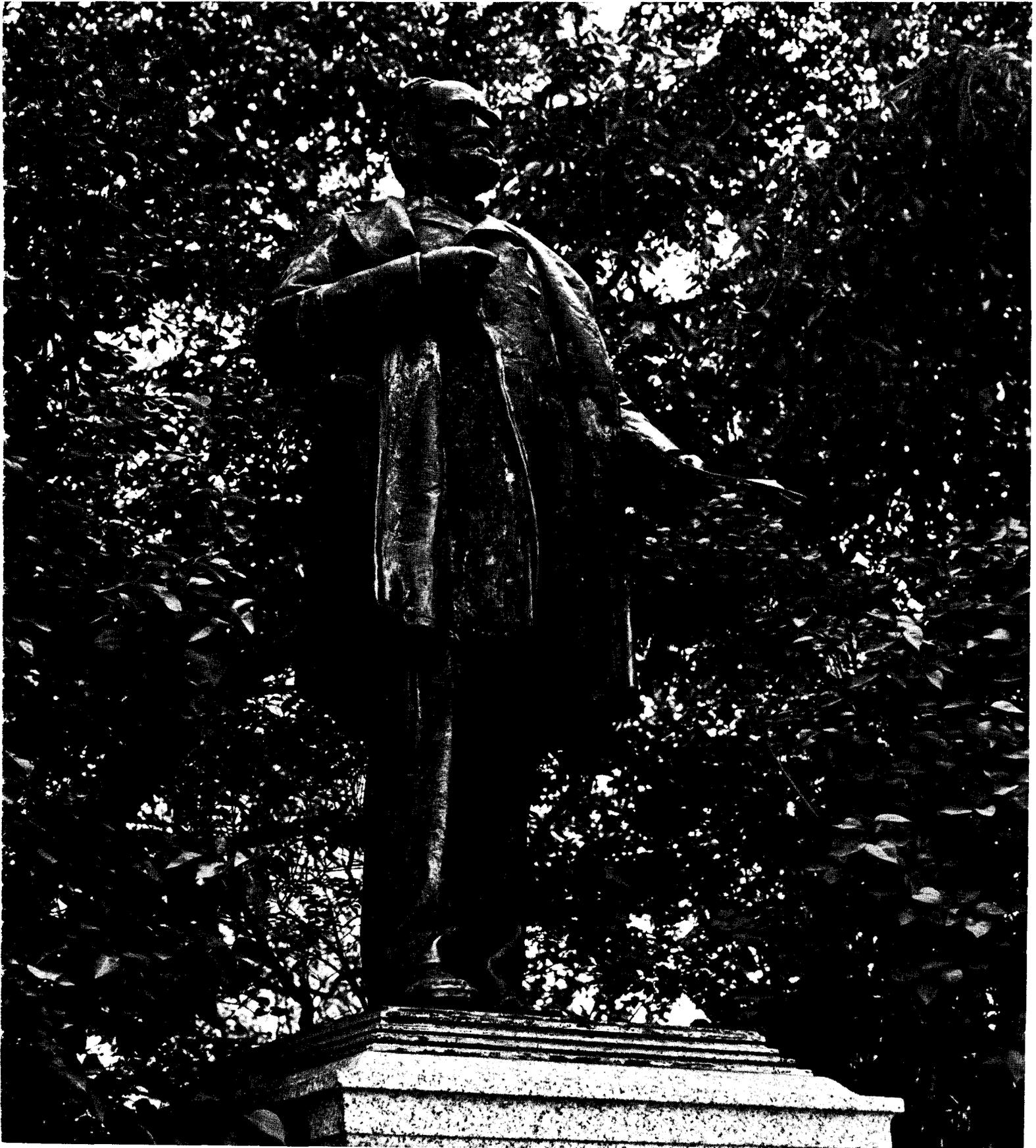


THE MINNESOTAN

The University Staff Magazine - October 1964





The President's Page

Today, the challenges facing American institutions of higher learning are greater than at any time in our history. Fantastic increases in student enrollment and unparalleled acceleration in the accumulation of new knowledge have combined to pose a serious financial challenge to the modern American university. The costs of higher education today result not only from the need for additional faculty to teach the greater numbers of students, but also from the type of equipment necessary to conduct front-line research, especially in the sciences. Some of these costs are almost prohibitive even for a large institution like the University of Minnesota.

