESOTAN mailing list; they will be distributed to individual University departments, and they may be obtained from the Payroll Department, 318 Administration Building, Minneapolis Campus, or from the University Branch of the State Capitol Credit Union, 616 Washington Avenue Southeast, Minneapolis 14.

The payroll deduction authorization card shows the amount the staff member wants deducted from his check each payday. The money may be for savings, for repayment of a personal loan, a mortgage loan, or for the Christmas Club. Only the participating member and the Credit Union know the exact purpose of the deduction.

The first payroll deduction under the new plan will be made on the November 15 paychecks. Members may change the amount of their deductions at anytime by filling out new authorization cards. The only stipulation is that the amount deducted must be figured to the nearest dollar; for example, a deduction could be made for \$11.00 each payday, but not for \$11.50.

New Plan Benefits Staff Members

This new plan represents a major service to staff members. Actual details for the system were worked out by Edwin C. Jackson, assistant comptroller, Ralph J. Willard, who is in charge of the Payroll Department, and Sterling B. Garrison, field auditor.

J. L. Morrill, president; W. T. Middlebrook, vice president of Business Administration; Malcolm M. Willey, vice president of Academic Administration, and Laurence A. Lunden, treasurer, were responsible for administrative consent to and support of the new plan.

These individuals feel that the convenience of the payroll deduction system will enable thousands of additional

staff members to better regulate their budget and finances; it will provide a quick and confidential loan service which may often be handled over the telephone, and it will make it possible for more and more staff members to take advantage of high returns on savings.

In a statement to the State Capitol Credit Union, Vice President Middlebrook said:

"I have watched with a great deal of interest, during the past year, the growth and development of the University Branch of the State Capitol Credit Union. It has long been recognized that this organization provides an excellent opportunity for thousands of staff members and state employees to participate in a financial service which not only provides them generous returns on their savings, but which also tackles their credit needs at reasonable costs.

"The administration is always willing to aid, in any way it can, the practice of thrift and prudent financial budgeting by its staff members. In this connection, I am particularly happy that we have been able to authorize payroll deduction facilities which, I know, will enable many more staff members to participate through the University Branch of the State Capitol Credit Union."



William T. Middlebrook, vice president of Business Administration, signs the first authorization for payroll deduction under the new system set up by the University and the State Capitol Credit Union. Seated to his left and right, respectively, are Laurence R. Lunden, treasurer, and J. L. Morrill, president.

Standing are Malcolm M. Willey, vice president of Academic Administration, D. G. Reimer, manager of the University Branch, and A. J. Snell, manager of the State Capitol Credit Union.

University of Minnesota Calendar of Events

NOVEMBER, 1958

MINNEAPOLIS SYMPHONY CONCERTS

Subscription Series

Northrop Auditorium, 8:30 p.m.

November 7 — Isaac Stern, violinist.
November 14 — Byron Janis, pianist.
November 21 — All-orchestral program.
November 28 — Rafael Druian, violinist.
(Single tickets, \$2:00-\$4.50. Reservations at 106 Northrop.)*

Sunday Twilight Concerts

Northrop Auditorium, 4:30 p.m.

November 2 — Viennese program, Rafael Druian, violinist.
November 16 — Tchaikovsky program, Eva Knardahl, pianist.
(General admission, \$1.00. Ticket sales open at Auditorium Box Office at 3:30 p.m. the day of the concert.)

UNIVERSITY ARTISTS COURSE MASTERPIECE SERIES

Northrop Auditorium, 8:30 p.m.

November 25 — Jan Peerce, tenor.
(Single tickets, \$1.50, \$2.50, \$3.00, \$3.50. Reservations at 105 Northrop.)**

SPECIAL CONCERT

Northrop Auditorium, 8:30 p.m.

November 13 — "Jazz for Moderns" with The Four Freshmen, Dave Bubeck Quartet, Sonny Rollins Trio, the Maynard Ferguson orchestra.
(Single tickets, \$1.50, \$2.50, \$3.00, \$3.50. Reservations at 105 Northrop.)**

CONVOCATIONS

Northrop Auditorium, 11:30 a.m.

November 6 — The di Falco Dance Company.
(A second performance at 12:30 p.m.)
November 13 — "Is This the U.S.S.R.?" film lecture by Charles Dee Sharp.
November 20 — "The New France," Dr. Catherine Gavin.

Main Ballroom, Coffman Memorial Union, 11:30 a.m.

November 26 — Student Assembly for Football Awards.

SPECIAL EVENING CONVOCATION

Northrop Auditorium, 8:30 p.m.

November 10 — Sir John Gielgud, Shakespearean actor.

SIDNEY HILLMAN LECTURE

Mayo Auditorium, 8:00 p.m.

November 16 — Dr. Gunnar Myrdal, Swedish social economist.

SCIENTIFIC LECTURE SERIES Museum of Natural History Auditorium 8:00 p.m.

November 3 — "Why Does a Small Planet Have Oceans?" Dr. Roger Revelle.
November 10 — "The Fourth Dimension of Anatomy," Dr. Arnold Lazarow.
November 17 — "Some Aspects of Race," Dr. Rupert Murrill.
November 24 — "Our Vanishing Mineral Resources: A Challenge," Dr. Eugene Pfeider.
(Tickets at \$1.50 on sale at the door.)

UNIVERSITY THEATER PRODUCTIONS

Regular Performances

Scott Hall Auditorium

November 1, 4-9 — *The Importance of Being Earnest* by Oscar Wilde.
(November 1, 5-8, 8:30 p.m.; November 4 and 9, 3:30 p.m.)
November 27-29 — *Saint Joan* by George Bernard Shaw.
(8:30 p.m. Single tickets for each play are \$1.50, on sale at Scott Hall Box Office.* Season tickets available at Scott Hall Box Office only. Evenings and Sundays, five plays, \$5.00; sales close November 9. Tuesday matinees, five plays, \$3.00; sales close November 4.)

Arena Theater Production

Arena Theater, Shevlin Hall

November 19-23 — *Anna Sophia Hedvig* by Kjeld Abell.
(November 19-22, 8:30 p.m.; November 23, 3:30 p.m. Tickets at \$1.00 on sale only at Scott Hall Box Office.)

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

Monday-Friday, 10:45 a.m. — "Highlights in Homemaking."
Mondays, 3:45 p.m. — "Stretching Your Family Income."
Monday-Friday, 3:30 p.m. — "Background of the News."

SIGNIFICANT UNIVERSITY TELECASTS

Channel 2, KTCA-TV

Monday, 9:00 p.m. — "At Home With Music."
9:30 p.m. — "The Living Theater."
Tuesday, 9:00 p.m. — "Invest Intelligently."
9:30 p.m. — "Understanding Human Behavior."

Wednesday, 9:00 p.m. — "Minority Problems."
9:30 p.m. — "The Living Theater."
Thursday, 9:00 p.m. — "Current Issues."
9:30 p.m. — "Town and Country."
Friday, 9:00 p.m. — "Contemporary Design."
9:30 p.m. — "Viewpoint."

MUSEUM SUNDAY FILM PROGRAMS

Museum of Natural History Auditorium, 3:00 p.m.

November 2 — "The New Arboretum Aids Northern Gardeners."
November 9 — "Recent Discoveries in Space Research."
November 16 — "Secrets of the Ocean Reefs."
November 23 — "Predators: A Cog in the Biological Machine."
November 30 — "Three Centuries with Minnesota's Beavers."

UNIVERSITY GALLERY EXHIBITION

November-December — Centennial Exhibition with works by art faculty members of Minnesota colleges.

NOVEMBER UNIVERSITY OF MINNESOTA PRESS PUBLICATIONS

The United States and the Treaty Law of the Sea by Henry Reiff. \$8.00.
Minnesota's Changing Geography by John R. Borchert. \$3.00 as a text; \$4.25 trade price.

ATHLETIC DEPARTMENT EVENTS

Home Football Games

Memorial Stadium, 1:30 p.m.

November 8 — University of Iowa.
November 15 — Michigan State University (Dads' Day.)
(Single tickets, \$4.00. Counter sale of any unsold tickets begins the Monday before each game at 109 Cooke Hall.)

Cross-Country Track Event

Nokomis Park, 10:00 a.m.

November 8 — University of Iowa.

Hockey Game

Williams Arena, 8:15 p.m.

November 29 — Alumni vs. Varsity.
(Reserved seats at \$1.50 on sale at 109 Cooke Hall. This game is not included on regular season ticket.)

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.

** Tickets for these events are also available at the St. Paul and Minneapolis ticket offices on Monday of the week prior to the performance.

THE MINNESOTAN

December, 1958 - The University Staff Magazine - January, 1959



They Made Us Great



Dr. J. Miles Martin gives Dr. Robert B. Howard the key to the Masonic Memorial Hospital as Judge Leroy E. Matson and Clyde E. Hegman, left and right center, look on. Dr. Martin is Grand Master of the Minnesota Masons; Judge Matson heads the Masonic Cancer Relief Committee; Mr. Hegman is Deputy Grand Master and chairman of the fund organization; Dr. Howard is dean of the College of Medical Sciences.

“WE HAVE an urgent need for hospital care for patients with cancer and other incurable diseases. These are the most neglected. Their tragedy involves both themselves and their families. What can members of the craft and of associated bodies do to supply leadership in filling this great need?”

This call, issued by the Grand Master of the Minnesota Masonic Lodge, was the beginning of the Masonic Memorial Hospital recently dedicated on the Minneapolis Campus and currently in use.

This hospital is dedicated to terminal cancer treatment. If, through research, the cure for cancer is discovered, the Hospital will continue to serve those stricken by other diseases not yet conquered. It will also be used for the training of physicians, nurses, and technicians, as well as for fundamental research.

The two-story brick structure has an area of 51,000

square feet. It includes 80 beds (9 single rooms, 34 two-bed rooms, and 1 three-bed room). Also housed in the building are laboratories, a lounge, a meditation room, and facilities for X-rays, occupational therapy, dining, and administration. Patients are admitted under University Hospital policies and require a referral from their local family physicians.

Under the guidance of the Masonic Cancer Relief Committee of Minnesota, \$1 million was raised by volunteer workers in Minnesota Masonic organizations. The bulk of the funds came from voluntary contributions from some 35,000 individual Masons and their families.

The University's Masonic Memorial Hospital Advisory Committee includes: Dr. A. B. Baker, head of the division of neurology; Dr. N. L. Gault, Jr., assistant dean of the College of Medical Sciences; Dr. George W. Janda, instructor in obstetrics and gynecology; Dr. Byrl J. Kennedy, associate professor of medicine; Dr. Frederic J. Kottke, director of physical medicine; Dr. Donn G. Mosser, director of radiation therapy; Dr. Bernard Zimmerman, associate professor of surgery, and Eugene L. Staples, assistant director of University Hospitals.

The University and the Masons of Minnesota will continue work on the Masonic Memorial Hospital as close partners in a project dedicated to the seriously ill patient of any race or creed.

On the cover . . .

Snow-covered pine boughs form a frame for the Kirby Student Center on the Duluth Campus. Christmas-card scenes like this attracted Movietone to photograph the Duluth Campus, its staff, and its students for inclusion in the recently-released feature "Snow Fun in College" which had its premiere in Duluth.

Vol. XII

No. 3

THE MINNESOTAN

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

William L. Nunn, Director

Ann Tucker Editor
Emma Lund Associate Editor
Advisory Committee: Members of the University Public Information Council.

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Requirements for Next Biennium Include New Staff Positions, Salary Increases

NEEDS OF THE University of Minnesota for the next two years were laid before Governor Orville L. Freeman and his administration commissioner, Arthur Naftalin, by President J. L. Morrill November 28 at a budget hearing held in preparation for the 1959 Legislative session.

President Morrill presented the University's requirements for the next biennium under three major headings:

1. general maintenance and operation;
2. special state research and extension projects; and
3. University Hospitals.

University Regents will ask the 1959 Legislature for general maintenance appropriations of \$26,221,522 for the fiscal year July 1, 1959, to June 30, 1960, and \$28,763,674 for 1960-61 or \$54,985,196 for the biennium.

For special extension and research projects carried on by the University, the Regents will seek appropriations of \$2,110,051 for 1959-60 and \$2,179,359 for the following year, aggregating \$4,289,410 for the period.

Toward the cost of maintaining and operating the University Hospitals, the Legislators will be asked to provide \$4,369,227 for the first year of the biennium and \$4,525,611 for the second year, a total of \$8,894,838.

The general maintenance request for the two-year period represents 71.7 per cent of the total budget requirement of \$76,737,975 (\$36,852,203 for the first year, \$39,885,772 for the second) to carry on the University's regular program of teaching, non-sponsored research, and public service during that period. The remaining 28.3 per cent of the budget represents University income from various other sources, primarily student tuition.

New Positions, Salary Increases

Provided in the two-year program are: 157 new faculty positions, 26 the first year and 131 the following year; faculty payroll increases of 10 per cent the first year and an additional 5 per cent the next year; some civil service salary increases and staff additions; and funds to meet price advances and to permit adequate physical plant upkeep.

Faced with estimated enrollments of 28,150 in 1959-60 and 30,050 in 1960-61, compared with a student body of

25,307 when the Legislature last met in 1957, and a current enrollment of 26,563, the Regents have worked out an overall budget for the general operation of the University amounting to \$36,852,203 for 1959-60 and \$39,885,772 for 1960-61.

By deducting from these budget totals estimated University income from various sources including tuition, the Regents determined how much they must ask from the Legislature for general maintenance — \$26,221,522 for the first year and \$28,763,674 for the second. This represents an increase of \$3,137,501 or 13.6 per cent in 1959-60 over the appropriation made for the current year, 1958-59, and an increase of \$2,542,152 or 9.7 per cent in 1960-61 over the sum requested for 1959-60.

General Maintenance Appropriation

In 1957, the Legislature voted the University a general maintenance appropriation of \$45,433,440 for the current two-year period — \$22,349,419 for 1957-58 and \$23,084,021 for this year. Thus, the Regents' request for \$54,985,196 in operating funds for the next two years involves an increase of \$9,551,756 or 21 per cent over the funds allotted by the lawmakers for the present biennium.

The total operational budget, \$76,737,975, for the next two years, tops the total operational budget for the current biennium, 1957-59, by \$10,998,938, but an estimated \$1,447,182 net increase in University income for the next two-year period cuts to \$9,551,756 the share of the total maintenance needs increase which the Regents must ask from the Legislature.

Principal sources of University income are: student tuition, the sales of agricultural products, and overhead charges on research contracts and grants. Income increases are anticipated primarily from greater tuition revenue from a larger enrollment and from a boost in tuition fees charged students who are not Minnesota residents.

Enrollment Statistics

The University applied an excess of \$1,228,271 in enrollment-related funds appropriated by the 1957 Legisla-

ture to financial obligations authorized and required by the Legislature but for which sufficient funds were not appropriated.

In 1957, the Regents based their maintenance requests on enrollment estimates of 27,450 in 1957-58 and 29,000 in 1958-59. Actual enrollment, however, fell short of these estimates — reaching 25,825 last year and 26,568 this year. The result was an appropriation surplus which, when balanced against the loss of anticipated tuition revenue due to unrealized enrollment, left a net excess of \$1,228,271.

The University had determined to revert this excess to the State treasury. However, in order to meet obligations mandated by the 1957 Legislature but not fully financed by the Legislature, the University applied the excess to the cost of these programs — 1. inclusion of Old Age Survivors Insurance in the retirement program for civil service employees, retroactive to January 1, 1956, and OASI rate increases for both civil service and academic staff members; 2. a cost of living pay increase for civil service staff members effective July 1, 1958; and 3. unemployment compensation for University employees effective January 1, 1958.

Additional funds to help defray the costs of these programs were derived from University-wide economies effected during the last two years and from a deficiency allotment of \$1,160,127 provided from funds made available by the Legislature to the State Commissioner of Administration.

Reasons for Salary Increases

The Regents, in order to retain present members of the faculty and to attract outstanding newcomers, will ask the Legislature for \$1,599,483 for academic staff salary adjustments and promotions for 1959-60. This is equivalent to 10 per cent of the current year's estimated academic payroll of \$15,994,834. For 1960-61, the Regents will request an additional academic payroll boost of 5 per cent of the estimated 1959-60 payroll. Cost of this increase will be \$890,255.

Major reasons for the request for faculty salary increases were reported as follows:

"Several neighboring and comparable state universities indicate that they are requesting increases of their legislatures averaging 21.2 per cent of their academic staff payroll for salary adjustments. Therefore, an upward revision of 21.2 per cent would be necessary to keep on a comparable level with these other institutions. The University, however, is requesting only 10 per cent the first year and an additional 5 per cent the second.

"Business and industry, with higher levels of compensation, offer added competition, particularly in the recruitment and retention of young and promising members of the academic staff."

Cost of the proposed reinforcement of the teaching staff by 26 in 1959-60 and by another 131 persons the following year will be \$210,781 in 1959-60 or 1.3 per cent of the 1958-59 academic payroll and an additional \$1,105,253 in 1960-61 or 6.2 per cent of the previous year's faculty payroll.

Civil Service Salary Increases

Merit increases required by University civil service schedules within the various salary ranges will necessitate an additional \$322,995 in 1959-60 or 3.6 per cent of the 1958-59 civil service payroll and another \$340,466 the next year, an increase also of 3.6 per cent over the 1959-60 payroll.

If the cost-of-living index in Minneapolis is over 124.0 in January, 1959, a 4 per cent cost-of-living increase will be added to the civil service payroll in accordance with Legislative action tying civil service salaries to the cost-of-living index.

Additional civil service staff needed to meet demands related to enrollment increases will cost an estimated additional \$300,603 for the second year of the new biennium. This will represent 3.2 per cent of the 1959-60 civil service payroll.

For additional custodial employees needed to maintain new University buildings, the Regents will require an appropriation increase of \$61,551 for 1959-60 and another step-up of \$19,500 for next year.

Supplies, Equipment Increases

Included also in the general maintenance needs of the University are increases for "supplies, expense, and equipment" — \$1,662,290 for next year over this year's appropriation and \$200,367 more for 1960-61 over 1959-60.

The increase for the first year provides: \$247,679 for maintenance and operation of new buildings opened during the year; \$257,233 to restore the level of physical plant maintenance which has been cut back by wage increases; \$221,488 to meet the rise in the general price level, which advanced from 114 in July, 1956, to 119.2 in July, 1958, and to meet fuel price advances; \$820,690 for Social Security and SERA cost increases including OASI coverage of civil service employees and rate hikes; telephone rate increase, \$33,140; postage rate increase, \$31,728; unemployment compensation claims, \$42,832; and mines tax commission expense increase, \$7,500.

The additional \$200,367 increase for supplies, expense and equipment for 1960-61 covers: costs of maintenance and operation of new buildings opened during that year, \$81,942; costs directly related to enrollment increases, \$64,379; and additional Social Security costs for new staff, \$54,046.

Special State Research and Extension Projects

Special research and extension projects carried on by the University for the direct benefit of the people of the state will require appropriations totaling \$4,289,410 for the coming two-year period.

Needed for the first year is \$2,110,051, an increase of \$350,051 over the amount appropriated for the present year, while the 1960-61 requirements will be \$69,308 higher or \$2,179,359.

The requested amounts are needed to carry out the same programs and, in some instances, slightly expanded programs. The increases are necessitated primarily by increases in salaries, prices, postage, and employer's contributions to OASI and SERA.

The special extension and research projects for which funds are sought by the Regents with the amount appropriated for the current year, 1958-59, and the amounts requested for each year of the next biennium are as follows:

	Current	Requested	
		1959-60	1960-61
Agricultural Extension Service	\$ 600,000	\$ 688,589	\$ 714,915
Experiments in the Beneficiation of Maniferous and Low Grade Ores and for Experiments in the Direct Process Beneficiation of Low Grade Ores	100,000	121,129	124,622
General Agricultural Research	425,000	517,607	535,085
Medical and Cancer Research	75,000	90,000	90,000
Livestock Sanitary Board Laboratory	65,000	90,116	90,116
Institute of Child Welfare	35,000	39,346	41,121
General Research	100,000	113,348	117,098
Minnesota Institute of Research	32,500	37,192	37,929
Agricultural Research — Rosemount	100,000	110,860	114,306
Tuition and Transportation for Students of State Agricultural Schools	72,000	65,000	65,000
Business and Economic Research	25,000	27,193	28,160
Training Project in Delinquency Control	9,000	9,880	10,355
Hardwood Timber Species Research Fund	6,000	6,580	6,894
Psychiatric Research Fund	37,500	59,650	72,313
Training of Laboratory Aides	10,000	12,797	13,103
Special Education Training and Research Program	38,000	43,525	44,556
Legume Seed Research Fund	30,000	32,712	33,786
Southwestern Minnesota Agricultural Experiment Station (Maintenance)		35,000	40,000
Special Assessments — Duluth Branch		9,527	
	\$1,760,000	\$2,110,051	\$2,179,359

University Hospitals

Of the requested \$8,894,838 appropriation toward the expense of maintaining and operating University Hospitals for the next two years, \$3,158,092 is recoverable from the county governments of the State for the care of indigent patients.

Counties are required to reimburse the State for one-half the funds expended for the care of patients without means referred to University Hospitals by their county welfare boards. Customarily, both the State's share and the counties' share, as estimated, are appropriated by each Legislature for the biennium following the session.

The Regents' requested appropriation for University Hospitals for 1959-61 includes \$4,369,227 for the first year and \$4,525,611 for the second. The 1957 Legislature appropriated \$3,625,661 for 1957-58 and \$3,978,847 for the current year ending June 30, 1959 — a total of \$7,604,508.

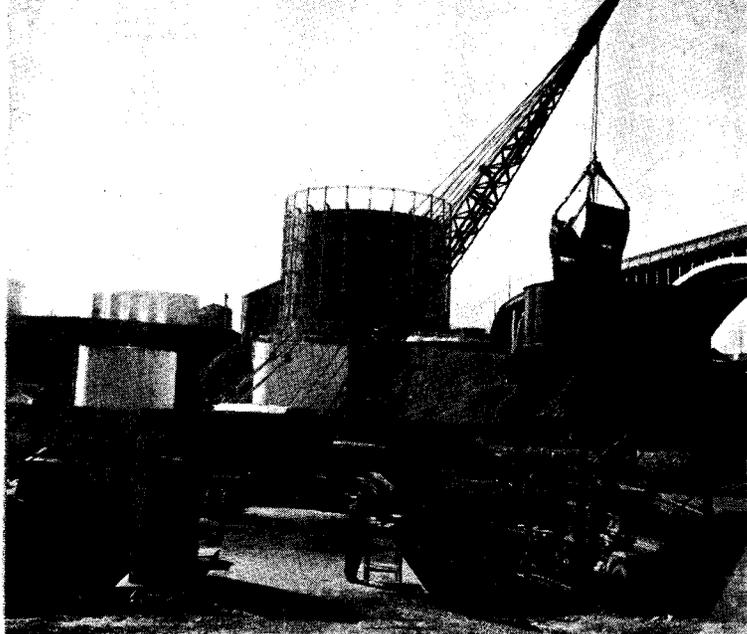
The \$1,290,330 increase (\$860,431 from State funds and \$429,899 from the counties) in University Hospitals' request for the next biennium is needed to cover the cost of salary adjustments, some additional staff, Social Security and SERA increases, unemployment compensation, postage rate increases, and higher prices of supplies, equipment, and services.

Amounts needed from the Legislature for the maintenance and operation of the five divisions of University Hospitals for the next two years were listed by the president as follows:

	For 1959-60	For 1960-61
University Hospitals (General)		
State's share	\$1,549,532	\$1,608,560
Counties' share	1,549,532	1,608,560
Total	3,099,064	3,217,120
Psychopathic Hospital	608,500	627,225
Child Psychiatric Hospital	236,730	243,512
Rehabilitation Center	392,093	403,611
Multiple Sclerosis Clinic	32,840	34,143
Total	\$4,369,227	\$4,525,611

The 1957 Legislature appropriated \$1,283,294 as the State's share of the indigent general patient cost for 1957-58 and \$1,461,069 for 1958-59, of which only \$1,444,103 is estimated to be needed. These amounts match the share borne by the counties sending welfare patients to the institution.

Appropriations for the other hospitals divisions for the first and second year of the current biennium were: Psychopathic Hospital — \$522,073 and \$533,181; Child Psychiatric Hospital — \$201,715 and \$207,236; Rehabilitation Center — \$313,211 and \$322,644; Multiple Sclerosis Center — \$26,882 and \$27,580.



Approximately 33,000 tons of coal are brought to the Minneapolis heating plant dock by barge each year. It is unloaded by Raymond Hansen or Kenneth L. Sigsworth, crane operators, and either stockpiled at the Minneapolis plant or transported by truck to the St. Paul Campus. During the summer months, when domestic demand is at a minimum, the Minneapolis heating plant is operated on gas at an economy rate.

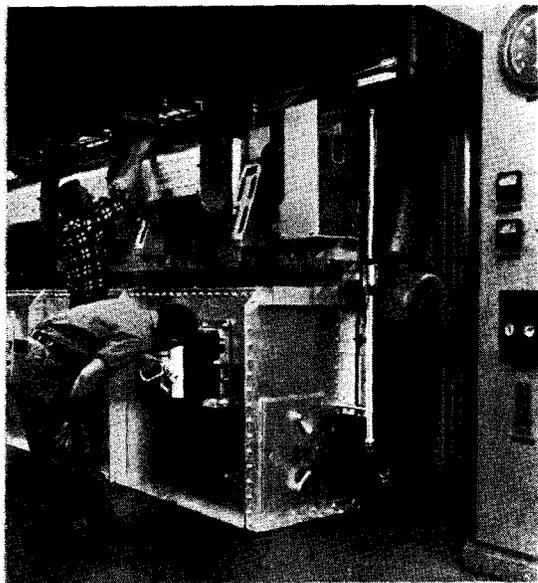
Heating Is An Around-the-Clock, Around-the-Calendar Job on Two Campuses

TWENTY-FOUR HOURS a day, 365 days a year the heating plants on both the Minneapolis and St. Paul Campuses are manned and operating. Each of the three daily shifts is composed of operating engineers and firemen (apprentice engineers) whose job it is to keep the massive five-story high boilers pushing steam to campus buildings without interruption.

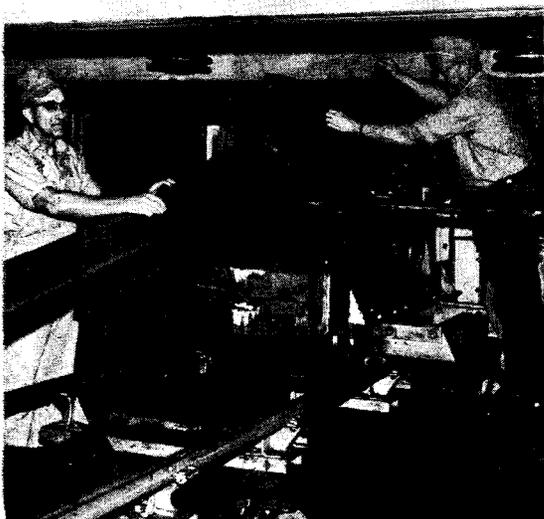
There are neither shovels nor coal bins in evidence: the heating plant of today is a scientific operation, the pulse of which is shown on the individual boiler control panels. A constant vigil is kept at these dials. Fluctuations on the board, such as a drop in water or air temperature, will alert the trained engineer to look for a defect within the system. It is the engineer's responsibility to see that corrections are made to avoid trouble or, when this is impossible, to make provisions to keep the buildings heated without damaging the boilers.

The fireman supplies "an ounce of prevention" in his periodic rounds by checking turbines and bearings, greasing and oiling all moving machinery, removing ashes, and making minor repairs.

Each shift follows a set routine which has been established to prevent major breakdowns. Before going off duty, the crew must see that the coal hoppers have been filled. This is done so that if the next shift has trouble which prevents the filling of the hoppers there will be a fuel reserve to keep the boilers in

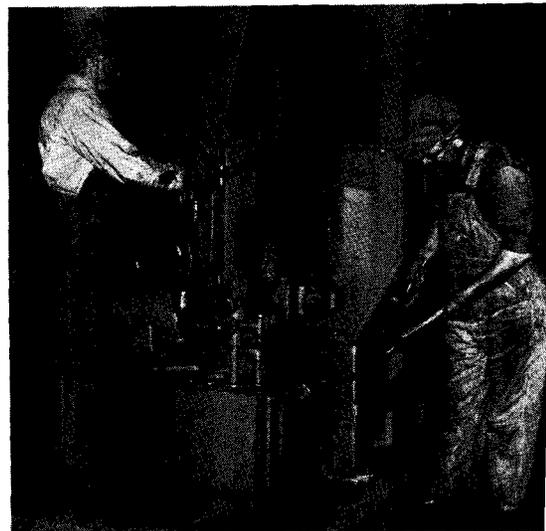


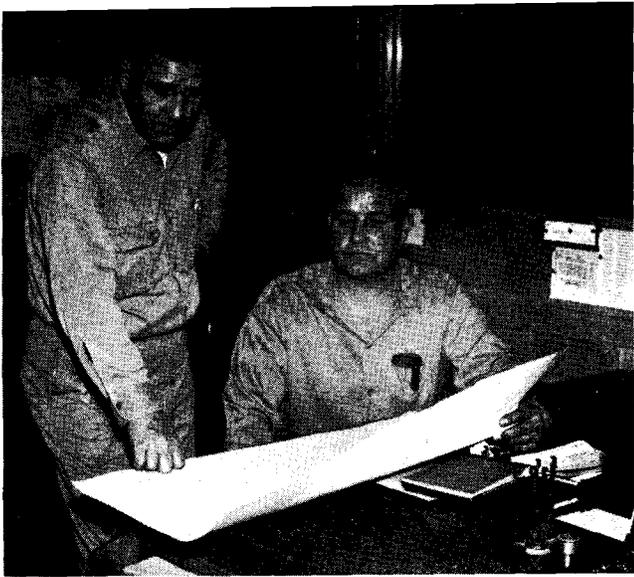
LEFT: Donald J. Pelvit, operating engineer, and James G. Johnson, fireman, check the ash bed of one of five boilers at the Minneapolis heating plant. A section of the individual boiler control panel is at the right. Each of the boilers is taken out of operation six months each year for checking and maintenance.



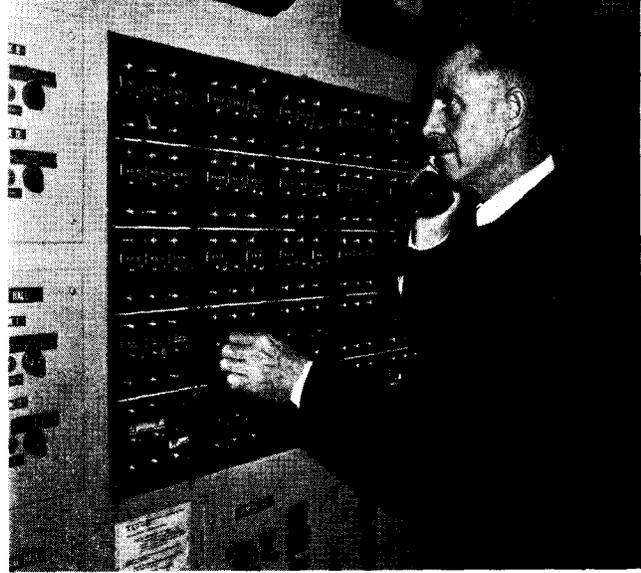
RIGHT: Roy H. Smith, operating engineer, and Adolph R. Lindquist, fireman, do maintenance work on a coal pulverizer at the St. Paul heating plant. All four of the boilers in the St. Paul plant and one in the Minneapolis plant use coal which has been pulverized until it is as fine as face powder.

LEFT: Newell Amundson, operating engineer, and Dolphis E. Cartier, fireman, check the conveyor belt which carries coal from the stock pile to the indoor hoppers which feed the boilers. A sample is taken from each load of coal and tested to see that it meets specifications.





George E. Jacobson, chief operating engineer, and Edward Rudd, assistant chief engineer, are pictured looking over the maintenance schedule at the St. Paul plant. University personnel did all the work in transferring two boilers from the old plant to the new plant.



Lloyd W. Benner, chief operating engineer at Minneapolis, receives a "trouble" call. The main operating panel in the background aids him in locating problems.

operation. Each shift begins and ends with a crew conference. The crew going off duty reports any deviations or fluctuations in operation.

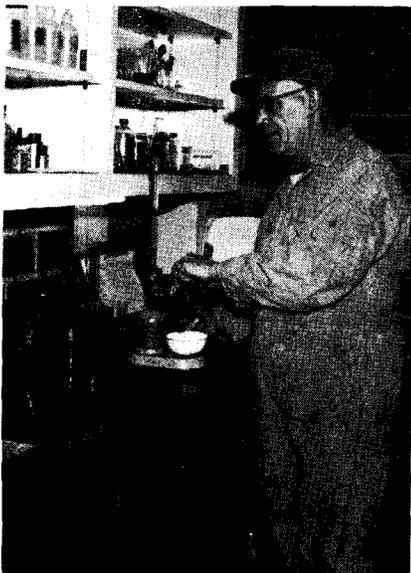
During the day shift a chief operating engineer is on duty at each plant. These men, George E. Jacobson at St. Paul and Lloyd W. Benner at Minneapolis, are also on 24-hour call. A central control panel in each of their offices shows the pulse of the entire heating system on their respective campuses. The panels show which buildings have reached the 72-74° F. temperature, and which buildings require additional heat. Careful records are kept of the daily temperature and the amount of fuel used per day. It is from these records that fuel

is ordered and maintenance work planned.

In overall charge of the heating plants is Leslie L. Wood, assistant supervising engineer in the Physical Plant. In addition to those pictured on these pages, the St. Paul staff includes: Grover A. Beardslly, Walter A. Guck, Raymond Bishop, Byron V. Bradley, and Clinton J. Dawes, operating engineers; Werner Douglas, Francis Carney, Walter O'Connell and Kevin Flaherty, firemen; William R. Paul, Ragner Lindgren and Palmer Johnson, general mechanics.

Those staff members at the Minneapolis plant who are not pictured on these pages include: Reuben W. Halsten and Chester L. Peterson, fire-

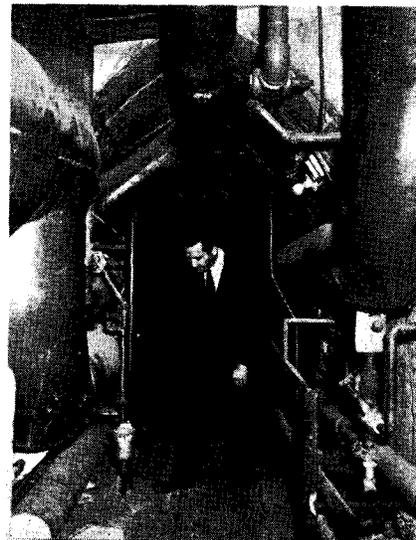
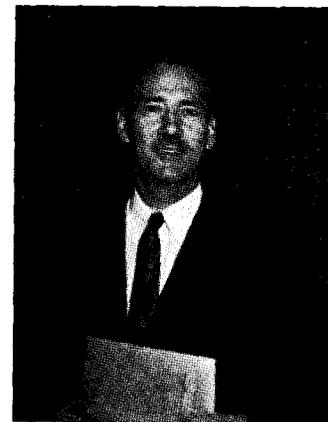
men; Sverre Gulbrandsen, William Slininger, George H. Person, and Leroy L. Lundgren, operating engineers; Joseph A. Grawronski, Edward A. Wilkoske, and John C. O'Neil, assistant chief operating engineers; Lorens W. Erickson, senior general mechanic; Philip A. Liljdahl and Valentine Pelecis, utility men, and Arne Solend, incinerator operator.



RIGHT: Leslie L. Wood, assistant supervising engineer.

LEFT: Elmer C. Peterson, operating engineer, runs water tests. The water going into the boilers must be as soft as possible. Both heating plants have water-softening facilities.

RIGHT: Joseph J. Roback, junior engineer, is shown on one of his weekly rounds checking the steam pipes in the underground tunnel network on the Minneapolis Campus. These tunnels are 90 feet underground (at the level of the heating plant which is on the river bank). They are brought closer to the surface before fanning out to the buildings.





Billie B. Chiquette

Miss Chiquette was no stranger to campus life even before she joined the University staff in 1952, for she had been employed by the Minnesota Crop Improvement Association which has offices on the St. Paul Campus.

She was secretary to the associate dean of the Institute of Agriculture for several years and since 1955 has been in the Department of Agricultural Engineering where she is now a principal secretary.

Ernest Asp

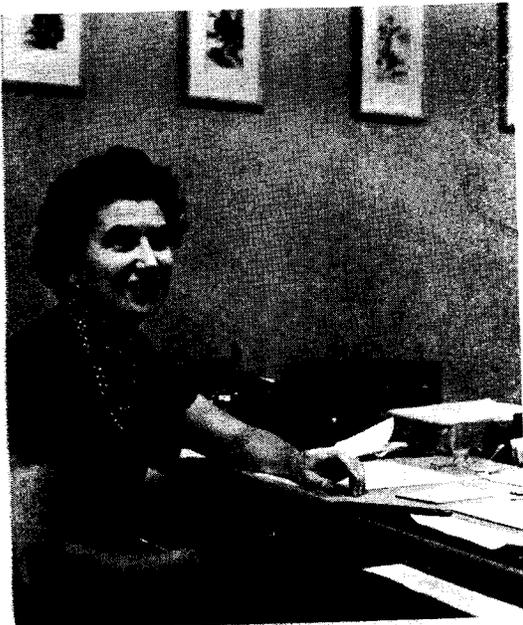


As a senior custodial supervisor on the Minneapolis Campus, Mr. Asp conducts a training program for University building caretakers. These new staff members attend 10 two-hour class sessions to learn the basic skills of their jobs.

A staff member for over 24 years, Mr. Asp has been a building caretaker and a building group leader; he was promoted to his present position three years ago.

Leontine Hans

Mrs. Hans is office supervisor in the Department of Surgery, and, to quote Dr. Owen H. Wangsteen, head of surgery, "has a big job to do and does it well."



J. Frederic Wolff, Jr.

An expert on Lake Superior shipwreck lore, Mr. Wolff, associate professor of political science at Duluth, looks over some shipwreck relics with skindiver Jacques Stiles, at right. Professor Wolff, an avid conservationist and outdoorsman, is becoming widely known as a Lake Superior historian.



Colonel Arthur W. Dern

Colonel Dern has succeeded Colonel Robert D. McCarten as head of the Air Force Reserve Officers' Training Corps Program at the University. A graduate of Princeton University, Colonel Dern has been director of the Strategic System Test at the Air Proving Ground Command Headquarters at Eglin Air Force Base in Florida.

HAVE YOU MET?

The Minnesotan



Warren L. Reynolds

The Atomic Energy Commission has awarded a grant for basic research in the mechanisms of electron transfer processes to Mr. Reynolds who is assistant professor of inorganic chemistry. The research he is conducting is aimed at discovering the ways in which nature accomplishes the transferral of electrons from one chemical species to another.

Ruth M. Judy

Medical terminology is common usage to Mrs. Judy, who is an office supervisor for University Hospitals. She is in charge of training the staff members who handle the dictation of the wide variety of specialists in the College of Medical Sciences.

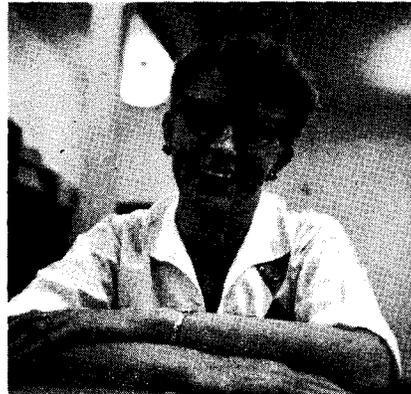


Clark D. Starr

Assistant Professor Starr is the assistant director of the University Speech and Hearing Clinic. In addition, he is a consultant in speech pathology to the Diagnostic Cleft Palate Clinic at the Sister Kenny Institute in Minneapolis.

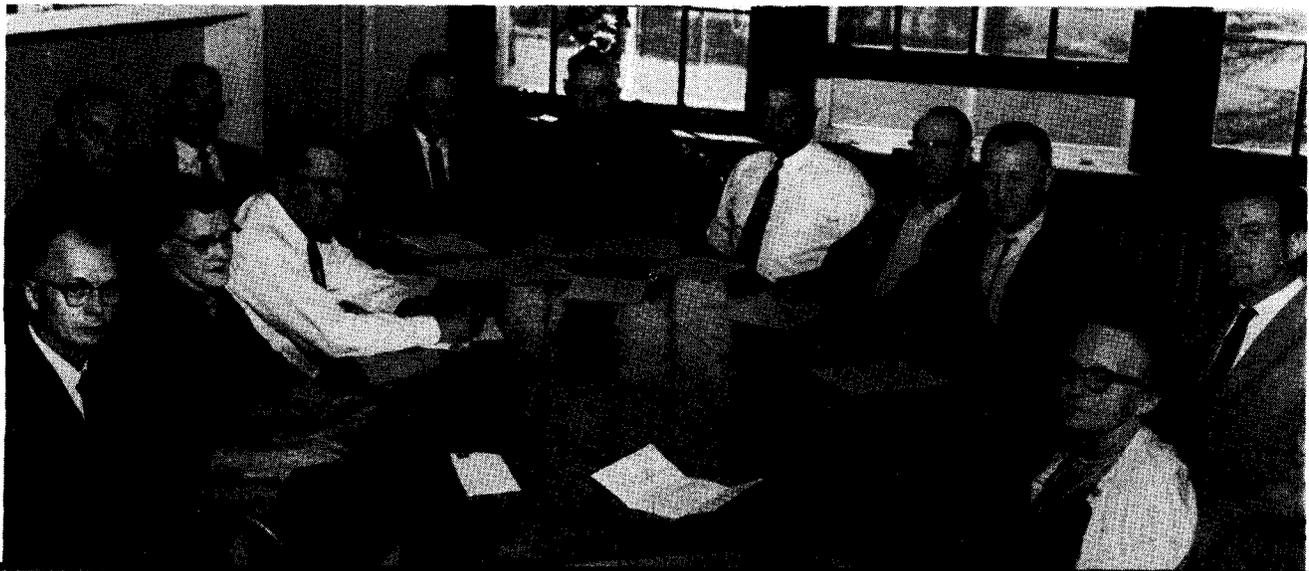
Doris J. Sharitz

During the months of October, November, February, April, and May, Mrs. Sharitz, the receptionist in the Student Activities Bureau, sees as many as 60 students daily.