Well aware of the challenges, however, we at Minnesota are seeking new ways to provide a quality education for each student. By 1970 it is estimated that more than 50,000 students will be enrolled at campuses of the University of Minnesota. If we are not to become involved in a type of mass education in which the individual is of little concern, certain changes must take place in our basic organizational pattern. Some of these changes have already taken place such as the reorganization of the University's administration, the creation of the College of Biological Sciences, and the formation of the All-University Council on Liberal Education. We, at the University, are committed to the ideal that each of the vast numbers of students on our doorstep today and those who will come in the future are entitled to grow intellectually and to take their rightful places as builders of a better American society. Anything less than this will be a national disaster which will undermine our basic foundations of a free and democratic society.

In the area of increased equipment needs necessary for modern research, there seems to be almost no way of avoiding high costs if the University is to remain a national leader in the search for new knowledge essential to the betterment of our state and country. The State of Minnesota has a long and proud tradition of support for its University and one which continues to recognize the need for further research and development in all academic areas in order to provide an enriched life for all of its citizens. In a sense, all of the citizens of Minnesota are stockholders in this University, and with their tax dollars

they have made an investment in the future of their people.

A heartening sign indicating recognition of the importance of the University's work is the willingness of Minnesotans to make private contributions to the University. Without this private support, many of the developments that we have seen on our campuses, especially in recent months, would not have taken place. Because of a very generous gift from Tent No. 12 of the Variety Club of the Northwest, for example, we were able to break ground in May for a large addition to the Variety Club Heart Hospital. Because of the generosity of several private donors, including the late James Ford Bell, Minneapolis businessman and former Regent, we were able to break ground in July for a much-needed addition to the Museum of Natural History. We are indebted to the late William Henry Eustis whose generous endowment furnished a large part of the funds for the nearly completed University Hospitals' Childrens Rehabilitation Center. The Masons of Minnesota have passed the half-way mark in their current campaign for funds to double the size of the Masonic Memorial Hospital. Recent large grants from the Hill Foundation and from the Grace M. Atkinson estate will be used to enrich our teaching and medical research programs in this and ensuing years. Another gift from Mrs. Alice Tweed Touhy, beloved benefactor of the University of Minnesota, Duluth, has made it possible to add a sculpture display room to the Tweed Gallery.

This joining together of public and private resources is a testimony to the faith of the founders of the University of Minnesota. The future of our state and nation is to a large degree dependent upon the strength of its educational institutions. Continued sympathetic support for the University will mean a greater service which our young people can render toward fulfilling the aims of an economically strong nation dedicated to the pursuit of freedom.

Meredith Wilson

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Application for second class registration pending, Minneapolis, Minnesota.

The task of studying University administrative organizational problems was referred to the faculty Senate Committee on Education by President O. Meredith Wilson in the fall of 1960. Four years of committee meetings, research, proposals, revisions, and reorganization ensued. The fall of 1964 marks the near-completion of several major changes originally proposed by the Committee.

However, this is merely a plateau, according to Assistant Vice President for Academic Administration Donald K. Smith. "The growth of the University, both physically and intellectually, will provide a continuing problem of organization," said Assistant Vice President Smith. "We are in an age in which the scope and frame of knowledge is undergoing rapid change, and the University, as a dynamic and evolving organization must keep pace with such change. It cannot settle into a changeless tradition."

During these four years of administrative change, the Senate Committee on Education was under the chairmanships of Professor Lloyd M. Short, Political Science, (1960-61); Professor E. Adamson Hoebel, Anthropology, (1961-62), (1962-63); and Professor John G. Darley, Psychology, (1963-64), (1964-65).