North Central School and Experiment Station Staff

Pictured from left to right are: Walter O. Carlson, instructor in social studies and music; Miriam A. Nelson, instructor in English; Clement H. Griffith, assistant professor of agronomy; August B. Salmela, instructor in animal husbandry; Richard H. Anderson, instructor and project supervisor; William Matalamaki, superintendent; Morey B. Miner, principal and instructor in mathematics and science; Nils H. Grimsbo, instructor in horticulture; Richard B. Aakre, assistant professor of agricultural engineering; Lawrence E. Eichman, instructor in physical education and business training; William H. Cromell, instructor in forestry, and Clara F. Brandon, residence hall proctor. Not pictured is Lorenz H. Rickert, instructor in forestry.





New Tweed Gallery Opens Its Doors On Duluth Campus

ABOVE: Pictured in the receiving line at the Tweed Gallery dedication are: R. W. Darland, Duluth provost; Mrs. Alice Tweed Tuohy, Santa Barbara, California; Mrs. Bernice Tweed Brickson, Duluth; Malcolm M. Willey, vice president of Academic Administration; Mrs. Willey; R. L. Griggs, University Regent; Mrs. R. W. Darland.

DULUTH-AREA RESIDENTS can now take advantage of the opportunity to see art treasures of today and yesterday in the varied exhibitions on display at the new Tweed Gallery on the Duluth Campus.

Dedication ceremonies for both the Gallery and the new Humanities Building were held October 19. In his dedicatory address, President J. L. Morrill spoke of the "happy partnership of public and private funds that made the Gallery possible."

The 1955 and 1957 Minnesota Legislatures appropriated \$1,120,000 for the Fine Arts Center which includes, in addition to the Gallery, the Humanities Building which is now being used for classes.

Mrs. Alice Tweed Tuohy of Santa Barbara, California,

and her daughter, Mrs. Bernice Tweed Brickson of Duluth, gave \$228,000 for the Gallery as a memorial to George Peter Tweed, Duluth industrialist and financier.

Five well-known American artists, Arnold Blanch, Fletcher Martin, Dong Kingman, Millard Sheets, and Will Barnet, were among the guests. Each of these artists is represented in the 55-work dedication show which features paintings by the nine contemporary artists who have conducted the annual workshops in advanced painting during Duluth Campus summer sessions.

Among the many works now on exhibition are those from the collection given to the University by Mrs. Tuohy in 1950 with the original Tweed Gallery (the Tweed family home in Duluth).

BELOW: Pictured are the new Duluth Campus Humanities Building, left, and the Tweed Gallery, right. The glass-and-aluminum entrance at right serves both structures.



—Have You Heard?—

Fall Quarter Attendance

Fall quarter attendance, as of the second week in the quarter, totals 26,568, including 24,267 students on the Minneapolis and St. Paul Campuses and 2,153 at Duluth.

Television Broadcasting Grant

A Ford Foundation grant has been made available to contribute toward salaries of staff members who must be relieved of certain teaching duties to participate in educational telecasts. This grant is to be distinguished from another program which provides for cash payments made to staff members who contribute to a television series at the rate of \$325 for 13 half-hour broadcasts.

25th Anniversary

Members of the original faculty, as well as present staff members of the General College, got together for an informal reunion November 12 to commemorate the 25th Anniversary of the College.

Memorial Fund Report

Sixty-eight individuals have been memorialized through the University of Minnesota Memorial Fund as of May 1, 1958, according to the Annual Report of the Fund.

This program was established to handle gifts given in memory of deceased staff members, their husbands, and wives. Gifts made without specific designation may be allocated by the administrative committee of the Fund for such purposes as scholarships, fellowships, book selections, and research assistance to University projects.

Names of all those memorialized are inscribed in a Book of Honor which is in the custody of the University Library.

Members of the present administrative committee are: Mrs. Burtrum C. Schiele, chairman; Mrs. E. G. Williamson; Mrs. Ward M. Wells; Austin A. Dowell, assistant dean of the Institute of Agriculture; Clarence E. Mickel, head of entomology and economic zoology; Dwight E. Minnich, professor emeritus of zoology; Frank F. Pieper, training coordinator; Raymond W. Darland, provost at the Duluth Campus, and Robert P. Provost, director of the Greater University Fund.

Honors and Awards

- Herbert M. Bosch, professor of public health, has received the U.S. Army's Legion of Merit Award for meritorious service in Europe during 1944-1945.
- Harry W. Kitts, associate professor of agricultural education, received the Hon-

orary American Farmer degree at the 30th annual Future Farmers of America convention in Kansas City.

- Dr. A. B. Baker, head of neurology, has been awarded the Presidential Citation presented by the President of the United States for his 16 years of work in physical therapy.

- J. O. Christianson, superintendent of the School of Agriculture, has received an award of merit from the Minnesota Creamery Operators and Managers Association.

- Ruth E. Grout, professor of health education, was awarded the Cleveland Health Museum's Elisabeth A. Prentiss national award in health for 1958.

- Dr. Charles W. Mayo, University Regent, received an honorary Doctor of Humanities degree from Nasson College, Springville, Maine, recently.

Elections and Appointments

- Dr. Owen H. Wangensteen, head of surgery, is president-elect of the American College of Surgeons.

- Mitchell V. Charnley, professor of journalism, is president of the Association for Education in Journalism.

- Four Duluth staff members are officers of the Lake Superior Section of the American Chemical Society: F. James Glick and Anna Marie Duval, assistant professors of chemistry, are president-elect and secretary-treasurer respectively; Edward J. Cowles, assistant professor of science and mathematics, is a director; Moses Passer, associate professor of chemistry, is a counselor.

- E. Paul Torrance, director of the Bureau of Educational Research, has been appointed by the National Academy of Sciences and the National Research Council to a Committee on Acceptance which advises the U.S. Army Quartermaster Corps' research and development staff.

- Laurence R. Lunden, University controller and treasurer, and Alfred O. C. Nier, chairman of physics, have been re-elected to the board of directors of the Midwestern Universities Research Association.

- Ray G. Price, professor of education, has been re-elected to the board of directors of Consumers Union of the United States, Inc.

- George J. Schroepfer, professor of civil engineering, has been elected to honorary membership in the Federation of Sewage and Industrial Wastes Association.

- Charles R. Illingworth, senior lecturer in mathematics at Manchester University, Eng-

land, has been appointed visiting professor in aeronautical engineering.

- Peter C. Apostolakos has been named head of psychology at Duluth.

- Dominick J. Argento, former teaching fellow at the Eastman School of Music, has been appointed instructor in music.

- Dr. Berry Campbell, professor of anatomy, has been appointed research professor of neurology at the College of the Medical Evangelists in Los Angeles, effective January 1, 1959.

- Clara H. Koenig, formerly assistant to the Dean of Admissions and Records and now retired, has been elected to honorary membership in the American Association of Collegiate Registrars and Admissions Officers and the Upper Midwest Association of Collegiate Registrars and Admissions Officers.

Mrs. Keonig is also the editor of the "World Education Series" published by the Committee on Foreign Students of the American Association of Collegiate Registrars and Admissions Officers.

- Robert W. Bridges, principal engineer, and Harvard W. Archard, senior student personnel worker, have been elected Duluth Campus representatives to the State Capitol Credit Union.

Staff Members as Consultants, Travelers, Authors

- Dr. Gaylord W. Anderson, director of the School of Public Health, has been serving as a WHO medical consultant, visiting schools of public health in India and Egypt and appraising a proposal for a school of public health in Iran.

- E. Scott Maynes, assistant professor of economics, is in New Delhi, India, as a project consultant to the National Council of Applied Economic Research.

- Richard H. Lyon, assistant professor of electrical engineering, is a consultant to the Economics Laboratory Inc. in St. Paul.

- William T. S. Thorp, dean of the College of Veterinary Medicine, is a member of the Visiting Committee for the Medical Department of Brookhaven National Laboratory, Associated Universities, Inc., Long Island, New York.

- Robert Jenness, professor of agricultural biochemistry, is serving as a consultant to the State Experiment Stations Division of the Agricultural Research Service of the U.S. Department of Agriculture.

(Continued on page 12)

HAVE YOU HEARD?
(Continued from page 11)

- John Cameron Sim, assistant professor of journalism, is advertising manager for the publication *Scholastic Editor*.
- Donald Sable, manager of the University Laundry, conducted a recent study of laundry facilities and operations at several state institutions.
- Paul C. Rosenbloom, professor of mathematics in the Institute of Technology, is serving as director of the recently formed Minnesota National Laboratory for the Improvement of Secondary School Mathematics.
- John G. Turnbull, professor of economics, is a consultant to the Federal Reserve Bank of Minneapolis.
- Arnold J. Lund, assistant professor at the Hormel Institute, will teach a course in microbiology at Austin Junior College during the winter quarter.
- James A. Hamilton, director of the course in hospital administration, is surveying several U.S. Army facilities in France and Germany for the purpose of recommending improved methods in hospital administration.
- Three Duluth Campus staff members are represented in current publications. John C. Cothran, professor emeritus of chemistry, is the author of a chapter in the new book *The Evidence of God in An Expanding Universe*, published by Putnam's; Richard

O. Sielaff, chairman of social sciences, wrote the article "Will the Duluth-Superior Harbor Become a Great Ocean Port?" for a recent issue of the Minneapolis Chamber of Commerce magazine *Greater Minneapolis*; Ellen A. Frogner, associate professor of English, is the author of "A Study of the Teaching of Grammar and Composition" which appears in the book *Research in the Three R's* published by Harper's.

- Benjamin J. Lazan, associate dean of mechanics and materials, visited the Wright-Patterson Air Force Base recently as the University of Minnesota member of the Seventh Annual Conference of College Representatives.
- Kenneth C. Davis, professor of law, spoke at a recent conference held to observe the Centennial of the Columbia University Law School. Noel T. Dowling, former professor of law at the University of Minnesota, now Harlan Fiske Stone professor emeritus of constitutional law at Columbia, was also a conference speaker.
- Eight University staff members participated in sessions of the annual convention of the American Dental Association and related organizations held in Dallas recently: Dr. Eugene E. Petersen, assistant professor of dentistry; Dr. Erwin M. Schaffer, clinical professor of periodontics; Dr. Norman O. Holte, clinical assistant professor of dentistry; Dr. William A. Jordan, chief of the Dental Health Section of the State Board of Health; Dr. Wallace D. Armstrong, head of

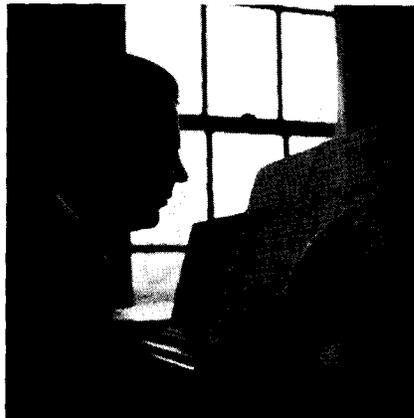
physiological chemistry, who received an honorary fellowship in the American College of Dentists; Dr. Robert W. Wiethoff, clinical associate professor of dentistry; and Dr. Marion W. McCrea, associate dean of the School of Dentistry.

- Armin E. Grams, associate professor of child welfare, is delivering a two-month series of lectures for the National Lutheran Council and Synodical Conference in Minneapolis.
- Jacob E. Bearman, professor of public health, is serving as a member of the Study Committee on Epidemiology and Biometry of the National Institutes of Health.
- Johnson Y. L. Luh, instructor in electrical engineering, is acting as a consultant to the International Business Machines Corporation.
- Ralph A. Piper, professor of physical education, is serving on the editorial board of *The Roundup* published by the Folk Dance Federation of Minnesota.
- Sherwod O. Berg, head of agricultural economics, is serving as a consultant to the International Cooperation Administration, Washington, D.C.
- Rodney A. Briggs, associate professor of agronomy and plant genetics, is a consultant to the Flavor Corporation of America, Chicago.
- Richard A. Swain, associate professor of metallurgy, is serving as a consultant to the Minneapolis-Honeywell Regulator Company, Hopkins.

Three Staff Members Compose Symphonies



"Contrasts for Orchestra" by Paul Fetter, associate professor of music, was played by the Minneapolis Symphony Orchestra on November 7. It was the world premiere of the work which was commissioned by the American Music Center, under a grant from the Ford Foundation.



Wayne Peterson's "Free Variations for Orchestra" received its world premiere performance at the second concert of the Minneapolis Symphony Orchestra on October 25. This was the winning piece in a competition offered by the Music Committee of the Minnesota State Centennial Committee. Mr. Peterson is an instructor in music.



Ivar A. Glemming, assistant professor and band director at the School of Agriculture on the St. Paul Campus, will have his second symphony played by the University Symphony Orchestra December 10 in Northrop Memorial Auditorium. The work was written under a grant from the Graduate School.

Staffers Offer Holiday Hints



Associate Professor Gertrude A. Esteros and Instructor Robert J. Forsyth are shown with some of the Christmas decorations and cards created by Home Economics students.



Associate Professor Helen A. Ludwig poses with several angels from her collection of over 100. About 30 of these figures are displayed in alternate years in the Home Economics Building.

Home Economics Displays Do-It-Yourself Ideas

A VISIT to the Home Economics Building on the St. Paul Campus before final week is just the stimulant the do-it-yourself decorator needs this time of year.

As in the past, related art students and staff members from the School of Home Economics use their talents in trimming Christmas trees, decorating the Fireplace Room, and preparing special displays for the exhibit cases in the Home Economics Building.

Each year the exhibits are different. Typical displays include gift wrapping and table centerpiece ideas as well

as decorative Christmas papers made by students. Christmas cards displayed by students feature linoleum block designs and free-hand sketches or paintings. Many of the Christmas card scenes are of the St. Paul Campus.

Gertrude Esteros, associate professor of related art, explains, "Almost any kind of material is a possibility for Christmas decorations: scraps of felt, gold beads, novelty mesh, wire, and natural materials like weeds or seed pods. Experimenting with and manipulating materials will yield increasingly interesting results."

Popular Turkey Dressing Recipe Reprinted

THIS TURKEY DRESSING recipe, originated by William A. Billings, associate professor emeritus of the Agricultural Extension Service, is reprinted by popular demand.

Recipe for Non-Soggy Stuffing

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

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

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

Now comes the test of your generosity. (If you are stingy, or if you like the usual, or soggy dressing, stop right here.) Melt a

whole pound of good butter and have your helper pour the melted butter slowly over the mass while you stir it in evenly.

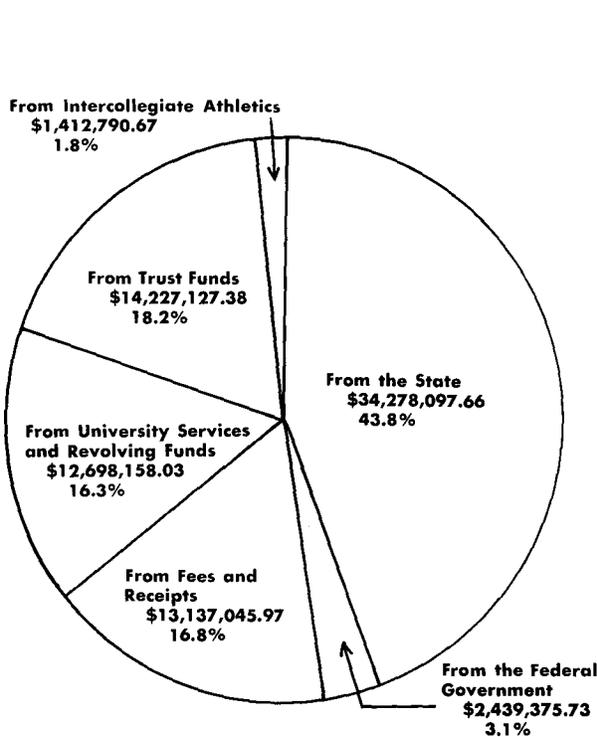
That's all there is to it! The dressing is complete. Don't add another solitary single thing. DO NOT MOISTEN WITH WATER. The finished product will be a golden color, still light and fluffy, although slightly moistened with melted butter.

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

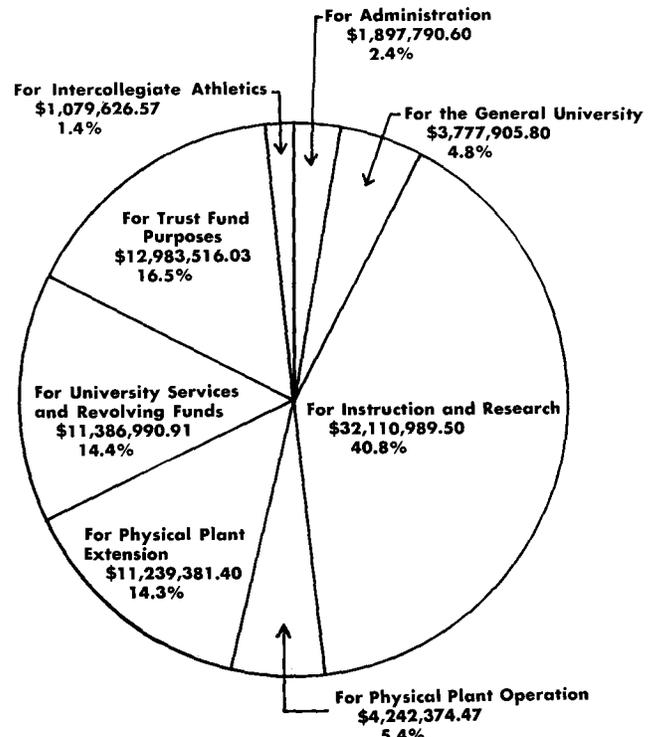
This dressing will not go as far as that soggy dressing because everybody will be hollering for more. If you have some "makin's" left after filling the bird, place it in a casserole and on top lay the neck, gizzard, liver, and heart. Slide this into the oven toward the end of the roasting period, and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

The Question Is:

How Does the University Prepare And Distribute Its Annual Report?



The Sources of University Income
July 1, 1957, to June 30, 1958



The Expenditures for University Operations
July 1, 1957, to June 30, 1958

A GROUP OF UNIVERSITY STAFF MEMBERS adept at the compilation of figures and the organization of detailed reports, spends many hours during the weeks of late summer and early fall preparing the annual financial report.

This report is made available to any interested citizen with the expressed intent that it will "promote a better understanding of the finances of the University," according to William T. Middlebrook, vice president of Business Administration.

Accountants, account clerks, typists, and many others are directly concerned with this report which is prepared under the direction of Laurence R. Lunden, comptroller and treasurer, Edwin C. Jackson, assistant comptroller, and Clifford S. Plank, chief accountant.

Chester B. Grygar, principal accountant, is chiefly responsible for gathering the figures for the detailed statement, his work on the project beginning after the books officially close on June 30. The final report is ready for release about the middle of October.

Inventory Department staff members also are involved in compiling data for the report. Their work, which is under the direction of Lyle F. Griggs, inventory supervisor, and Marilyn L. Mork, principal account clerk, pri-

marily concerns information on land, buildings, and equipment.

The "Brief Summary of Financial Operations" which is mailed to staff members, University alumni, and other groups of citizens, contains an invitation for anyone to request a copy of the complete financial statement which totals over 500 pages.

The information in this volume includes details on endowment fund assets, balances of student loan funds, statements of trust funds, and departmental expenditures.

Figures represented vary all the way from the \$12,000,000 valuation of the Mayo Memorial Building to \$100 for a student wood shed at the Cloquet Forest Experiment Station. There is data on the value of the livestock at the West Central School and Experiment Station at Morris, the number of books in the library at the Southern School and Experiment Station at Waseca, and the total value of the equipment in any departmental office.

The dollars-and-cents story of the University is not a dull one, for it reflects the effect the institution has, in some manner, on the lives of nearly every resident of Minnesota.

University of Minnesota Calendar of Events

DECEMBER, 1958

MINNEAPOLIS SYMPHONY CONCERTS

Subscription Series

Northrop Auditorium, 8:30 p.m.

December 5—All orchestral program.

December 12—Jorge Bolet, pianist.

December 19—*L'Enfance du Christ* by Berlioz. Macalester College choir, soloists.

(Single tickets, \$2.00-\$4.50. Reservations at 106 Northrop.)*

Sunday Twilight Concerts

Northrop Auditorium, 4:30 p.m.

December 7—Incidental music to *Midsummer Night's Dream*.

December 14—*Christmas Oratorio* by Bach. Central Lutheran Church choir, soloists.

December 28—*The Nutcracker* by Tchaikovsky. Bob DeHaven, narrator.

(General admission, \$1.00. Ticket sales open at the Auditorium Box Office at 3:30 p.m. the day of the concert.)

CONVOCATIONS

Northrop Auditorium, 11:30 p.m.

December 4—A program of folk songs featuring Gene Bluestein.

COMMENCEMENT

Northrop Auditorium, 8:00 p.m.

December 18—Speaker: Max Freedman of *The Manchester Guardian*, Washington, D.C.

(Admission by guest card only.)

UNIVERSITY THEATER PRODUCTION

Scott Hall Auditorium

December 2-7—*Saint Joan* by George Bernard Shaw.

(December 2-6, 8:30 p.m.; December 2 and 7, 3:30 p.m. Single tickets at \$1.50 on sale at Scott Hall Box Office.)*

MUSIC DEPARTMENT CONCERTS Tuesday Music Hours

Scott Hall Auditorium, 11:30 a.m.

December 2 and 9—Music Hour Programs.

University Symphony Orchestra Concert

Northrop Auditorium, 8:30 p.m.

December 10—Paul Oberg, conductor. *Symphony Number Two* by Ivar Glemming; *Concerto for Soprano and Orchestra* by Dominick Argento, Mrs. Dominick Argento, soloist, and *Symphony Number One* by Jose Serebrier, conducted by Mr. Serebrier.

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

December 5, 12 and 19, 2:30 p.m.—“The Last Judgment.” For the season of Advent, KUOM is presenting cantatas written by Diedrich Buxtehude in 1683. These recordings were especially obtained from the British Broadcasting Corporation.

December 20-27, 2:00 p.m.—“The Christmas Music Festival.” A stereophonic broadcast of *The Messiah* by Handel, in cooperation with WLOL-FM, will open the series on December 20 at 2:00 p.m.

January 1, 1:00 p.m.-5:00 p.m.—“Holiday Request Program.”

(Listeners are invited to send in their requests for classical favorites by December 20 to “Holiday Request Program, KUOM, Minneapolis 14, Minnesota.)

SIGNIFICANT UNIVERSITY TELECASTS

Channel 2, KTCA-TV

Monday, 9:00 p.m.—“At Home With Music” with Norman Abelson.

9:30 p.m.—“The Living Theater” with Arthur Ballet.

Tuesday, 9:00 p.m.—“Invest Intelligently” with Ben Sutton.

9:30 p.m.—“Understanding Human Behavior” with Dr. Bernard Glueck, Jr.

Wednesday, 9:00 p.m.—“Minority Problems” with Arnold Rose.

9:30 p.m.—“The Living Theater” with Arthur Ballet.

Thursday, 9:00 p.m.—“Current Issues” with Robert Lindsay.

9:30 p.m.—“Town and Country” with Ray Wolf.

Friday, 9:00 p.m.—“Contemporary Design” with Dezso Sekely.

9:30 p.m.—“Viewpoint” with Robert Scott, interviewer.

MUSEUM SUNDAY FILM PROGRAMS

Museum of Natural History Auditorium

3:00 p.m.

December 7—“Our National Parks and Wildlife” by Sigurd Olson.

December 14—“Your Stake in Minnesota's Water Resources” by Dr. Lloyd Smith. (Museum corridors are open to the public weekdays from 9:00 a.m. to 5:00 p.m. Mon-

day through Saturday, and from 2:00 p.m. to 5:00 p.m. Sunday.)

UNIVERSITY GALLERY EXHIBITIONS

Through December 19—Centennial exhibition with works by art faculty members of Minnesota colleges.

December 8-28—Prints and drawings by George Bellows.

(The University Gallery, on the third and fourth floors of Northrop Auditorium, is open to the public from 8:30 a.m. to 4:30 p.m., Monday through Friday. Concertgoers will find the gallery open before performances and during intermissions.)

DECEMBER UNIVERSITY OF MINNESOTA PRESS PUBLICATIONS

The Wilderness and Other Poems by Louis O. Coxe, \$2.50.

From Jane Austen to Joseph Conrad edited by Robert C. Rathburn and Martin Steinmann, Jr. Published in honor of the late James T. Hillhouse. \$5.75.

ATHLETIC DEPARTMENT EVENTS

Home Basketball Games

Williams Arena, 8:00 p.m.

December 6—Vanderbilt.

December 11—Oklahoma.

December 13—Nebraska.

December 22—Stanford.

(Single game reserved tickets, \$2.00. Mail order sales close one week prior to each game. Over-the-counter sale of unsold tickets begins at 108 Cooke Hall on the Monday before each game. General admission 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 5—U.S. Nationals.

December 19 and 20—Dartmouth.

December 27—U.S. Nationals.

(Single game reserved tickets, \$1.75. Mail order sales close one week prior to each game. Over-the-counter sale of unsold tickets begins at 108 Cooke Hall on the Monday before each game. General admission tickets at \$1.00 for adults and \$.60 for individuals under 16 on sale at gate only.)

Swimming

Cooke Hall, 1:00 p.m.

December 6—Minnesota Time Trials.

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.

University of Minnesota Calendar of Events

JANUARY, 1959

MINNEAPOLIS SYMPHONY CONCERTS

Subscription Series

Northrop Auditorium, 8:30 p.m.

- January 2—Glenn Gould, pianist.
 January 9—Pierre Monteux, guest conductor, and the University Chorus, Walter Collins, conductor.
 January 16—George London, baritone.
 January 30—Clifford Curzon, pianist.
 (Single tickets, \$2.00–\$4.50. Reservations at 106 Northrop.)*

Sunday Twilight Concerts

Northrop Auditorium, 4:30 p.m.

- January 4—Gems of Puccini.
 January 18—Broadway Show Tunes.
 January 25—*The Mikado* by Gilbert and Sullivan.
 (General admission, \$1.00. Ticket sales open at the Auditorium Box Office at 3:30 p.m. the day of the concert.)

UNIVERSITY ARTISTS COURSE CONCERTS

Celebrity Series

Northrop Auditorium, 8:30 p.m.

- January 20—Music with Mary Martin.
 (Single tickets, \$1.50, \$2.50, \$3.00, \$3.50, \$4.00. Reservations at 105 Northrop.)**

Masterpiece Series

Northrop Auditorium, 8:30 p.m.

- January 28—Alexander Brailowsky, pianist.
 (Single tickets, \$1.50, \$2.50, \$3.00, \$3.50. Reservations at 105 Northrop.)**

Special Concerts

Northrop Auditorium, 8:30 p.m.

- January 13, 14—Beryozka, Russian dance company.
 (Single tickets, \$2.00, \$3.00, \$4.00, \$5.00. Mail orders now at 105 Northrop.)**
 January 21—Music with Mary Martin.
 (Single tickets, \$1.50, \$2.50, \$3.00, \$3.50, \$4.00. Reservations at 105 Northrop.)**

CONVOICATIONS

Northrop Auditorium, 11:30 a.m.

- January 8—University Touring Theater in *The Rivals*.
 (11:30 a.m. to 1:20 p.m.)
 January 15—"Incredible India," film lecture by J. Michael Hagopian.
 January 22—Nala Najan in the dances of India.
 January 29—"Secrets of Scotland Yard," a lecture by (Captain) Robert Fabian of Scotland Yard.

UNIVERSITY THEATER PRODUCTION

Scott Hall Auditorium

- January 29–31, February 3–8—*The Scythe and the Sunset* by Denis Johnston.
 (January 29–31 and February 3–7, 8:30 p.m.; February 3 and 8, 3:30 p.m. Single tickets at \$1.50 on sale at Scott Hall Box Office.)*

MUSIC DEPARTMENT CONCERTS

Tuesday Music Hours

Scott Hall Auditorium, 11:30 a.m.

- January 6, 13, 20, 27—Music Hour Programs.

Phi Mu Alpha Opera Presentation

Scott Hall Auditorium, 8:30 p.m.

- January 15–17—*Trouble in Tahiti* by Leonard Bernstein and *The Jumping Frog* by Lukas Foss.
 (Admission charge. Tickets on sale in Scott Hall Lobby.)

SIGNIFICANT UNIVERSITY TELECASTS

Channel 2, KTCA-TV

- Monday–Friday, 9:00–10:00 p.m.—University of Minnesota Hour.

MUSEUM SUNDAY FILM PROGRAMS

Museum of Natural History Auditorium
 3:00 p.m.

- January 4—"Why the Interest in Whooping Cranes?" by Dr. Walter J. Breckenridge.
 January 11—"Growth in the Field of Game Management," by Dr. William Marshall.
 January 18—"Sound, Color, and Action—The Language of Birds," by Dwain W. Warner.
 January 25—"International Nature Salon Color Photos," by Dr. Walter J. Breckenridge.

UNIVERSITY GALLERY EXHIBITIONS

- January 5–30—One-man show of the works of Walter Quirt.
 January 8–30—International Graphic Arts Society Prints.
 (The University Gallery, on the third and fourth floors of Northrop Memorial Auditorium, is open to the public from 8:30 a.m. to 4:30 p.m. Monday through Friday. Concert-goers will find the Gallery open before performances and during intermissions.)

ATHLETIC DEPARTMENT EVENTS

Home Basketball Games

Williams Arena, 8:00 p.m.

- January 3—Wisconsin.
 January 17—Purdue.
 (3:30 p.m., to be televised)
 January 24—Michigan State.
 January 26—Illinois.
 (Single game reserved tickets, \$2.00. Mail order sales close one week prior to each game. Over-the-counter ticket sales begin at 108 Cooke Hall the Monday before 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.

- January 9–10—Michigan State.
 January 30–31—North Dakota.
 (Single game reserved tickets, \$1.75. Mail order sales close one week prior to each game. Over-the-counter ticket sales begin at 108 Cooke Hall the Monday before each game. General admission tickets at \$1.00 for adults and \$.60 for individuals under 16 on sale at gate only.)

Wrestling

- January 9—Nebraska (7:30 p.m.)
 January 10—Kansas State (2:00 p.m.)
 January 17—Purdue (5:00 p.m.)

Track

Field House, 2:00 p.m.

- January 31—Iowa State.

Swimming

Cooke Hall

- January 10—Gustavus Adolphus (3:30 p.m.)
 January 16—Ohio State (8:30 p.m.)
 January 31—Chicago (3:30 p.m.)

Gymnastics

- January 17—U.S. Air Force Academy.
 (3:00 p.m., Cooke Hall.)
 January 24—Illinois.
 (9:30 p.m., Williams Arena.)
 (Tickets for gymnastics, wrestling, track, and swimming events 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.

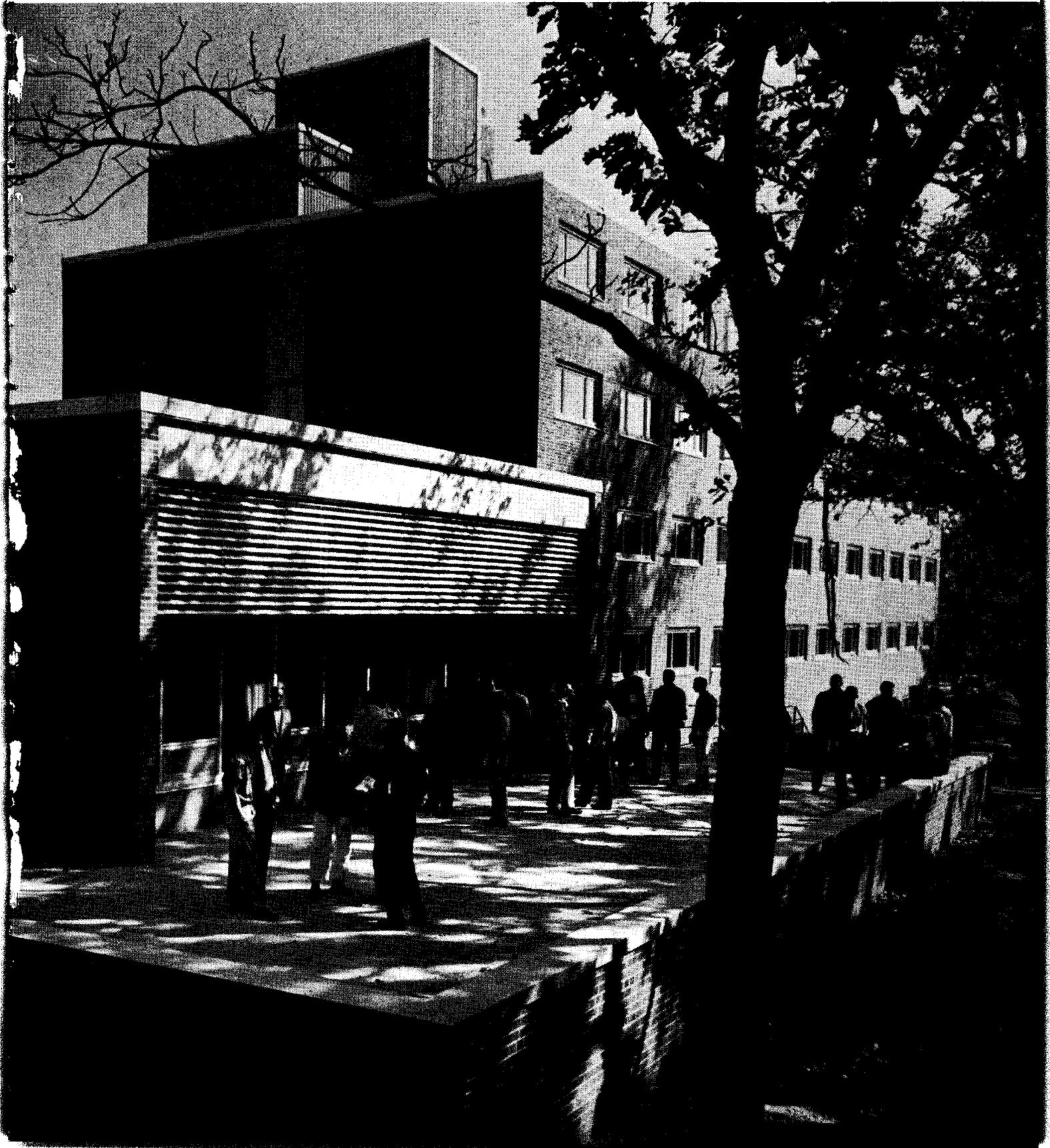
**Tickets for these events are also available at the St. Paul and Minneapolis ticket offices on Monday of the week prior to the performance.

THE MINNESOTAN

The University Staff Magazine

-

February, 1959



They Made Us Great

IN THE MIDST of the busy Minneapolis Campus is a unique room, aptly termed "the cave." Built largely underground and protected by thick concrete walls, the room is part of the University's Gamma Irradiation Facility, located adjacent to the Chemical Engineering Building.

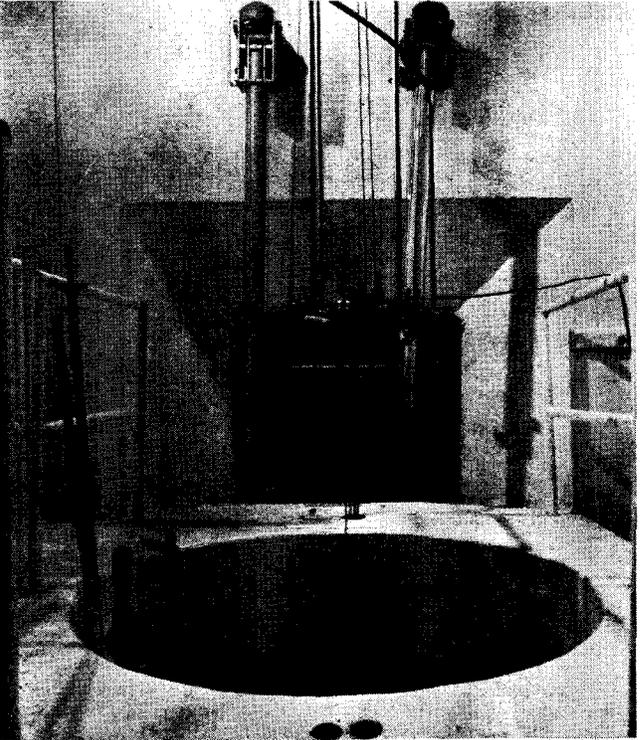
Within this room, a pair of thin, claw-like "arms" manipulates pencil-shaped tubes extracted from an underground well and filled with a deadly — yet potentially life-giving — contents: radio-active cobalt.

Passed by thousands of students each day, the location of the Facility proves that radiation can be safely harnessed to do man's bidding.

The presence of the Facility on the Minneapolis Campus was made possible by the Minnesota Nuclear Operations Group, an organization of 27 Minnesota industries and the University.

Present at the organization's first formal meeting on March 31, 1955, were the presidents of the three founding companies: Allen S. King of Northern States Power; Paul B. Wishart of Minneapolis-Honeywell, and Charles H. Bell of General Mills. Later, a three-man operating committee was named, including Hibbert M. Hill, chief engineer for Northern States Power; Finn J. Larsen, research director for Minneapolis-Honeywell; and John E. Barkley, research director for General Mills. Plans for the Facility were formed with the help and advice of

Shielded by a three-foot-thick glass window, Neal R. Amundson, head of chemical engineering, and Ralph O. Wollan, health physicist, operate the giant "arms" used to manipulate the radio-active cobalt.



Athelstan F. Spilhaus, dean of the Institute of Technology. Herbert S. Isbin, professor of chemical engineering, was named University representative to the committee and the man responsible for the Facility. Thus the University became a member of the Group, and, later, 24 other companies accepted invitations to join and appointed committee representatives. From the member companies came the original grant which made possible the construction of the Facility.

Group members, in addition to the founding companies, are:

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

In addition to its function as a research center, the Facility is a vital part of University teaching and demonstration programs in the training of nuclear engineers and scientists.

Surely the University, the state, and, indeed, all of mankind are and will continue to be the beneficiaries of the generosity and the vision of the Minnesota Nuclear Operations Group.

On the cover . . .

Residents of Bailey Hall, new residence hall on the St. Paul Campus, are pictured just outside the entrance to the common lounge and lobby which serves both the men's wing, seen at right, and the women's section which forms a right-angle (at left of entrance) to the rest of the structure. This new residence hall was named in honor of Clyde H. Bailey, dean emeritus of the Institute of Agriculture.

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*Housekeepers, Custodians, Cooks, Counselors,
Directors Are Student Housing Specialists*

Smooth Functioning of Residence Halls Is a Credit to Staff Members, Students

“WE MUST MAKE IT possible for a young person to live decently on three dollars a week,” said University of Minnesota President William Watts Folwell in 1870.

President Folwell was clearly of the opinion that the University, as he put it, “would gain greatly if it could offer a considerable number of lodgings at low or nominal rates.”

Eighty-nine years have passed, and that “considerable number of lodgings” now includes residences for both men and women on the Minneapolis and St. Paul Campuses which accommodate over 3400 students and the married student housing units which accommodate over 750 students and their families. There are about 160 full-time staff members and nearly 600 part-time students concerned in one way or another with the operation of these University-owned housing facilities which are under the direction of Clinton T. Johnson, director of University Services, and C. Luverne Carlson, director of housing.

Purpose of Residences

The main purpose of these Uni-
(Continued on page 4)



The Comstock Hall lobby serves as a meeting place for Grace C. Nelson, director of women's residences; Clinton T. Johnson, director of University Services; and C. Luverne Carlson, director of housing.

February, 1959

(Continued from page 3)

versity-owned residences is not merely to "house" University of Minnesota students. The residence halls, particularly, are intended to be true residences in every sense of the word: places for people to live, their temporary homes.

Residence hall rooms, both singles and doubles, are bright, airy, and attractively-furnished, with colorful bedspreads and draperies, study and floor lamps, desks, chairs, and comfortable three-quarter size beds with innerspring mattresses. Of particular interest to coeds is the convenience of laundry rooms, complete with driers, and the availability of automatic washing machines. Comstock Hall, for example, has laundry and pressing rooms on each wing.

Graduate Student Counselors

Each residence hall has a head counselor who is in charge of a well-qualified group of graduate student counselors, each responsible for approximately 50 students. These men and women, who live in the same corridors, wings, or "houses" as their students, help guide social, athletic, and student-government programs. Social activities include open houses as well as various other parties and dances and meetings of groups organized for students with special interests. There are camera clubs, hi-fi clubs, and choruses, to mention only a few.

Athletic activities include various competitions between halls or "houses." These "houses" are sections of residence halls set aside for smaller and more cohesive groups of students with similar interests; for example, there are graduate student houses at Centennial and at Territorial.

Student Government

Students in residence halls serve on many different kinds of committees. In this way they learn principles of good leadership and cooperation, not only through their social func-



Three Comstock Hall residents meet with Catherine G. Blount, head residence hall counselor to discuss a student-government matter. From left to right are: Linda S. Smiley, Mason City, Iowa; Miss Blount; Grace D. Hillstrom, Cokato; and Carol A. Timmons, Glenwood.

tions, but in matters affecting student government and discipline. Each hall has an effective student government organization; there is also an All-Residence Hall Council. In addition, students form their own judicial groups to take care of disciplinary matters such as infringement of rules.