The Committee's first major report was submitted to the Senate in June, and approved in September, 1962. Its sweeping proposals were the impetus for a wide variety of major organizational changes, especially of the liberal arts college.

The report also included recommendations for further study of three organizational problems for which no immediate reorganization was proposed: the development of the biological sciences, the possible unification of mathematics, and the location of the liberal arts professional schools. Subsequent conclusions in each of these areas have been received by the Committee on Education and approved by the Senate.

The major accomplishments of the Committee on Education along with its sub-committees were three-fold: the transformation of the College of Science, Literature and the Arts into the College of Liberal Arts, involving the transfer of various departments to other colleges; the formation of the All-University Council on Liberal Education; and most recently, the acceptance of the formation of the College of Biological Sciences.

The Senate report's recommendations were submitted to the Board of Regents and approved, in principle, on September 28, 1962. The essential purposes of the plan were "to strengthen University liberal arts instruction and to integrate physical sciences and technology."

To "strengthen University liberal arts instruction," a completely new College of Liberal Arts was planned. Committeemen went vigorously to the task of organizing existing departments and units under major divisions.

Meanwhile, the first immediate actions were the transfer of the Departments of Astronomy and Geology from SLA to the Institute of Technology, and the transfer of the Department of Economics from the School of Business Administration to the College of Liberal Arts. Later, in the fall of 1963, the liberal arts mathematics department and the IT mathematics department were unified into the School of Mathematics.

October, 1964

The 12-year head of SLA, Dean E. W. McDiarmid, long anxious to return to teaching, resigned in January, 1963, "to give a new dean full freedom to make a fresh start with the new college." Dean E. W. Ziebarth, who headed both the Summer Session and the General Extension Division, was appointed Dean of the College of Liberal Arts.

After consideration of several proposed plans by various committees, a rearrangement of the remaining schools and departments, primarily under four basic divisions, was decided upon: (1) Division of Humanities under Associate Dean John D. Hurrell; (2) Division of Social Sciences under Associate Dean John G. Turnbull; (3) Division of Biological Sciences, (which eventually will merge with the new College of Biological Sciences under a Dean and an Associate Dean); and (4) Division of Physical Sciences and Mathematics under Director Frank Verbrugge, who is also Associate Dean of IT. The last Division is functionally in both CLA and IT and budgetarily in IT.

Other units in the College not included under the Divisions are the Interdisciplinary Programs (which are presently under study by a committee), the Department

Four Years of Administrative Reorganization

of Statistics, the School of Journalism, the School of Library Science, and the School of Social Work.

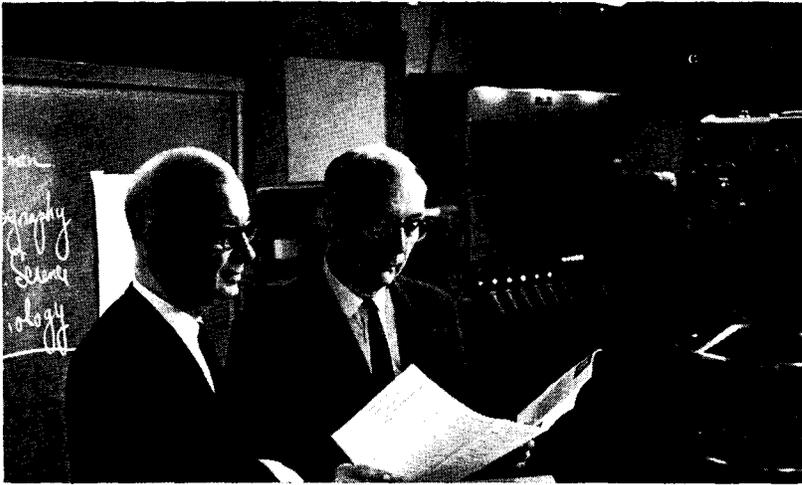
The All-University Council on Liberal Education also was established, in principle, by action of the Senate in June, and approved by the Board of Regents in September, 1962. The structure of the Council and manner of its appointment were established by Senate action in May, 1963. The Council was formed and began meeting in October, 1963, under the chairmanship of Assistant Vice President Smith.