Residence hall students also maintain over-all high scholastic averages. For example, nearly one-half of the Comstock Hall residents were honored for outstanding achievement last spring at the annual recognition dinner ceremonies.

Economical Living

This well-balanced residence hall life has an additional advantage; it is economical living for the average student. True, it cannot be had for the "three dollars a week" envisioned by President Folwell in 1870, but it does

follow his desire for "lodgings at nominal rates."

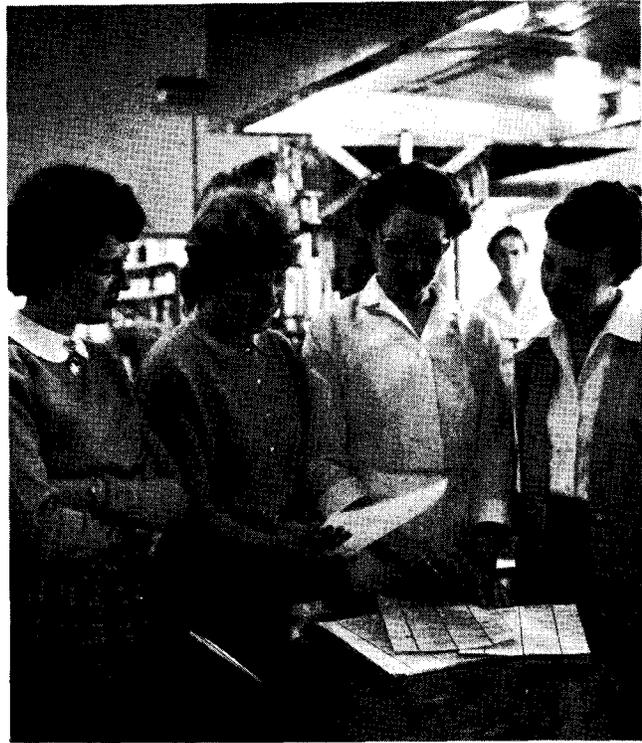
All University-owned housing facilities are completely self-sustaining, that is, they must operate within their own income with no assistance from legislative sources.

The average cost per quarter for a student living in a residence hall may be anywhere from \$229.00 to \$266.00 depending on the size of the room (single or double); this amounts to anywhere from \$3.04 to \$3.53 per day. This total covers room and board (21 meals per week) and all operating costs such as salaries, utilities, repairs, and maintenance.

Costs for married students are reasonable, too. The monthly rental for the temporary structures at University Village and at University Grove East is \$45.00 including utilities; monthly rates for the new Commonwealth Terrace Apartments are \$70.00 for the one-bedroom apart-



Rebecca Vandermoon, housekeeper, helps Comstock students make plans for one of the hall's regular "open houses."



Refreshments for a Comstock party are arranged by a student committee assisted by Helen Kantén, senior dietician. Staff members Mable S. Skoglund (seen in background above) and Clara Eckenstedt, cooks, have been preparing meals for Comstock residents since the building opened in 1940.

ments and \$80.00 for the two-bedroom units, including all utility charges; refrigerators and stoves are furnished.

Housing Staff

It takes a lot of trained people to keep residence halls running smoothly. Mr. Carlson is directly responsible for all University-owned housing for single and married students; he is also in charge of the staff housing service which assists staff people in locating rooms, apartments, and houses.

Each residence hall, in turn, has its own director: John Rock is the director of Pioneer, and James P. Schroeder is in charge of Centennial and Territorial, all men's residences on the Minneapolis Campus; a fourth men's residence, Frontier Hall, is scheduled to open next fall.

Grace C. Nelson, director of wom-

en's residences, is also the director of Comstock Hall; Rebecca A. Nelson is the director of Sanford Hall, and Mabel B. Victor is in charge of the Winchell "cooperative" Cottages. All are women's residences on the Minneapolis Campus.

Myrtle Gagnon is the director of Brewster, Meredith, Dexter, Dining, and Thatcher Halls, all on the St. Paul Campus; Brewster (for men) and Meredith (for women) are residences for University students; Dexter and Dining are reserved for School of Agriculture students.

Facilities for married students include Thatcher Hall which has apartments for graduate students, the two areas of "temporary" buildings (the Quonset-type structures at University Village and the metal barracks units at University Grove East) and the new Commonwealth Terrace Apartments on the St. Paul Campus. Albert

Hansen is manager of these married student housing units.

Student Jobs

In addition to the full-time staff members, there are nearly 600 students who hold part-time jobs in residence halls; they may be switchboard operators, food service workers, clerks, or night watchmen. Each student may work only two or three hours each day; this system gives work to a greater number of individuals and helps many students pay for their living expenses. These students are paid at the same hourly rates as the full or part-time staff people.

Nearly a century ago a University president expressed a wish that has certainly been fulfilled; the University of Minnesota, has indeed gained greatly from its "considerable number of lodgings."

Child Psychiatry Service Studies, Treats Young Patients' Emotional and Mental Ills

FOUR SPIRITED teenagers playing a game of volley ball, a small boy skipping down a corridor, two young girls painting — the activities are not unusual, but the setting is.

These boys and girls, who are having difficulty adjusting to their life situations, are patients on the children's psychiatry station at University Hospitals. On this closed station, which occupies one wing of the sixth

Dining tables of varying shapes and sizes are used in many different room arrangements, making it possible for staff members to study the interactions of groups of children. Here, James W. Hill, hospital orderly, serves Kay F. Taylor, hospital aide, Kathleen A. O'Brien, general staff nurse, and two patients during a "milk break."



floor of the Mayo Memorial Building, they follow a daily routine which corresponds to a usual day for a child.

The quarters, which can accommodate 23 boys and girls under the age of 16, include recreational rooms and lounges, an arts and crafts workshop, and an outdoor play area. Nurses dressed in street clothing help children engage in diverse activities designed to stimulate self expression.

Since psychiatric training for medical students is of primary importance on this station, an effort is made to keep the patient group representative of the usual behavioral disturbances of children. The average stay of a patient is approximately 28 days. This provides a continuous flow of patients who represent a broad spectrum of emotional and mental disturbances, augmenting both the teaching program of the Medical School and the services the University Hospitals provide to communities throughout the state.

While a child is in residence, he is under observation, study, diagnosis, and treatment. He is given a battery of psychological and intelligence tests, as well as thorough physical and neurological examinations. A doctor visits him daily, and his case is discussed periodically by staff members at case conferences which are under the direction of Dr. James J. Lawton, Jr., assistant professor of psychiatry and pediatrics. These procedures assure better teaching and a better under-

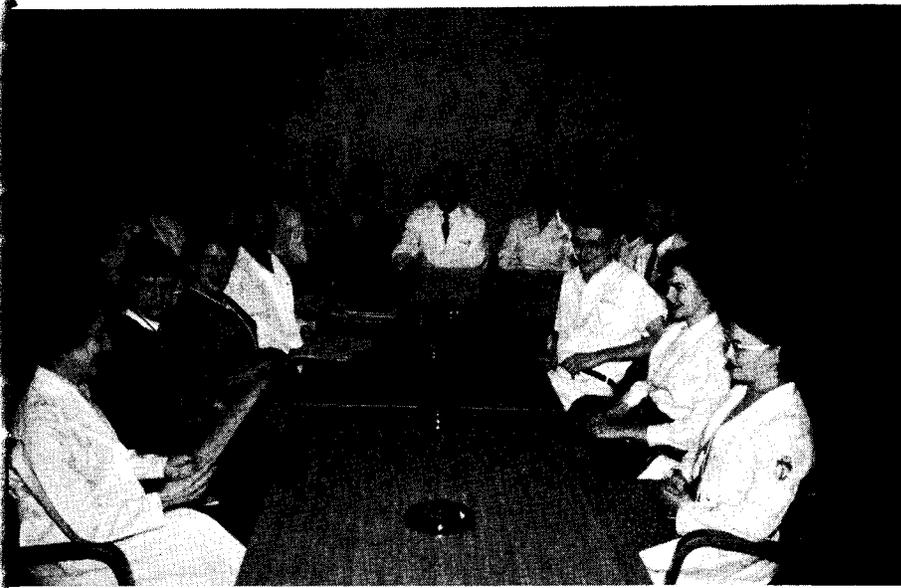
standing of the patient and his problems.

Parents are present when the child is admitted, and, during the study period, are tested and interviewed by various staff members, in some cases by a resident physician and in others by one of the two social workers in the division, Gertrude R. Shiely and Sophie M. Siganos.

When the study of the child is completed and he leaves the hospital, an effort is made to assure a continuing program of management. A detailed letter is sent to the referring physician after the child is discharged, and as many children as possible are followed by University staff members on an outpatient basis. Encouraging results have been obtained from follow-up studies made on the first 200 admissions.

Occupational therapy may be both therapeutic and diagnostic. In this picture, Helen A. Larson, general staff nurse, and Nadine Sweney, occupational therapy student, help a patient with a woodworking project. Such tasks enable staff members to observe how well children use their minds and their hands.





Staff members meet regularly for case conferences to exchange observations and make suggestions for treatment. Left to right are: Patricia Nakhshian, occupational therapist; Patricia Porter and Nadine Sweney, occupational therapy students; Gertrude R. Shiely, psychiatric social worker; Doctors Richard J. Bealka and Richard H. Kastner, medical fellows; Joan L. Halvorson, head nurse; Dr. James J. Lawton, Jr., assistant professor of psychiatry and pediatrics; Dr. Hildegard Graber, medical fellow; Sophie M. Siganos, senior social worker; Dr. Glen M. Lewis, Jr., medical fellow specialist; Gene W. Ostrom, hospital orderly; Elizabeth H. Loew, general staff nurse; and Marcia S. Urseth, occupational therapist.

The primary objectives of the child psychiatry service are to teach medical students that basic principles of psychiatry are an integral part of a medical practice, to provide clinical experience for them, to develop a program of research, and to provide a service to the state. Each year more than 200 junior and senior medical students have contact with the division, and between 12 and 15 residents specializing in psychiatry or pediatrics are assigned to the service. A varying number of other professional workers such as nurses, occupational therapists, group workers, and teachers also receive training. Staff members in the division participate in over 50 inter-agency conferences each year as well as in courses offered by the Medical School and the Center for Continuation Study. Lectures to many diversified groups provide additional teaching opportunities.

Dr. Reynold A. Jensen, director of
February, 1959

the division of child psychiatry, says that physicians are finding that more children have serious emotional and mental disturbances than was thought when the field was first established a little over fifty years ago. He adds that practically every type of disorder which occurs in adults may be found in children, including psychoses (serious mental illnesses).

Current research conducted by the division is aimed at discovering some of the "whys" of these mental disturbances. Under the direction of Wentworth Quast, assistant professor of psychiatry and pediatrics, and William D. Wolking, instructor in psychiatry and pediatrics, parents and many of the children who are under study and treatment take the Minnesota Multiphasic Personality Inventory and other tests. Each child also has an electroencephalograph, a test which records graphically the electrical activity of the brain. The division is using these tests, among

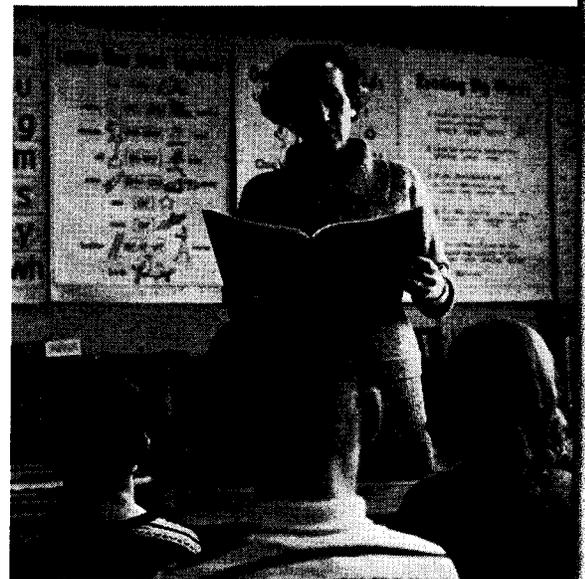
others, to determine whether there are any organic disturbances related to patients' abnormalities.

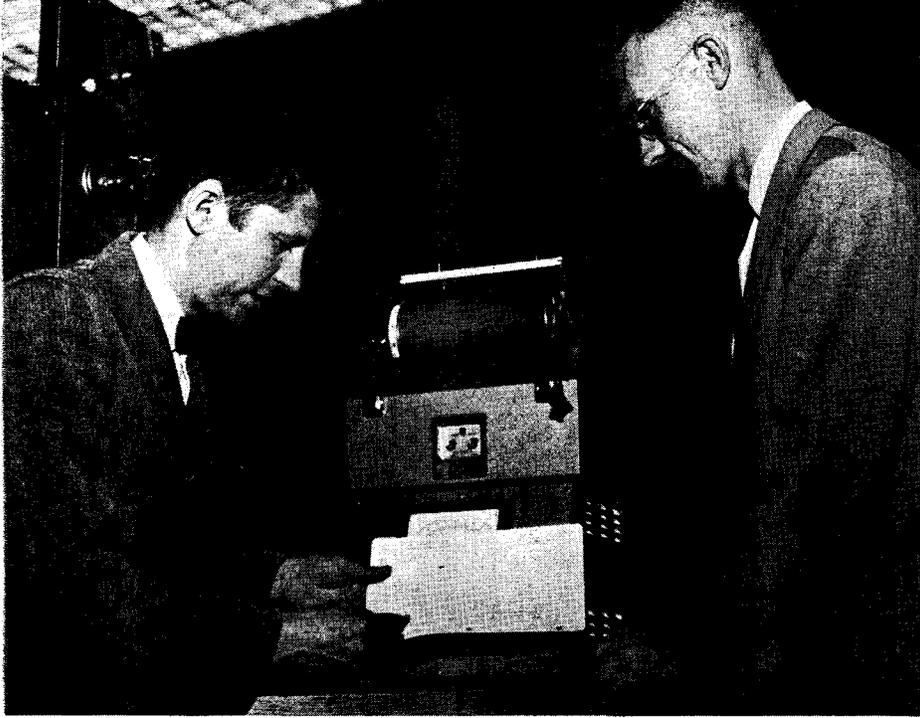
Although the division of child psychiatry is in the Department of Psychiatry, its activities are also closely associated with the Department of Pediatrics. Most children enter the station through the outpatient Pediatric Department. Many children confined to the regular pediatric stations with physical disorders also have associated psychological or emotional difficulties. To insure complete cooperation, full-time professional staff members hold academic appointments in both departments.

Having passed through a period of organization, these staff members anticipate increased activities in research and in the expansion of the training program to include career child psychiatrists.

The program has attracted students from other countries as well as from many parts of the United States, and interest is increasing.

Katherine B. Douglas, special teacher from the Minneapolis Public Schools, holds classes for patients in the child psychiatry service classroom. This teaching program is useful in two ways: it helps patients keep up with their regular school work, and it helps staff members gain insight into learning problems which are frequently associated with adjustment difficulties.





HAVE YOU MET?

*Howard G. Hanson and
James C. Nichol*

Associate Professor Hanson, left, and Assistant Professor Nichol were research participants at the Oak Ridge, Tennessee, Atomic Research Center last year. Professor Hanson's field of study was the fluorescence of various crystals when subjected to nuclear radiation; Professor Nichol's work involved the isolation and characterization of protein and other components of body cells.



Roy E. Carter

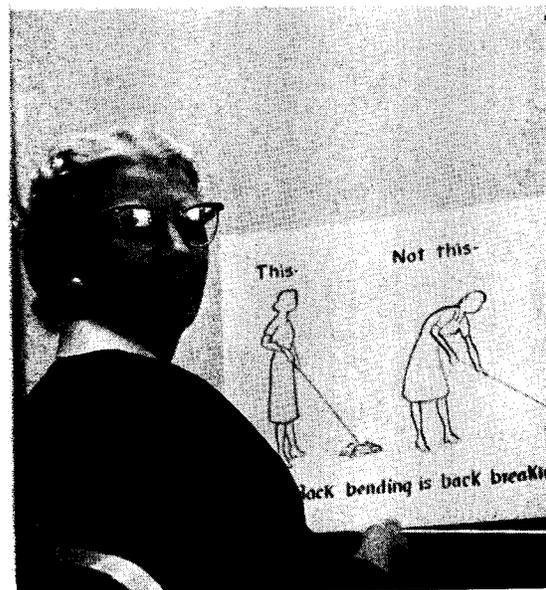
As director of the research division of the School of Journalism, Professor Carter is responsible for directing studies on such subjects as readability, readership, and relationships between the press and government.



Marjorie G. Antoncich

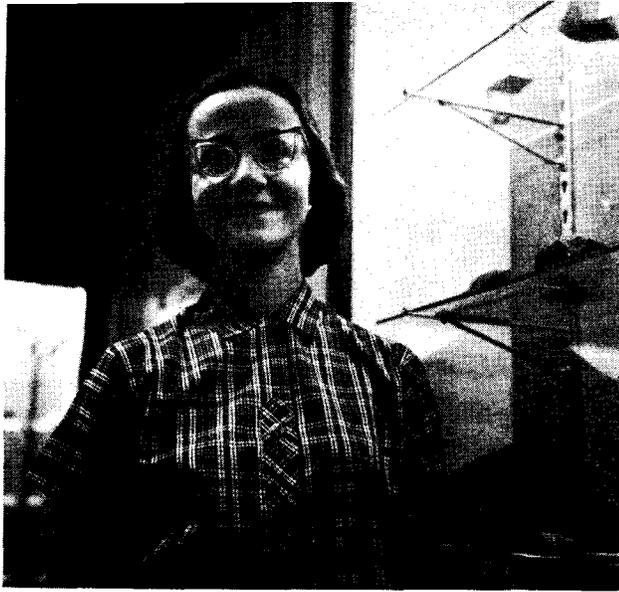
Mrs. Antoncich, senior dental hygienist, originated the dental hygiene program for children confined to the pediatric stations at University Hospitals. In the picture above, she demonstrates proper tooth-brushing procedures.

The Minnesotan



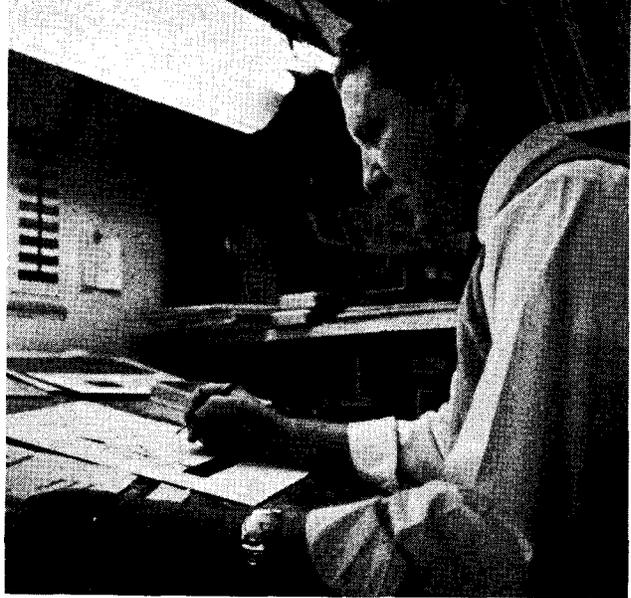
Marion Melrose

Mrs. Melrose, Agricultural Extension specialist, is teaching a pilot course in energy-saving housework techniques to housewives who have below-normal physical energy, specifically those with heart disease.



Barbara C. Lemons

A native of Germany, Mrs. Lemons came to the United States with her G. I. husband who is now a University graduate student. A former secretary for the U.S. Army in Germany, she is now senior secretary in the Department of Geology.



John J. Fuchs

Mr. Fuchs, St. Paul Campus Information Service artist, is a graduate of the St. Paul School of Associated Arts. He worked for a time in the commercial art bureau of the School before joining the University staff in June, 1956.



John W. Clark

Professor Clark was appointed chairman of the Department of English in September, 1958. His major interests are in the fields of Old and Middle English, and he has written extensively in both areas.

W. Edgar Drake

As assistant to the Director of the Department of Concerts and Lectures and ticket manager, Mr. Drake has the complex job of assisting the several thousand University Artists Course patrons with their ticket requests and problems.



Mary C. Schwinghamer

A senior clerk in the Outpatient Medical Clinic at University Hospitals, Miss Schwinghamer handles the records of about 70 patients each day.

February, 1959





Erected in 1922, the Edward K. Brooks family residence, "Eastcliff," has been presented to the University as the new home for its future presidents.

"Eastcliff" Becomes New Home for Presidents

FUTURE PRESIDENTS of the University of Minnesota will reside at "Eastcliff," the white, Georgian colonial Brooks home at 176 North Mississippi River Boulevard in St. Paul.

University Regents have accepted the property as a gift from the Edward Brooks family. The house has been a St. Paul landmark since it was erected in 1922.

Built by the late Edward Brooks, prominent Northwest lumberman who died in 1954, Eastcliff is still occupied by Mrs. Brooks who will continue to live in the house for a limited time while planning her future residence.

Commenting on the gift, Mrs. Brooks said recently, "We have always had a high regard for the University of Minnesota, and we feel the house to be eminently suitable as a residence for the President and an appropriate setting for entertaining the visitors who come to Minnesota as guests of the University."

The Brooks home will replace the Governor John S. Pillsbury house at Fifth street and Tenth avenue, Southeast, in Minneapolis, residence of University Presidents since 1911.

The Pillsbury house has been the home of six presidents: George E. Vincent, Marion L. Burton, Lotus D. Coffman, Guy S. Ford, Walter C. Coffey, and J. L. Morrill. President Morrill, who will retire in 1960, will not occupy Eastcliff. University Regents will decide later the disposition of the Pillsbury House which was built in 1877.

Members of the Brooks family who, with Mrs. Brooks, presented Eastcliff to the University, are three sons and

a daughter: Conley Brooks, Long Lake; Edward Brooks, Jr., St. Paul; Dwight F. Brooks, Vancouver, B.C.; and Mrs. John D. (Markell Brooks) Krafchuk, Long Lake.

Expressing the appreciation of the Regents for "this magnificent gift to the University from the Brooks family," Ray J. Quinlivan, chairman of the Board of Regents, commented: "This will be a distinguished home for University presidents for many years to come."

For many years prior to his death in 1954, Edward Brooks had been president of Brooks-Scanlon, Incorporated, lumber manufacturing firm. He also was a director of the Northern Pacific Railway and of Miller Hospital, St. Paul, and a senior director of the Powell River Company, Limited, Vancouver, B.C., owners of the largest single newsprint mill in the world.

He was the son of Dr. Dwight F. Brooks, a doctor of medicine who entered the lumber business with M. J. Scanlon of Minneapolis, and, together with the doctor's brothers, the late Lester R. Brooks and Anson S. Brooks, founded the parent Powell River and Brooks-Scanlon Companies. Also associated with Edward Brooks in the family enterprises were his brothers, the late Harry K. Brooks and Sheldon D. Brooks.

Mr. Brooks was born in St. Paul in 1888. In 1920, he married Markell Conley, also born in St. Paul. During World War I, he served as a captain with the U.S. Army Engineers in France.

Eastcliff occupies a St. Paul site approximately two acres in extent, bounded by Dayton and Otis Avenues and North Mississippi River Boulevard.

Have You Heard?

Polio Vaccine Report

• The orally-administered live polio vaccine given 148 families at University Village last year was effective in stimulating the production of antibodies against all three of the known types of virus which cause poliomyelitis, according to a study conducted by the Minnesota Department of Health. Its effectiveness was particularly noted among children. The advisory committee for this study included Dr. Gaylord W. Anderson, director of the School of Public Health; Dr. John A. Anderson, head of pediatrics; Dr. John L. McKelvey, head of obstetrics and gynecology; Dr. Leonard M. Schuman, professor of public health; and Dennis W. Watson, professor of bacteriology and immunology.

Duluth Campus Activities

• Works by 11 contemporary artists are on exhibit in the Kirby Student Center on the Duluth Campus through a loan arrangement with the Solomon R. Guggenheim Museum, New York.

Emeritus Organization

• The American Association on Emeriti has set up headquarters at 1025 Connecticut Avenue, N.W., Washington 6, D.C. Recently organized to further the security of retired academic persons, it maintains an employment registry and publishes a quarterly bulletin, *The Emeritus*. Guy Stanton Ford, president of the University of Minnesota from 1938-1941, is editorial consultant for this publication.

Regents' Scholarships

• The following staff members have received Regents' Scholarships for winter quarter:

Judith S. Ames, senior clerk-typist, Audio-Visual Education Service; Donald E. Battles, principal laboratory attendant, Surgery; Helen K. Bjorlin, general head nurse, Psychiatry; June C. Checklund, senior clerk, Physics Library; Beverly Mae Cole, senior account clerk, Coffman Memorial Union; Barbara A. Damon, head nurse, University Hospitals; Roland H. Daugherty, associate scientist, Aeronautical Engineering; Doris S. Ferweda, secretary, Psychology, and Ivan C. Fletcher, senior accountant, Professional College Bookstore.

Also: James D. Froom, laboratory technologist, Veterinary Bacteriology and Public Health; Marjorie J. Gerlich, assistant, St. Paul Campus Agricultural Experiment Station; Ernest A. Greene, junior scientist, Physiology; Lillie M. Harrison, senior sec-

retary, University Elementary School; Alton L. Kollman, bookstore manager, Coffey Hall Bookstore; Joyce E. Lounberg, junior scientist, Pediatrics; Barbara J. McHaffie, principal secretary, Student Counseling Bureau; Judith A. MacMaster, clerk-typist, General Extension Division; Eldon W. Ploetz, storehouse stock clerk, Chemistry, and Norman L. Rick, engineer, Physical Plant.

Also: Maye E. Sampson, senior clerk, Photographic Laboratory; Marie A. Sathrum, senior secretary, Music; Maureen C. Schickler, head nurse, University Hospitals; Ethel F. Schneider, laboratory technologist, Radiology; Veronica P. Schultz, senior clerk, Student Counseling Bureau; Arthur W. Schwalm, electronics mechanic, Physical Medicine; Eleanor M. Steele, psychometrist, Student Counseling Bureau; Philip A. Sutherland, roundsman, Protection and Safety; Velta E. Svinis, senior laboratory technician, Pediatrics; Sharon P. Thompson, senior clerk-typist, Psychiatry; Sybil R. Wong, laboratory technologist, Bacteriology and Immunology; and Barbara J. Zittel, senior clerk-typist, Audio-Visual Education Service.

• Scholarship recipients for spring semester General Extension Division evening classes are:

Louis A. Bono, laboratory machinist, Scientific Apparatus Repair Shop; Dawn G. Copeland, laboratory technician, Physics; Delores E. Dooley, principal secretary, Dentistry; Laurel R. Erickson, clerk ste-

nographer, Psychiatry Research; Ruth J. Gillis, principal secretary, Summer Session; Ardis L. Hovland, principal account clerk, Physics; Walter E. Kaul, training officer, Civil Service Personnel; and Helen M. Lawniczak, senior secretary, Social Science Research Center.

Also: Laverne J. Markowski, senior account clerk, Comptroller's Office; William C. Mattox, general mechanic foreman, University Hospitals Maintenance; Engel H. Prins, general mechanic, Mines Experiment Station; Joseph J. Roback, junior engineer, Physical Plant; Christopher M. Ryan, principal account clerk, Comptroller's Office; Virginia M. Singleton, senior secretary, Physical Plant; Carol W. Trickey, senior clerk, Health Service Eye Department; and Shirley A. Vogel, senior clerk typist, Dean of Students' Office.

Faculty Publications

• An essay by Joseph J. Kwiat, associate professor of interdisciplinary studies and English, has been selected by members of the Modern Language Association as one of three "outstanding and influential articles" in the category of American literature, 1870-1957, to be published in the Association's journal in the past 75 years. His essay, "Dreiser's 'The Genius' and Everett Shinn, the 'Ash-Can' Painter," appeared in the journal *Publications of the Modern Language Association* in 1952.

(Continued on page 12)

Industry Education Conference

• An Industry-Education Conference was held last fall to develop a program to meet common problems. Faculty members who participated in this conference include those pictured below. Seated, left to right, are: William G. Shepherd, head of electrical engineering; Alfred O. C. Nier, chairman of physics; Frank Verbrugge, associate chairman of physics and general chairman of the conference; Bryce Cradford, Jr., chairman of chemistry; Walter W. Cook, dean of the College of Education; and William N. Lipscomb, chief of physical chemistry.

Standing are: Raymond W. Darland, Duluth Campus provost, and Stuart W. Fenton, associate chairman of chemistry. Other faculty participants in the program were Gordon M. A. Mork, professor of education; Paul C. Rosenbloom, professor of mathematics in the Institute of Technology; and Stanley J. Wenberg, assistant to the President.



February, 1959

HAVE YOU HEARD?

(Continued from page 11)

• Mary L. Rice, assistant professor in the General College, has prepared a report entitled "Teacher on TV: Pioneering in Educational Television," based on her television program "Selecting and Reading Current Books," which was telecast over Channel 2, KTCA-TV, during the fall quarter of 1957. Copies of the report are available and may be secured by contacting Professor Rice at 206 Nicholson Hall.

Honors, Awards and Offices

- Werner W. Boehm, professor of social work, has received the annual Harry M. Cassidy Memorial Research Fund award for study on the theory of social work.
- Dr. Frederic J. Kottke, head of physical medicine, is president-elect of the American Congress of Physical Medicine and Rehabilitation.
- Dr. Wesley W. Spink, professor of medicine, has been appointed consultant in internal medicine to the Surgeon General of the United States Air Force.
- Moses Passer, associate professor of chemistry on the Duluth Campus, has been named to the 12-member standing committee on chemical education of the American Chemical Society.
- Raymond S. Wolf, agricultural extension information specialist, and Josephine B. Nelson, extension assistant editor, on the St. Paul Campus have received national honors for safety promotion on their regular KUOM radio series. KUOM is the only station in Minnesota to get this award which it has received six times since 1950.
- Robert H. Haakenson, head of speech on the Duluth Campus, has been named chairman of the radio-television-film group of the Speech Association of America.
- Dr. Louis Tobian, Jr., associate professor of medicine, and Dr. Maurice B. Visser, head of physiology, have been designated fellows of the New York Academy of Sciences.
- Albert L. Scipio, lecturer in aeronautical engineering, received the D. B. Steinman Award for 1958 from the New York Academy of Sciences for a paper entitled "On the Design of Structural Models to Study Thermal Stress Phenomenon."
- Edgar L. Piret, professor of chemical engineering, has been named science attache to the Department of State at the United States Embassy in Paris.
- Frank Verbrugge, associate chairman of physics, has been named associate dean of the Institute of Technology, effective July 1, 1959. In his new post, Professor Verbrugge will succeed professor Benjamin J. Lazan who was recently appointed head of the

combined departments which now form the Department of Aeronautical Engineering.

- Herbert Feigl, professor of philosophy and director of the Minnesota Center for the Philosophy of Science, has been elected a vice president of the American Association for the Advancement of Science.
- Dr. C. Walton Lillehei, professor of surgery, has been made an honorary member of the International Medical Club.
- Mary E. Baker, senior librarian, St. Paul Campus Agriculture Library, is president of the Twin City chapter of the Special Libraries Association.

Staff Members as Consultants, Visiting Professors, and Researchers

- Forrest G. Moore, adviser to foreign students, is on a four-month tour of the Far and Near East designed to determine the feasibility and value of continuing the personal and professional bonds forged between overseas alumni and the University.
- Theodore Caplow, professor of sociology, will direct a study of the social consequences of public planning for the government of Puerto Rico during the winter and spring quarters.
- Two Duluth Campus faculty members have been granted one-quarter leaves for research projects supported by the Graduate School. Albert Tezla, associate professor of English, will conduct research on the romantic literature of Hungary, and Lyda C. Belthius, head of geography, will study the geography of lumbering in Minnesota.
- Edward O. Swanson, senior student personnel worker, is serving as a consultant to the Yale University School of Mathematics Study Group.
- Robert J. Keller, director of University High School, has been named director of a statewide study of higher education for the state of Kansas.
- Sterling B. Garrison, field auditor, is serving as technical adviser on administration and finance to the University of the Philippines.
- Dr. Wallace D. Armstrong, head of physiological chemistry, is a member of the National Advisory Committee on the Medical Uses of Isotopes.
- Warren B. Cheston, associate professor of physics, has accepted a Fulbright Fellowship for study at the University of Utrecht.
- Marshall W. Ryman, business manager of athletics, is coaching the 1959 United States Nationals Hockey team.
- Herbert S. Isbin, associate professor of chemical engineering, is studying at the Argonne National Laboratory, Lemont, Illinois.
- Chieh C. Chang, professor of aeronau-

tical engineering, is a consultant to the Los Alamos, New Mexico, Scientific Laboratory.

- Will M. Myers, head of agronomy and plant genetics, is a consultant for the agricultural research programs operated by the Rockefeller Foundation in Latin America and in India.
- Henry W. Riecken, professor of sociology, is program director of the National Science Foundation, Washington, D. C.
- Hidehiko Yamabe, associate professor of mathematics in the Institute of Technology, is serving as a visiting professor at Osaka University, Japan.
- Wayland E. Noland, associate professor of chemistry, is serving as a consultant in petroleum technology to the Sun Oil Company, Marcus Hook, Pa.
- Wilfrid S. Sellars, professor of philosophy, is a visiting professor at Yale University.
- Judith C. Nord, Otter Tail County Home Agent for the Agricultural Extension Service, is in Norway attending a Scandinavian seminar sponsored by the Scandinavian-American Foundation.

Response to Radio, TV Productions

Several programs presented by the Department of Radio and Television Broadcasting during the fall quarter have aroused a great deal of audience interest.

- "Your Novel," a program heard each Monday through Friday at 1:00 p.m. over KUOM is currently featuring *Doctor Zhivago* by Boris Paternak. KUOM's offer of a list of characters to help the audience follow the story drew an unusually large number of mail and phone requests from enthusiastic listeners.
- One University television production which has drawn an exceptionally large mail and phone response is "Invest Intelligently" with Ben B. Sutton, professor of business administration. This program is seen over KTCA-TV on the University of Minnesota Hour each Tuesday at 9:00 P.M.

Theater Notes

- Season ticket sales for University Theater productions have more than doubled in the last five years. During the 1954-55 academic year, season ticket holders made up 33 per cent of the audience. The same group of theater patrons now make up 77 per cent of the audience, an indication of the increasing public interest in these productions.
- The Minnesota Centennial Showboat is spending the winter docked in Minneapolis near the University Heating Plant. The Showboat will be in operation again next summer with a 10-week season of University Theater productions.

The Minnesotan

Sunday Afternoon at Museum Provides Varied Educational Fare for Outdoor Enthusiasts

MAN'S CHANGING TASTES and desires are often closely related to the ways of nature. These desires or fads may even have a detrimental effect upon plant or animal life.

For example, the craze nearly a half-century ago for egret plumes nearly made that species of bird extinct.

A better understanding of plants and animals, their relationships to man, and vice versa, cannot help but benefit all concerned. Contributing to this "better understanding" is the recent emphasis given to the conservation of resources in classrooms and museums all over the country.

The Museum of Natural History on the Minneapolis Campus plays an important role in this phase of education through its 3:00 p.m. free Sunday illustrated lecture programs which have long been teaching the public the "whys" of nature and of conservation.

These programs have become standard Sunday afternoon fare for many Twin Cities residents and other outdoor enthusiasts who drive in from nearby communities like Stillwater, Shakopee, or even Red Wing. Some of these Museum fans have attended the lectures since they were initiated in pre-World War I days.

Donald K. Lewis, Museum audio-visual adviser, recalls attending the programs each Sunday in the 1920's, during his student days at Hamline University in St. Paul. At that time, the lectures were held in the Zoology Building.

Although the "tools" of the program have changed (from hand-crank movie projectors to modern slides, color-sound films, and tape recordings), two things have remained the same: the complexion of the audience and the basic philosophy of the lecture series.

In 1920, as in 1959, the Sunday lecture audience was made up of a wide variety of individuals. Many children attend and enjoy the programs although they are not pre-

sented at a child's intellectual or educational level; many dedicated sportsmen attend, as do business men or housewives with outdoor interests. All, however, wholeheartedly subscribe to the theory that the Museum programs are a venture in natural history education — with an element of entertainment.

Many of these Sunday programs (which extend from early November through mid-April) feature University staff members as speakers. During the current series, Leon C. Snyder, head of horticulture, has described the new Arboretum; Thomas F. Irvine, Jr., associate professor of mechanical engineering, has talked on space research; and William H. Marshall and Lloyd L. Smith, professors of entomology and economic zoology, have discussed game management and water resources. Museum staff members also participate in many of the programs. Walter J. Breckenridge, director of the Museum, has talked about the whooping crane; he has also presented International Salon color photos, and in April, he will speak on "Island Treasure."

Mr. Lewis has presented a program on beavers; Dwain W. Warner, associate professor of zoology and curator of birds at the Museum, has talked on "The Language of Birds." Harvey L. Gunderson and John R. Tester, assistant scientists, have conducted additional Sunday programs.

The programs are colorful, thought-provoking, and above all, educational. Director Breckenridge stresses the "appeal to youth" aspect of the series, for he believes it is vital to encourage an interest in nature and conservation among young children.

Above all, however, the Museum director is anxious to point out that outdoor interests are ideal family interests which encourage more family-centered activities.

Family groups often visit Museum exhibits before or after the Sunday afternoon lectures.



Museum Director Walter J. Breckenridge addresses a near-capacity audience at a recent Sunday afternoon lecture program.





Lynne F. Cherrier, graduate student, and Donald G. Cain, Audio-Visual Education Service production manager, examine an enlargement made from a microfilmed page on the new "Microfilm Reader-Printer." This new photo enlarger makes instant 8½" x 11" prints from 16 mm or 35 mm microfilm for research or study purposes.



Paul D. Glass, student operator, uses the "Copease" photocopying machine to make an exact duplicate of a bound volume page. This new chemical duplicating process provides permanent, non-fading copies of any printed, typed, or hand-written material up to 14" x 17".

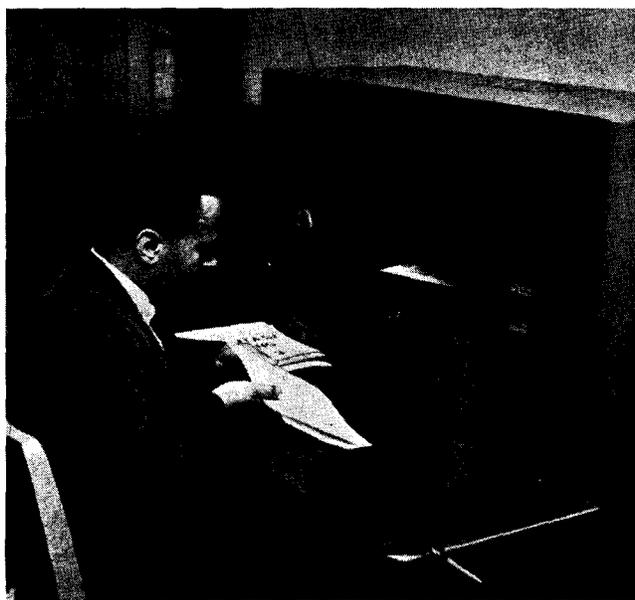
New Instant Copy, Microfilm Services Available to Staff Members, Students

A PARAGRAPH FROM a scientific journal, two pages of notes from a public health lecture, an editorial from an 1865 edition of the *New York Times* — all can now be easily duplicated for any University student or staff member.

Last fall, the Audio-Visual Education Service, in cooperation with the University Library, opened a new instant copy service headquarters in Room 10 of the Minneapolis Campus Library. This service is filling an important University need for quick, inexpensive copies of single sheets or bound pages used for study and research purposes.

The new equipment which make this service possible

Leon Coleman, graduate student, operates the new 16 mm microfilm recorder which puts unbound material up to 11" wide on microfilm. Many University departments find that microfilming is the answer to their storage and filing problems.

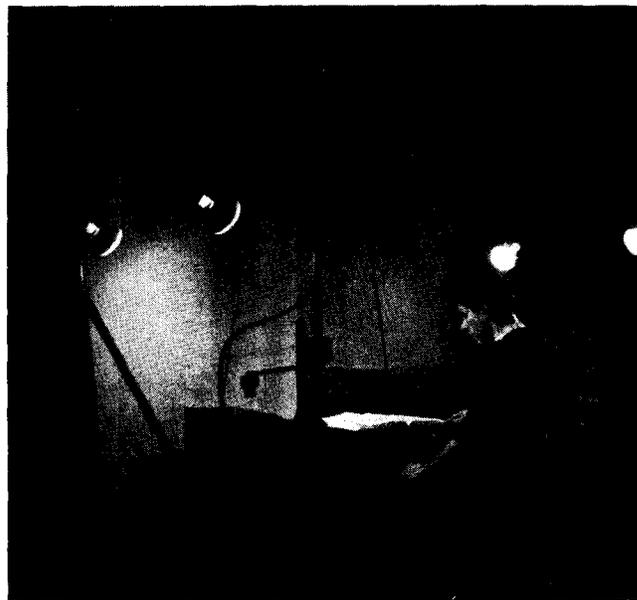


includes two "opaque material" copiers. One is the Thermofax "Premier" Book Copier and the other, the Copease Book Copier which will reproduce material up to 14" x 17".

New microfilm reproducing equipment has also been added in conjunction with this instant copy service which Audio-Visual has integrated with its well-established microfilm service. This new equipment prints instant 8½" x 11" enlargements from either 16 mm or 35 mm microfilm.

These services are available to students and staff members from 11:30 a.m. to 4:00 p.m. Monday through Friday.

Paul Glass uses the large microfilming machine in Room 10, Library, to produce 16 mm or 35 mm microfilm of materials up to 28" wide. Microfilming is often used as a protection against loss or damage to original materials.



THE QUESTION IS:

How Does the University Classify Civil Service Positions?

POLICE SERGEANT, carpenter, glass-blower, electronics mechanic, pharmacist, laboratory animal attendant, millwright, herdsman, sheet metal worker—the list could go on and on, up to 500 individual categories, in fact, for there are that many different kinds of Civil Service positions at the University.

Determining the exact class titles, the class specifications, and the appropriate salary ranges for all Civil Service positions is the responsibility of Lee H. Hart, senior personnel representative, and Charles W. Malmquist and Thomas R. Hawn, personnel representatives, from the classification division of the Office of Civil Service Personnel.

Each of the 4500 Civil Service positions at the University fits under one of eight broad occupational categories: (1) Clerical, Administrative, and Fiscal; (2) Medical, Dental, and Hospital; (3) Scientific; (4) Engineering and Mechanical; (5) Custodial and Food Service; (6) Farm and Forest; (7) Educational and Recreational; and (8) Student Personnel.

Definition of "Classes"

These broad categories are subdivided into the 500 individual "classes." Positions which are assigned to the same class are similar with respect to duties and responsibilities. For example, all food service workers are in the same class, as are all junior scientists and all senior clerk-typists. Some classes include 180 or more staff members (clerk-typists, for example); others are "one-of-a-kind" classes (curator of the University Gallery).

Each of these 500 classes is further subdivided into "series" of positions which are very similar to each other,

but which differ in complexity and in degree of responsibility; clerks, clerk-typists, and senior clerk-typists, for example, are in the same series.

Salary Ranges

Each of the 500 classes is assigned to one of the 45 pay ranges set up by the Office of Civil Service Personnel. Each range represents a four per cent increase above the other.

Once every two years the University participates in a detailed pay survey conducted by the state of Minnesota Civil Service System, by county systems, and by large city systems to obtain current rates of pay for different kinds of work. If this survey indicates that University pay rates are out of line, recommendations will be made for changes. Pay rates for state of Minnesota Civil Service employees are very important, because, by law, the University must pay identical rates in situations where the work is the same.

Positions Are Reviewed

Classification personnel are also concerned with the problem of reviewing the classification of positions from time to time.

There are some common misconceptions concerning reclassification, says Mr. Hart. Some principles most often misunderstood are these: (1) The fact that a staff member has reached the top of his salary range does not call for the reclassification of his position to a higher class; (2) The fact that a staff member has the necessary qualifications for a class at a higher pay range does not automatically mean that his present position will be reclassified; (3) The fact that a staff member has completed a specific number of years of service does not, in itself, mean that the position will be reclassified.

New Classes Are Established

Often, the classification division is faced with the question of establishing a new class. Many of those new classes come about because of new developments in technology, new departmental needs, and, in general, new ways of doing things. (For example, when the University entered the field of educational television, someone was needed to direct television programs.) The department concerned must decide what duties and responsibilities are involved and inform the classification division personnel who write up the class specifications, determine a salary range (through a study of state and industry salaries for similar jobs), and submit the "new class" request to the Civil Service Committee.

Civil Service Committee

This committee is made up of James W. Stephan, associate director of the hospital administration course, chairman; Hedwin C. Anderson, director of Civil Service Personnel, secretary; Ray F. Archer, director of insurance and retirement; Clarence L. Cole, head of dairy husbandry; Henry E. Hartig, professor of electrical engineering, and John G. Turnbull, professor of economics.

If this committee approves the establishment of the new class, it recommends such action to the Vice President of Business Administration and the President for final action by the Board of Regents.

Just as new classes must be established, old ones must be eliminated. Often these, too, are the result of a changing way of life. For example, the "pinsetter" class was eliminated not long ago when automatic pinsetting machines were installed in Coffman Memorial Union.

University of Minnesota Calendar of Events

FEBRUARY, 1959

MINNEAPOLIS SYMPHONY CONCERTS

Subscription Series

Northrop Auditorium, 8:30 p.m.

February 6—*Way of the Cross* by Antal Dorati with the University of Minnesota Chorus and soloists.

February 13—Zino Francescatti, violinist. (Single tickets, \$2.00 to \$4.50. Reservations may be made at 106 Northrop.)*

Special Concert

Northrop Auditorium, 3:30 p.m.

February 8—Van Cliburn, pianist. (All tickets have been sold.)

February 9—Anna Russell, concert comedienne (8:30 p.m.)

(Admission to Symphony Associates only. Memberships for two may be purchased for \$10.00 at 106 Northrop.)

UNIVERSITY ARTISTS COURSE CONCERTS

Masterpiece Series

Northrop Auditorium, 8:30 p.m.

February 18—Artur Rubinstejn, pianist.

Celebrity Series

Northrop Auditorium, 8:30 p.m.

February 3—Andres Segovia, guitarist.

February 28—Robert Shaw Chorale.

Special Concert

Northrop Auditorium, 3:00 p.m.

February 15—Parade of Quartets (Barbershop Quartets and Chorus).

(Single tickets to all University Artists Course Series, \$1.50, \$2.50, \$3.00, \$3.50. Reservations may be made at 105 Northrop.)*

CONVOCATIONS

Northrop Auditorium, 11:30 a.m.

February 5—"The War for the Moon," a lecture by Martin Caidin, editor of *Space Age*.

February 11—The Fiddler Beers, folk singers.

February 19—Winners of the regional Metropolitan Opera auditions.

February 24—Margaret Mead, associate curator of ethnology, American Museum of Natural History, New York.

February 26—Charter Day.

UNIVERSITY THEATER PRODUCTIONS

Regular Productions

Scott Hall Auditorium

February 3-8—*The Scythe and the Sunset* by Denis Johnston.

(February 3-7, 8:30 p.m.; February 8 and 8, 3:30 p.m. Tickets, \$1.50.)

February 26-28—*The Tempest* by William Shakespeare.

(8:30 p.m. Tickets, \$1.50.)

Special Production

Scott Hall Studio Theater

February 11-15—*A Different Drummer* by Gene McKinney.

(February 11-14, 8:30 p.m.; February 15, 3:30 p.m. Tickets, \$1.00.)

(Tickets to all University Theater performances available at Scott Hall Box Office.)

MUSIC DEPARTMENT PROGRAMS Special Productions

February 24—Varsity Band concert.

(Coffman Memorial Union Main Ballroom, 11:30 a.m.)

February 27—Harpisichord recital by Robert Conant.

(Museum of Natural History Auditorium, 8:30 p.m. Because of limited seating facilities, admission will be by ticket only. Tickets may be obtained free of charge from the Music Department, 107 Scott Hall.)

Tuesday Music Hours

Scott Hall Auditorium, 11:30 a.m.

February 3, 10, 17—Music Hour Programs.

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

Monday, 4:00 p.m.—"Book Chats."

Monday-Friday, 1:30 p.m.—"Public Affairs Forum."

Saturday, 3:00 p.m.—Stereophonic music. 4:30 p.m.—"People or Puppets."

SIGNIFICANT UNIVERSITY TELECASTS

Channel 2, KTCA-TV

Monday, 9:00 p.m.—"At Home With Music."

9:30 p.m.—"Advertising, 1959."

Tuesday, 9:00 p.m.—"Invest Intelligently."

9:30 p.m.—"Physics and Space."

Wednesday, 9:00 p.m.—"Russia Today."

9:30 p.m.—"Goethe."

Thursday, 9:00 p.m.—"Current Issues."

9:30 p.m.—"Town and Country."

Friday, 9:00 p.m.—"Architecture is for People."

9:30 p.m.—"Viewpoint."

MUSEUM SUNDAY FILM PROGRAMS

Museum of Natural History Auditorium, 3:00 p.m.

February 1—"Gold and Fur—Lures to Canadian Exploration."

February 8—"The Sport of Homing Pigeon Handling."

February 15—"The Strange Case of Cosmic Rays."

February 22—"Cottontail Rabbit."

UNIVERSITY GALLERY EXHIBITIONS

Through February 23—Paintings and Prints by B. J. O. Nordfeldt.

February 6-27—Symphony Art Project: Young People's Art.

FEBRUARY UNIVERSITY OF MINNESOTA PRESS PUBLICATION
Price Discrimination in Property and Liability Insurance by C. Arthur Williams, Jr., \$2.50.

ATHLETIC DEPARTMENT EVENTS

Home Basketball Games

Williams Arena, 8:00 p.m.

February 14—Indiana.

February 23—Northwestern.

(Single game reserved tickets, \$2.00. 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.

February 6 and 7—Colorado College.

February 27 and 28—Michigan.

(Single game reserved tickets, \$1.75. General admission tickets at \$1.00 for adults and \$.60 for individuals under 16 on sale at gate only.)

(Over-the-counter ticket sales for hockey and basketball games begin at 108 Cooke Hall the Monday before each game. Mail order sales close one week prior to each game.)

Home Swimming Meets

Cooke Hall

February 6—Iowa (8:30 p.m.).

February 7—Wisconsin (3:30 p.m.).

February 20—Iowa State College (7:30 p.m.).

February 21—Northwestern (3:30 p.m.).

February 26—Nebraska (8:00 p.m.).

Home Track Meets

Field House, 2:00 p.m.

February 7—Northwestern.

February 14—Northwest Open Track Meet.

Wrestling

Williams Arena, 2:00 p.m.

February 7—Wisconsin.

February 26—Carleton.

Gymnastics

Cooke Hall

February 7—Iowa and Ohio State (1:00 p.m.).

February 21—Michigan State and Navy Pier (1:30 p.m.).

February 28—Northwest Open Meet and Southern Illinois University (all day).

(Tickets for gymnastics, wrestling, track, and swimming events 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.

**Tickets for these events are also available at the St. Paul and Minneapolis ticket offices on Monday of the week prior to the performance.

THE MINNESOTAN

The University Staff Magazine

-

March, 1959

An Act to Incorporate the
University of Minnesota at
the Falls of St. Anthony.

Be it enacted by the Legislature Assembly of the
Territory of Minnesota:

Section I. That there shall be established in the
Territory an institution under the name and
style of the University of Minnesota.

Section II. The proceeds of all lands that may
hereafter be granted by the United States to the Territory
for the support of a University shall be set apart
to constitute a perpetual fund, to be called the
"University Fund," the interest of which shall
be appropriated to the support of a University,
and no sectarian instruction shall be allowed
in said University.

Section III. The object of the University shall be
to provide the inhabitants of the Territory with
the means of acquiring a thorough knowledge
of the various branches of literature, science and
the Arts.

Section IV. The Government of the University
shall be vested in a Board of twelve Regents, who
shall be elected by the Legislature as hereinafter
provided.

Section V. The Members of the Board of Regents
shall be elected at the present Session of the
Legislature, and shall be divided into three
classes, the first, second and third; the first class
shall hold their office for two years, the second
class for four years, and the third class
for six years, the first Monday of February

Approved - February twenty fifth
One thousand eight hundred and
fifty one

Wm. Ramsey

Charter Day • February 25, 1851

They Made Us Great



LEFT: Arthur W. Anderson speaks at the dedication dinner of the new fifth floor addition to the Variety Club Heart Hospital. The new floor, which was named in honor of Mr. Anderson, will be devoted to research in the field of heart ailments.

RIGHT: President J. L. Morrill presents a special Citation to the Variety Club of the Northwest. Accepting is Joseph M. Podoloff, chief barker of the Club. Charles W. Winchell, master of ceremonies for the dinner, is pictured in the foreground.

“**W**ITH UNDERSTANDING and generous hearts of their own [they] have dedicated themselves to the building of happier, healthier hearts of others.”

Thus the University of Minnesota cited the barkers “and their ladies” of the Variety Club of the Northwest at the January 12 dedication dinner for the new fifth floor addition to the Variety Club Heart Hospital.

The new floor, another remarkable example of Variety Club dedication and service, is named the “Arthur W. Anderson Floor” in honor of the man who spearheaded early campaign and construction plans. Mr. Anderson, who is branch manager of the Minneapolis office of Warner Brothers Distributing Corporation, was the Variety Club’s chief barker in 1945 when the idea for the hospital was born. He served in the same capacity in 1946, in 1950, and in 1951 when the hospital was dedicated. He was also chairman of the Variety Club Heart Hospital Committee from 1945 to 1955.

Arthur Anderson and his fellow barkers have poured tremendous energy and spirit into the building of this now world-renowned hospital. Each time the Variety Club set a goal for itself, it exceeded that goal. The members of this organization of people in show business have consistently followed the “show must go on” tradition of their profession—adding new equipment, new facilities, and now, a new floor.

Funds for building and equipping the Arthur W. Anderson floor, which will be devoted to heart disease research, totaled \$530,658, with \$250,000 from the Variety Club of the Northwest, \$229,321 from the U.S. Public Health Service, and \$51,337 from private sources.

Just 14 years ago the idea for this gigantic project was born—to build the first hospital in the nation devoted exclusively to diseases of the heart. This idea was developed and furthered by the late Chief Barker Al Steffes who, unfortunately, did not live to see the fulfillment of his dream.

Between 1945 and 1948 the Club raised \$300,000 with which to begin construction.

During the next three years it raised an additional \$160,000, with a pledge to raise \$25,000 each year for the support of the Hospital. This pledge has been more than kept by the devoted barkers, by their ladies, and by their thousands of friends and supporters.

On the cover . . .

One hundred and eight years ago last month, Alexander Ramsey, the first territorial governor of Minnesota, signed “the act to incorporate the University of Minnesota at the Falls of St. Anthony.”

In February, 1851, Minnesota had been a territory for only two years. Most of it still belonged to the Indians, and the frontier village of St. Anthony was described as their center for “gaming, dancing, and drumming.” Yet, despite formidable obstacles, the fathers of the University of Minnesota stubbornly persisted in founding an institution that, in their words, “would put Harvard in the shade.”

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Photo courtesy Reserve Mining Company.

Silver Bay, a community of approximately 5,000 people, is situated among the birch and pine trees of northern Minnesota. It is one of three towns created by the taconite industry.

Taconite Studies Brighten Economic Outlook for State

FIFTY MILES NORTH of Duluth, on Minnesota's scenic North Shore Drive, is the thriving community of Silver Bay. Located in an area which only a few years ago was covered by birch and pine, this community of approximately 5,000 people is one of three towns which has been added to the map of Minnesota since 1950 as a result of the infant taconite industry.

In addition to the new towns of Babbitt, Hoyt Lakes, and Silver Bay, the taconite industry has created more than 5,000 new jobs and con-

sequently brightened the economic outlook for the entire state.

The story of taconite, from its discovery in 1872 when the University was just 21 years of age, to its present role as a significant part of the iron mining industry, is a story of University service to its state.

The 100-mile-long iron range in northern Minnesota was named the "Mesabi" or "Giants' Range" by the early Indian tribes. For the better part of a half century, the Mesabi, along with the Vermilion and Cuyuna Iron Ranges, was truly a giant in the iron mining industry.

Ore Reserves Depleted

During the early years of mining in Minnesota, only high grade ores — those which could be scooped from the huge open pits and shipped directly to the steel mills and those requiring relatively simple treatment, such as the removal of fine sand by washing — were utilized.

Two world wars and an expanding industrial economy increased the demand for iron ore, so that today Minnesota's reserves of high grade ore are rapidly diminishing. Of the estimated three billion tons of high

(Continued on page four)

(Continued from page three)

grade and easily treated iron ore originally available, 2.4 billion tons have already been mined and shipped.

The communities of the iron ranges face the possibility of a bleak future, a future in which the huge shovels may stand idle; the railroad tracks may lie unused; and the open pits may serve only as reminders of past, more opulent days.

Taconite Brightens Future

The hopes for the future of iron mining in Minnesota rest on taconite, a low grade ore which was once considered useless rock. As a result of the long years of devoted study and research by the staff of the Mines Experiment Station, taconite, the ore from which deposits of high grade ore were formed by nature, can now be processed by man. Where nature took millions of years to make useless taconite into useful ore, men and machinery can now complete the process in a few days.

The story of the University and taconite began in 1912 when a University Regent, John G. Williams of Duluth, sent a sample of taconite to the then one-year-old Mines Experiment Station on the Minneapolis Campus.

Edward W. Davis, now professor emeritus of mines and metallurgy, then an instructor in mathematics, became interested in the taconite studies. In 1918 Professor Davis was named superintendent of the station,

and in 1939 he became director. Until his retirement in 1955, the taconite studies were conducted under his direction.

Taconite may be divided roughly into three types—the magnetic, the mixed, and the nonmagnetic. Work at the University was originally concentrated on the magnetic type.

Iron Content Low

Taconite, as it occurs in nature, normally contains 25 to 30 per cent iron in the form of oxide. The balance is largely silica. For this material to be usable, the silica content must be reduced to about eight per cent. This means that for each ton of usable ore, about three tons must be mined, crushed, and concentrated, the siliceous waste material discarded, and the iron-bearing material recovered.

In magnetic taconite, a large portion of the iron is present as the mineral magnetite. University studies showed that this iron could be separated from the useless part of the pulverized rock by strong magnets. The taconite rock is first crushed into fragments smaller than $\frac{3}{4}$ inch and then ground in water to a muddy pulp. Next, it is passed through a magnetic separator, and pieces of rock with little or no magnetic iron are discarded. The magnetic pulp—or taconite concentrate—is rolled into small, round pellets which are then hardened by burning. The finished product contains 62.5 per cent iron.

Process Now In Use

It is this process which is used by the Minnesota taconite industry. Two huge processing plants—one at Silver Bay, owned by the Reserve Mining Company, and one at Hoyt Lakes, owned by the Erie Mining Company—are now in operation. Also, the Oliver Iron Mining Division of the United States Steel Corporation operates experimental plants at Mountain Iron and at Virginia.

It is estimated that there may be roughly 5.5 billion tons of magnetic taconite relatively close to the surface now available on the Mesabi Range. From this material, somewhat more than 1.5 billion tons of concentrate could be produced.

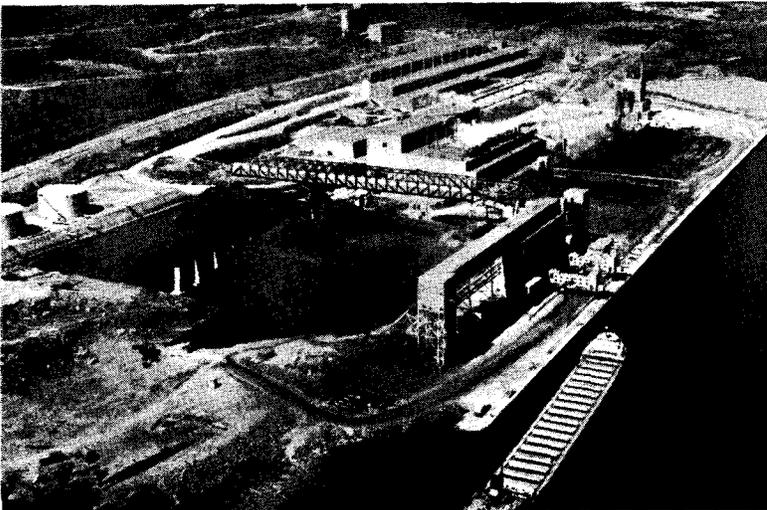
Professor Davis now lives in a home in Silver Bay overlooking one of the taconite plants which was named, in his honor, the "E. W. Davis Works." His position as director of the Mines Experiment Station has been taken by Henry H. Wade, a member of the Experiment Station staff since 1915.

The complete staff includes 32 men and women who, through their many varied positions, have contributed significantly to the accomplishments of the Station.

Staff members, in addition to Mr. Wade, are: Harold H. Christoph and William D. Trethewey, scientists; Allan H. Morrish, associate professor of electrical engineering; Norman F. Schulz and James R. N. Gunderson,

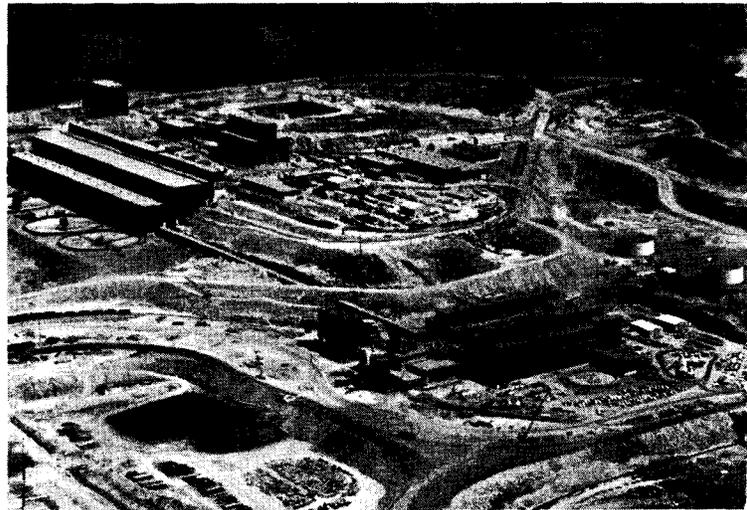
The Reserve Mining Company taconite plant on the shores of Lake Superior was named the "E. W. Davis Works" in honor of Professor Emeritus Edward W. Davis, former director of the Mines Experiment Station, who headed the taconite studies from 1918 until his retirement in 1955.

Photo courtesy Reserve Mining Company.



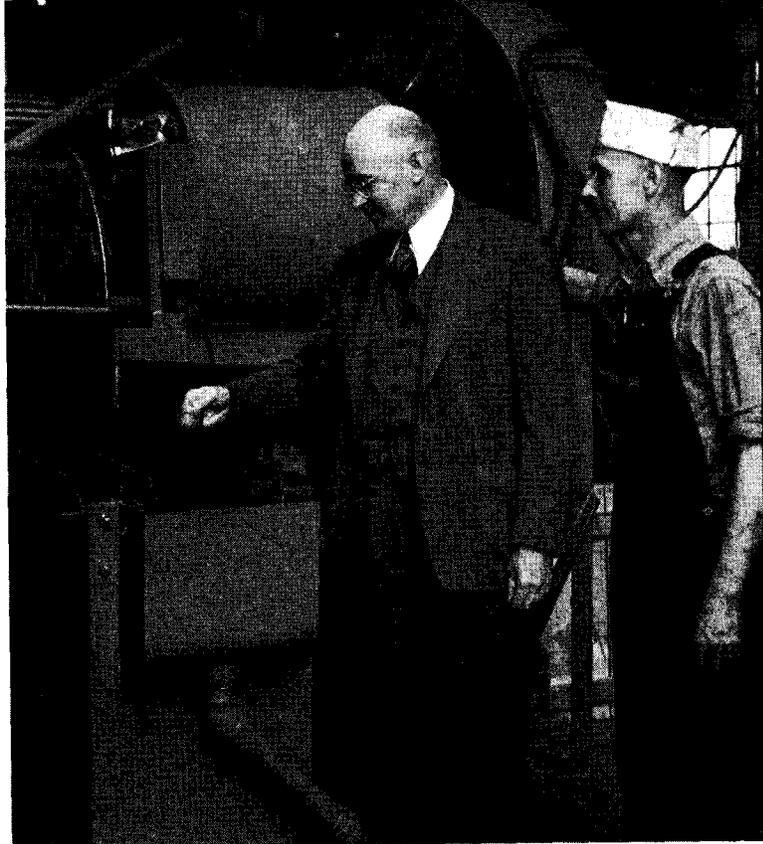
The Erie Mining Company owns and operates this taconite plant at Hoyt Lakes, Minn. Taconite pellets produced here are shipped to Taconite Harbor on Lake Superior, and from there, to the nation's steel mills.

Photo courtesy Pickands Mather and Company.





ABOVE: The balling disk in the Mines Experiment Station shapes wet taconite concentrate into pellets.



RIGHT: Henry H. Wade, director of the Mines Experiment Station, and Clarence H. Nelson, millwright, check the operation of the magnetic separator, the machine which extracts the magnetic iron from the taconite ore.

research associates; Iwao Iwasaki, assistant professor of mines and metallurgy; Harvey F. Prochnow and Henry A. Lex, junior engineers; Vernon E. Bye, chemical engineer; Janis Ozolins and Frank L. Lozar, laboratory technologists; Lynn A. K. Watt, Charles A. Beckman, and Rodney L. Bleifuss, research fellows; John P. Hanton, research assistant; and Sam Eng, senior laboratory machinist.

Also: Clarence H. Nelson, millwright; Russell L. Olson, and Harold E. Beier, ores samplers; Engel H. Prins, Carl G. Anderson, and Paul Markow, general mechanics; Mildred R. Alm, editorial assistant; Mabelle B. Anderson, senior secretary; Caroline R. Kruszka, laboratory technical assistant; Henry A. Boettcher, John C. Bolander, Lyle R. Dryll, Walter E. Hanson, and Albin Markuson, utility men; and A. Ross Miller, senior laboratory attendant.

Currently, the staff is working on the problem of converting nonmagnetic iron minerals to magnetite.

It is known that the quantity of nonmagnetic taconite on the Mesabi Range is very large. If the means for treating this material are provided, the reserves are sufficient to sustain a

high level of production for many generations.

During the 1930's, a great deal of work was done on this problem. A small pilot plant was erected on the Mesabi Range and operated for five summers. Information collected indicated that treatment of nonmagnetic taconite might someday be possible.

The Station's work on nonmagnetic taconite was greatly stimulated in 1957 by a research grant from the Great Northern Railway. This company, visualizing a future decrease in shipments of the normal type of iron ore from the Mesabi, is interested in encouraging the utilization of low grade materials. Its grant, together with appropriations made by the state legislature, is making further studies possible in this field.

Heat Treatment Successful

Studies conducted by the Experiment Station staff have shown that it is possible, by heat treatment, to convert the iron oxide minerals in nonmagnetic taconite to magnetite. The roasted taconite can then be treated by the processes that have been worked out for the magnetic taconites. The metallurgical and mechanical problems yet to be solved are

many, but even now, methods exist for the satisfactory treatment of some of the nonmagnetic taconites.

Minnesota Ores Face Competition

Minnesota ores are now facing keen competition from high grade ores which have been developed in foreign countries. The situation is such that future large-scale development can be made either in Minnesota or in any of a number of foreign locations.

Mr. Wade, in a recent article written for the *Duluth News-Tribune*, listed the following factors which favor the establishment of plants in Minnesota:

"1. Minnesota reserves of raw materials are large enough to assure a long operating life for a considerable number of plants;

"2. The reserves are of such a type that high quality concentrate can be produced to meet the specifications of the ore consumers;

"3. The reserves and the plants will be located within the borders of the United States where they will not be subject to the uncertain policies of foreign governments or to the dangers of wartime ocean travel;

(Continued on page six)

(Continued from page five)

"4. Minnesotans have had experience in building and in operating mines and plants of the general type that will be required ;

"5. Two large magnetic taconite plants now in operation have demonstrated the feasibility of treating this type of material ;

"6. Iron mining communities from which skilled workmen can be recruited, and where housing, stores, and schools are established and equipped with all the necessary utilities exist in the state ;

"7. Transportation facilities are unusually good."

If methods for treating nonmagnetic taconite can be developed, Minnesota's chances for future iron mining development will be further enhanced. Perhaps someday the work of the University's Mines Experiment Station will lead to the building of additional new communities and will enable the Mesabi Iron Range to continue as a giant of the mining industry.

"Pilotac," the Oliver Iron Mining Division's experimental taconite plant near Mountain Iron, Minn., can produce 500,000 tons of taconite concentrate annually. Shown here are rod and ball mills which pulverize the tough taconite rock to the fineness of flour.

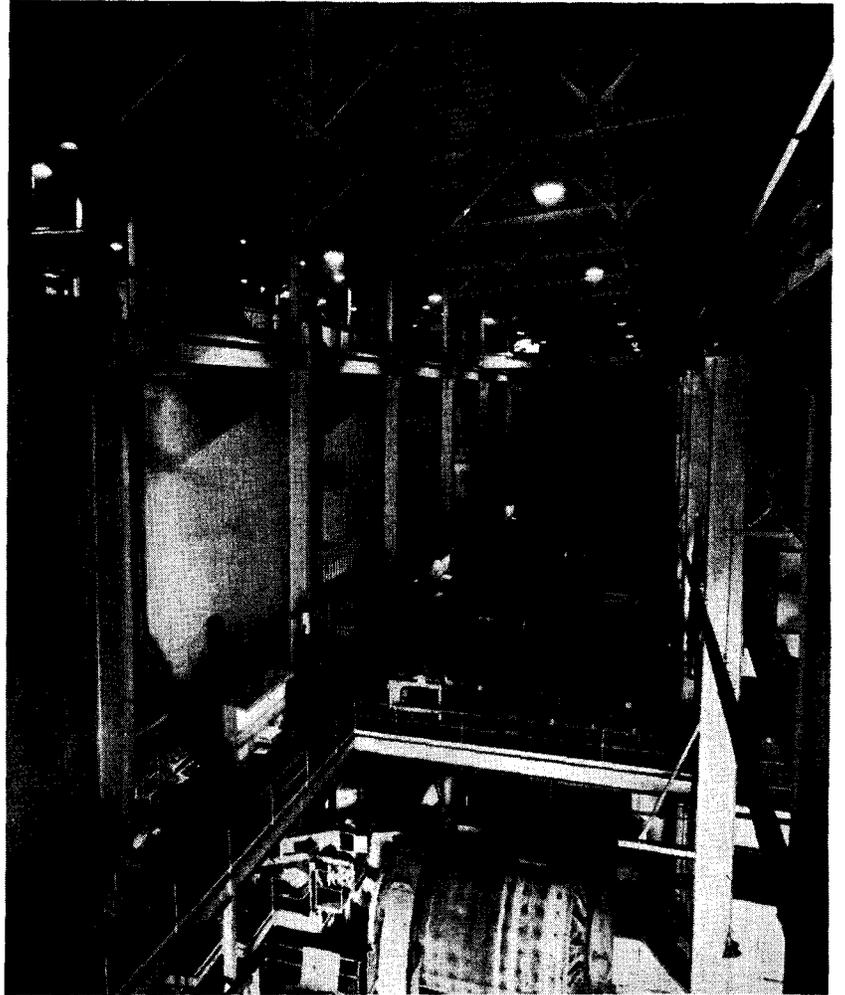
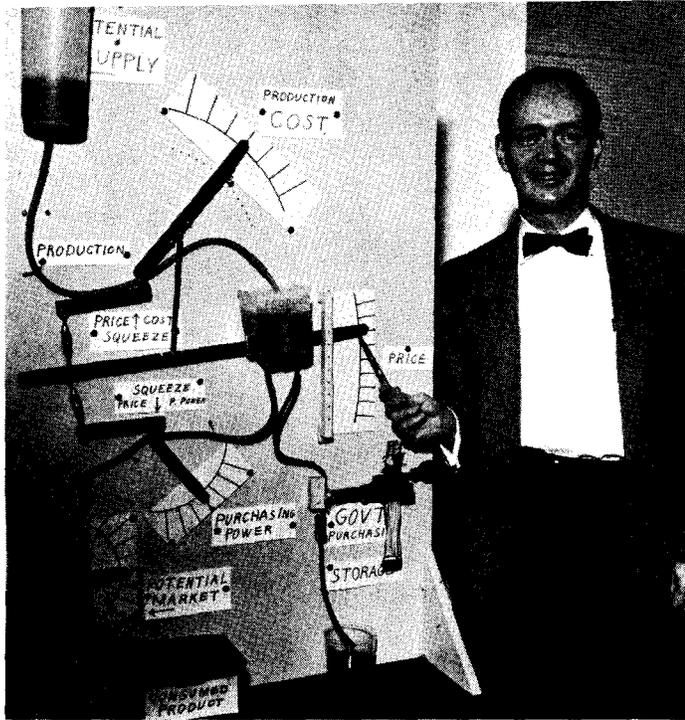


Photo courtesy Oliver Iron Mining Division.

Scene of many of the taconite studies, the Mines Experiment Station of the School of Mines and Metallurgy is located on the East River Road on the Minneapolis Campus.





Luther J. Pickrel, Agricultural Extension economist, uses this mechanism at many Farm-City Forums to demonstrate how various factors affect prices.

Forums Promote Understanding Of Farm-City Problems

- How do tight money policies affect farmers and small town businessmen?
- What is the future of family farms?
- How do marketing margins affect farm income?
- What does foreign trade mean to rural communities in Minnesota?

THESE QUESTIONS, which are of great importance to farmers and townspeople throughout Minnesota, are typical of the topics discussed at a Farm-City Forum.

The series of Farm-City Forums, sponsored by the Agricultural Extension Service in cooperation with local citizen-groups, is playing an important role in an improved understanding of farm-city problems.

Luther J. Pickrel, Agricultural Extension economist, initiated the Forums in response to a growing number of requests from civic organizations and individuals for reliable information on the agricultural situation and on the strengths and weak-

nesses of current and proposed agricultural programs.

Open Discussion Meetings

Each meeting brings rural and urban groups together for open discussion. Also present are one or more speakers who may be specialists in any number of fields—political science, home economics and family life, economics, agricultural economics, or sociology.

The University provides many of these speakers; others have come from the U.S. Department of Agriculture, the State Department, and other agencies and organizations.

University staff members who have participated include: Sherwood O. Berg, head of agricultural economics; William C. Rogers, director of the State Organization Service; Barbara J. Stuhler, program coordinator for the State Organization Service; Philip M. Raup, professor of agricultural economics, and Dorothy Simmons, state home economics leader.

The Nobles County Forum, held at Worthington last winter, is an example of a typical program. Plans

for the meeting began when local farm and civic leaders asked Nobles County Agricultural Agent Ross L. Huntsinger to set up a forum. He, Mr. Pickrel, and a group of local citizens organized the meeting. Topics covered included taxation, ways to improve family living, the farmer's stake in a stable economy, and the effect of foreign policy and trade on Minnesota agriculture.

After the meeting, the *Worthington Globe* commented: "Those who were there came with a host of new ideas and the challenge of a stimulating discussion between the out-of-town experts and the audience. . . . Although the Forum didn't intend to solve any of the contemporary problems facing our farm economy, it most certainly did perform an enlightening, informative purpose."

Attendance Figures

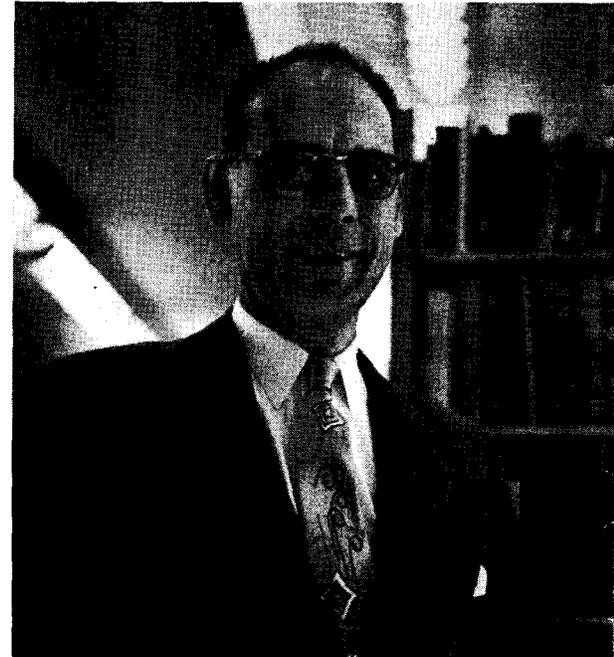
Nearly 15,000 people have attended these forums since the program was inaugurated two years ago. Thirty meetings were held in 1956-57, and approximately 25 in 1957-59. Each was tailored to fit the needs of the specific community.



Clarence J. Gunther

Clarence J. Gunther is animal experimental surgery supervisor in the Department of Surgery. Mr. Gunther, who is a native of Minneapolis, has been at the University since 1949.

HAVE YOU MET?



H. Donald Ferris

H. Donald Ferris, a native of Allentown, Pa., is agriculture librarian on the St. Paul Campus. Mr. Ferris received his master's degree in library science from Florida State University.

Wilma G. Monserud

The detailed illustrations which are used in manuals and papers published by the Department of Botany are drawn by Wilma G. Monserud, artist. A skilled photographer, Miss Monserud takes the photographs from which she sketches her drawings and those from which slides are made to illustrate lectures.



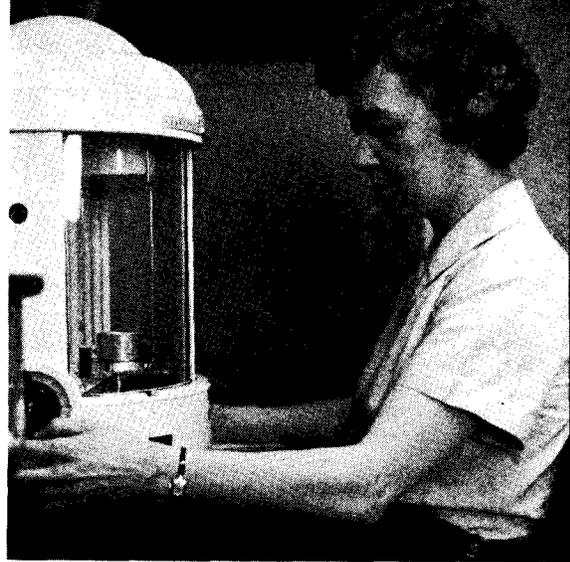
Ethel K. Sullivan

The approximately 8,000 freshmen and sophomores who use the Johnston Hall Library at some time during the year keep Senior Librarian Ethel K. Sullivan busy. Miss Sullivan, who has been in library work at the University since 1943, has held her present position since 1954.



Lucille W. Gomez

Lucille W. Gomez has been laboratory technologist in the School of Home Economics on the St. Paul Campus since 1937. A graduate of the College of St. Catherine, Mrs. Gomez worked at Ancker and St. Mary's Hospitals and at General Mills before joining the University staff.



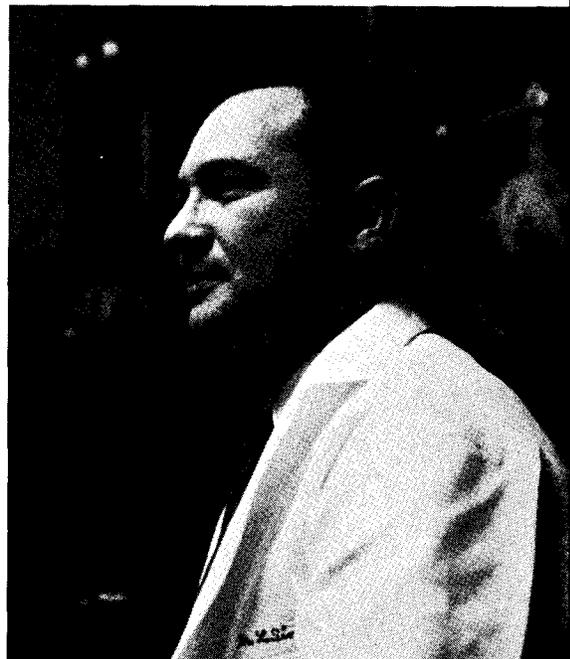
Gerhard Neubeck

An authority on family life counseling, Assistant Professor Neubeck is chairman of the family life program in the Department of Interdisciplinary Studies.



Leon Singer

Leon Singer, associate professor of physiological chemistry, is president of the Minnesota section of the International Association for Dental Research. Currently, Professor Singer and his research staff are investigating fluoride and its relation to good dental health.



Mildred A. Crowley

Mildred A. Crowley is secretary to Chester W. Wood, director of the Office of Student Personnel Services on the Duluth Campus. Mrs. Crowley began her secretarial career with the State Department in Washington, D.C.

March, 1959



Scores of Staff Members Aid in Saving Chemistry Building

**Physical Plant, Protection and Safety, Chemistry Personnel
Work "Around-the-Clock" to Fight Last Month's \$400,000 Fire**

STAFF MEMBERS just starting their day in Minneapolis Campus classrooms, offices, and laboratories on Wednesday, February 4, were startled by the sound of sirens screaming across the Campus about 8:15 a.m. The four-alarm fire which brought 14 pieces of fire equipment to the Chemistry Building was "under control" three hours later as far as fire department personnel were concerned, but a gigantic job for hundreds of University staff members was just beginning.

The next 48 hours proved what man and machines can do in restoring to almost full use a severely damaged building filled with valuable equipment. To quote from a letter Bryce Crawford, Jr., chairman of chemistry, wrote to Physical Plant personnel a few days after the fire . . . "None of us expected that so large a beginning could be made so quickly." Professor Crawford also expressed his appreciation to Physical Plant staff members "for the fast help they brought us in our emergency and for the thoroughness and care they showed in carrying out this job."

Fire Starts in Sub-Basement

The event which precipitated the fire happened in the sub-basement of the building when Michael R. Coscio, Jr., Minneapolis IT student and part-time laboratory technician, was pouring the inflammable fluid benzene from a 50-gallon drum into a one-liter glass bottle. Suddenly, static electricity ignited the benzene, burning Mr. Coscio's hands. He immediately closed the heavy vault or "cold room" door to keep the flames from spreading, called the Minneapolis Fire Department, and then hurried to University Hospitals for treatment.

Flames swept up the ventilator of the building to the roof, scattering smaller fires on the second and third floors. The top floor (the fourth) was heavily damaged by smoke. Clouds of smoke from the basement and first floor forced the evacuation of about 400 individuals.

Students and faculty members went into action quickly to save equipment, experiments, and most important, human lives.

Stuart W. Fenton, associate chairman of chemistry, praised the prompt action of many of these individuals,

particularly singling out Mr. Coscio and Paul Tombouljian, research fellow in organic chemistry, who removed canisters of highly inflammable solvents from the third floor stock room and those staff members and students who worked "bucket brigade" style to remove solvents from the ground floor stockroom.