Current members of the Council are Professors A. Orville Dahl, Warren S. Loud, William A. McDonald, and Paul L. Murphy of the College of Liberal Arts; Professors Benjamin J. Lazan, Edward P. Ney, and David A. Storvick of the Institute of Technology; Professor Robert H. Beck, College of Education; Professor Richard K. Gaumnitz, School of Business Administration; Professor George R. Blake, Institute of Agriculture; Professor Jeanne T. Lupton, General College; Professor Arthur E. Smith, Duluth Campus; Professor William D. Spring, Morris Campus.

In order that all Bachelor's degrees from the University of Minnesota have a common meaning, the Council was to establish a liberal education base upon which Bachelor's degrees from all University colleges and schools would be granted.

Inherent in this objective was the Senate's belief that

(Continued on page 5)



Associate Dean of the General Extension Division Donald Z. Woods (left), and University Director of Radio and Television Burton Paulu discuss broadcast areas of the Television College.

General Extension Presents **UNIVERSITY TELEVISION COLLEGE**

**Four freshman-level
courses transmitted
to area homes**

On September 28, the University of Minnesota inaugurated its Television College over KTCA-TV, the Twin Cities Area Educational Television Station.

Each of the four courses now being presented—German, biology, geography, and political science—consists of two televised lectures and one discussion meeting or laboratory session each week. Discussion sessions for three of the courses will be held in study centers in eleven high schools throughout the Twin City area. Biology laboratory sessions will be held on the Minneapolis Campus.

Lectures are given by regular University faculty members; the discussion meetings and laboratories are led by University teaching assistants. In addition to lectures and discussion meetings, students must complete assigned work and pass examinations. Grades and credits earned are transferable, and will be recorded by the University's General Extension Division, through which the courses are being offered.

Lecturers are Associate Professor of Botany Eville Gorham, Associate Professor of Zoology Norman Kerr, Professor and Chairman of Geography John Borchert, Assistant Professor of Geography Ward Barrett, Associate Professor of German Wolfgang Taraba, and Associate Professor of Political Science Edwin Fogelman.

The lectures may be viewed at

home or at one of the discussion centers. Lectures for two of the courses, geography and biology, will be given first over Closed-Circuit Television in the KUOM studio on campus and will be video-taped and replayed for the Television College over KTCA-TV. Lectures for the German and political science courses will originate in the KTCA-TV studios which are on Como Avenue across the street from the State Fair Grounds.

According to Willard L. Thompson, Dean of the General Extension Division, television time and production costs have been underwritten by a \$50,477 grant from the Hill Family Foundation. This grant also will cover cost of the related research program.

Production and direction of the political science and German classes are by the KTCA-TV staff, under the supervision of Dr. Joseph North who also holds the rank of assistant professor at the University. Working with Dr. North is the University Television College Advisory Committee, headed by Dean Thompson and assisted by Associate Dean Donald Z. Woods. Other members are Director of Radio and Television Burton Paulu, Director of CLA Upper Division Offices Mabel K. Powers, Associate Professor and Director Russell W. Burris of the Center for Study of Programmed Learning, Professor Eleanor S. Fenton, Assistant to the Dean, General Extension Division,

and Professor Albert M. Fulton, Director of Evening and Special Classes. Coordinator of the program is Mr. Robert DeVoe of the University's Department of Radio and Television Broadcasting.

The Television College is the development of many years of educational television in the Twin Cities area. From its inception, KTCA-TV has carried individual courses and programs offered by the University, the State Colleges, and by the private colleges and institutions in Minnesota. For over two years KTCA-TV has been considering and planning a much larger program of coordinated instruction at the collegiate level with scheduled groups and laboratory work supplementing the offerings from the studio. The present University plans now being carried out by the Television College have benefitted greatly from those first studies by KTCA-TV.