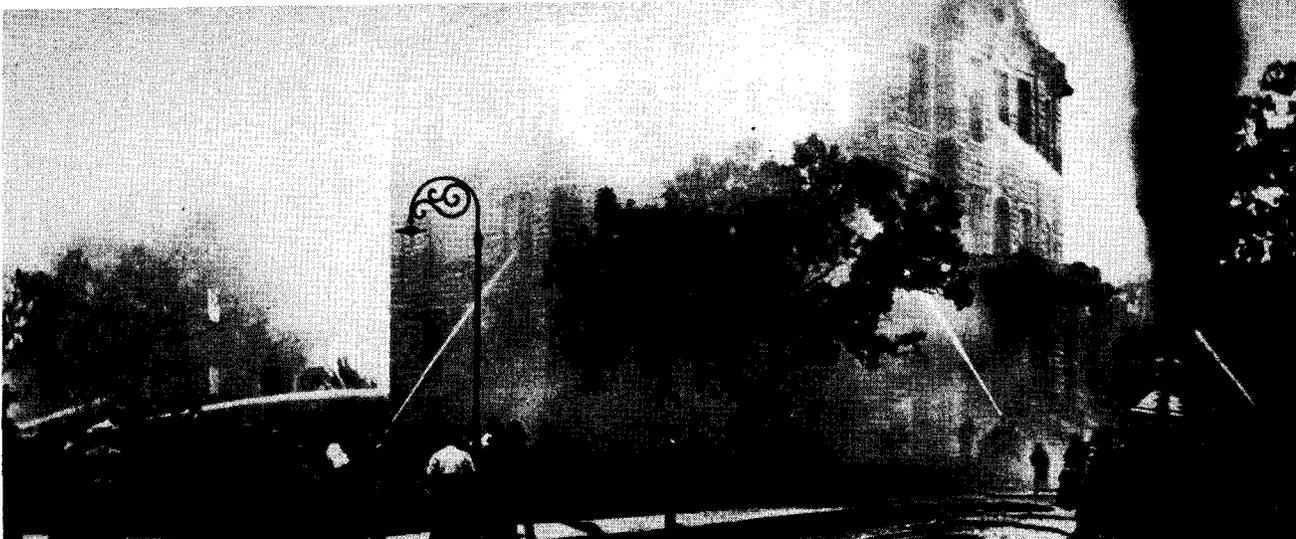
Custodial Personnel Report for Duty

The Physical Plant staff went into action shortly after noon. About 11:00 a.m., when the fire seemed

BELOW: Pictured are three of the firemen called to the scene of the February 4 fire which caused nearly \$400,000 damage to the Chemistry Building.

Photo courtesy The Minnesota Daily.





Fifty-five years ago University staff members helped fight the fire which swept Old Main.

pretty well under control, Joseph P. Leverone, custodial and grounds superintendent, and Ray Hutchins, senior custodial supervisor, contacted the eight building caretakers who are specifically in charge of the work assignments of custodial personnel in each Minneapolis Campus building.

After these eight men (Arthur E. Carlson, Edward Fyksen, Robert E. Johnson, John Leo, Peter Mickelsen, Fudge J. Moschini, Oscar Rosen, and Leslie Stenseth) were told about the fire, they, in turn, alerted the approximately 50 members of the custodial staff who usually work between the hours of 2:00 p.m. and 10:00 p.m. getting all Minneapolis Campus buildings in good order for the following day. Every one of these men reported to the Chemistry Building instead on the afternoon of February 4 (explaining why staff members found full wastebaskets in their offices the next day).

Classrooms Cleaned

Teams of men went into action cleaning classrooms thoroughly with a mixed solution of detergent and water applied with a spraying apparatus. Earlier in the afternoon, Mr. Hutchins and Ernest Asp, senior custodial supervisor, had collected pails and spray machines from every building on the Campus. They had also purchased over 500 cleaning rags especially for the mammoth clean-up job.

The Minneapolis custodial crew (with the help of three St. Paul Cam-

pus staff members: Theodore Maanum, senior custodial supervisor, and Arnold A. Peterson and Fred Wenzel, senior building caretakers) under the direction of Roy V. Lund, supervising engineer, Harry L. Wilson, assistant supervising engineer, and Eugene E. Heglund and Jerome L. Tauer, maintenance supervisors, had the building almost free from soot by 10:20 p.m. Wednesday.

Repair Crews

But Thursday brought another challenge. Although the clean-up job was complete, a tremendous repair job remained. Additional Physical Plant staff members, plus many of the same supervisory personnel who had worked long hours the day before, moved into the Chemistry Building early Thursday morning to fix ventilators, broken windows, wiring, and plumbing. Engineers, steam fitters, sheet metal workers, roofers, and refrigeration and ventilating experts were needed to put the building back into working order.

This repair crew worked under the direction of Leslie L. Wood, assistant supervising engineer; Eugene N. Turnberg, general construction section head; Ludwig J. Maday, construction superintendent; Ralph J. Krasky, junior engineer; David B. Kerkow, electrical section head; Elmer J. Mangney and Edward Ehlenz, engineers; Hubert J. Thibodeau, senior engineering assistant; Evan B. Merz, mechanical section head; John W. Farmer, senior engineer; Arthur

E. Lundberg, acting shops superintendent; Robert M. Bjerken, steam-fitting foreman; Alvin A. Olson, plumbing foreman; James H. Gallison, acting electrical foreman; Fred A. Conrad, construction foreman; Alfred E. Laurence, general mechanic foreman; and Edward Pavek, refrigeration foreman.

Protection and Safety Personnel

From the time the fire started on Wednesday — all through the day and night — and all through the following days of building repair, Protection and Safety personnel were responsible for guarding each entrance to the damaged building, allowing only authorized persons to enter. C. B. Hanscom, director, and Andrew R. Vernes, assistant director of protection and safety, directed the work of William A. House and Robert C. Gould, patrolmen, and Darrold E. Telle, Donald L. Wiebe, Claude Jarvis, Phillip A. Sutherland, Charles A. Beckerleg, Donald R. Banham, and Ralph C. Burbach, roundsmen.

A complete roster of switchboard operators, clerk-typists, and secretaries, and many more could be added to the long list of staff members who did their jobs so well that all Chemistry Building classrooms were in use the following Monday. Some laboratories were put into operation on Tuesday, and some of the others opened later in the week — an amazing recovery for a building damaged by what some estimate to be a \$400,000 fire.



The Committee on Relationships with Prospective Students reviews each brochure before publication and assists with details of editing and printing. Members pictured are: Elmer W. Johnson, assistant dean of the Institute of Technology; Austin A. Dowell, assistant dean of the Institute of Agriculture; Eleanor M. Salisbury, assistant to the Dean of the General Extension Division; Secretary and Ex-officio member Theodore E. Kellogg, admissions officer; Chairman R. E. Summers, dean of Admissions and Records; Russell M. Cooper, assistant dean of the College of Science, Literature, and the Arts; Merrill P. Rassweiler, professor in the General College; Willis E. Dugan, professor of education, and Martin L. Snoke, assistant to the Dean of Students.

Brochures Describe University Programs

WHETHER HE PLANS to teach or study the stars, the college-bound Minnesota high school student may learn more about his preferred field of study from a series of brochures published by the University.

The brochures tell prospective students of the educational opportunities available to them in specific fields at the University. The future forester learns that the forest will be his laboratory at the Forest Research Center at Cloquet and at the Itasca Forestry and Biological Station, and the girl who wishes to study music as well as home economics discovers that as a University student she may do both.

The brochures, which eventually should cover most broad areas of study which admit undergraduates, are not intended to persuade students to enter any particular field or department, but to help them in making wise program choices. A typical brochure describes the general program at the University, with references to desirable preparatory work. Because most of these brochures stress the value of a liberal education, in many instances the information crosses departmental lines.

Faculty members take the initiative in preparing the individual brochures. The publications are similar in appearance so that they are readily identifiable as University material. Preliminary copy, photographs, and layouts are submitted to the Committee on Relationships with Pros-

pective Students, a subcommittee of the Senate Committee on Institutional Relationships.

Committee members, in addition to those pictured above, are: Isaac J. Armstrong, director of physical education for men; Thomas W. Chamberlin, academic dean at Duluth; Edwin L. Haislet, director of Alumni Relations; Ruth Harrington, assistant director of the School of Nursing; William L. Nunn, director of University Relations; Ralph G. Nichols, professor of rhetoric, and Ruth Palmer, head of home economics at Duluth. Robert J. Keller, director of University High School, serves in an advisory capacity.

Brochures published to date cover the following fields: Home Economics, Agriculture, Forestry, Journalism, Librarianship, Cooperative Engineering, Teaching, Pharmacy, Mathematics, Nursing, and Physical Sciences. An Industrial Engineering brochure will be published soon, and others on Architecture and on Liberal Education are in process.

The brochures are distributed to state high school principals and counselors, to interested University departments, and to professional societies. They, in turn, distribute them to students. The many requests for additional brochures testify to their effectiveness as valuable counseling tools. Any interested individual can get copies of specific brochures by sending a request to the Office of Admissions and Records, Administration Building, Minneapolis Campus.

Have You Heard?



Campus Club Manager Dale Shephard

Staff Courtesies Applauded

• The following item is taken from the "Count Down" column written by the editor of the Benson, Minn., *Swift County News*.

"Last Saturday Dave Breen, Roy Holmquist, and I saw the hockey match between the American Nationals and the Russian team at Williams Arena, University of Minnesota. Even though the Soviet squad had a wide edge over our team, it was an interesting, exciting experience.

"About 11:00 a.m. Roy and I decided to show Dave (a displaced South Dakotan) the U of M Campus. It must have been about five below zero, and after about 10 minutes of loping about, we headed for the Coffman Memorial Union to have a bite to eat before going to the Arena. Picture, if you will, three half-frozen, hungry Bensonites finding the doors of the Union locked, with the exception of a side entrance with a sign on the door reading "Campus Club Members." We walked in and met a custodian who told us there was a meal being served on the fourth floor, whereupon we ascended to floor four in the elevator.

"There a man named Dale Shephard met us, and we were informed this was the Campus Club area. We explained we were looking for a place to eat before the hockey game. Now, the Campus Club is made up of faculty members at the University, and is, naturally, quite exclusive, but, instead of sending us away with an airy wave of his hand, which is what a person has come to expect, Mr. Shephard invited us to eat at the Club. We had a

March, 1959



Stage Custodian Arthur Ernest

wonderful meal, surrounded by some of the top brains in the state and nation.

"This was the second unusually gratifying experience we had at the U. In our tour of the Campus, we went in the stage door of Northrop Auditorium. No one was around, so we walked out on the stage and looked out over the darkened footlights at the beautiful seating area. As we were about to leave, we heard someone coming. Experience has taught most of us to be on the defensive in such a situation, and each of us prepared for a smart remark. The man we heard coming [Arthur Ernest, stage custodian] asked if we would like him to turn on the lights so we could see better.

"These were both wonderful experiences, for most persons in the nation have come to expect surliness, hostility, and rudeness in big cities or large bureaucratic-type institutions or organizations. Instead, we found a courtesy and friendliness seldom matched anywhere."

New Graduate Programs in Business

There are three new graduate programs in the School of Business Administration:

1. The Master of Business Administration program is designed to prepare the business school graduate, the arts college graduate, and the technically trained graduate for general management positions;

2. The Master of Science in Business Administration program is designed to give specialized training for staff positions in business and for government positions. The

following fields of concentration are offered: accounting, finance, industrial relations, insurance, management, marketing, statistics, and transportation.

3. The Doctoral Program in Business Administration is for students who are preparing for academic positions, for staff positions in business, or for government work at advanced levels.

IT Establishes Certificate in Science

• A Certificate in Science has been established by the Institute of Technology, to be effective for awarding at the June, 1959, Commencement.

Winter Quarter Attendance

• Winter quarter attendance at the University totals 25,212, an increase of 777 or 3 per cent over the 24,435 enrollment for winter quarter a year ago.

Included in the total are 2,148 students on the Duluth Campus.

880 Foreign Students Enrolled

• Josef A. Mestenauser, acting foreign student adviser, has announced that there are 880 students from 71 foreign countries enrolled on the Minneapolis, St. Paul, and Duluth Campuses, and at the Mayo Foundation in Rochester. Chinese students lead the list with 146; Canadians are second with 107. India has 94 students at the University, and Korea has 88.

In addition to these 880 students, there are 135 foreign students affiliated with the University on special programs: 9 honorary fellows; 38 practical trainees in industry; 62 faculty and staff members; and 27 affiliated with the University in special programs in the School of Agriculture.

New Experiment Station Established

• A new Southwestern Minnesota Agricultural Experiment Station will be located near Lamberton, in southern Redwood County. Negotiations have been completed for the purchase of 240 acres for \$72,000. A University committee headed by T. H. Fenske, associate dean of the Institute of Agriculture, selected the Lamberton site as having soil and climate conditions typical of the southwest area. Research will be devoted chiefly to crops and soils studies. The Station is expected to be in operation for the 1960 crop year.

(Continued on page fourteen)

HAVE YOU HEARD?

(Continued from page thirteen)

Honors, Elections, and Awards

- Stanley J. Wenberg, assistant to the President, has been elected 1959 president of the Campus Club. Other officers are: Bryce Crawford, Jr., chairman of chemistry, vice president; Robert H. Beck, professor of education, secretary; Edward S. Bade, professor of law, treasurer; and Asher N. Christensen, professor of political science, chairman of the house committee.
- Paul D. Boyer, professor of physiological chemistry, is chairman-elect of the division of biological chemistry of the American Chemical Society.
- William O. Caster, assistant professor of physiological chemistry, has been elected a fellow in the American Association for the Advancement of Science.
- Dale Yoder, director of the Industrial Relations Center, will be honored for his service to labor and industry at a banquet to be held in conjunction with the Upper Midwest Industrial Relations Conference April 8 at the Leamington Hotel in Minneapolis. In addition, a fund is being set up for the establishment of the Yoder Collection of Books on Industrial Relations. This collection will become a part of the reference services of the Industrial Relations Center and will be available for public use.
- Howard G. Hanson, head of physics at Duluth, has been appointed to a National Science Foundation evaluation panel to assist in reviewing proposals for institutes designed for high school science and mathematics teachers.
- Three books designed by Jane E. McCarthy, production manager for the University of Minnesota Press, and published by the Press have been selected as outstanding volumes of 1958 from the standpoint of design and production. The books were chosen by a jury for the 1958 Midwestern Books Competition which is sponsored by a group of Midwest librarians. The winning volumes are *The Face of Minnesota* by John Szarkowski, *The Obedience of a King of Portugal* translated by Francis M. Rogers, and *Summer Unbound and Other Poems* by E. L. Mayo.
- Genevieve J. Moffitt, Le Sueur County home agent, received a distinguished service citation from the National Home Demonstration Agents' Association at its annual meeting in Chicago.
- Arthur J. Schwantes, head of agricultural engineering, received an appreciation award from the National Safety Council for "outstanding service" as chairman of the Council's Safety Conference.
- Austin A. Dowell, assistant dean of the

Institute of Agriculture, received the "Little Red Oil Can" award which is presented annually to an outstanding student or staff member on the St. Paul Campus.

- Clyde H. Bailey, dean emeritus of the Institute of Agriculture, has been named an honorary member of the Association of Cereal Research of Western Germany, an honorary life member of the American Institute of Baking, and the honorary president of the International Association for Cereal Chemistry.

- Deane A. Turner, principal at the Southern School of Agriculture at Waseca, is president-elect of the Minnesota Vocational Association.

- Harold Matson, assistant professor at the Southern School of Agriculture, is president of the Minnesota Trades and Industrial Association.

- Rudolph Johnson, senior librarian at the St. Paul Campus Agriculture Library, is president of the Twin City Library Club.

- Robert K. Anderson, professor of veterinary bacteriology and public health, is president-elect of the National Conference of Public Health Veterinarians.

- Milo J. Peterson, head of agricultural education, is chairman of the Minnesota Citizens' Committee on Public Education.

- Robert R. Owens, assistant professor of English, and Frederick T. Witzig, assistant professor of geology, both at Duluth, recently completed a 40 page report of the Minnesota Water Pollution Study Commission, for use in the 1959 session of the state legislature. Professors Owens and Witzig were consultants to the Commission.

- William T. Harris, Jr., director of the University News Service, received the IWANOM (I Was A Newspaperman Once Myself) award at the 1959 Gridiron Dinner of the Newspaper Guild of the Twin Cities.

- Alfred O. C. Nier, chairman of physics, is serving as a consultant on high altitude research problems with General Mills, Inc., Minneapolis.

- William O. Shepherd, head of electrical engineering, is a consultant on electronic industries with Investors Diversified Services, Inc., Minneapolis.

- Earl Chiswell, scientist at the Rosemount Aeronautical Research Laboratory, is a technical adviser to L. F. Murphy Associates, Minneapolis.

New Varieties of Wheat, 'Mums, Berries Developed

- Two wheat varieties developed several years ago at the University will soon be growing on the plains of Kenya in eastern Africa. The varieties were developed under

the direction of Elmer R. Ausemus, professor of agronomy and plant genetics.

- The Department of Horticulture has developed several new varieties in recent weeks. One is the "Tonka Chrysanthemum," a large-flowered (3½ inch) fully double deep yellow variety. Another is the "Prairie Moon Chrysanthemum," a white, double-flowered variety with large blossoms, 4 inches in diameter. These two chrysanthemums were developed by Associate Professor Richard E. Widmer and Assistant Professor Robert A. Phillips. "Earlmore," a June-bearing strawberry, has also been developed. It has medium large, bright red, firm, juicy berries especially suitable for fresh desserts.

Staff Members on Leave

- Robert F. Spencer, professor of anthropology, will be a visiting professor at Northwestern University during the spring quarter.

- David Glick, professor of physiological chemistry, is on leave during the present year. He is studying in Denmark, Sweden, Italy, and the Soviet Union under a grant from the Commonwealth Fund.

- Victor Perman, instructor in veterinary medicine, is conducting research at the Brookhaven National Laboratories of the Associated Universities, Upton, Long Island, New York.

- Dr. A. B. Baker, director of neurology, is doing research at the University of Oslo, Norway.

- John R. Rowley, instructor in botany, is doing electron microscope research on pollen grain walls at Zurich, Switzerland.

New Audio-Visual Services

- A new plastic laminator has been added to the services offered by the Instant Copy Service operated by the Audio-Visual Education Service. The laminator applies a durable, thin, clear, Mylar plastic coating on documents and papers. The coating protects these papers from water, stains, and grease and is resistant to heat, age, and a variety of chemicals. Materials up to 11 inches wide and of any length may be laminated. The Instant Copy Service is located in Room 10, Library.

- The Photographic Laboratory announces that it has added Instant Copy equipment to its facilities to serve St. Paul Campus departments.

St. Paul Campus staff members and students may now have quick, inexpensive copies made from books, journals, periodicals, and other printed materials for use in study and research. This service, located in Room 106, Old Dairy Building, is available from 8:00 a.m. to 4:30 p.m. Monday through Friday.

THE QUESTION IS:

How Do the New Federal Social Security Amendments Affect Staff Members?

AMENDMENTS TO THE Social Security Law, effective January 1, 1959, mean less take home pay but greater retirement benefits for all University staff members.

The 1958 Federal Social Security Amendments increased the tax rate from 2¼ per cent to 2½ per cent for the calendar year 1959 and raised the maximum annual wages on which tax is paid from \$4,200 to \$4,800. Future Social Security tax rates are scheduled to go up as follows: 1960-62, 3 per cent; 1963-65, 3½ per cent; 1966-68, 4 per cent, and 1969 and thereafter, 4½ per cent. These rates are designed to meet the costs of the increased benefits provided by the amended law.

Payments Increase

For example, the staff member whose monthly earnings total \$300 will pay \$90 into Social Security in 1959 compared to the \$81 he paid in 1958. However, if he retires with an average monthly salary of \$300, he will be eligible for \$105 per month (an increase of \$6.50 per month or \$78 per year) as long as he lives. Benefits for wives of retired staff members and for the widows, dependent children, and parents of deceased staff members also will increase.

In addition to increased retirement benefits, the amended law provides new benefits for the dependents of disabled staff members.

The amended law will have its greatest impact on the staff member who earns more than \$4,200. In 1958, the tax rate of 2¼ per cent was figured on only the first \$4,200 of his earnings. This year, the staff member who earns \$4,800, for example, will pay 2½ per cent on his total earnings, or \$120 compared to the \$94.50 he paid in 1958, but his monthly retirement benefits will increase from \$108.50 to *at least* \$116.

The table below compares 1958 and 1959 Social Security employee tax amounts, which are matched by the University.

<i>Wages Paid</i>	<i>1958 Employee Social Security Tax Amounts</i>	<i>1959 Employee Social Security Tax Amounts</i>
\$2,400	\$ 54.00	\$ 60.00
3,000	67.50	75.00
3,600	81.00	90.00
4,200	94.50	105.00
4,800 and up	94.50	120.00

Retirement Benefits Increase

Beginning February 3, 1959, persons already receiving **March, 1959**

Social Security retirement payments were given about a 7 per cent increase in their monthly benefits. The staff member who formerly received the minimum retirement payment of \$30.00 a month, for example, is now receiving \$33.00. It is not necessary to file for these increases.

Staff members retiring at age 65 or over in future years will receive increased benefits as shown below:

Retired Employee Monthly Benefits

<i>Average Monthly Wage While Working</i>	<i>Before 1/1/59</i>	<i>Effective 1/1/59</i>
\$ 200	\$ 78.50	\$ 84.00
250	88.50	95.00
300	98.50	105.00
350	108.50	116.00
400 or more	108.50	up to 127.00

Upon reaching age 65, the wife of a retired staff member is entitled to receive a sum equal to one-half her husband's benefit (slightly less if she starts collecting at 62).

If both husband and wife have worked and are eligible for Social Security payments, they may file separate claims and receive the full benefits to which they are entitled.

"Quarters of Coverage"

The yardstick for measuring a staff member's eligibility for retirement payments is the "quarter of coverage"—a three-month period beginning January 1, April 1, July 1, or October 1—in which he was paid \$50.00 or more in wages under Social Security. A staff member will be "fully insured" when he reaches 65 (62 for women) if he has 40 quarters or at least one quarter of coverage for each two quarters that have elapsed since January 1, 1951.

Survivors' Benefits

Survivors' benefits are based on the monthly retirement benefit to which a staff member was or would have been entitled.

Survivors' benefits are paid to a widow at age 62 if her husband was fully insured. A widow with dependent children may collect survivors' payments if her husband was either "fully" or "currently" insured. (A staff member is currently insured if he has at least six quarters of coverage within three years preceding his death.)

Any staff member wishing additional information on Social Security may contact the Department of Insurance and Retirement, 217 Administration Building, Minneapolis Campus.

University of Minnesota Calendar of Events

MARCH, 1959

MINNEAPOLIS SYMPHONY CONCERTS

Subscription Series

Northrop Auditorium, 8:30 p.m.

March 20—Lukas Foss, composer-pianist.
March 27—All-Wagner Program.
(Single tickets, \$2.00 to \$4.50. Reservations may be made at 106 Northrop.)*

Sunday Twilight Concert

Northrop Auditorium, 4:30 p.m.

March 22—St. Olaf Choir and James Johnson, pianist.
(General Admission, \$1.00. Ticket sales open at the Auditorium Box Office at 3:30 p.m. the day of the concert.)

UNIVERSITY ARTISTS COURSE CONCERTS

Masterpiece Series

Northrop Auditorium, 8:30 p.m.

March 3—Igor Besrodni, Russian violinist. (Single tickets, \$1.50, \$2.50, \$3.00, \$3.50.)
March 11—National Ballet of Canada. ("Giselle," complete in two acts; "Offenbach in the Underworld.")
(Single tickets, \$1.50, \$2.50, \$3.00, \$3.50, \$4.00.)

Special Concert

Northrop Auditorium, 8:30 p.m.

March 12—National Ballet of Canada. ("Coppelia," complete in three acts.)
(Single tickets, \$1.50, \$2.50, \$3.00, \$3.50, \$4.00.)
(Ticket reservations for all University Artists Course Concerts may be made at 105 Northrop.)**

CONVOCATIONS

Northrop Auditorium, 11:30 a.m.

March 5—General Platoff Don Cossack Chorus and Dancers.

COMMENCEMENT

Northrop Auditorium, 8:30 p.m.

March 19—Speaker: Dr. Benjamin E. Mays, President of Morehouse College, Atlanta, Georgia.
(Admission by guest card only.)

UNIVERSITY THEATER PRODUCTION

Scott Hall Auditorium

March 3-8—*The Tempest*, by William Shakespeare.

(March 3-7, 8:30 p.m.; March 3 and 8, 3:30 p.m. Tickets, \$1.50.)

(Tickets to all University Theater performances available at Scott Hall Box Office.)*

MUSIC DEPARTMENT PROGRAMS Special Concert

Northrop Auditorium, 8:00 p.m.

March 1—Concert Band Program.

Tuesday Music Hours

Scott Hall Auditorium, 11:30 a.m.

March 3, 10, 31—Music Hour Programs.

University Symphony Orchestra Winter Concert

Northrop Auditorium, 4:30 p.m.

March 14—Schubert Mass No. 2, with the University Chorus.

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

Monday-Friday, 12:15 p.m.—The Midday Newscast.

Monday-Saturday, 4:30 p.m.—The Afternoon Newscast.

Monday-Friday, 4:45 p.m.—"Variety Music Hall."

Saturday, 12 Noon—Gilbert Highet, chairman of the Classics Department at Columbia University.

SIGNIFICANT UNIVERSITY TELECASTS

Channel 2, KTCA-TV

Monday, 9:00 p.m.—"At Home With Music."

9:30 p.m.—"Advertising, 1959."

Tuesday, 9:00 p.m.—"Invest Intelligently."

9:30 p.m.—"Physics and Space."

Wednesday, 9:00 p.m.—"Russia Today."

9:30 p.m.—"Goethe."

Thursday, 9:00 p.m.—"Current Issues."

9:30 p.m.—"Town and Country."

Friday, 9:00 p.m.—"Architecture is for People."
9:30 p.m.—"Viewpoint."

MUSEUM SUNDAY PROGRAMS

Museum of Natural History Auditorium, 3:00 p.m.

March 1—"Rival World of Insects."

March 8—"How Mammals Survive Difficult Living Conditions."

March 15—"Home of the Trumpeter and Grizzly."

March 22—"Oceanic Birds and Deep Sea Life."

UNIVERSITY GALLERY EXHIBITIONS

March 4-30—Artists Equity, Central Area Chapter.

March 6-31—Marc Chagall Prints.

(The University Gallery, on the third and fourth floors of Northrop Auditorium, is open to the public from 8:30 a.m. to 4:30 p.m., Monday through Friday. Concertgoers will find the gallery open before performances and during intermissions.)

ATHLETIC DEPARTMENT EVENTS

Home Basketball Games

Williams Arena, 8:00 p.m.

March 2—Ohio State.

(Single game reserved tickets, \$2.00. 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.

March 6—Michigan College of Mining and Technology.

March 7—Michigan College of Mining and Technology.

(Single game reserved tickets, \$1.75. General admission tickets at \$1.00 for adults and \$.60 for individuals under 16 on sale at gate only.)

(Over-the-counter ticket sales for hockey and basketball games begin at 108 Cooke Hall the Monday before each game. Mail order sales close one week prior to each game.)

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.

**Tickets for these events are also available at the St. Paul and Minneapolis ticket offices on Monday of the week prior to the performance.

THE MINNESOTAN

The University Staff Magazine

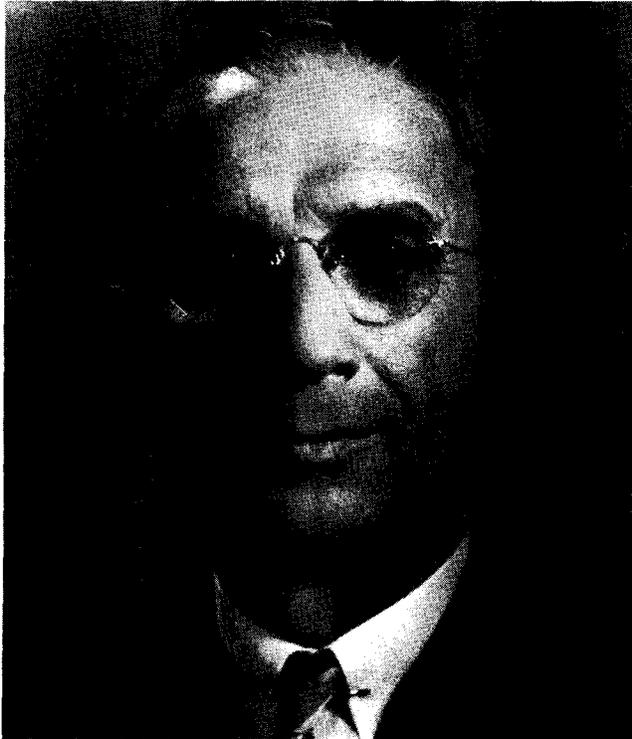
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April, 1959



**Diehl Hall • Minneapolis Campus
Dedicated January 22, 1959**

They Made Us Great



Dr. Harold S. Diehl, dean emeritus of the College of Medical Sciences.

ADMINISTRATOR, BUILDER, teacher, researcher, esteemed friend and associate—Dr. Harold S. Diehl is all of these. Because of his devotion to the College of Medical Sciences which he served as dean from 1935 to 1958, it is fitting that the building now under construction to house the biological-medical library and additional medical research laboratories should be named in his honor.

Diehl Hall was dedicated January 22 at a dinner ceremony honoring Dean Emeritus Diehl, who is now senior vice-president for research and medical affairs and deputy executive vice-president of the American Cancer Society in New York.

An outstanding administrator, Dr. Diehl was also a builder in the truest sense of the word. His constant efforts to obtain grants for basic research and for a larger physical plant doubled the facilities of his college within a 20-year period.

A dedicated teacher, he had a sincere interest not only in the training of physicians but in the training of young people in the paramedical fields—occupational and physical therapy, practical nursing, and X-ray technology, to mention only a few. As director of the Student Health

Service from 1921 to 1935, he built a service which fulfilled his intense desire “to provide the best possible medical care for the student body.”

In the field of medical research, Dr. Diehl became widely known for developing the “anti-cold” drug Copavin and for his other studies on the common cold.

Throughout the years, he has played a prominent role in national and international medical organizations; he also initiated some of the most important tuberculosis control work in the country.

Author and co-author of nearly 200 publications, he is probably best known for his book *Healthful Living* which is used as a textbook in colleges throughout the United States.

As a beloved friend, Dr. Diehl is held in highest esteem by his University of Minnesota associates. President J. L. Morrill has said that “in the long history of the University, Dean Diehl’s career will shine as a beacon of strength and integrity and example.”

On the cover . . .

Diehl Hall, located at Essex and Union Streets Southeast on the Minneapolis Campus, is scheduled for completion late next fall. The four-story structure (two of its floors will be below street level) will house the University’s biological-medical library and additional medical research facilities. An \$832,000 appropriation from the state legislature plus \$311,900 from the University are making possible the library portion, and a grant of \$787,500 from the U.S. Public Health Service matched by \$827,738 from interested foundations, corporations, and private citizens is making possible the research portion of the building. The total from the University includes \$108,000 from the Copavin fund (see above) and \$45,000 from the Scientific Apparatus Shop fund.

Vol. XII

No. 6

THE MINNESOTAN

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

William L. Nunn, Director

Ann Tucker Editor
Jo Anne Ray..... Associate Editor
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School of Nursing Marks 50 Years of Growth, Progress

Overcoming Early Opposition, the School of Nursing Today Fulfills the Highest Hopes of Its Founder

“ . . . **G**IVEN A DUE RESPECT of physical fitness, given a higher measure of preliminary training, given that serious devotion to her calling which bespeaks the quality of the woman who undertakes the task, the nurse cannot be too highly educated or too perfectly trained.”

These words are from a talk given on June 9, 1909, by the late Dr. Richard Olding Beard, head of the Department of Physiology and later assistant dean and secretary of the Medical School at the University of Minnesota. Dr. Beard had reason to speak strongly for higher education for nurses, for it was due largely to his efforts that three months earlier the first university school of nursing in the world had been established at the University of Minnesota.

Higher Education for Nurses Opposed

In its infancy, the University of Minnesota School of Nursing experienced many growing pains. In the words of Dr. Beard, “reactionaries in the ranks of the medical profession” offered strong opposition to higher education for nurses. Dr. Beard spoke for the establishment of nursing as a profession rather than a business, as a calling rather than a trade, and he looked to the university to raise the standards of nursing.

The university, in his opinion, should and would teach its pupils “that they owe, not only a duty to themselves, a duty to their patients, a duty to the profession of medicine, whose allies they are, a duty to the hospital service, a duty to the alma mater which has fostered them; but also a duty—and a large duty—to the community to which they belong and to the state in which they live.”

Next month, as the University of Minnesota School of Nursing celebrates its fiftieth anniversary, Dr. Beard

would have reason to consider himself a prophet, for the School which he helped establish has indeed achieved the goals which he set for it.

When the School of Nursing officially opened on March 1, 1909, it offered one program—a basic three-year curriculum leading to the degree of graduate in nursing.

Varied Programs Now Offered

Today the School offers advanced professional curricula which lead to the Bachelor of Science degrees in nursing education and in nursing administration, the Master of Education degree in nursing education, and the Master of Nursing Administration degree. These programs prepare students for teaching and for supervisory and administrative positions.

The original three-year basic professional program preparing practitioners of nursing has been expanded to a 16-quarter (four-year) curriculum which emphasizes an improved academic background and leads to the Bachelor of Science degree in professional nursing.

The School is also operating, on a trial basis, a four-quarter program preparing students for practical nursing, and, in cooperation with the School of Agriculture, a program preparing students for practical nursing and home management.

In addition to the regular programs, the School offers special courses in Extension and Summer Session for registered professional nurses, and, on request, gives extramural courses.

The educational programs of the School aim at the preparation of individuals qualified to contribute effectively to meeting the health and welfare needs of the individual, family, and community. Emphasis is placed



Members of the first graduating class of the University of Minnesota School of Nursing, 1912, are pictured with the late Louise M. Powell, center, superintendent of nurses and director of the School of Nursing from 1910 to 1924.

upon the preparation of the nurse as a functioning member of the health team whose goal is nothing short of "health for all the people."

Students in the four-year program first take courses basic to the study of nursing—natural sciences, social sciences, child development, and others. Later, they gain experience in the care of medical, surgical, psychiatric, and obstetric patients, children, and those who come to the Out-Patient Department.

Students do most of their nursing practice in the University of Minnesota Medical Center, and the several brick structures including the towering Mayo Memorial Building are a marked contrast to the frame structure which housed the hospital in 1909.

Other hospitals and agencies are also used for observation and experience. The Nursery School of the College of Education is used for the observation of normal children. The Charles T. Miller Hospital, St. Paul, provides experience in nursing care of maternity patients. The Hennepin County Tuberculosis Sanatorium at Glen Lake offers two weeks of observation and instruction. Many other health and community agencies are used for observation and experience, particularly in the field of public health nursing.

Minnesota is one of only approximately 50 schools whose graduates are qualified to do public health nursing without taking additional preparation.

Number of Staff Members Increases

When the School opened its doors to its first students, its staff numbered three—"one trained nurse and two assistants." Faculty in the Medical School taught many of the courses. Through the years the Minnesota School of Nursing faculty has increased steadily in number, and its members have distinguished themselves in many areas of the nursing profession. Perhaps the most widely known former faculty member is Lucile Petry Leone, the present Assistant Surgeon General and Chief Nurse Officer

of the United States Public Health Service.

Today, the full-time faculty, headed by Katharine J. Densford, director of the School since 1930, includes: Ruth Harrington, assistant director; Frances M. Lucier, assistant to the director; Ruth V. Johnston, professor; Helen W. Bowditch, Myrtle H. Coe, Frances E. Dunning, Cecelia R. Lediger (on leave), Margery S. Low, Doris I. Miller, Ruth F. Pennebaker, Eugenia R. Taylor, Dorothy E. Titt, and Ruth D. Weise, assistant professors.

Also: Patricia J. Banitt, Dorothy R. Hagerty, Helen B. Hansen, Yvonne S. Lysaker, Adele H. Miller, Frances D. Moncure, Dorothy C. Pecholt, Helen J. Peterson, Mary E. Rubbert, Muriel B. Ryden, Hannah K. Walseth, and Elizabeth A. Whitney, instructors.

Other faculty members with clinical service responsibilities or academic appointment in other departments who teach nursing courses on a part time basis are: Eveline C. Dierks, senior dietitian; Evelyn F. Helgerson, assistant professor of child welfare; Florence J. Julian, director of nursing services; M. Sue Kern, assistant director of nursing services; Florence M. Brennan, Florence C. Elliott, Lois M. Nelson, Marjorie A. Stronach, Margaret J. Clipper, Dorothy Schneider, A. Joyce Stevens, Cecile Kume, Jennie O. Schey, and Mary K. Crook, hospital nursing supervisors; Emma C. Einerson, assistant director of nursing education at Glen Lake Sanatorium, and Ann Appert, supervisor in obstetric nursing at the Charles T. Miller Hospital.

Enrollment Grows

In 1912, six young ladies completed their nursing studies and received diplomas, thus becoming the first graduating class of the University of Minnesota School of Nursing. The total enrollment at that time wavered around the 20 mark, but by 1916, it had risen to over 50.

The biggest enrollment boom in the School's history came during World War II. In June, 1943, an Act of Congress established the United States Cadet Nurse Corps

under the Surgeon General of the United States Public Health Service. The University of Minnesota was one of the educational centers for these cadets, and the University Cadet Nurse Corps was the largest in the nation, numbering over 1,000. Thus University of Minnesota nurses were able to serve their country in all theaters of the war.

In the fall of 1958, the total enrollment of the School was 488, and the graduates from all programs—for the academic year 1957-1958—totaled 152.

Quality of Graduates Ranks High

The 1957 graduates of the basic professional program had the highest score average of all schools writing the licensing examinations in Minnesota. The average scores for the state of Minnesota placed it fifth in the nation.

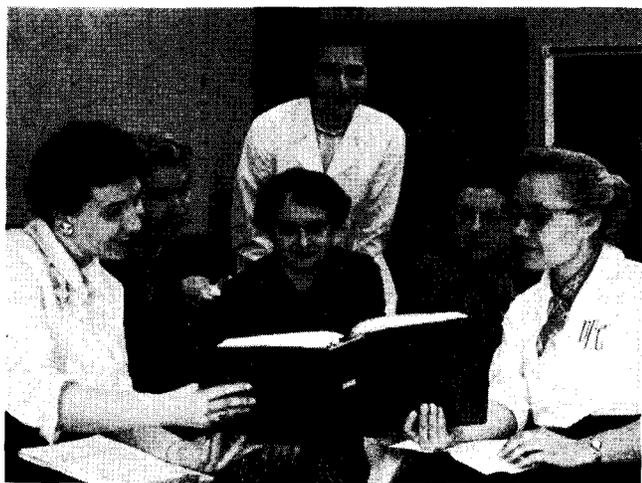
Alumnae of the University of Minnesota School of Nursing programs include Cecilia H. Hauge, director, Nursing Service, Veterans Administration; Colonel Inez Haines, chief, Army Nurse Corps; Colonel Frances I. Lay, chief, Air Force Nurse Corps, and Pearl McIver, executive director of the American Journal of Nursing Company. Other alumni are currently serving as deans, directors, and faculty members of other schools of nursing. Many are also serving in responsible nursing service positions.

In 1909 there were those who would have argued with Dr. Beard when he said that the university would teach “that the calling of the nurse carries with it a public duty; that the nurse occupies a privileged place in the community; that she owes to society, as well as to the individual patient, a public-spirited and self-devoting response.”

Today there can be no dispute that the University of Minnesota School of Nursing has indeed achieved this goal and that its graduates are conscious of a “duty to the community to which they belong and to the state in which they live,” and indeed, to the entire world.



School of Nursing faculty members, under the direction of Captain Drusilla Poole, Army Nurse Corps, are working on integrating disaster nursing into the basic and practical curricula. Pictured are, left to right: Doris I. Miller, assistant professor; Captain Poole; Katharine J. Densford, director of the School of Nursing, and Dorothy E. Titt, assistant professor.



Eldean M. Klecker, left, student in the Master of Education program in nursing education, is pictured with faculty members, left to right: Dorothy R. Hagerty, instructor; Ruth F. Pennebaker, assistant professor; Helen J. Peterson and Dorothy C. Pecholt, instructors, and, standing, Elizabeth A. Whitney, instructor.



School of Nursing faculty members pictured at a recent meeting are, left to right: Yvonne S. Lysaker, Patricia J. Banitt, and Muriel B. Ryden, instructors, and Eveline C. Dierks, senior dietitian.

Bureau Serves as Clinic for "Ailing" Minnesota Public School Districts

A CLINIC FOR AILING school districts — this describes the Bureau of Field Studies and Surveys of the College of Education.

Under the direction of Otto E. Domian, professor of education, the Bureau serves Minnesota school districts by studying and recommending solutions to their specific problems which may range from financial difficulties to outdated or limited curricula. In this day of rising enrollments, however, the most common school "ailment" is inadequate plant facilities.

The citizens of the Madison, Min-

nesota, Public School area were faced with a school space problem two years ago. Many of the rural districts in the area had closed their schools and were sending their pupils to the Madison school. In addition, more young people were attending high school and staying in school longer than was the case a few years earlier. The Madison School area needed a building program it could afford and one which would provide for its specific needs.

School Board Requests Survey

The Madison survey originated at the request of the local school board,

as do all community surveys made by the Bureau. The school board and the Bureau staff held a series of conferences to discuss the school's problems and how a survey might help solve them. A contract was then drawn up and submitted for approval to the Madison school board and the Board of Regents of the University.

The Madison survey, which is representative of all school building surveys, involved six major studies by the Bureau staff:

1. The general economic and historical background of the city;
2. A study of population trends and estimates of the future school population of the district, taking into account the present and estimated future parochial school enrollment;
3. An analysis of the educational program of the district as a background for determining school building needs;
4. A detailed analysis of all the school buildings in the district, including recommendations for the rehabilitation of existing buildings and the construction of new building facilities;
5. The financial condition of the district as it relates to its ability to support an educational program and the necessary buildings, and
6. A program for financing the rehabilitation of the existing plant and any necessary new school building construction.