Dean Thompson has said, "... it is hoped that the program will help to provide solutions to the problems of numbers and space that increasingly plague all of higher education. While the immediate objective is to provide educational opportunities to increased numbers of Minnesotans, equally important is the knowledge that will be gained as to ways in which TV can more effectively be used as an instrument of education. To this end a major research program will be built into the project."

The Minnesotan

The three-year research program will be conducted by the Bureau of Institutional Research under the direction of Dr. John Stecklein. Data will be collected on such questions as why students enroll in the Television College, whether or not they re-enroll, and what they do upon completing a series of courses.

Mr. DeVoe enumerated the following advantages in the use of educational television: (1) Taped lectures or demonstrations may often be made at the instructor's convenience; (2) A video tape can be used an indefinite number of times; (3) Pre-taping a demonstration insures that students will see the best presentation; (4) All students can see equally well at the same time; (5) Attention is directed to what the instructor wishes students to see; and (6) The instructor has available a large stock of previously video-taped material. A staff of helpers at the television studio make such insertions at the

proper moment in the lecture, obviating loss of class time. In fact, class time on television is so economically used that in the past, television classes have tended to move more quickly than regular classes over the same material.

One disadvantage of television teaching in the past has been the lack of teacher-student confrontation; it is hoped, however, that the weekly discussion sessions will meet this need.

Mr. DeVoe stressed that course content and re-use of the materials developed rests with the respective academic departments.

President O. Meredith Wilson said of the project: "This proposal to offer University courses for credit on KTCA-TV, Channel 2, is one way in which we seek to implement the land-grant concept—that the resources of the University should be available to anyone who can profit from them." ●

Reorganization

(Continued from page 3)

all educated men and women should be able to communicate with one another on not only matters related to their special interests, but also interests common to all men—an ability which is becoming lost. Therefore, the Council was to recommend policies to "ameliorate the fragmentation of the academic community."

In June, progress towards its objectives was spelled out in the Council's first report called "Undergraduate Liberal Education at the University of Minnesota." The report contained goals of the liberal education program, views of the Council on various aspects of liberal education, a suggested curriculum, and proposed actions to be taken by the Council.

The most recent reorganizational accomplishment was the formation of the College of Biological Sciences which became a reality on July 10, 1964, by action of the Regents.

The Regents' approval came after many months of work by the Committee on the Development of the Biological Sciences, headed by Academic Vice President William G. Shepherd. This Committee found that the problem was not one of reorganization, but of the very conceptual structure of biology itself.

The Committee's final report, which was approved by the Senate last May, contained several recommendations. It proposed that the new College should administer a program of basic biology organized in terms of molecular, cellular, organismal, evolutionary, and populational biology. The College should initially be made up of the existing departments of Botany, Zoology, and Biochemistry (St. Paul), and the addition of certain faculty members in genetics, biophysics, and other areas of biology. The new College should be headed by a dean with an office on the St. Paul Campus, and an associate dean with an office on the Minneapolis Campus. The requirements for Bachelor's degrees from the College should be decided; all Departments of the College offering such degrees should be functionally a part of CLA. Other recommendations concerned the formation of a Consultative Council for Biology, and evaluation of plans for additional buildings and facilities for biology.

Professor of Botany Eville Gorham tapes a biology lecture as part of the Television College program. Other courses offered are political science, German, and geography.

photo by Michael Kopp



University of Minnesota, Morris

The First Commencement

One man can make a difference, and every man should try.

—President John F. Kennedy, quoted by University
President O. Meredith Wilson

On the evening of June 15, 1934, after four years of growing pains and hard work, a new liberal arts college had reached a milestone—its first commencement. The efforts of many men and women had made "a difference," President Wilson pointed out.

At this Morris Campus commencement, sixty-one seniors received Bachelor of Arts degrees from the University of Minnesota. Forty of these graduates had attended the Morris Campus for all of their four years. They reflected the excitement, the responsibilities, and the satisfactions they had shared in organizing a brand new college. Their contributions had been many, they were told before and during the ceremonies. They not only had established organizations, publications, campus events, and traditions—they had supported them.