The completed Madison survey recommended unification of all the school districts in the area. In addi-



Minnesota communities which the Bureau of Field Studies and Surveys has served are shown on the map. Bureau staff members pictured are: seated, Professor Otto E. Domian, director of the Bureau; left to right, Clifford P. Hooker, associate professor of education; Verna H. Olson, senior secretary; Doris W. Elsner, editorial assistant; and Frank H. Smith, field assistant.

tion, two proposed building programs were presented: one for use by a new unified district, and one for use if the districts failed to consolidate.

Citizens Take Action

Today, the citizens of the Madison area are well on their way to solving their space problems. The school districts are consolidated, and a bond issue providing for building construction has been approved.

This action taken by the citizens of Madison is typical of the type of community action which has resulted from many of the approximately 100 surveys that the Bureau has made in communities which vary in size from the city of St. Paul, with a population of over 300,000, to the community of Holdingford, with a population of about 500. Although the majority of the surveys have been made in Minnesota communities, the Bureau has worked in towns in South Dakota, Montana, and Wisconsin.

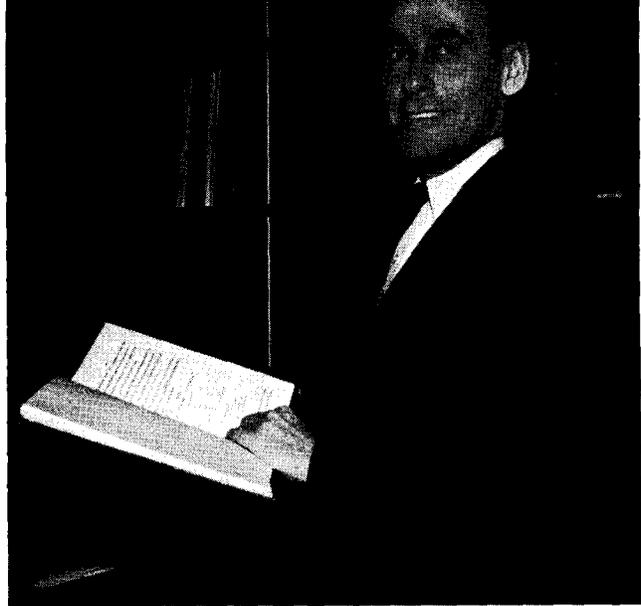
State Aid Program Studied

The Bureau also conducts studies on a state-wide basis. In 1956 it made an extensive study of state aid to public schools in Minnesota. Acting on Bureau recommendations, the 1957 State Legislature approved a new aid program which is based on the financial resources of the districts. Under the old program, the state paid each school district a fixed amount for each pupil enrolled. The new program guarantees a sum of money for each pupil, and the state pays the difference between this sum and what the individual school district can provide. Thus pupils in districts with limited financial resources are not penalized.

The Bureau, with quarters in Burton Hall for its 13-member staff, has been in existence since 1949. Prior to 1949, surveys were made under the direction of individual College of Education faculty members.

The permanent Bureau staff, in addition to Professor Domian, includes Clifford P. Hooker, Willard R. Lane, and Samuel H. Popper, associate professors of education; Verna H. Olson,

April, 1959



Professor Otto E. Domian, director of the Bureau of Field Studies and Surveys, is pictured beside the collection of completed surveys which are bound in hard-cover volumes.

senior secretary; Doris W. Elsner, editorial assistant; Marie P. Prins and Allan M. Hancock, engineering assistants.

Five College of Education instructors work part time for the Bureau. They are: Robert W. Marker, Frank H. Smith, Waldo K. Anderson, Patrick D. Lynch, and Donald L. Duncanson, field assistants.

In making surveys and field studies for boards of education, the Bureau has worked closely with the superintendents of schools, the school boards, and people of the communities served.

The work of the Bureau has received wide recognition. Currently, Professor Domian and Professor Robert J. Keller, director of University High School, are working with the citizens of Kansas on a comprehensive study of the entire educational system of their state. As consultants to the Committee on Education of the Kansas Legislative Council, Professor Domian is directing the elementary and secondary school survey, and Professor Keller is directing the survey on higher education. The survey includes studies of educational opportunities available, teaching staffs, state educational organizations, financing of public education, school district organization, and

transportation of pupils. Also, the survey involves an appraisal of the role of higher education in Kansas, including a study of college enrollments and teaching staffs.

The total amount of money spent annually on public education in Minnesota is larger than that spent on any other single type of government activity. Studies made by the Bureau indicate that it would take in excess of a quarter of a billion dollars to put the public school plant of the state in such a condition that it would adequately house a proper educational program for all Minnesota school children.

Value of Surveys Cited

An article appearing in the *American School Board Journal* in 1951 stated that there was probably no single field of research and service where the University could make a greater contribution to the future of the state of Minnesota than through research and field services to boards of education. Certainly this is true in this day of rapid growth and changes.

A rising number of school districts are calling on the Bureau for its services. Currently, the Bureau is completing a survey for Glendive and is working on surveys in Ely, Aurora, Northfield, Pine River, Marshall, and St. Anthony.



Gladys S. Barber

Mrs. Barber, who is principal librarian on the Duluth Campus, has been in library work in Duluth since the early 1930's. She also taught in the laboratory school when the Duluth Campus was still the Duluth State Teachers College.



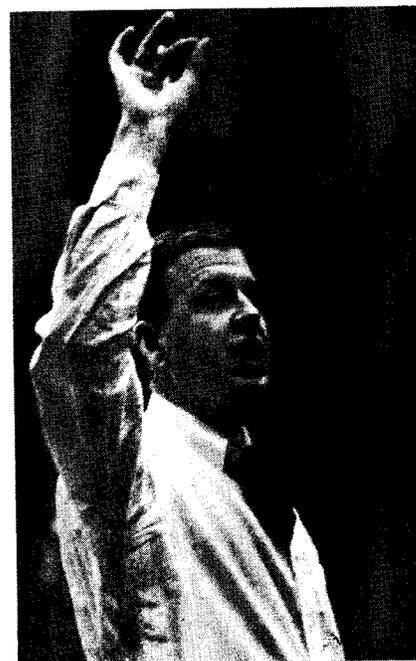
Joyce B. Johnson

Joyce Johnson, the friendly young lady seated at the General Extension Division information desk, is a senior clerk-typist. Mrs. Johnson has been an Extension Division staff member for six years.

HAVE YOU MET?

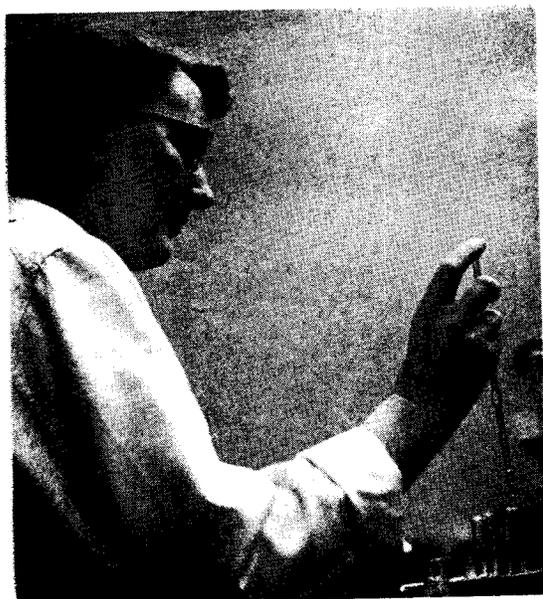
Walter S. Collins

New to the University staff this year, Assistant Professor Collins teaches theory and history of music; he also directs the University Chorus. As a student at Yale University, Professor Collins was president and director of the Whiffenpoofs, Yale's famed honorary singing society.



Lois E. Hallanger

Miss Hallanger, a junior scientist in the Department of Agricultural Biochemistry on the St. Paul Campus, came to the University in 1957. A graduate of Concordia College at Moorhead, Minn., she taught in Minnesota and Iowa high schools before joining the University staff.



Florence A. Ehrenkranz

Consumers who are uncertain about their selections of household equipment can get some practical pointers from the recently published book entitled *Equipment in the Home*. The text is by Miss Ehrenkranz, who is professor of home economics at the University, and by Lydia Inman, an associate professor of home economics at Iowa State College.



Dr. Lewis W. Wannamaker

Dr. Wannamaker, professor of pediatrics, has been named a career investigator for the American Heart Association. This appointment is one of six such grants awarded by the Association. Dr. Wannamaker is studying the bacteria that are related to rheumatic fever.

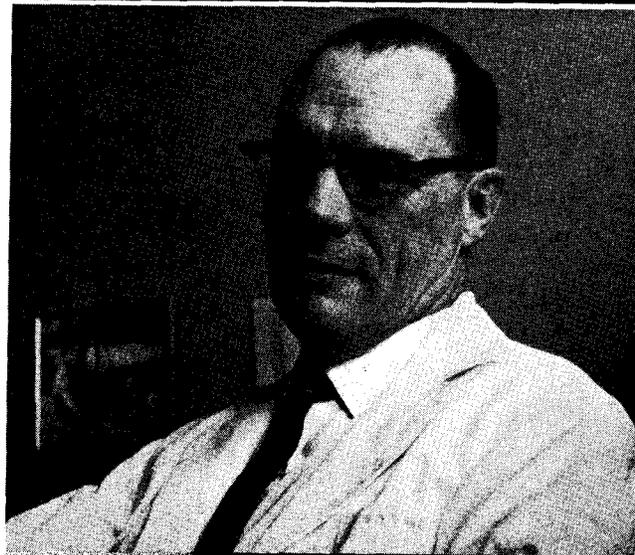


James M. Kingsley

As chief bibliographer of the Walter Library, Mr. Kingsley is currently revising certain sections of Library collections to make room for new material. He took his library work at Columbia University and came to the University of Minnesota as a medical librarian in 1946.

Wayne L. Adams

Mr. Adams, an administrative laboratory technologist in the Department of Physiology and a native of Minneapolis, has been a University staff member for 16 years. An amateur photographer, his favorite subjects are his three grandchildren.



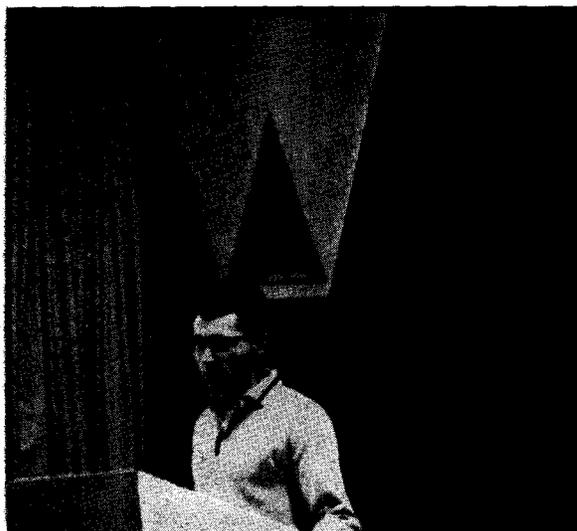
April, 1959

Duluth Campus Poetry Series In Fifth Year



ABOVE: William Rosenthal, head of English at Duluth, presented one of the first poetry reading sessions in the Victorian atmosphere of Tweed Hall located on the "old" Duluth Campus.

BELOW: John R. Reed, Duluth English major, was the first student to read his own poetry. He presented his work at a January poetry session held in the contemporary atmosphere of the new Duluth Campus Humanities Building.



EACH WEDNESDAY AFTERNOON at 4:30 the new Duluth Campus Humanities Building is the scene of an informal poetry reading session which has become an established campus-community activity.

Fifth Year of Series

The series is observing its fifth anniversary during the current academic year. It was inaugurated during the fall of 1954 by the contemporary American poet Leonard Wolf who at that time was a member of the Duluth Campus English faculty. Professor Wolf, who is now on the staff of San Francisco State College, has had his poetry published in the *New Yorker*, the *Atlantic*, and a dozen other magazines and anthologies. Professor Wolf and William Rosenthal, head of English at Duluth, started the reading series which Professor Rosenthal says has become "one of the most satisfying things we have attempted outside the classroom."

Although Professor Wolf was the first "reader" to present the programs, other distinguished faculty members became interested, among them Kimon Friar, also a Duluth Campus English faculty member in 1954. Professor Friar's translation of Nikos Kazantzakis' *The Odyssey: A Modern Sequel* is now receiving rave reviews from critics throughout the world.

Size of Audience

Never a big crowd event, the poetry reading programs have had audiences ranging in number from 6 to 30.

"We are not too interested in having overflow crowds," says Professor Rosenthal. "The mood and setting must be quiet and informal. With big crowds, the intimacy would be lost."

English Department faculty members participating in the weekly readings share the sentiment that poetry was meant to be read aloud. Professor Rosenthal emphasizes that this does not imply that it must be dramatized or staged.

"We read naturally," he says, "at times very much as if we were talking to ourselves. Over-dramatization could diminish the effect of both the verse and the reader."

Location of Programs Changed

Originally conducted in the old Tweed Hall, about a mile from the present new Duluth Campus, the poetry series at first attracted more townspeople than students. Now that the sessions are held in the Humanities Building on the new campus, students outnumber Duluth residents.

The quiet mood of the half-hour sessions fits well into busy campus schedules. There are no "request" programs, because each reader chooses the poetry he likes best. A regular series makes it possible for faculty members to select the works of the lesser known poets, although the readings from Chaucer, Shelley, Shakespeare, and other more familiar poets attract a larger audience. Sometimes foreign poetry is read in both the original version and in translation. Works by Swedish, French, Greek, and Italian poets have been presented.

Value of Readings

"Through this series," says Professor Rosenthal, "many of us have come to enjoy and to read poetry more often," although he concedes that "there are still relatively few people who genuinely love poetry and read it constantly for its own sake."

Those who do and those who are acquiring a taste for poetry make up the "regulars" of the weekly Duluth Campus audience. During recent weeks English Department Instructors Harry J. Davis, Robert S. Bufalini, Jay C. Norris, Lewis D. Levang, Assistant Professors Joseph E. Duncan and Robert R. Owens, Associate Professors Thomas G. Sturgeon and Albert Tezla, and Professor Rosenthal have presented works by Wallace Stevens, Emily Dickinson, Chaucer, Wordsworth, Keats, the minor metaphysical poets, and poems honoring womankind.

The Minnesotan

Income Tax Suggestions

Many staff members have found they owe the Federal Government a substantial sum this year because the total amount withheld from their paychecks did not equal their total tax bills. For future reference, the Business Office has a few helpful hints:

1. The total withheld each pay period is determined by a government-approved formula (18 per cent of gross pay after a pro-rata allowance for exemptions claimed). Thus, the fewer exemptions, the larger the amount withheld. *Staff members may claim fewer exemptions than they are actually allowed.* By reducing the exemptions claimed by one (if single, reduce from one to zero), the total amount withheld each pay period will be increased by \$5.00. At the end of the year, under this system, deductions will more likely be adequate to meet the tax bill.

2. To make a change in the number of dependents, staff members must submit new signed Withholding Exemption Certificate Forms W-4 to the Payroll Department showing the number of exemptions they wish to claim. In no case may they claim more than the total allowed. These forms may be secured in department offices.

3. Another important use for Form W-4 is to notify the Business Office of a change of address. This is important because properly addressed withholding (W-2) forms will reach staff members more promptly at the end of the year.

For further information staff members may call the Payroll Department, Extension 204, Minneapolis Campus.

Degree Statistics

• Although they number less than one per cent of the colleges and universities in the United States and enroll only about seven per cent of the nation's college students, the 10 member universities of the Western Conference (the "Big Ten") plus the University of Chicago award 27 per cent of all doctor of philosophy degrees granted in this country. These figures were based on a study of enrollments and degrees awarded during the 1956-57 academic year at the Universities of Minnesota, Illinois, Iowa, Michigan, Wisconsin, and Chicago, and at Indiana, Michigan State, Northwestern, Ohio State, and Purdue Universities.

Of the 2,832 doctor of philosophy degrees awarded by the 11 schools the year of the study, 239 were granted by the University of Minnesota.

University Facilities Named

• The new student building on the St. Paul Campus has been officially designated by the Board of Regents as the "St. Paul

April, 1959

Have You Heard?

Campus Student Center." Accordingly, the building is to be referred to as a "center" and not as a "union."

• Three University of Minnesota buildings and an athletic field have been named in honor of former staff members. The University Library on the Minneapolis Campus will be known from now on as the "Walter Library" in honor of FRANK K. WALTER, University librarian from 1921 to 1943.

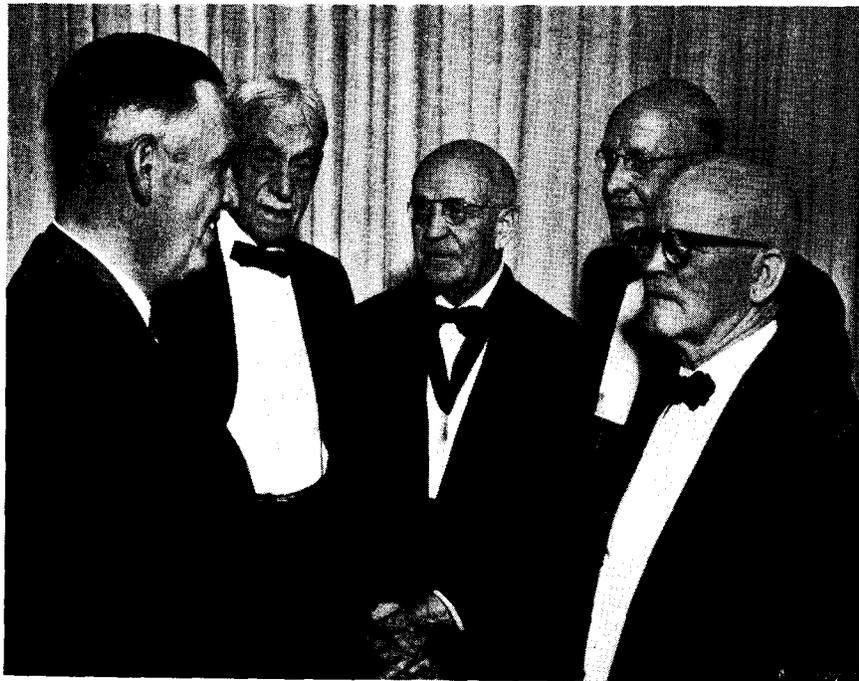
• The administration building at the West Central School of Agriculture and Experiment Station at Morris has been named "Edson Hall" in honor of ALLEN EDSON, former superintendent of the School, who died in September, 1958.

• The girls' dormitory at the Northwest School of Agriculture and Experiment Station at Crookston has been named "McCall Hall" to honor THOMAS M. MCCALL, former superintendent of the School, who retired in 1956.

• "Boss Field" is the name given to the athletic field at the Southern School of Agriculture at Waseca as a tribute to the late PROFESSOR ANDREW BOSS, University agronomist, who died in 1947. Noted for his development of outstanding varieties of corn, Professor Boss was a member of the University staff from 1891 until his retirement in 1935.

(Continued on page 12)

Professors Emeriti Honored by Architects



Five professors emeriti of architecture were honored at a dinner held in conjunction with the Minnesota Society of Architects convention in St. Paul. John Noble Richards, left, president of the American Institute of Architects, congratulates, left to right: Frederick M. Mann, founder of the School of Architecture and designer of Memorial Stadium; Roy C. Jones, designer of the Robert Street Bridge and the Athletic Club, both in St. Paul; Robert T. Jones, pioneer in the field of town planning, and Rhodes Robertson, who designed the Fort Snelling Chapel, the Minneapolis YWCA, and the Northwestern Bell Telephone Company building. Leon Arnal, who designed the Foshay Tower in Minneapolis, was not present when this picture was taken.

HAVE YOU HEARD?

(Continued from page 11)

Staff Members Participate in Red Cross Drive

• JOHN E. STECKLEIN, director of the Bureau of Institutional Research, was chairman of the Minneapolis Campus 1959 Red Cross staff campaign which ran from February 26-March 6. RICHARD P. GETCHELL, assistant to the director of Coffman Memorial Union, was assistant chairman. Nearly 400 representatives and captains also participated.

Divisional chairmen included: MAXWELL E. ALVORD, placement director for the College of Science, Literature, and the Arts; DR. H. MEAD CAVERT, assistant dean of the College of Medical Sciences; OTTO E. DOMIAN, director of the Bureau of Field Studies and Surveys; EARL B. FISCHER, professor of pharmacy; DR. AMBERT B. HALL, professor of dentistry; JAMES B. HANCOCK, junior program consultant, Coffman Memorial Union; SIDNEY C. LARSON, associate professor of electrical engineering; VERNIEL LUNDQUIST, editorial assistant, University of Minnesota Press; JOHN W. MIESBAUER, principal accountant, Comptroller's Office; GLENN R. MITCHELL, assistant director of University Hospitals; NORMAN W. MOEN, assistant professor in the General College; JOHN NETER, professor of business administration; S. DONALD ROBERTSON, junior librarian, Walter Library; JEROME L. TAUER, maintenance supervisor, Physical Plant; and NIELS THORPE, professor of physical education for men.

• KEITH N. MCFARLAND, assistant director of resident instruction for the College of Agriculture, Forestry, and Home Economics, was in charge of the St. Paul Campus Red Cross campaign, and CAPTAIN BERNARD D. MELVIN, assistant professor of air science, was Red Cross drive coordinator on the Duluth Campus.

Staff Activities

• JOHN A. DETTMANN, professor of business economics at Duluth, is a contributing author to the textbook *Principles of Accounting* just released by Pitman Publishing Company, New York.

• REUBEN L. HILL, director of the Family Study Center, is co-author of the book *The Family and Population Control* recently published by the University of North Carolina Press, Chapel Hill, N.C.

• ANCEL KEYS, director of the Physiological Hygiene Laboratory, and his wife, Margaret, are the authors of *Eat Well and Stay Well* published March 19 by Doubleday and Company, Inc., New York.

• RALPH F. BERDIE, director of the Student Counseling Bureau, and EDWARD O.

SWANSON, assistant professor of psychology, have recently published a report entitled *The Biennial Survey of Scholastic Aptitude of Minnesota College Freshmen*. The report is based upon entering freshmen in 35 Minnesota colleges. A similar analysis is now being made of freshmen who entered the University of Minnesota during the fall of 1958.

• Professors BERDIE, SWANSON and WILBER L. LAYTON and THEDA HAGENAH, assistant directors of the Student Counseling Bureau, have also just published *Counseling and the Use of Tests, A Manual for the State-Wide Testing Programs of Minnesota*.

• The works of WALTER QUIRT, associate professor of art, have been selected to appear in a traveling exhibition starting next fall. This exhibit, which will open at the University Gallery early in the fall, will be offered at low cost to smaller art centers in accordance with the aims of a Ford Foundation program in the humanities and the arts.

Guy Stanton Ford Lectures

• The Guy Stanton Ford lectures will be given at 3:30 p.m. April 20, 21, and 22 in the Museum of Natural History Auditorium on the Minneapolis Campus. These lectures, which are open to the public without charge, will be given by PROFESSOR C. HERMAN PRITCHETT, chairman of the Department of Political Science at the University of Chicago.

Titles of individual lectures are: (1) "Congress vs. the Court;" (2) "Statutes and the Court;" and (3) "The Constitution and the Court."

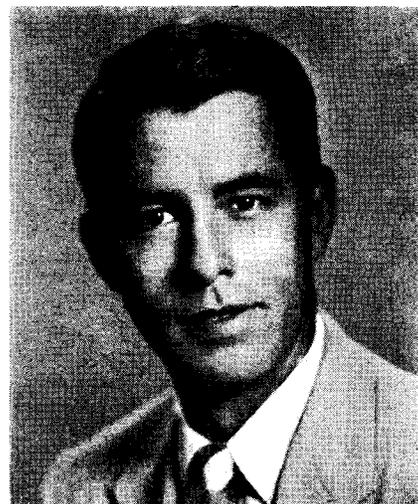
Staff Appointments, Offices, Awards

• EDNA L. FRITZ will become director of the School of Nursing effective October 1, 1959, succeeding retiring director KATHARINE J. DENSFORD.

Miss Fritz, a native of Philadelphia, is a graduate of Russell Sage College, Troy, N.Y., from which she received the degree of Bachelor of Science in Nursing in 1940. She received the degree of Master of Arts in Nursing Education from Teachers College, Columbia University, in 1942 and will receive her Doctor of Education degree from that institution later this year.

She has served as head of the Department of Medical Nursing at Cornell University—New York Hospital School of Nursing, as project director for the Division of Nursing Education of the National League for Nursing and as assistant director of the Department of Baccalaureate and Higher Degree Programs of the National League for Nursing.

• CLARENCE H. BOECK, associate professor of education and head of the University



Associate Professor Rodney A. Briggs

High School Science Department, has been elected vice president of the National Association for Research in Science Teaching.

• RODNEY A. BRIGGS, associate professor of agronomy and plant genetics, has been named superintendent of the West Central School and Experiment Station at Morris. Professor Briggs has been a member of the University staff since 1953. In his new position he will replace the late Superintendent ALLEN W. EDSON.

V.F.W. Cornerstone Laying

The cornerstone laying ceremony for the new V.F.W. Cancer Research Center will be held Saturday, April 11.

This ceremony will be preceded by a 2:00 p.m. review of V.F.W. marching units at Northrop Field on the Minneapolis Campus and a parade from the field to the new Center at 2:45 p.m.

Members of the V.F.W. and their auxiliary in 315 Minnesota posts have raised over \$300,000 for this research center which is located on the corner of Harvard and Delaware Streets, S.E.

Quiz Bowl Team

The University of Minnesota College Quiz Bowl team, coached by DONALD K. SMITH, professor of speech, will make its first appearance on the Quiz Bowl show on Sunday, April 12, at 4:00 p.m. on the CBS television network. This program will originate from the home city of the defending team.

If the University teams wins the April 12 contest, the April 19 show will originate from the Minneapolis Campus.

The Minnesotan

EXHIBITS OF BEES, apples, sextants and ship models, nursing uniforms, and a 30-foot helium balloon; men speaking on travels in Russia, investments, radiation hazards, and the Civil War—all were a part of the University's 108th birthday observance held during University of Minnesota Week February 22-28.

This annual affair was sponsored by the University, the Minnesota Junior Chamber of Commerce, and the Minnesota Alumni Association.

University Week Committee

The over-all committee included Junior Chamber of Commerce representatives Harold D. Covlin, Robert Drake, John J. Gryboski, Paul G. Johnston, John W. Pulver, Harold Sheridan, Byron P. Thompson and Donald E. Wiese; staff representatives William T. Dale, program supervisor, Sheldon Goldstein, acting director of the Department of Radio and Television Broadcasting; William L. Nunn, director, Beverly L. Hamilton, news representative, and Marcia R. Smith, senior informational representative, University Relations; Wilbur F. Jensen, director of the Audio-Visual Education Service; Harold B. Swanson, editor, St. Paul Campus Information Service; and James A. Daly, field representative, Alumni Relations.

Exhibits in Duluth, Twin Cities

University exhibits appeared in 40 Twin City and Duluth store windows, banks, hotels, and other business locations. Minneapolis hotels participating in the University Week observance included the Andrews, with an exhibit prepared by the School of Architecture; the Dyckman, with an exhibit from the Soils Department; the Leamington, with a College of Agriculture, Forestry, and Home Economics exhibit; and the Pick-Nicollet, with an exhibit portraying religious activities at the University.

Minneapolis banks which had University exhibits included the First National, with a display prepared by the Department of Entomology and Economic Zoology; First Produce State,

April, 1959



President J. L. Morrill explains an exhibit which featured models of the Duluth, St. Paul, and Minneapolis Campuses to Arnulf Ueland, president of the Midland National Bank, Minneapolis, and Harold D. Covlin, president of the Minneapolis Junior Chamber of Commerce. This exhibit, which was located in the lobby of the Midland National Bank during University of Minnesota Week, included models of proposed "new" campus areas to be developed for an estimated University enrollment of 47,000 by 1970.

University Observes Birthday With Exhibits, Staff Speakers

with exhibits prepared by the World Affairs Center and the Center for Continuation Study; Marquette National, which had a Department of Aeronautical Engineering exhibit (with flight equipment from the Air Force ROTC); Midland National (see photo above) and Northwestern National, with a display from the School of Forestry.

The State Capitol Credit Union had an exhibit of apples from the Department of Horticulture; Doubleday Book Store had a display of University of Minnesota Press books; Warner Hardware had an exhibit from the College of Pharmacy; Billy and Marty Tobacconists featured a University Theater exhibit, and an exhibit prepared by the Department of Plant Pathology was on display in the Minneapolis Grain Exchange.

Minneapolis theaters participating included the RKO Orpheum and the State, both featuring exhibits pre-

pared by the Audio-Visual Education Service, which was also represented in a Century Camera Shop exhibit. The Naval ROTC prepared a display for Corrie's Sporting Goods; Farnham Stationery and School Supply had an exhibit from the Museum of Natural History; and Northern States Power in Minneapolis had a Summer Session exhibit.

Minneapolis department stores with University exhibits included Powers, with an Athletic Department display; J. C. Penney, with a display from the Museum of Natural History; and Donaldson's, which had a School of Nursing exhibit.

St. Paul firms participating included Hotels Lowry, St. Paul, and Capri, which had exhibits from the School of Agriculture, the Office of the Dean of Students, and the Soils Department respectively, the St. Paul Chamber of Commerce, with an Ath-

(Continued on page 14)



The Emporium Department Store in St. Paul used University Gallery paintings in one of their fashion windows during University of Minnesota Week.

(Continued from page 13)

letic Department exhibit, the Emporium Department Store (see photo on this page) with a University Gallery display, Farmers Union Grain Terminal, with a Department of Plant Pathology exhibit, and Northern States Power Company, with a display from the Department of Aeronautical Engineering.

Suburban displays included the School of Physics exhibit (see photo below) in Southdale Court, a School of Forestry exhibit at the First National Bank in Hopkins, and a foreign student exhibit at Warner Hardware in St. Louis Park.

Staff Members Speak

Staff members presented talks before a varied group of civic and business organizations all over the state during University Week.

Those speaking to Minneapolis and St. Paul groups included: HAROLD W. STEVENSON, associate professor of business administration, who addressed the Twin City Women's Traffic Club; DAVID W. NOBLE, associate professor of history, and EUGENE STOLARIK, associate professor of aeronautical engineering, who spoke to the Zonta Club of St. Paul; RODNEY C. LOEHR, associate professor of history, who spoke to the Women's Welfare League of St. Paul, and ROBERT J. FORSYTH, instructor in home economics, who talked to the Richfield Garden Club.

ANN L. BECK, research assistant in psychology, spoke to the Women's Auxiliary to the National Postal Transportation Association; CLIFTON E. WILSON, research fellow in international relations, to the Kappa Alpha Theta alumnae; FRANCIS M. BOBBY, professor of business administration, to the Wayzata Rotary Club; MURRAY A. WARMATH, head football coach, and ISAAC

J. ARMSTRONG, director of physical education for men, to the Midway Civic Club; and JAMES S. LOMBARD, director of Concerts and Lectures, to the Minneapolis Woman's Club.

The Child Psychology Study Group heard talks by FABER B. DECHAIINE, instructor in the School of Agriculture, and ELIZABETH PETERSON, instructor in child welfare. DR. W. ALBERT SULLIVAN, JR., director of medical education, and E. W. ZIEBARTH, dean of Summer Session, addressed the Minneapolis Sertoma Club; DR. JOSEPH B. AUST, assistant professor of surgery, spoke to the Colostomy and Ileostomy Rehabilitation Guild; MARY C. WOLF, graduate student in social work, to the Adelphai Club, St. Paul; ROBERT J. HOLLOWAY, professor of business administration, to the Minneapolis Downtown Lions Club; DR. RICHARD G. LESTER, assistant professor of radiology, and GORDON M. A. MORK, professor of education, to the Interprofessional Institute in St. Paul; RALPH O. WOLLAN, health physicist, to the Greater St. Paul Safety Council; BEN B. SUTTON, professor of business administration, to the Usadian Executive Club in Minneapolis; and MAJOR LOUIS S. HOLLIER, JR., assistant professor of naval science, and CYRUS P. BARNUM, professor of physiological chemistry, to the Optimist Club of St. Paul.

The Garden Club of Ramsey County heard LEON C. SNYDER, head of horticulture; the Camden Area Commercial Club, ROBERT S. HANCOCK, associate professor of business administration; and the Southtown Branch of the Minneapolis YMCA, BERNARD R. GELBAUM, professor of mathematics in the College of Science, Literature, and the Arts. Members of Beta Sigma Phi in St. Paul heard MORGAN BLUM, assistant professor of interdisciplinary studies; the Roseville Lions Club, MORRIS E. NICHOLSON, head of metallurgy; the Commonwealth Club of Minneapolis, RAYMOND B. NIXON, professor of journalism; Zion Lutheran Church, MALCOLM M. WILLEY, vice president of academic administration; and the Downtown Y's Men's Club, ROBERT L. JONES, director of the School of Journalism.

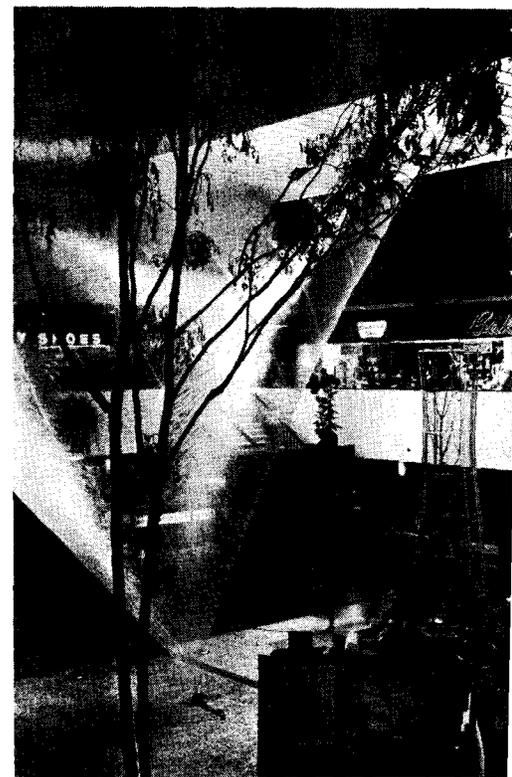
Alumni Groups Hear Staff Speakers

Alumni clubs throughout the state also heard University speakers.

ROBERT T. HOLT, assistant professor of political science, spoke in Aitkin; WILFRID O. STOUT, JR. assistant professor in General College, in Alexandria; RICHARD C. JORDAN, head of mechanical engineering, in Austin, and HAROLD C. DEUTSCH, professor of history, in Benson. DR. DONN G. MOSSER, director of radiation therapy, spoke in Coleraine; JOHN E. TURNER, associate professor of political science, in Detroit Lakes; FRANK H. KAUFERT, director of the School of Forestry, in International Falls; JOHN D. AKERMANN, director of the Rosemount Aeronautical Laboratory, in Madison; ROBERT J. KELLER, director of University High School, in Marshall and in Redwood Falls; EDWIN L. HAISLET, director of Alumni Relations in Moorhead; JULIUS M. NOLTE, dean of the General Extension Division, in New Ulm; E. W. ZIEBARTH, dean of the Summer Session, in Pipestone; DR. ROBERT A. GOOD, professor of pediatrics, in St. Cloud; and PAUL J. KELLOGG, assistant professor of physics, in Thief River Falls.

GORDON M. A. MORK, professor of education, spoke in Virginia; THOMAS F. MAGNER, chairman of Slavic and Oriental languages, in Wadena; WILLIAM L. NUNN, director of University Relations, in Morris; WILLIAM G. KUBICEK, professor of physical medicine, in Wheaton; and RUDOLPH HERMANN, professor of aeronautical engineering, in Rochester.

The School of Physics prepared a cosmic ray exhibit (including a helium-filled 30-foot balloon) for the court of Southdale Center in Edina. The helium was provided by the Office of Naval Research.



THE QUESTION IS:

How Should Staff Members Report Serious Emergencies, Accidental Injuries, Fires?

PROCEDURES FOR REPORTING serious emergencies, accidental injuries, and fires at the University were established at a meeting called by Dr. Ruth E. Boynton, director of the Health Service, and attended by Ray F. Archer, director of insurance and retirement; Richard G. Bond, public health engineer; J. J. Christensen, head of plant pathology and a member of the St. Paul Campus safety committee; Gertrude M. Gilman, associate director of University Hospitals; Clinton T. Johnson, director of University Services; Leonard M. Kaercher, superintendent, and Berton M. Atkinson, assistant superintendent, Rosemount Research Center; Andrew R. Vernes, assistant director of protection and safety; Leslie L. Wood, assistant supervising engineer; and Gustave L. Scheffler, safety supervisor.

Dial Red "O"

In the case of all serious emergencies and all fires, the staff member reporting the incident should dial operator, Number "O." This procedure, which is used in most cities and municipalities for reporting emergencies, will hold true for all Minneapolis Campus departments including the University Hospitals at all times, but only during regular working hours for the St. Paul Campus. This modification is necessary because the St. Paul Campus switchboard is closed from 5:00 p.m. until 8:00 a.m. the following day and on weekends. During the intervening hours St. Paul Campus personnel should dial "30" to reach the Minneapolis Campus operator.

In reporting fires, the individual reporting should say "Fire" to the operator and then give the building and specific building location of the fire. In the case of other emergencies the individual reporting should say "emergency" to the operator and again give the building and the location within the building or area of the campus and a *very brief description* of the emergency to the operator. ("Large water main has broken;" "person has received serious head injury;" or "odor of escaping gas has been detected;" for example.)

Procedure for Operators

When a fire is reported, the operator will immediately call the proper fire department, the Department of Pro-

tection and Safety, and such other departments as the particular emergency may require.

In the case of all other emergencies including serious personal injuries, the operator will immediately notify the Department of Protection and Safety, and if the emergency involves more than personal injuries (building damage, for example) she will also call all other departments concerned.

For emergencies within University Hospitals, the staff member reporting the incident should dial the number "O" to reach the Hospitals operator; she, in turn, will follow the same procedure in the event of the two types of emergencies outlined above. She will call the Fire Department, the Hospitals Maintenance Department, and the Department of Protection and Safety, in that order.

St. Paul Operations

The St. Paul Campus operation will be identical while St. Paul operators are on duty. At all other times the procedure will be identical to the calls originating from the Minneapolis Campus, with the exception that the proper St. Paul or suburban fire departments will be notified rather than the Minneapolis Fire Department.

Safety Supervisor Notified

As soon as the Department of Protection and Safety has received a report of any fire or other emergency, one of its staff members will notify Safety Supervisor Scheffler by calling the Division of Environmental Health and Safety or by contacting Mr Scheffler at his home. This notification must be made immediately after the necessary emergency measures have been initiated so that the safety supervisor may make his investigation while emergency conditions are materially unchanged and while all personnel involved in the emergency are still on the scene.

Instructions in Next Staff Directory

Present plans are to include these instructions on the cover of the next (1959-1960) staff directory with a list of service numbers to appear on the inside back cover of the directory. This would provide all staff members with a quick reference for reporting emergencies or for securing assistance.

University of Minnesota Calendar of Events

APRIL, 1959

UNIVERSITY ARTISTS COURSE CONCERTS

Special Concerts

Northrop Auditorium

April 3—The Kingston Trio (8:30 p.m.)
(Single tickets \$1.50, \$2.50, \$3.00, \$3.50.
Reservations may be made at 105 Northrop.)**

April 19—Minneapolis Symphony Orchestra (3:00 p.m.)

Soloist: Kathryn Simpson, pianist.

(Concert open to University of Minnesota staff members and students only. Free tickets available at Coffman Memorial Union.)

SPECIAL LECTURES

April 7—"The Anti-Heroic Principle in Literature" by Lionel Trilling, professor of English, Columbia University.
(Museum of Natural History Auditorium, 8:15 p.m.)

April 10—"Family Dynamics in a Mexican Village" by Oscar Lewis, professor of anthropology, University of Illinois.
(155 Ford Hall, 3:30 p.m.)

April 13—"Theory and Research on the Aging Personality" by Dr. Klaus Riegel, professor of psychology, University of Hamburg.
(Museum of Natural History Auditorium, 3:30 p.m.)

April 14—"A Study of Verbal Achievements of Older Persons" by Dr. Klaus Riegel.
(Museum of Natural History Auditorium, 3:30 p.m.)

April 21—"The Meaning of the Spectral Theorem" by Lynn H. Loomis, professor of mathematics, Harvard University.
(170 Physics Building, 4:00 p.m.)

April 25—"The Banach-Tarski Paradox" by Lynn H. Loomis.
(150 Physics Building, 2:00 p.m.)

April 29—"Sources of Energy" by Charles F. Park, Jr., dean of the School of Mineral Sciences, Stanford University.
(Murphy Hall Auditorium, 2:30 p.m.)

April 30—"Minerals in World Affairs" by Charles F. Park, Jr.
(Murphy Hall Auditorium, 8:30 p.m.)

CONVOCATIONS

Northrop Auditorium, 11:30 a.m.

April 2—"How to Hate Poetry in One Easy

Lesson" by Louis Untermeyer, poet, editor, anthologist, critic.

April 9—"Germany," motion picture in color, narrated by Alfred Wolff.

April 16—Nina Dova, ballad singer and guitarist.

April 23—Olga Coelho, Brazilian soprano-guitarist.

April 30—Organ recital by Edward Berryman, University organist.

Special Convocation

Northrop Auditorium, 11:30 a.m.

April 14—"Black Man's Destiny," a lecture by Jesse F. Cornish, author, lecturer, world traveler.

UNIVERSITY THEATER PRODUCTIONS

Regular Production

Scott Hall Auditorium

April 16-18, 21-26—*Pal Joey* by Richard Rodgers and Lorenz Hart.

(April 16-18 and 21-25, 8:30 p.m.; April 21 and 26, 3:30 p.m. Single tickets at \$1.50 on sale at Scott Hall Box Office.)*

Special Production

Shevlin Hall Arena Theater

April 29-30—*Les Femmes Savantes* by Moliere.

(April 29, 8:30 p.m.; April 30, 3:30 p.m. Tickets, \$.60 on sale at 200 Folwell Hall. Produced in French by the University Theater and the French Club.)

MUSIC DEPARTMENT PROGRAMS

Special Productions

April 2—SAI Chamber Singers.
(Scott Hall Auditorium, 8:00 p.m.)
(Admission charge. Tickets on sale in Scott Hall Lobby.)

April 5—Recital by Grace Johnson, soprano.
(Scott Hall Auditorium, 4:00 p.m.)

April 17—University Men's Glee Club.
(Northrop Auditorium, 8:30 p.m.)

Tuesday Music Hours

Scott Hall Auditorium, 11:30 a.m.

April 7, 14, 21, 28—Music Hour Programs.

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

Monday, 6:45 p.m.—"Russia Today: An Eyewitness Account" by Burton Paulu, director of Radio and Television Broadcasting.

Saturday, 4:30 p.m.—Reith Lectures. "The Individual and the Universe" by A. C. B. Lovell, professor of radio astronomy at Manchester University.

Saturday, 6:45 p.m.—"American Humor" by Gene Blustein.

SIGNIFICANT UNIVERSITY TELECASTS

Channel 2, KTCA-TV

Monday-Friday, 9:00-10:00 p.m.—University of Minnesota Hour.

MUSEUM OF NATURAL HISTORY PROGRAMS

Sunday Film Programs

Museum of Natural History Auditorium
3:00 p.m.

April 5—"Canoe Country Travel."

April 12—"Island Treasure."

Special Lecture

Museum of Natural History Auditorium
8:00 p.m.

April 10—"The Guiding Habits of the Honey-guides" by Dr. Herbert Friedmann, head curator, Department of Zoology, United States National Museum of the Smithsonian Institution.

UNIVERSITY GALLERY EXHIBITIONS

April 5-26—Second Pacific Coast Biennial. 50 paintings; oils and watercolors.
April 5-26—Young British Painters.

ATHLETIC DEPARTMENT EVENTS

Home Baseball Games

Delta Field

April 10—South Dakota State (3:30 p.m.)
April 11—South Dakota State (2) (1:00 p.m.)

April 17—North Dakota State (3:30 p.m.)
April 18—North Dakota (2) (1:00 p.m.)

April 24—Ohio State (3:30 p.m.)

April 25—Indiana (2) (1:00 p.m.)

(Tickets sold at gate. Adults, \$1.00; children, \$.25.)

Louis F. Keller Lecture in Physical Education

Museum of Natural History Auditorium
8:00 p.m.

April 4—"The Real Purposes Underlying Modern Physical Education" by Dr. Arthur S. Daniels, dean of the School of Health, Physical Education, and Recreation at Indiana University.

Unless otherwise noted, these 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.

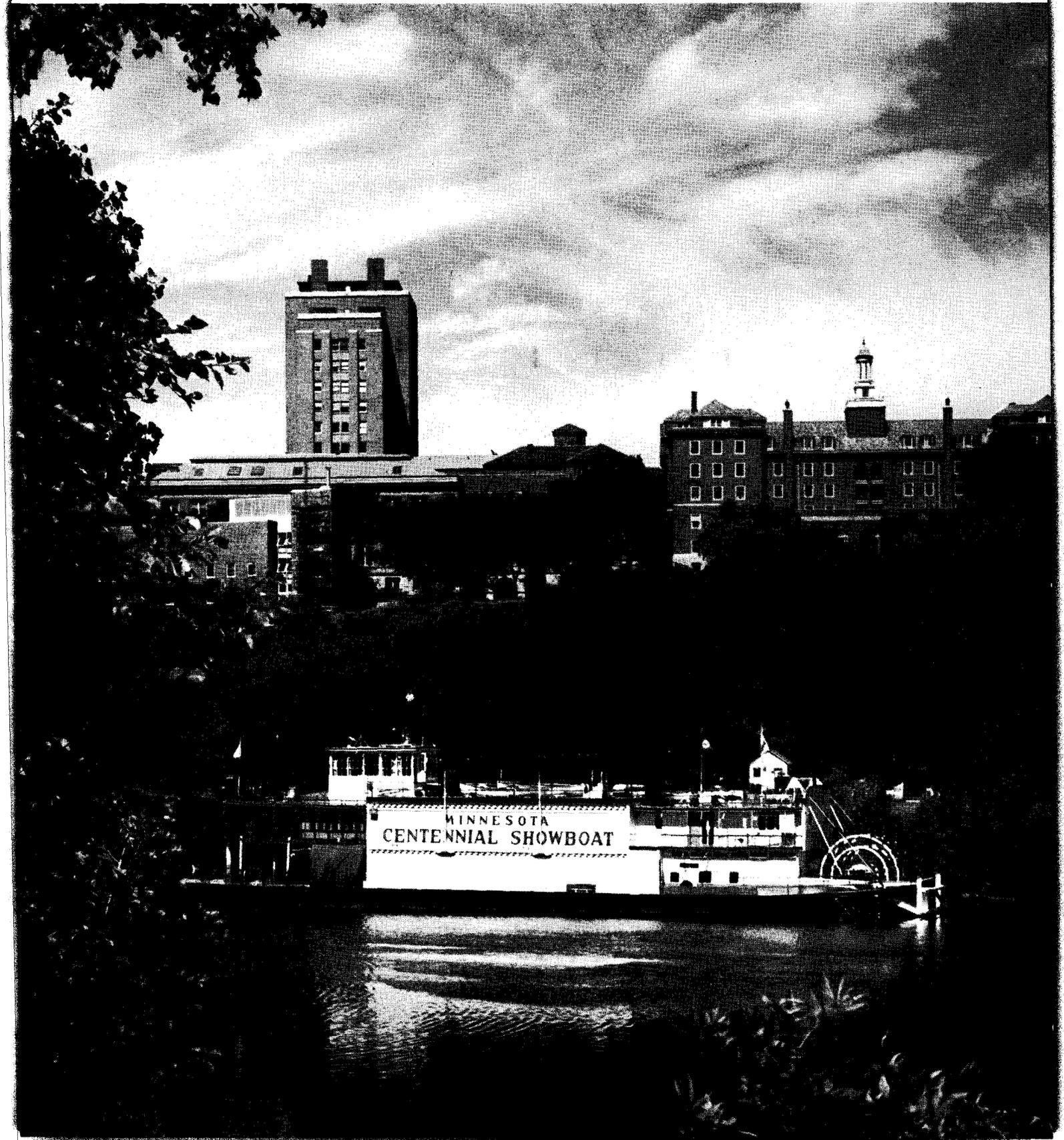
**Tickets for these events are also available at the St. Paul and Minneapolis ticket offices on Monday of the week prior to the performance.

THE MINNESOTAN

The University Staff Magazine

-

May, 1959



They Made Us Great

“THE ARCHITECT of the University’s destiny” is the way one University official has described William T. Middlebrook, vice president of business administration.

On June 30, after more than 33 years of directing the business affairs of one of the largest institutions of learning in the world, Vice President Middlebrook will retire. The University he will leave is vastly different from the University he came to in 1925, and many of the changes have been the result of the work of this man.

Vice President Middlebrook, in speaking to university and college business officers, once said, “We should solicit a closer partnership in academic matters and on our own initiative promote, interpret, and defend those things so essential to the success of higher education.”

What did he consider essential to the success of higher education?

First of all, the faculty — “we should interest ourselves in the personal welfare of the academic staff — the core of our enterprise.”

Secondly, the student — “ours is not the task of teaching them, but we can aid in attracting them through loans, scholarships, and work opportunities.”

Thirdly, the three-fold purpose of the University — “we must do our bit to keep the functions of instruction, research, and service in balance and on a basis of soundness and integrity.”

In his years at the University, Vice President Middlebrook has always kept these essentials in mind when charting the financial course of the University.

Thus, he worked to make available to faculty members

William T. Middlebrook, vice president of business administration.



the group life and disability insurance policy, and in 1935 the retirement plan for faculty members was put into effect. He has fought to keep tuition down so that education would be available to all, and he directed finances to help make possible the quick expansion during the influx of veterans following World War II.

Vice President Middlebrook was born in Vermont and received his B.A. and M.C.S. degrees from Dartmouth College. He was comptroller at Purdue University from 1922 until 1925 when he came to the University of Minnesota in the same capacity. He became vice president of business administration in 1943 following a reorganization which established the separate academic and business administrations.

In 1925 the University was little more than a cluster of buildings on the Mississippi River bluffs. The years since then have not been peaceful. Through the turbulence of a depression, a world war, and the post-war enrollment boom, it has been the job of Vice President Middlebrook to direct the financial affairs of an institution which has become a “big business.” Truly, it has been a gigantic task.

Vice President Middlebrook’s devotion to the University, and his understanding of the unique problems of the business of higher education have helped make the University the great institution it is today.

On the cover . . .

The University Theatre Minnesota Centennial Showboat will open its 10-week summer schedule on Tuesday, June 23. Productions this year will be *Billy the Kid* and *She Stoops to Conquer* with evening performances Tuesday through Sunday as well as a Sunday matinee. The Showboat will include Minneapolis, St. Paul, and Red Wing on its summer '59 schedule.

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Ann Tucker		Editor
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<p>Photographs, unless otherwise credited, were taken by members of the University Photographic Laboratory.</p>		
<p>Entered as second-class matter at the post office at Minneapolis, Minnesota.</p>		



A. I. Johnson, Benson, left, new University of Minnesota Regent, is pictured with Regents George W. Lawson, St. Paul; Ray J. Quinlivan, St. Cloud, chairman of the Board; and Richard L. Griggs, Duluth.

A. I. Johnson Becomes New University Regent

A. I. JOHNSON, Benson, Minnesota, real estate man and former speaker of the state House of Representatives, was installed as the newest member of the University of Minnesota Board of Regents at the May 8 meeting of the Board.

Regent Johnson was elected to his new position Friday, April 10, at a joint session of the state House and Senate. Re-elected to the Board of Regents at the same session were Marjorie J. Howard (Mrs. C. Edward), Excelsior, and Charles W. Mayo, M.D., Rochester, both regents-at-large, and Lester A. Malkerson, Minneapolis, regent from the Fifth Congressional District. All four were

elected for six-year terms.

Also a regent-at-large, Regent Johnson fills the seat vacated by Karl G. Neumeier, Stillwater, who did not seek re-election.

Long a firm friend of the University, A. I. Johnson served on the House Education Committee throughout his career in the Legislature (nine terms).

Speaker of the House during the 1955 and 1957 legislative sessions, he also served as a member of several interim study commissions on education, and in numerous other ways he has proved himself a man with a sincere interest in all aspects of higher education.

A Benson civic leader, he has served several terms as president of his local Chamber of Commerce; he has also been an active member of his church and of the Benson Kiwanis Club. He and Mrs. Johnson have two children, Marilyn, a junior, and James, a sophomore, both attending high school in Benson.

Commenting on his selection as a University regent, Mr. Johnson said that he considers it a "great honor and a privilege to be a member of the Board of Regents." He added that he looks forward "with pleasure to the opportunity to serve this great institution."

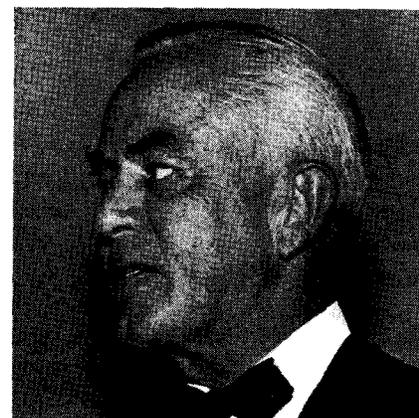
**Regent Lester A. Malkerson
Minneapolis**



**Regent Marjorie J. Howard
(Mrs. C. Edward), Excelsior**



**Regent Charles W. Mayo, M.D.
Rochester**





Associate Professor John Bowditch, chairman of the History Department, helped guide discussion groups at this year's Residential Seminar for High School Students.

Top High School Students Study, Discuss World Affairs at Residential Seminar

SEVENTY-FIVE GIFTED Minnesota high school students met in Minneapolis last month for three days of spirited debate and discussion on the topic, "The United States Foreign Economic Policy." The discussions were conducted during scheduled meetings, during late-hour sessions, and during lunch and dinner conversations. At the close of the three-day session, the students presented their conclusions in a formal paper.

These students, all with outstanding scholastic abilities and with keen interests in the social sciences, were participants in the second High School Residential Seminar sponsored by the Center for Continuation Study, the Minnesota World Affairs Center, and Macalester College.

The Seminar opened Thursday, April 16, with a group session in the Minneapolis Institute of Arts. That afternoon, students and professors divided into panel discussion groups, and that evening, Charles B. Marshall, visiting scholar from the Carnegie Endowment for International Peace, delivered the major address of the conference, the "Ends and Means of American Foreign Policy."

Formal Paper Drafted

"America's Policy for Military Assistance" and "Policy for Economic and Technical Assistance" were discussed on Friday. At the close of the session, the formal paper was drafted and then reviewed for

approval at the general session on Saturday morning. Henry M. Wriston, president emeritus of Brown University, presided at this meeting.

University Staff Members Participate

University of Minnesota faculty members who helped guide the discussions included John Bowditch, chairman of the History Department; Charles H. McLaughlin, professor of political science; Luther J. Pickrel, Agricultural Extension economist; Philip M. Raup, professor of agricultural economics, and Harlan M. Smith, associate professor of economics.

The idea for a high school seminar was conceived during the winter of

The Minnesotan

1956, many months before Sputnik created concern over the presumed lack of attention to the gifted high school student. James Treglawny, a Minneapolis public school educator, came to Associate Professor William C. Rogers, director of the World Affairs Center, with a problem. While there were many programs designed to challenge and recognize the student gifted in the physical and biological sciences, little was being done for the outstanding student interested in the social sciences.

Students Selected

As a step toward solving the problem, plans began for a high school residential seminar on world affairs. Letters and application forms were sent to 75 public, private, and parochial schools in the five-county metropolitan area surrounding and including the Twin Cities. It was suggested that nominations from each school be made by a committee of social studies teachers and that students recommended "should have an American Council on Education Examination score of 70 or more and rank scholastically in the upper one fourth of their class. They must have a keen and absorbing interest in world affairs."

Expenses Paid By Grant

A distinguished faculty was asked to participate, and arrangements were made to hold the meetings in the Minneapolis Institute of Arts and to house the students in a nearby motel. All expenses, except transportation for the participants, were met by a grant from the Hill Family Foundation, St. Paul.

University of Minnesota staff members who participated in last year's seminar on "The United States and the Far East" were Werner Levi, professor of political science; Richard B. Mather, associate professor of Slavic languages; Philip Siegelman, instructor in interdisciplinary studies;

John E. Turner, associate professor of political science; Chester W. Wood, director of student personnel services at Duluth, and Professor McLaughlin.

Also participating were Royden Dangerfield and Norman Graebner from the University of Illinois; Nathaniel Peffer from Columbia University; Lawrence S. Finkelstein, director of studies of the Carnegie Endowment for International Peace, and President Emeritus Brown.

This year, students came from several large schools outside the metropolitan area as well as from schools in Hennepin and Ramsey counties. Funds were provided by both the Hill Family Foundation and the Winton Fund, Minneapolis.

Planning Committee Members

Included on the planning committee for this year's seminar were Uni-

versity staff members Frederick E. Berger, director of the Center for Continuation Study; Russell M. Cooper, assistant dean of the College of Science, Literature, and the Arts; George H. McCune, professor in the General College; Gordon M. A. Mork, professor of education; Julius M. Nolte, dean of the General Extension Division; Barbara J. Stuhler, assistant director of the World Affairs Center, and Professors Rogers and McLaughlin.

Student participation in the seminars has been intelligent and enthusiastic. As one observer stated after last year's seminar: "Many times during the discussion, I had to jog my memory to remind myself that we were listening to high school students, *not* a gathering of University post-graduates, as their intellectual energies and performances seemed to indicate."



President Emeritus of Brown University, Henry M. Wriston, center, talks with Barbara J. Stuhler, assistant director of the World Affairs Center, and William C. Rogers, director of the Center. President Emeritus Wriston is president of the American Assembly, Columbia University School of Business, after which the high school seminar is patterned.

Univac Scientific Computer Opens New Horizons for University Researchers

THE UNIVERSITY'S million dollar computer — Univac 1103 — has been at work for a year. The Univac Scientific 1103 computing system, part of the Numerical Analysis Center of the University, is housed in the Scientific Computing Laboratory in the Experimental Engineering Building.

For approximately eight hours a day, this huge, complex apparatus (it has some 6,000 vacuum tubes wired into its circuits; the average television set has about 20) is being used by faculty members from many departments to study problems ranging from extra cellular space in the heart to the classification and scaling of inventory items.

Extends Scope of Research

Speaking at the dedication of the Univac Scientific last June, Theodore C. Blegen, dean of the Graduate School, said: We have seen a demonstration of the use of our high-speed digital computer in the field of physical chemistry; we have heard of its potential for research in other fields. We are seeing dreams walking, or shall I say computing . . . And we have seen a fine collaboration of the University with private and public fund-granting agencies for setting up a facility that almost certainly will alter the shape and extend the scope of much of our research."

Within the past year, the Univac Scientific has indeed had an impact on research at the University. Many problems which before could not have been solved because of the years of routine computation involved can now be solved in a matter of hours.

As Professor William G. Shepherd, head of the Department of Electrical Engineering and chairman of the Advisory Committee on Computer and Tabulating Facilities, said at the dedication, "The superior speed of these machines makes it feasible to make progress in research which requires computation beyond a limit which a man will undertake by more primitive means."

Physical Chemistry Studies

Professor William N. Lipscomb, chief of the division of physical chemistry, lists 14 studies, carried out with the aid of the 1103, which were completed in the last three years. Prior to May, 1958, University scientists had access to the 1103 at the St. Paul installation of Remington Rand. Of the 14 studies, eight were conducted at the St. Paul plant and took a total of 28 months, and six studies were completed in nine months by using the University's Univac 1103.

"The University is to be greatly complimented on the outright purchase of a facility such as the 1103, and for its use entirely as a research tool," says Professor Lipscomb. "As a result, we have had ready access with, generally speaking, less than a one day delay, a factor which has made a very great difference in the ease with which we are able to make use of the computer in our basic research program."

The 1103 has had a major role in Professor Lipscomb's studies of terpenes, a material produced by citrus and coniferous plants. It had been thought that the arrangements of

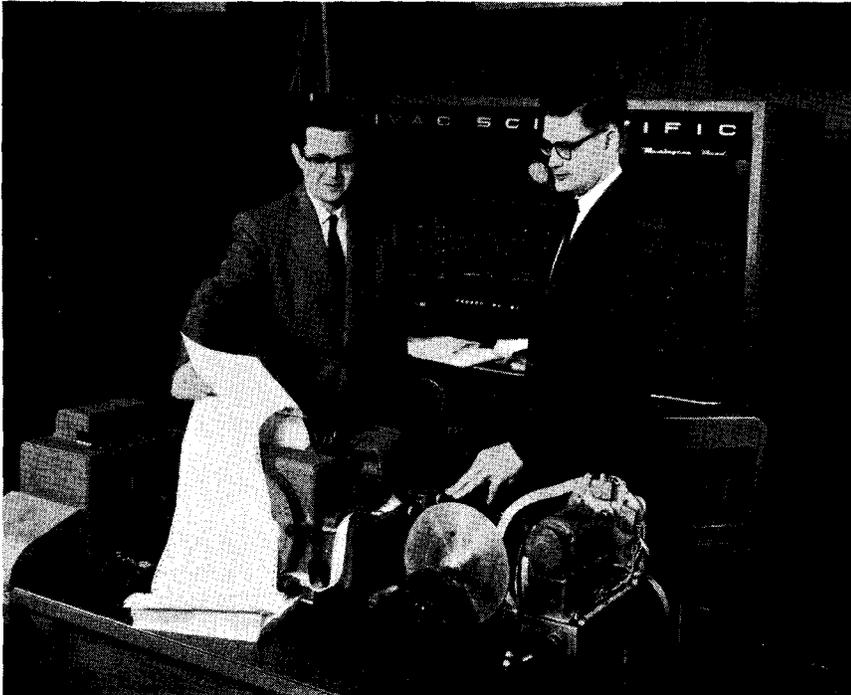
atoms in large and small terpenes were different. The studies showed that the arrangements were the same. This discovery is important in understanding the metabolism of such plants and how they are synthesized. Other scientists had been working on the study for years. Professor Lipscomb and Michael G. Rossman, formerly a research fellow in physical chemistry at the University, completed the study in six months.

Speed and Accuracy Stressed

The speed and accuracy of the Univac Scientific are stressed by Professor Kenneth E. Clark, chairman of psychology. Research problems in psychology which ordinarily would have required nine months of computing time have been completed in five hours.

Currently, Professor Clark is studying the relationships among occupational groups in terms of measured vocational interests and abilities. He says without the 1103 these studies probably would not have been done because of the great amount of tedious clerical work required.

In order for the 1103 to solve a problem, it must be programmed or instructed. Information fed to it must be in arithmetic terms. Researchers may receive advice and instruction in programming their problems and help in the actual operation of the computer from the staff in charge of administering the 1103. Marvin L. Stein, associate professor of mathematics in the Institute of Technology, directs all operations of the Scientific



Marvin L. Stein, director of the Scientific Computing Laboratory of the Numerical Analysis Center, and David A. Pope, assistant professor of mathematics in the Institute of Technology, are pictured with the Univac Scientific 1103 computing system.

Computing Laboratory of the Numerical Analysis Center. Donald W. Fenne, research fellow, and James F. Rude, Arthur Savran, and Grenith Zimmerman, research assistants, serve as consultants to people wishing to use the Univac Scientific.

Also on the staff of the Scientific Computing Laboratory are Sandra H. Stein, secretary, and Howard A. Knudtson, research fellow; John A. Hansen and James Phillips, engineering assistants, and Ronald R. Johnson, engineering assistant trainee, who assure the smooth operating condition of the electronic giant.

The 1103 is Object of Study

Professor Stein and David A. Pope, assistant professor of mathematics in the Institute of Technology, are using the 1103 to study mathematical numerical analysis and the computing machine itself. They hope to devise systems by which the machine can be used with the greatest possible ease.

To the layman, the intricate operations of the Univac Scientific almost seem to indicate that the machine has

a "brain." "The important thing to remember," says Professor Shepherd, "is that the machine is capable of doing only what man can do. It is a tool by which man can avoid the long hours of occupational drudgery which many problems previously required."

Many University researchers, studying problems in 19 various fields, have made extensive use of the 1103. They include: Rupert I. Murrill, assistant professor of anthropology; Professor Clark and Gardner Lindzey, professor of psychology; Otto H. Schmitt, professor of zoology; Chieh C. Chang and Rudolf Hermann, professors of aeronautical engineering; William F. Brown, professor, and Robert F. Lambert, associate professor of electrical engineering; Ernst R. G. Eckert and James P. Hartnett, professors, and Thomas F. Irvine, associate professor of mechanical engineering; Professor Neal R. Amundson, head, and Arthur J. Madden, associate professor of chemical engineering; Edward P. Ney, professor, Warren B. Cheston, associate professor, and Paul J. Kellogg, assist-

ant professor of physics, and Hans-Arwed Weidenmuller, research associate in physics.

Also: Ralph E. Comstock, professor of animal husbandry; Theodore A. Olson, professor in the School of Public Health; Dr. Bernard C. Glueck, associate professor of psychiatry; William O. Caster, assistant professor of physiological chemistry; C. Gilbert Wrenn, Maynard C. Reynolds, and Willis E. Dugan, professors, and Cyril J. Hoyt, associate professor of education; Ellis P. Torrance, director of the Bureau of Educational Research; Joseph R. Berkson, professor of biometry and medical statistics at the Mayo Foundation; John E. Wertz, professor of physical chemistry, and Professor Bryce Crawford, chairman of chemistry.

Committee Determines Policy

Policies for the operation of the Numerical Analysis Center are determined by the University Advisory Committee on Computer and Tabulating Facilities. Members, in addition to the chairman, Professor Shepherd, are: Francis M. Boddy, professor of business administration; John G. Darley, associate dean of the Graduate School; William L. Hart, professor of mathematics in the College of Science, Literature, and the Arts; Leonid Hurwicz, professor of business administration; Laurence R. Lunden, treasurer and comptroller; Professor Will M. Myers, head of agronomy and plant genetics; Stefan E. Warschawski, head of mathematics in the Institute of Technology; and Professors Clark, Cheston, and Crawford.

The Univac 1103 was acquired from Remington Rand at a substantial educational discount with funds provided by the National Science Foundation, the Hill Family Foundation of St. Paul, the Sloan Foundation of New York, and various University divisions including the Graduate School, the Social Science Research Center, the Institutes of Agriculture and Technology, and the College of Education.



George P. Hager

George P. Hager, dean of the College of Pharmacy, is currently serving as a consultant to the director of research and personnel of the Atlas Powder Company, Wilmington, Delaware. Dean Hager, who came to the University in 1957, received his B.S., M.S., and Ph.D. degrees from the University of Maryland.

HAVE YOU MET?



James H. Rothenberger

James Rothenberger, senior medical photographer in the School of Dentistry, has been named chairman of the motion picture committee of the Biological Photographic Association. The committee seeks to raise the standards of biological motion pictures and supervises the association's yearly international competition.



Gertrude Malmquist

Gertrude Malmquist, custodial worker in the Administration Building, is proud of her record of 16 years of service at the University. Before working in the Administration Building, Mrs. Malmquist worked in Folwell Hall and the Temporary South of Folwell.

Ruth H. Richards

Ruth Richards is an assistant professor of physical education and head of the Women's Department of Physical Education on the Duluth Campus. A graduate of Winona State College and Wellesley College, she joined the Duluth Campus staff in 1950.



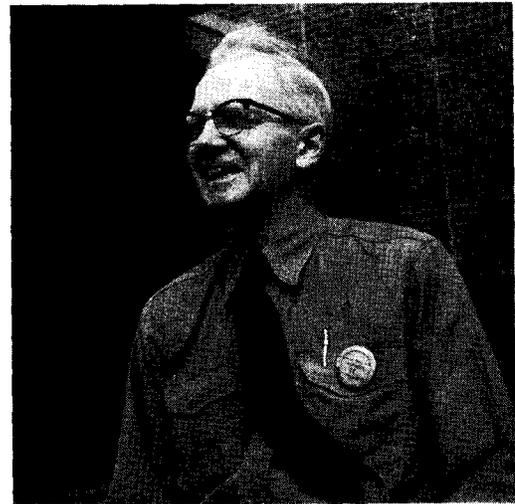
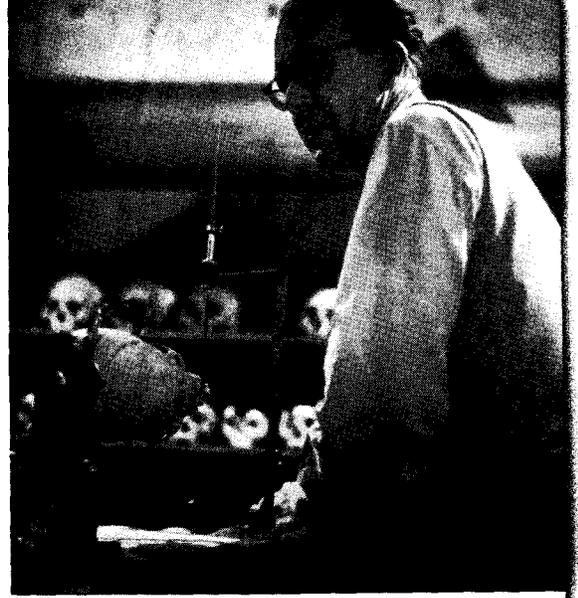
The Minnesotan

Rupert I. Murrill

New to the University staff this year, Rupert Murrill, assistant professor of anthropology, taught at the University of Kansas before coming to Minnesota. Reared in England, he studied at McGill and Columbia Universities and has been a member of several anthropological expeditions, including one to Puerto Rico in 1948.

Keith N. McFarland

As professor and assistant director of resident instruction of the Institute of Agriculture, Keith McFarland teaches an orientation course for new freshmen and coordinates the program of student counseling within the College of Agriculture, Forestry, and Home Economics.



Leslie N. Stenseth

Leslie Stenseth, senior building caretaker, has seen many changes at the University during his 23 years of service. Mr. Stenseth, a native of Minneapolis, has a two-fold interest in the University. Both his son and daughter are Minnesota graduates.

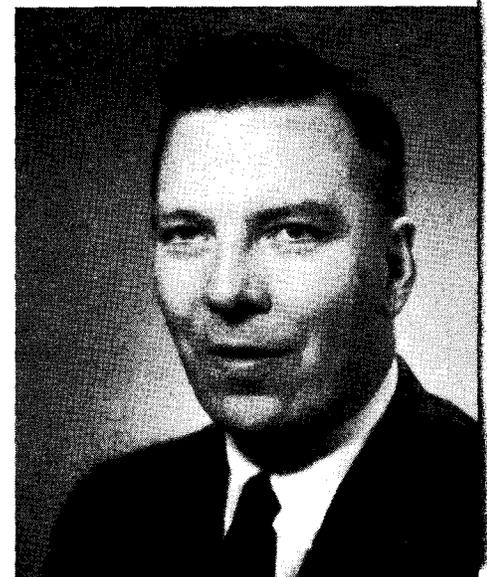


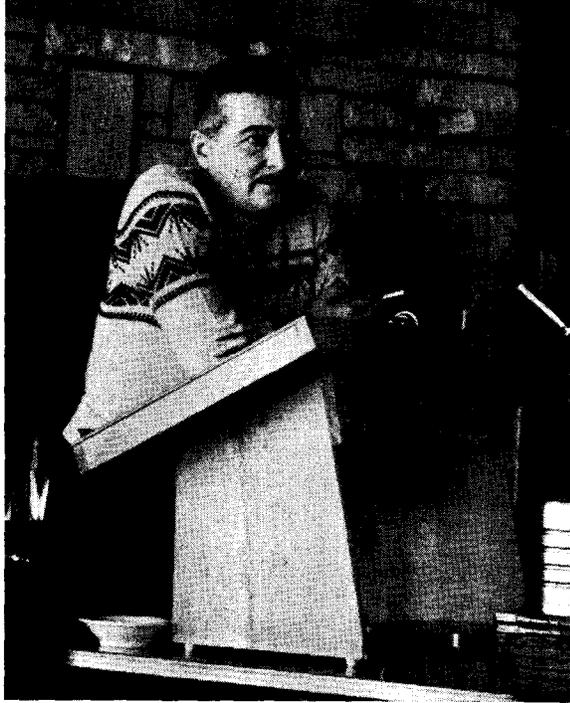
Shirley Erickson

Shirley Erickson, a graduate of the University in 1955, is now on the staff as an instructor in Agricultural Extension. An Extension clothing specialist, Miss Erickson conducts projects in clothing textiles in county Extension home programs.

Richard J. Donnelly

As the new assistant director of physical education and athletics for men, Richard Donnelly succeeds Professor Louis F. Keller who will retire in June. Associate Professor Donnelly, who joined the University staff in 1955, has been in charge of graduate work in physical education.





Ralph G. Ross, professor of interdisciplinary studies, helped plan and organize the first Dean's Retreat held in 1956.

Special Incentives, Awards, And Assignments Encourage Superior-Ability Students

WHAT SPECIAL opportunities does the University of Minnesota offer to the student of outstanding ability?

Recently this inquiry was circulated throughout the University. The response from the various colleges indicates that the University is giving particular attention, ranging from counseling service to special assignments and incentives, to the student with demonstrated or potential superior ability.

University counseling services play a special role, both in identifying the superior student and in helping him select and plan the program which will enable him to get the most out of his college experience.

Many colleges offer special assignments to the gifted student. For example:

The School of Dentistry provides arrangements for qualified students to be excused from regular classes to assist in teaching and research.

For several years, Arthur N. Milgram, professor, and Warren B. Stenberg and James E. Thompson, assistant professors of mathematics in the Institute of Technology, have given time in addition to their regular duties to teach special classes in freshman mathematics on Saturday mornings. The best high school seniors in the Twin Cities area are invited, free of charge, to attend these classes. If the student does a good job in these classes he can, in effect, get credit at the University for his entire freshman year of mathematics in the Institute of Technology.

Special recognition and awards are part of the University's program to encourage superior students. For example, last year the College of Science, Literature, and the Arts experimented with a specially selected group of 25 of the highest ability freshmen who met once a week. The purpose of these meetings was to introduce the students to several distinguished faculty and staff members,

to help them get some basic understanding of some of the subject matter areas in the University, and to stimulate them to an interest and concern for educational and intellectual matters.

The University also uses non-curricular activities to encourage the gifted student. Since 1956 a Dean's Retreat for gifted freshmen has been held at least once a year. Those students who achieve a B average or higher and are at the 90th percentile or higher in the American Council on Education Examination are invited to attend the camp retreat.

The camp is casual and offers students a chance for intellectual conversation with highly selected members of the faculty. Lectures are followed by informal discussions with time out for recreation.

Edmund G. Williamson, dean of students, was instrumental in formulating plans for this special Dean's Retreat which seeks to introduce incoming freshmen to the cultural and intellectual aspects of University life. Ralph G. Ross, professor of interdisciplinary studies, and Norman J. DeWitt, chairman of the Department of Classics, planned and presented the first program. Since then, five freshman retreats have been held. Two were held in 1957 and two were held this year.

These special offerings are just a sample of the many opportunities made available to the gifted student at the University. In addition, of course, instructors arrange for special assignments and opportunities to be made available to superior students in regular classrooms. As the summary of the response from the colleges states: "It is encouraging to representatives of the University to note that even in a period of increasing enrollments and larger class sizes, careful attention is being given to the conservation of our best human resources."

Have You Heard?

Awards and Honors

• FRANK H. KAUFERT, director of the School of Forestry, has been named the recipient of the 1958 Dr. Robert G. Green Award presented by the Conservation Committee of the Minneapolis Junior Chamber of Commerce. Professor Kaufert was cited for his support of reforestation and tree farming projects.

• HERBERT M. BOSCH, professor of environmental sanitation in the School of Public Health, has received the University of Missouri's honor award for "distinguished service in engineering."

• WILLIS E. DUGAN, professor of education, was honored recently by the Student Personnel Association for Teacher Education. The award was presented "in appreciation for outstanding service to the personnel and guidance profession." Professor Dugan was one of the founders and first president of the Association which specializes in the improvement of counseling services in schools and in teacher education.

• ELOISE M. JAEGER, associate professor of physical education for women, received an honor award recently from the Central District Association for Health, Physical Education, and Recreation. Professor Jaeger is the author of numerous handbooks and articles in the field of physical education for women.

• HUAL-CHANG CHIANG, associate professor of biology at Duluth, is one of four scientists outside England named recently to the Royal Entomological Society of London. Professor Chiang has done extensive research on the fruit fly, the European corn borer, and other insects.

• DR. CHARLES W. MAYO, University Regent, has received the Silver Antelope Award of the National Council, Boy Scouts of America, for "distinguished service to boyhood." The award was presented to Dr. Mayo for his "interest and leadership in the American Association for the United Nations as related to the health and welfare of youth, and [for] his continuing interest in the scouting program." The presentation was made by DR. E. H. RYNEARSON, professor of medicine at the Mayo Foundation, a former recipient of the Silver Antelope Award.

• PHILIP D. JORDAN, professor of history, recently received an LL.D. degree from Monmouth College.

May, 1959

Alumni Clubs to Sponsor Student Groups

• Arrangements have been made for Minnesota alumni clubs to sponsor appearances of such organizations as the University of Minnesota Band, Orchestra, Glee Club, Chorus, and the University Theater, in cities and towns throughout the state. Various civic groups wishing to bring these student organizations to their towns may make arrangements with the presidents of their local alumni clubs or by contacting the Minnesota Alumni Association, 205 Coffman Memorial Union, Minneapolis Campus.

"M" Club Public Relations Consultant Resigns

• The following letter of resignation was submitted recently to the "M" Club by Paul A. Severeid, who operates a public relations firm in the Twin Cities. Mr. Severeid had been employed by the "M" Club to handle its public relations program.

April 1, 1959

Mr. Norbert T. Koch, Jr.
Vice President, The "M" Club
1120 Builders Exchange Bldg.
Minneapolis 2, Minn.

Dear Norb:

Following long and careful examination of conscience, I must advise that this letter constitutes my notice of resignation and disassociation from affiliation with "M" Club public relations.

It was my hope that your cause could be advanced effectively and with purpose for the common good. It has become apparent that such is not possible under existing circumstances, for pronouncements from members of your board of directors, as quoted in the press and in other media, give evidence that your people and those dedicated to your purpose are unwilling to accept any position other than your own. As a personal matter, I have a deep and lasting loyalty toward my University, and I am unable to subjugate professional accomplishment in another direction. It is my sincere hope that you and your members will find some means through which you will be able to solve your problem. I regret that I can assist you no further.

Cordially,

Paul A. Severeid

Staff Leaves, Fulbright, Guggenheim Awards

• Staff members who will be on sabbatical leave during the 1959-60 academic year include: ERNEST C. ABBE, professor of botany, who will collect and study the materials of the "Fagaceae" (Oak family) in Thailand and other regions of the South-east Pacific; HERBERT McCLOSKEY, professor of political science, who has accepted a Rockefeller Foundation fellowship to work on the analysis of data resulting from research carried out through the Laboratory for Research in Social Relations; and CHARLES H. McLAUGHLIN, professor of political science, who will devote a year to writing an introductory manual of international law.

RUFUS W. LUMRY, professor of chemistry, will do research in Copenhagen, Denmark, Gottingen, Germany, and Cambridge, England; THOMAS F. IRVINE, Jr., professor of mechanical engineering, will study heat transfer and fluid mechanics at various universities in Europe; C. GILBERT WRENN, professor of education, will study philosophical and psychological conditions related to student personnel work at various English colleges and universities during the fall quarter; and NORTON M. HINTZ, associate professor of physics, will study at the Institute for Theoretical Physics in Copenhagen.

Also on leave during 1959-60 will be KENNETH MACCORQUODALE, professor of psychology, who will be a visiting professor at the University of California; WILL M. MYERS, head of agronomy and plant genetics, who has accepted an assignment with the Rockefeller Foundation as special consultant to assist in the development of graduate education with the Indian Agricultural Research Institute; SIDNEY C. LARSON, associate professor of electrical engineering, who has accepted a National Science Foundation fellowship at Stanford University; and KENNETH C. DAVIS, professor of law, who will study administrative law and practice in Great Britain on a Ford Foundation fellowship.

• Single quarter leaves for 1959-60 have been granted to GEORGE AMBERG, professor of interdisciplinary studies, to complete his study of the theory and aesthetics of the film; to HUNTINGTON BROWN, professor of English, to complete a book on the chief generic forms and styles of prose discourse; to ALAN DONAGAN, associate professor of philosophy, to complete a book on R. G. COLLINGWOOD; to NINA DRAXTEN, assistant professor in the General College, to continue work on a critical biography of Kristofer Janson; and to LORENZ E. A.

(Continued on page 12)

HAVE YOU HEARD?

(Continued from page 11)

EITNER, professor of art, for a study of English painting.

JESSE E. FANT, assistant professor of civil engineering, has been granted a single quarter leave to study modern equipment used in the surveying and mapping field; WENDELL P. GLICK, associate professor of English at Duluth, to complete a biography of Lydia Maria Child; ROBERT L. HELLER, associate professor of agricultural engineering, for a study of erosion control problems; and to MAUDE L. LINDQUIST, professor of history at Duluth, to edit the diaries of Edmund F. Ely and James Peet.

R. DALE MILLER, professor of humanities at Duluth, will study Italian art; MALCOLM H. MYERS, associate professor of art, will observe methods of teaching art in New England universities; FRANCIS V. RAAB, associate professor of philosophy, will write on topics concerned with the theory and justification of punishment; ROBERT E. SLOAN, assistant professor of geology, will prepare reports on Minnesota limestone and on the cranial morphology of the cretaceous fish, *Ichthyodectes*; and JOHN E. STECKLEIN, professor of education, will study the administrative relationships between the state college system and the university system in California.

GERTRUDE STRINDEN, instructor in home-making at the Southern School of Agriculture at Waseca, will travel in Europe to collect materials for classroom presentation; and DR. MAURICE B. VISSCHER, head of physiology, will be chairman of a conference team which will study medical developments in Japan.

• Staff members receiving Fulbright awards include ALBERT TEZLA, associate professor of English at Duluth, who will study the development of the romantic literature of Hungary; DAILEY B. TERRELL, associate professor of philosophy, who will conduct research on philosophy at the University of Innsbruck, Austria; MONROE D. DONSKER, professor of mathematics in the College of Science, Literature, and the Arts, who will conduct research in mathematics at Aarhus University, Denmark; KARL H. POTTER, assistant professor of philosophy, who will study Indian Philosophy at Banaras Hindu University, India; CARL L. NELSON, professor of accounting, who will lecture on cost accounting in Turku, Finland, and do research on general business management in Western Europe; and ROBERT E. NYLUND, associate professor of horticulture, who will help establish a curriculum and a research program for the newly organized department of horticulture at Helsinki University, Finland. Professor Nylund will also study the influence of a subarctic climate on the growth and production of vegetable crops.

• Guggenheim fellowship awards have been granted to IRWIN J. GOLDSTEIN, instructor in agricultural biochemistry; LENNOX A. MILLS, professor of political science, and JOHN B. WOLF, professor of history.

Appointments and Elections

• LAURENCE R. LUNDEN, University of Minnesota comptroller since 1943, will succeed WILLIAM T. MIDDLEBROOK as vice president of business administration effective June 30, 1959.

A native of Watertown, S.D., Mr. Lunden joined the University staff in 1929 as a teaching assistant in the School of Busi-



Laurence R. Lunden

ness Administration. He also served as an instructor and as an investment counsel before being named assistant comptroller in 1941. Two years later he became comptroller, and in 1951 he was given the additional position of treasurer.