Their teachers, faculty members of the University of Minnesota, sat on an outdoor platform beneath the green pines on the Mall and surveyed an audience of nearly 3,000. Audience, faculty, and graduates gave concrete evidence that the University of Minnesota's newest campus would be supported.

"The commencement ceremony was beautiful, well-organized, and a fitting mark of our four-year milestone," commented Dean Rodney A. Briggs.

Singing of the national anthem opened the first commencement exercises at the Morris Campus. On stage were faculty members and special guests.

According to Theodore Freed, Director of Housing and an active initiator in planning the event, "All Morris Campus staff members had a part in either the actual ceremony or in its planning, as did a good many staff members from the Minneapolis-St. Paul campus. We borrowed several Minneapolis Campus traditions and devised a few precedents of our own.

"After a site was chosen on the picturesque Mall, the experienced 'commencement-makers' of Minneapolis even

Dean Rodney A. Briggs (left), and University President O. Meredith Wilson await the start of the commencement procession.

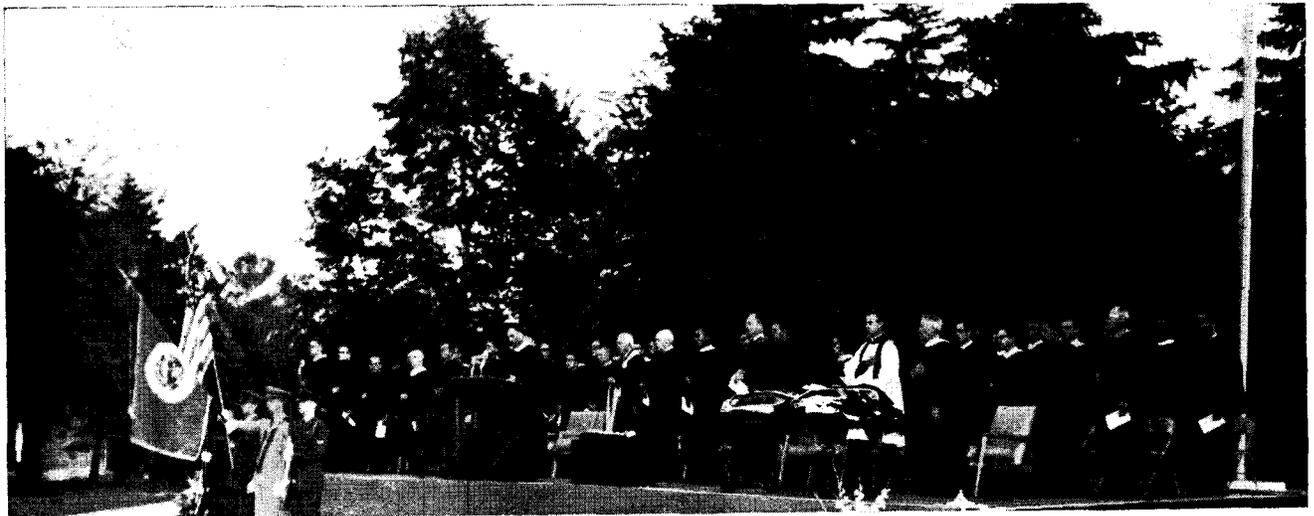


told us just how many planks we'd need to build the platform; they also arranged for a Color Guard from an ROTC unit," Freed recalled.

Following President Wilson's address, each graduate, according to his major, was introduced to the audience by one of the four Morris Campus Division Chairmen: Professor Charles R. Bruding, Education; Professor John Q. Imholte, Social Sciences; Professor Jay Y. Roshal, Mathematics; and Professor W. Donald Spring, Humanities.

Each graduate received a leather-bound diploma from Dean Briggs, and a Bachelor of Arts hood from Associate Professor Herbert G. Croon.

"Actual presentation of both diplomas and hoods was effective and meaningful," said Professor Stephen G. Granger, Assistant Dean. "We hope to make this a practice at our future commencements."