Recipient of an honorary doctor of laws degree from Luther College, Decorah, Iowa, he was also honored by his alma mater, Grinnell College, in 1957 with a citation for "meritorious accomplishment."

He is one of the founders of the School of Banking at the University of Wisconsin where he serves as a member of the faculty and as a member of the administrative committee.

• Several new appointments in the Department of Physical Education and Athletics for Men have also been announced.

JOHN KUNDLA has been named University basketball coach succeeding OZZIE B. COWLES. Mr. Kundla, who has been associated with the Minneapolis Lakers since 1947 as coach and as general manager, has held coaching positions at De La Salle High School, Minneapolis, and at the College of St. Thomas, St. Paul. He was an assistant coach at the University in 1945. A graduate of the University of Minnesota, Mr. Kundla was captain of the 1939 basketball team.



John Kundla

• EUGENE E. STISH, has been appointed an assistant professor of physical education and athletics, and RICHARD A. BORSTAD and JAMES E. REISE, assistant coaches.

• DR. WESLEY W. SPINK, professor of medicine, was elected first vice president of the American College of Physicians at the organization's annual meeting held in Chicago last month.

• RUDOLPH JOHNSON has been appointed librarian at Duluth succeeding JOSEPH RICHARDSON. Mr. Johnson has been on the University staff since 1951, first as a junior librarian on the Minneapolis Campus, then as senior librarian in charge of acquisitions on the St. Paul Campus.

May-June University Hour TV Schedule

• The May-June, 1959, schedule for the University of Minnesota Hour seen over KTCA-TV (Channel 2) from 9:00 to 10:00 P.M. Monday through Friday includes:

Monday: "At Home With Music" with NORMAN ABELSON, assistant professor of music, and "Profiles in Conflict" with WILFRED O. STOUT, Jr., assistant professor in the General College; *Tuesday:* "Controlling Human Behavior" with ROY G. FRANCIS, associate professor of sociology, and "In A Manner of Speaking" with JACOB J. LAMBERTS, visiting lecturer in English; *Wednesday:* "Aspects of India" with Burton Stein, assistant professor of history, and KARL H. POTTER, assistant professor of philosophy, and "The World of Folk Song" with GENE BLUESTEIN, instructor in English; *Thursday:* "Current Issues" with ROBERT LINDSAY, instructor in journalism, and "Town and Country" with RAYMOND S. WOLF, Agricultural Extension information specialist; *Friday:* "Viewpoint" with ROBERT L. SCOTT, assistant professor of speech, and "American Architecture" with JOSEPH M. SHELLEY, assistant professor of architecture.

Regents Scholarships

• Regents scholarships for the spring quarter have been awarded to: DONALD S. BATTLES, principal laboratory attendant, Surgery; LORRAINE L. BISSONNETT, senior clerk, Duluth Campus Library; HELEN R. BUHIL, senior clerk typist, Graduate School; BEVERLY MAE COLE, senior account clerk, Coffman Memorial Union; GAIL A. ECKBLUM, senior clerk, Payroll Department; ELVERA M. ERICKSON, senior secretary, Trade and Industrial Education; ETHEL FAIRCHILD, senior clerk typist, Student Personnel Services, Duluth; DORIS S. FERWEDA, secretary, Psychology; PHYLLIS D. FREDERIKSEN, secretary, Metallurgy; ERNEST A. GREENE, junior scientist, Physiology; ROBERT L. HUGHES, laboratory technologist, Agricultural Biochemistry; RUTH D. KNUDSEN, senior clerk, Agriculture Library; ALTON L. KOLLMAN, manager, Coffey Hall Bookstore; and MAXINE LARSON, editorial assistant, St. Paul Campus Information Service.

Also: JOANNE M. LAUDENSLAGER, senior clerk typist, Music; JOYCE E. LOUNBERG, junior scientist, Pediatrics; LOIS A. LUNDBERG, principal clerk, Correspondence Study; JUDITH ANN MACMASTER, clerk typist, General Extension Division; MARIAN A. MILLER, head nurse, Variety Club Heart Hospital; MORRIS A. MITTENESS, acting farm and grounds superintendent, St. Paul Campus; DOLLY MAE NELSON, head nurse, University Hospitals; M. ARLETTE NYBERG, senior clerk typist, Student Counseling Bureau; VERA MAY OLSEN, senior clerk typist, Electrical Engineering; BETTY M. PRIGGIE, senior dietitian, University Hospitals; NORMAN L. RICK, engineer, Physical Plant; BETTY ANN RUSPINO, student technologist supervisor, Medical Technology; MARIE B. SATHRUM, senior secretary, Music; ARTHUR W. SCHWALM, electronics mechanic, Physical Medicine and Rehabilitation; KATHRYN L. SMITH, laboratory technologist, College of Veterinary Medicine; LAVONNE J. STUPL, general staff nurse, University Hospitals; RUSSEL L. TROY, engineering assistant, Physical Plant; ROBERT A. WALKER, vocational counselor, Physical Medicine and Rehabilitation; and BARBARA J. ZITTEL, senior clerk typist, Audio-Visual Education.

• Staff members who have received General Extension Division Regents Scholarships for the spring quarter are RUDOLPH H. FISCHER and FLOYD LEE HENDERSON, senior clerks, Walter Library.

1958-59 Retiring Staff Members

University staff members, who, as of April 20, have retired, or who have announced plans to retire during the current academic year, are: DATUS E. ABENDROTH and CARL I. ANDERSON, utility men, Physical Plant; CARL R. ANDERSON, carpenter,

Physical Plant; OSCAR M. ANDERSON, utility man, West Central School and Experiment Station at Morris; FANNIE P. ASSA, laundry worker; CHRISTINE BATES and JEANETTE BERGESON, hospital aides, University Hospitals; BERNARD W. BIERMAN, professor of physical education and athletics for men; RUTH E. CARLSON, senior cashier, Institute of Agriculture; HELEN M. CARTER, hospital aide, University Hospitals; WILLIAM CRICKMER, building caretaker, Physical Plant; KATHARINE J. DENSFORD, director of the School of Nursing; LYNWOOD G. DOWNS, professor of German; E. HAZEL ENGELSGJERD, cook, Coffman Memorial Union Food Service; CHARLES FELDICK, laborer, Agronomy and Plant Genetics; LOUISE FELLON, senior food service worker, Coffman Memorial Union Food Service; R. CHRISTINA FLATIN, cook, West Central School and Experiment Station at Morris; ALBERTA M. GOODRICH, office supervisor, College of Science, Literature and the Arts; JOHN GRECA, laborer, Physical Plant; and JOHN W. GRUNER, professor of geology.

Also: DR. HAROLD C. HABEIN, assistant professor of medicine at the Mayo Foundation; FRED HAWKINSON, building caretaker, Physical Plant; GLADSTONE B. HEISIC, professor of inorganic chemistry; JULIA F. HERRICK, professor of biophysics at the Mayo Foundation; HARRY W. HOWARD, custodial worker, University Hospitals; OTTILIE G. JOHNSON, hospital aide, University Hospitals; LOUIS F. KELLER, assistant director of physical education and athletics for men; LAWRENCE KNAPP, sheet metal worker, Physical Plant; LUCILLE S. KOPITCKE, senior laboratory attendant, Veterinary Diagnosis Laboratory; JOSEPH F. KUEHN, fiscal officer, Agricultural Extension Service; ESTELLE LAMBERTON, recreation worker, Coffman Memorial Union; LYDIA B. LINSLEY, office supervisor, Cancer Detection Center; ELINA LIUKKONEN, food service worker, St. Paul Campus Cafeteria; CLARENCE C. LUDWIG, professor of political science; RUBY M. MCCOLLEY, custodial worker, Territorial Hall; WILLIAM T. MIDDLEBROOK, vice president of business administration; HAZEL MILLER, food service worker, University Hospitals; DR. HAMILTON MONTGOMERY, professor of dermatology at the Mayo Foundation; HENRY W. MORRIS, senior medical photographer, and HOWARD D. MYERS, professor of mechanical engineering.

Also: GRACE C. NELSON, director of women's residences; GRACE R. NELSON, principal accounting clerk, Physical Education and Athletics for Men; FRED NEWTON, building caretaker, Physical Plant; THOMAS L. O'HEARN, attorney and real estate manager; LOUISE P. OLSEN, secretary, History; BERTHA J. OLSON, attendant, Institute of Agriculture; HULDA M.

OLSON, food service worker, Comstock Hall; FLORENCE PATTERSON, laundry worker; NORVILLE C. PERVIER, professor of inorganic chemistry; HAROLD T. PETERSON, building caretaker, Physical Plant; MARY A. PETERSON, laboratory attendant, Pediatrics; WALTER C. PITRA, building caretaker, Health Service; GRACE M. ROTH, professor of physiology at the Mayo Foundation; MAMIE A. SANDER, custodial worker, Territorial Hall; DR. CARL F. SCHLOTTHAUER, professor of veterinary medicine at the Mayo Foundation; LOUIS SCHWARTZ, plumber, Physical Plant; MARY O. SEIFERT, custodial worker, Sanford Hall; and CONRAD SEITZ, bursar, Comptroller's Office.

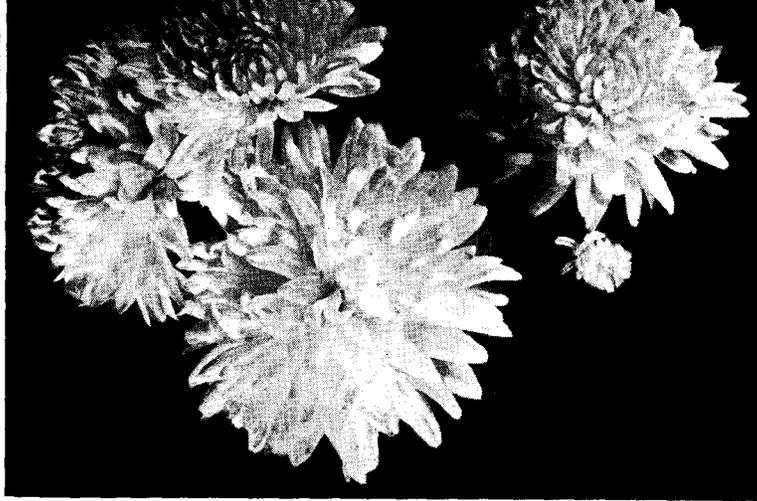
Also: FAY M. SHALER, hospital aide, University Hospitals; MARY J. SHAW, associate professor of philosophy; RUTH C. SMITH, principal secretary, College of Medical Sciences; HENRY B. SNETTING, building caretaker, Physical Plant; DR. EDWARD C. STAFNE, professor of dental surgery at the Mayo Foundation; FLORA M. STAPLE, assistant professor in the division of education and psychology at Duluth; ARTHUR STAUFFER, building caretaker, Physical Plant; HELMER STAUPE, building caretaker, Rosemount Research Center; LAWRENCE D. STEEFEL, professor of history; MILES A. TINKER, professor of psychology; ROBERT H. TUTTLE, lecturer in the General Extension Division; MABEL B. VICTOR, residence director, Winchell Cottages; KATE WALOVICZ, cook, University Hospitals Food Service; LLOYD A. WILFORD, professor of anthropology; HARRY L. WILSON, assistant supervising engineer, Physical Plant; JOSEPH C. WOODMAN, construction superintendent, Physical Plant; HENRY G. ZAVORAL, professor and Agricultural Extension animal husbandman, and MILDRED R. ZIEGLER, associate professor of pediatrics.

Credit Union Membership Increases

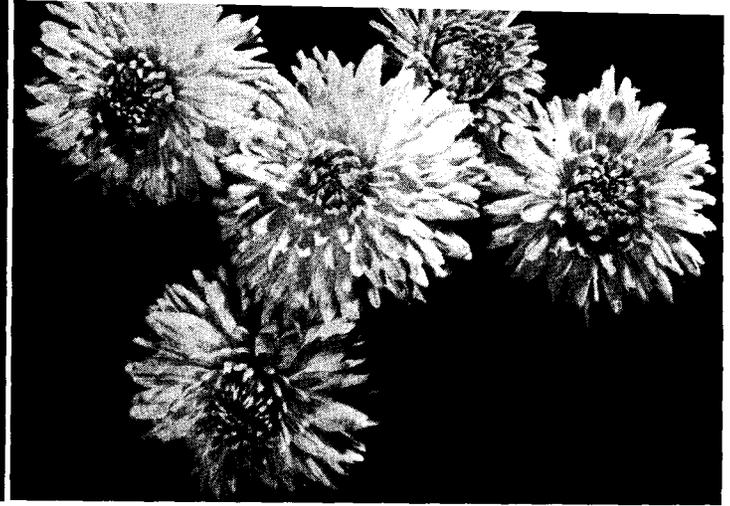
• The March 31, 1959, financial statement of the State Capitol Credit Union shows that the total number of members increased from 9,445 in March, 1958, to 11,684 one year later. The number of borrowers increased from 4,576 to 4,761 during the same period. Total resources totaled \$8,121,197.62 in March, 1959, and \$5,836,814.43 in March, 1958.

New Facilities at Duluth

• During the summer of 1959 male students at Duluth will begin moving into the 64-resident residence halls section occupied by women since the section was completed in 1956. Women will be assigned to the new 116-resident section now being completed. These facilities are all located on the new or "upper" Duluth Campus.



Prairie Moon



Tonka

New Fruit, Flowers Ready for Minnesota Gardeners

MINNESOTA GARDENERS can again thank University horticulturists for developing new flowers and a new fruit especially adapted to growing conditions in the state.

This year's introductions are a deep yellow garden chrysanthemum, *Tonka*, a creamy-white chrysanthemum, *Prairie Moon*, and a bright red extra-early, productive June-bearing strawberry, the *Earlimore*.

Plants of the new flower and fruit varieties are available from nurseries in this area for spring planting.

Introduction of the two new 'mums brings to 39 the number of garden chrysanthemums developed by University horticulturists for northern climates. Robert A. Phillips, assistant professor, and Richard E. Widmer, associate professor of horticulture, are responsible for the development of these new flowers.

Tonka is a large-flowered (3½ inch), fully double, deep yellow variety. The flowers and rich green foliage are borne on stiff stems. A feature of *Tonka* is that an open center is never visible in the flower. The plant grows to a height of 20 inches and spreads to 30 inches. The flowers bloom from early September until hard frost.

Prairie Moon is a creamy-white, double-flowered variety with large blossoms four inches in diameter. When the flowers are fully open, a

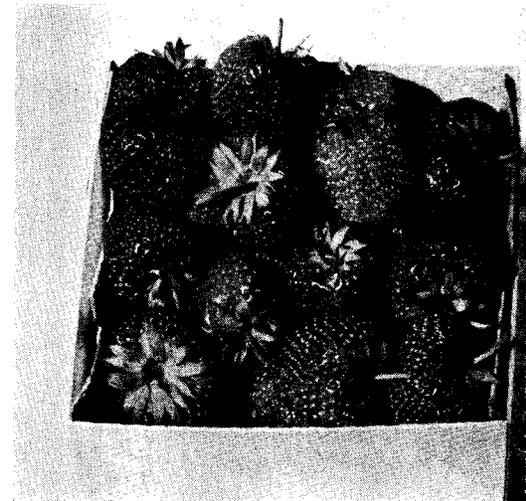
gold center is usually visible. A prolific bloomer, the willowy plant has rich green foliage. Because the height is 24 to 30 inches, *Prairie Moon* should be used toward the rear of the flower border. The plant spread is 18 to 24 inches. The flowers bloom from early September until frost.

The *Earlimore* strawberry was developed at the Fruit Breeding Farm near Excelsior. Arthur N. Wilcox, professor of horticulture, and Theodore E. Weir, assistant superintendent of the Fruit Breeding Farm, had charge of the breeding and field testing of the strawberry. James D. Winter, associate professor of horticulture, and Shirley Trantanella, instructor, tested the freezing quality of the new fruit.

The strawberry has medium-large, bright red, firm but juicy berries with a pleasant flavor. Total crop yields are high, and fruit size holds well throughout the season. Commercial growers report that the brightness of color has unusual sales appeal. The early yield gives the *Earlimore* a price advantage since it is the first home-grown berry on the market.

The fruit is suitable for fresh dessert use; it is also suitable for freezing.

The *Earlimore* develops a wide row of vigorous plants which appear to be highly resistant to leafspot and to scorch. Survival of plants after winter



Earlimore

has been consistently high in Minnesota tests.

The *Earlimore* should not be confused with the *Evermore*, an ever-bearing variety introduced by the University of Minnesota in 1945.

A complete description of the two new chrysanthemums is given in University of Minnesota Agricultural Experiment Station Miscellaneous Report 33.

More information on the new strawberry is available in Miscellaneous Report 34, "A New Fruit Introduction for 1959." Both reports may be obtained from the Bulletin Room, Institute of Agriculture, University of Minnesota, St. Paul 1.

The Minnesotan

THE QUESTION IS:

What Policies Govern the Printing Of Official University Publications?

THE POLICIES for University publications, whether they are bulletins, brochures, or stationery, are governed by the Senate Committee on University Printing and Publications.

The Committee shall, as stated in the By-laws of the Senate, "set standards for all catalogs, bulletins, and other official publications, also the stationery of the University and of the various institutes, colleges, schools, departments, and administrative units of the University [and] advise with regard to the admissibility of new publications or printing to the lists of official publications or printing of the University and its institutes, colleges, schools, departments, and administrative units."

New Publications Need Approval

Staff members wishing to publish material for which there is no precedent, such as a new brochure or series of brochures, must first have the approval of this Committee.

The Committee also establishes the form which all University stationery must follow, and no changes in the letterhead may be made by any department without prior approval of the Committee.

Also, "No department or unit of the University may secure letterheads, brochures, reports, etc., using the name of the University as the issuing agent except via a regular or printing requisition as provided in the 'Manual of Business Procedures.'"

Currently, the Committee is asking deans, department heads, and administrative officers for suggestions regarding possible changes in the letterhead.

Printing Procedures

Printing procedures and standards for University publications are outlined in the "Manual of Business Procedures" and the "Manual on Preparation of Bulletin Copy."

The "Manual of Business Procedures" includes such information as what requisition forms to fill out, how copy is prepared for the printer, and how the printing job is billed.

The "Manual on Preparation of Bulletin Copy" out-

lines rules for preparation of copy for official University bulletins, including rules for spelling and punctuation. (The University uses Webster's Dictionary as its authority. It also follows the Government Printing Office manual regarding style rules on numerals.)

The actual copy for University publications is not checked by the Printing Committee. Copy written by Institute of Agriculture staff members for University publications must be cleared through the St. Paul Campus Information Service. On the Minneapolis Campus, departmental approval is necessary.

Bulletin Copy Sent to Recorder

Copy for official University bulletins describing course and curricula offerings in the various institutes and colleges must be sent to the Recorder's Office for review and authorization for printing.

Special copy approval is also required for University published brochures which are distributed to high school students and describe the educational offerings of the various departments at the University. Copy for these brochures must be submitted for approval to the Committee on Relationships with Prospective Students, a subcommittee of the Senate Committee on Institutional Relationships.

Individuals at the University may write articles or books for publication; approval is required only in those rare and unusual circumstances where the article or book has the official endorsement of the University. Then approval is necessary from the Office of the President.

Committee Members

Members of the Senate Committee on Printing and Publications are: Harold B. Swanson, editor, St. Paul Campus Information Service, chairman; John Ervin, director of the University of Minnesota Press; Ralph H. Hopp, associate director of University Libraries; William T. Middlebrook, vice president of business administration; William L. Nunn, director of University Relations; True E. Pettengill, recorder; Harold W. Wilson, associate professor of journalism, and two students, Alvin H. Miller and Marjory Baucom.

University of Minnesota Calendar of Events

MAY, 1959

UNIVERSITY ARTISTS COURSE CONCERT

New Artists Series Preview

Northrop Auditorium, 8:30 p.m.

May 9—John Browning, pianist. (Admission by special invitation to 1958-59 Masterpiece and Celebrity Series Patrons.)

METROPOLITAN OPERA PERFORMANCES

Northrop Auditorium

May 15—*Don Giovanni* by Mozart (in Italian, 8:00 p.m.)
 May 16—*Fledermaus* by Johann Strauss (in English, 1:30 p.m.)
 May 16—*Cavalleria Rusticana* by Mascagni and *Pagliacci* by Leoncavallo (in Italian, 8:00 p.m.)
 May 17—*Carmen* by Bizet (in French, 2:00 p.m.)

CONVOICATIONS

Northrop Auditorium, 11:30 a.m.

May 14—Ralph J. Bunche, under-secretary to the United Nations.
 May 21—Cap and Gown Day. "You and Tomorrow's World" by Katharine J. Densford, director of the University of Minnesota School of Nursing.

SPECIAL LECTURES

May 8—"The Soviet Economic Challenge" Teaching Reading" by Dr. Margaret G. McKim, professor of education, University of Cincinnati.
 (Murphy Hall Auditorium, 3:30 p.m.)
 May 8—"The Soviet Economic Challenge" by Professor Abram Bergson, Department of Economics, Harvard University.
 (Museum of Natural History Auditorium 3:30 p.m.)

COMMENCEMENT

Memorial Stadium, 8:00 p.m.

June 13—Speaker: President James Lewis Morrill.

(Open to the public. In the event of rain, the ceremonies will be held in Williams Arena, and admission will be by guest card only.)

UNIVERSITY THEATER PRODUCTIONS

Young People's Play

Scott Hall Auditorium

May 9, 10, and 16—*Peter Pan* by James M. Barrie.
 (May 9 and 16, 10:30 a.m. and 3:30 p.m.; May 10, 3:30 p.m. Single tickets at \$.50 on sale at the Scott Hall Box Office.)*

Regular Production

Scott Hall Auditorium

June 17-20—*Pal Joey* by Richard Rodgers and Lorenz Hart.
 (8:30 p.m. Single tickets at \$1.50 on sale at the Scott Hall Box Office.)*

Foreign Language Play

Shevlin Hall Arena Theater

May 13-16—*Wilhelm Tell* by Schiller.
 (May 13-16, 8:30 p.m.; May 14 and 16, 3:30 p.m., in German. Tickets on sale at 210 Folwell Hall.)

MUSIC DEPARTMENT PROGRAMS

Special Programs

May 10—Joyce Zastrow, soprano.
 (Scott Hall Auditorium, 8:15 p.m.)
 May 17—Judith Dunn, pianist.
 (Scott Hall Auditorium, 8:00 p.m.)
 May 22—Mary Anne Kuettner, pianist.
 (Scott Hall Auditorium, 8:30 p.m.)
 May 23—Student piano recital.
 (Coffman Union, Rooms 315 and 320, 2:30 p.m.)
 May 26—Sandra Adams, violinist.
 (Scott Hall Auditorium, 8:30 p.m.)
 May 30—Student piano recital.
 (Coffman Union, Rooms 315 and 320, 2:30 p.m.)

Concerts

May 19—Choral Concert.
 (Northrop Auditorium, 8:30 p.m.)
 May 20—Concert Band.
 (Coffey Hall Auditorium, 7:00 p.m.)
 May 26—Varsity Band Spring Concert.
 (Coffman Union, 11:30 a.m. and 12:30 p.m.)
 May 29—Band Ensemble Spring Concert.
 Guest Artist Don Jacoby, trumpeter.
 (Northrop Auditorium, 8:30 p.m.)

Tuesday Music Hours

Scott Hall Auditorium, 11:30 a.m.

May 5, 12, 19 and 26—Students, faculty, and guest artists.

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

May 11-14, 6:00 p.m.—"Opera Previews" featuring excerpts from the operas and commentary by Donald Ferguson, chairman of the Macalester College Music Department.
 May 11—*Don Giovanni*.
 May 12—*Fledermaus*.
 May 13—*Cavalleria Rusticana* and *Pagliacci*.
 May 14—*Carmen*.

SIGNIFICANT UNIVERSITY TELECASTS

Channel 2, KTCA-TV

Monday, 9:00 p.m.—"At Home With Music."
 9:30 p.m.—"Profiles in Conflict: Men in America's History."
 Tuesday, 9:00 p.m.—"Controlling Human Behavior."
 9:30 p.m.—"In A Manner of Speaking."
 Wednesday, 9:00 p.m.—"Aspects of India."
 9:30 p.m.—"The World of Folksong."
 Thursday, 9:00 p.m.—"Current Issues."
 9:30 p.m.—"Town and Country."
 Friday, 9:00 p.m.—"American Architecture—Heritage and Opportunity."
 9:30 p.m.—"Viewpoint."

UNIVERSITY GALLERY EXHIBITIONS

May 1-June 5—University of Minnesota Student Art Show.

MAY UNIVERSITY OF MINNESOTA PRESS PUBLICATIONS

The Revival of Metaphysical Poetry: The History of a Style, 1800 to the Present by Joseph E. Duncan, assistant professor of English, Duluth Campus. \$4.50.
British Investments in Latin America, 1822-1949 by J. Fred Rippey, professor emeritus of history, University of Chicago. \$5.00.

ATHLETIC DEPARTMENT EVENTS

Home Baseball Games

Delta Field (Unless otherwise noted.)

May 8—Illinois (3:30 p.m.)
 May 9—Purdue (2) (1:00 p.m.)
 (Tickets sold at gate. Adults, \$1.00, children, \$.25.)
 May 30—Varsity versus Alumni. (2:30 p.m.)

Golf

University Golf Course

May 9—Wisconsin (8:00 a.m.)
 May 12—St. Thomas (1:00 p.m.)

Track

Memorial Stadium

May 9—Wisconsin (1:00 p.m.)
 (Tickets, \$.60, sold at gate.)

Football

Memorial Stadium

May 16—Alumni versus Varsity (1:30 p.m.)
 (Tickets, \$1.50, sold at gate.)

Tennis

University Courts

May 16—Alumni versus Varsity (2:30 p.m.)

ARMY-NAVY-AIR FORCE SPRING REVIEW

Memorial Stadium, 2:00 p.m.

May 15—Combined Military Spring Review.
 Reception following in the Armory.

Unless otherwise noted, these 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 -

July 31, 1959

University Makes 1959-60 Budget

On Wednesday, July 1, after a 10-week special session, the 1959 Minnesota Legislature adjourned. Many of the actions of this session have a direct effect upon the University and its staff, and, although much of this information has been reported in newspaper articles, it is the purpose of this special issue of THE MINNESOTAN to draw together more details of these various actions.

THE TOTAL general maintenance appropriation granted the University for the coming two years is \$49,068,181 (\$23,665,555 for 1959-60 and \$25,402,626 for 1960-61). While this total is \$5,917,015 less than the maintenance request made by the Regents, it does represent an increase of \$3,634,741 over the total maintenance appropriation for the 1957-59 biennium.

It is important that staff members reading this summary bear in mind the over-all support of the Legislature and the people of Minnesota for their University.

The 1959-60 figure includes an original \$23,500,000 plus \$165,555 for Civil Service merit increases effective January 1, 1960.

The latter figure was released too late to be shown in the proposed budget for 1959-60.

The \$23,500,000 appropriated for 1959-60 was the basis for the proposed budget presented by President J. L. Morrill to the Regents for their approval after a series of conferences with the Administrative and

Faculty Consultative Committees.

This total represents an increase of \$415,979 over the 1958-59 printed budget. In addition, the proposed budget for 1959-60 anticipates an increased income of \$1,423,210 from increased tuition and other sources. Thus, the total increase over the 1958-59 budget is \$1,839,189.

Against this increase, however, the 1959-60 budget requires allocations of \$2,482,461. The University must meet the

Special Legislative Issue

difference between these two figures in the coming academic year through internal adjustments.

The required allotments include inescapable commitments for which the appropriation does not contain funds.

The University begins its new academic year with a \$412,254 deficiency in its 1958-59 budget. This deficiency resulted from the University's contributions to the OASI (Social Security) and SERA funds, plus the funds used for the cost-of-living adjustment granted Civil Service staff members on July 1, 1958. Because appropriations in neither the 1957 nor 1959 sessions included the funds necessary to meet these costs, they were, of necessity, met by the University itself through internal budget adjustments.

Steps Necessary to Make Up Deficit

Money-saving economies take two forms in the new budget:

1. A reduction in goods and services because of rising costs where no funds are available to meet the increased costs, and
2. An actual cutback in staff.

The proposed 1959-60 budget requires a retrenchment of the second type, totaling \$420,638. The balance of the \$643,272 in the budget will be made up from such items as Civil Service step savings, overhead income, and tuition and fee increases at Schools of Agriculture, University High School, and the Minneapolis and Duluth Campus Elementary Schools.

Payroll Retrenchment

While internal Legislative committee memoranda are not part of the ultimate appropriation act, account is taken of Legislative intent. To this end, the actual University retrenchment established for the 1959-60 academic year is based on payroll savings which may be accomplished through the reduction of Academic and/or Civil Service payrolls. This reduction is esti-

(Continued on page two)

Tuition Increases for All Colleges

AS AN ESSENTIAL STEP in financing the 1959-60 budget, there will be an across-the-board tuition increase for both resident and non-resident students in all colleges effective the fall quarter of 1959. Resident tuition will be raised \$15 per quarter and non-resident tuition, an additional \$5 per quarter. A previous \$10 across-the-board increase for non-residents effective in 1959-60 was approved by the Regents in October, 1958. Thus, the effect of this latest action is to increase tuition \$15 per quarter for all University of Minnesota students.

In addition to the across-the-board tuition raise, there will be a registration fee of \$4 per quarter for residents and \$10 per quarter for non-residents registered in the various Schools of Agriculture throughout the state.

Tuition will also increase in University High School (from \$36.50 to \$44 per quarter) and in the Minneapolis Campus Elementary School (from \$41 to \$44 per quarter). The Duluth Campus Elementary School tuition will be raised from \$25 to \$30 per quarter.

General Extension Division fees will increase from \$7 to \$8 per quarter in Ex-

tension and Special Classes effective September 14, 1959, to cover salary increases as well as increases in routine expenses.

There will also be a \$1 per hour increase (in lieu of tuition) for sub-collegiate preparatory courses in English and mathematics and an increase in the matriculation deposit for students in all colleges on the Minneapolis and St. Paul Campuses. This deposit, which is a guarantee for return and protection of University equipment and materials, will rise from \$5 for undergraduates and \$4 for graduate students to \$5 for all students effective the fall quarter of 1959.

(Continued from page one)

mated to total about two per cent of the total payroll.

Reductions in supply budgets cannot be made this year, not only because of the already restricted conditions of these budgets, but also because funds requested to take account of price increases in all goods and services covered in supply budgets were not authorized. This, in itself, produces a retrenchment. Also, there are no funds allotted for new positions in this budget.

Salary Adjustments, Enrollment Changes

President Morrill requested that all deans and administrative officers accomplish their basic payroll cutbacks before making staff salary adjustments.

He also authorized them to "redistribute funds and positions as between departments, removing positions where falling enrollments may suggest the wisdom of so doing, and adding positions to other departments where new needs or increased enrollments are evident."

The deans and their staff associates also have the responsibility of studying departmental instructional loads to provide for staffing for additional loads in areas where, as the President stated, "growth can be anticipated on the basis of past experience."

He also urged the deans to reserve some funds to cover "contingencies that may develop with the opening of the fall quarter, or in subsequent quarters."

No funds are being reserved centrally for this purpose; the colleges will have the complete responsibility to plan for and meet their internal contingencies. The proposed budget includes no discretionary fund — as has been available in years past — for allotment by the President to meet special problems and program needs in the colleges.

Effect of Payroll Retrenchment on Staff

University payroll retrenchment in the coming year will most seriously affect teaching and research assistant positions as well as part-time job opportunities on the miscellaneous payroll — many of them job opportunities for students. Beyond this, as various positions in Academic and Civil Service categories become vacant, it is possible that some of them may not be filled, thus shifting a heavier workload on remaining staff members.

The University staff will also be affected by certain reductions in various services — in repairs, physical plant maintenance, telephone service, and in other services provided inter-departmentally for the University as a whole.

Vol. XII

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THE MINNESOTAN

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

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A Message from President Morrill:

Fellow Staff Members:

This special issue of THE MINNESOTAN follows adjournment of the special session of the 1959 Legislature. In view of the great interest in the outcomes of the Legislative session, it seemed advisable that these be summarized for you — and that is the purpose of this issue.

Once again the University is grateful for the confidence and support of the Legislature and thereby of the people of Minnesota. Consistently over the years the Legislature has underwritten the University's purposes and programs of opportunity for youth, of productive research, and of useful public service.

The decision to begin development of the tract immediately adjacent to the present Minneapolis Campus, across the Mississippi River, reaffirms the long-range planning of the University which was supported by the intensive studies of the Legislature's own interim commissions on state building needs in 1957 and 1959. Time will prove, I feel certain, the soundness, the economy, and the wisdom of this decision.

The maintenance appropriations will still underwrite the academic integrity and morale of the University through the provision of funds to improve salaries of our faculty and staff, both Academic and Civil Service, although they will require serious cutbacks in physical plant maintenance and the purchase of equipment and supplies and an approximate two per cent reduction of staff size.

The University is fully aware of the difficult problems of finance and taxation confronting the Legislature and of the necessity that all institutions and agencies of the state must share in the solution of these problems. We regret that it is now found necessary, by Legislative direction, to impose substantially higher tuition rates which will adversely affect many students and their families in their decisions and ability to attend the University and to take advantage of its opportunities.

The University during the next two years will endeavor to maintain its present program of teaching, research, and public service. It will not be able to expand this program or to respond to the new needs and challenges which confront all major institutions of higher education in the nation in these fast-moving times except as the federal government, private donors and agencies, business, industry, and the professions might provide funds for special projects.

But we are heartened by the indispensable support which the Legislature did find it possible to grant in the fiscal crisis which it was necessary to resolve.

J. L. MORRILL

The Minnesotan

Civil Service Staff Receives July 1 Living Cost Increase Plus Merit Increase in January, 1960

A FOUR PER CENT salary increase to help meet the higher cost-of-living was granted to University Civil Service staff members, effective July 1, 1959.

In addition to this cost-of-living increase, merit increases, which previously have been granted July 1 of each year, have been authorized as of January 1, 1960.

These increases — merit and cost-of-living — for University Civil Service staff members were mandated by the 1959 Legislature and are comparable to adjustments made in salaries of state Civil Service employees.

The cost-of-living adjustment increased by four per cent each step within all pay ranges. Thus, the raise has the effect of a one-step increase

for all eligible Civil Service staff members.

A staff member in the first step of pay range number eleven, for example, earned \$270 per month before July 1 and is now earning \$281 per month.

Payroll changes have been made, and July 15 paychecks for Civil Service staff members included the four per cent increase.

There will be no merit increase effective July 1, 1959, for Civil Service staff members. Staff members eligible for this increase, usually granted in July, will not receive it until January 1, 1960.

On January 1, 1961, Civil Service staff members will receive a second merit increase.

Academic Staff Receives An Across-the-Board 4% Increase

THE 1959 LEGISLATURE approved an over-all eight per cent increase in the 1958-59 Academic payroll to be used for salaries during the coming year. Following consultation with the Administrative and the Faculty Consultative Committees, the President recommended to the Regents an across-the-board four per cent salary increase for Academic staff members effective July 1, 1959, with the balance to be used for merit increases.

Higher minimum salary rates have also been established for assistant professors, research associates, instructors, and research fellows — up approximately four per cent. The floors for teaching and research assistants and administrative, medical, and dental fellows were raised approximately eight per cent.

Deans and directors have just completed their 1959-60 budgets, and Academic staff members should begin receiving higher paychecks by early fall. At that time they will also receive, retroactively, any salary increases due them for the period between July 1 and the "catch up" date.

The Legislative appropriation also provides an additional increase, totaling six per cent of the 1959-60 Academic payroll, for salaries in 1960-61. Thus, the Legislature approved Academic salary increases of eight and six per cent for the biennium. This compares with the University's request for ten and five per cent increases. The higher salaries will significantly help the

University maintain its median position with respect to average salaries at comparable institutions.

Legislature Acts on Regents' Requests For Special Programs, "U" Hospitals

THE LEGISLATURE also granted the University funds for special research, service, and educational activities as well as for the operation of the University Hospitals.

The special appropriations provide support for the following programs (all figures are totals for the biennium with figures in parentheses representing the totals requested by the Regents).

For *Agricultural Extension*, \$1,310,818 (\$1,403,504); for *general agricultural research*, \$930,000 (\$1,052,692); for *medical and cancer research*, \$166,000 (\$180,000); for *Livestock Sanitary Board Laboratory*, \$136,000 (\$180,232); for *Institute of Child Development and Welfare*, \$72,000 (\$80,467); for *general research*, \$209,200 (\$230,446).

For *Minnesota Institute of Research*, \$68,000 (\$75,121); for *agricultural research at Rosemount*, \$210,000 (\$225,166); for *aid for School of Agriculture students*, \$130,000 requested and granted; for *business and economic research*, \$65,000 (\$55,353); for *delinquency control project*, \$19,000 (\$20,235); for *hardwood timber species research*, \$12,000 (\$13,474); for *psychiatric research*, \$80,000 (\$131,963).

For *training laboratory aids*, \$22,000 (\$25,900); for *special education training and research*, \$80,000 (\$88,081); for *legume seed research*, \$73,000 (\$66,498); for *Southwestern Minnesota Experiment Station*, \$75,000 requested and granted; for *special assessment at Duluth*, \$8,337.69 (\$9,527) and for *an expanded industrial relations education program*, \$75,000 (\$103,446).

The Legislature also granted the Univer-
(Continued on page four)

University To Begin Construction West of River

THE UNIVERSITY will begin construction across the Mississippi River during the next two years. The Legislature appropriated \$7,114,000 for three buildings west of the river on land which the University had already purchased and cleared with funds granted by the 1957 Legislature.

General plans for the expanded campus, worked out in 1957 by a committee appointed by President Morrill, were approved by the Board of Regents prior to the 1959 session of the Legislature. Committee members represented every college and University service affected by the move.

The \$7,114,000 will be used to construct a social science and general purpose classroom building, a School of Business Administration and general purpose classroom building, and a foreign languages, English, and general purpose classroom building, and to extend heating and utility lines to the expansion area.

Of the total University request for \$24,707,431 for buildings, land, and rehabilitation, the Legislature appropriated \$14,457,150.

Special Programs, University Hospitals

(Continued from page three)

sity \$50,000 for each year of the biennium for continuing the beneficent studies carried on for many years and, in addition, \$100,000 for each year for a new program involving beneficent studies on the Cuyuna Range.

For the state's share in general hospital maintenance the Regents requested \$3,158,092 for the biennium (an equal share to come from the counties); the Legislature granted \$3,160,479.

Other Hospitals appropriations for the biennium are:

For *Psychopathic Hospital* \$1,225,173 (\$1,235,725); for *Child Psychiatric Hospital*, \$476,524 (\$480,242); for *Rehabilitation Center*, \$790,110 (\$795,704); for *Multiple Sclerosis Clinic*, \$66,983 requested and granted.

University requests and Legislative appropriations for each campus are:

Minneapolis Campus — \$17,965,431 requested, \$10,261,000 granted, for constructing the three buildings west of the river, for a scientific apparatus shop, a chemical storehouse addition, and a Shevlin Hall addition on the present campus, for rehabilitating the Walter Library, Chemistry, and Zoology, and for rehabilitating and remodeling Millard, Jackson, Wulling, and Owre Halls, the University Press building, and that portion of Chemistry which was damaged by fire.

St. Paul Campus — \$3,347,000 requested, \$1,526,150 granted, for constructing a crop research laboratory, for completing the cafeteria adjoining the Student Center, and for remodeling and rehabilitating Haecker and Dining Halls, Agricultural Engineering, and the old section of the Home Economics Building. (The Legislature granted an additional \$200,000 for completing the Forest Products Laboratory, of which \$100,000 was to have come from Iron Range Resources and Rehabilitation Commission funds. This item was vetoed, however.)

Duluth Campus — \$2,446,000 requested, \$2,115,000 granted, for constructing an industrial education and a classroom building, for acoustical installations in the Humanities and the Science Buildings, for revising the campus electrical system, for pedestrian and utility tunnels, and for general development of roads and campus lighting.

Crookston — \$500,000 requested, \$175,000 granted, for constructing a dairy pole barn, for rehabilitating Stephens and Owen Halls and the Physical Education Building, for replacing the old greenhouse, and for rehabilitating and stabilizing existing structures.

Grand Rapids — \$62,000 requested, \$40,000 granted, for rehabilitating the main building, for road resurfacing, and for connecting the heating plant in the main building to the classroom building.

Morris — \$240,000 requested and granted for rehabilitating the Music Building, Spooner and Junior Halls, for improving the electrical service, and for stabilizing existing structures.

Waseca — \$16,000 requested and granted for constructing sheep and steer shelters and paving yards.

Excelsior — \$15,500 requested, \$10,500 granted, for constructing a farm shop and a machine shed.

Northeast Experiment Station at Duluth — \$15,000 requested and granted for constructing a herdsman's cottage.

Rosemount Agricultural Experiment Station — \$91,000 requested, \$49,000 granted, for constructing a dairy nutrition laboratory and two single family cottages.

Cloquet Experimental Forest — \$9,500 requested and granted for remodeling the old barn into a shop, for an outdoor lighting system, and for a bridge across Otter Creek.

Regents to Consider Establishing College Courses at Morris, Crookston

THE BOARD OF REGENTS has been asked by the state Legislature to consider establishing college courses at the West Central School and Experiment Station at Morris and at the Northwest School and Experiment Station at Crookston.

Currently, the Schools operate six-month programs of high school level agricultural courses.

The resolution adopted by the Legislature reads:

"WHEREAS, there is need for additional college facilities, particularly in western Minnesota, and

"WHEREAS, the Schools and Experiment Stations located at Morris and Crookston are adaptable to the teaching of college courses,

"NOW, THEREFORE, be it resolved by the Senate of the State of Minnesota, the House of Representatives concurring, that the Board of Regents of the University of Minnesota should consider establishing college courses at the Schools and Experiment Stations located at Morris and Crookston, and report to the Legislature before January 15, 1961, their conclusions, if any."