THE BENEFACTORS

On the cover . . .

Disposed to Promote the Prosperity and Happiness of Others

In recent years the University has come to depend increasingly on funds given by private individuals and private organizations. Today about one-third of the University's total expenditures are met by appropriations from the State Legislature; the rest must come from other sources.

During the summer the University received a trust fund of more than \$1,300,000 from the estate of the late Grace M. Atkinson of Minneapolis.

According to Mrs. Atkinson's will, the endowment is to be called the Helen Jane Atkinson Memorial Fund



The bust of Helen Jane Atkinson, who is commemorated in the University's most recent large memorial fund.

in memory of her daughter, who died of heart disease in 1915 when she was thirteen years old. The University is to have "full power and authority in its discretion" to use the fund for "improving the health of children under fifteen years of age by medical research or otherwise." The will also provides that the principal and income from the fund may be used to build and maintain a hospital or hospital addition, to be named the Helen Jane Atkinson Memorial Hospital, for the care of invalid children under fifteen years of age. The University has not yet an-

nounced the specific application of the fund.

Because the Atkinsons had no formal connection with the University of Minnesota, it has been suggested that the gift was inspired, at least in part, by a similar donation given by an Atkinson family friend, William Henry Eustis. In the 1920's Mr. Eustis, an attorney and one-time mayor of Minneapolis, gave the University an endowment totaling approximately \$2,243,830 for the well-being of crippled children. Coincidentally, the Atkinson bequest has been received by the University at a time when the University Hospitals' Children's Rehabilitation Center, a unit built in large part with funds from the Eustis endowment, is in the final stages of construction.

Possible relationship between the Eustis endowment and that of the Atkinsons was considered by Mrs. John Rood of Minneapolis. Mr. Eustis and the Atkinsons were often Sunday dinner guests at the home of Mrs. Rood, who was then married to the late Fred G. Atkinson, William's brother. "I remember Will saying to Mr. Eustis, 'If the University is good enough for your money, it is good enough to take care of ours.'" Mrs. Rood recalled.

The son of a railroad locomotive springmaker, William M. Atkinson began his career at the age of fourteen as office boy for Washburn, Crosby and Company, forerunner of General Mills. He was associated with the firm for thirty-two years, advancing to various executive positions. He was manager of the company's operation in Louisville, Kentucky, when his daughter became ill in 1913. Because of her illness, he resigned so that the family could move to Florida. In 1915 Helen Jane died, and the family returned to Minneapolis, where in the same year Mr. Atkinson built his own mill. This he operated until his death at age sixty.

In the early days of the University, John Sargent Pillsbury watched over the campus personally; he even checked at night to see that the lights were out. His statue has watched over generations of students ever since. Now, guardians of the University's future include his descendants as well as members of a commemorative Minnesota Foundation fellowship.

Historian James Gray notes that Mr. Pillsbury first came to the campus as a businessman trying to collect a debt from a nearly bankrupt school. In 1863, he became a Regent, and led the rescue of the University.

Author Gray says that Mr. Pillsbury gave the University one-third of his time and much more than a third of his vast supply of creative energy. He personally oversaw details of land grants, building construction, requisitions, and appointments. When the University needed a science building, he built Pillsbury Hall at his own expense.

His diverse life's work included milling endeavors and a three-term state governorship. But of his association with the University, he said at the dedication of his statue: "There is no spot on earth that I more prefer to be remembered than on this campus."

His spirit lives on in the lives of his descendants. John S. Pillsbury, Jr., serves as treasurer of the Minnesota Foundation. Phillip Pillsbury is a member of the Industrial Relations Center Advisory Council, and past chairman of the Institute of Agriculture Advisory Council. The John S. Pillsbury Family Law Fellowship and the Pillsbury Oratorical Prize are annual awards maintained by members of the family. This month, the Regents accept the latest Pillsbury gift—a tract of land to be incorporated into the Arboretum.

The Governor John Sargent Pillsbury Fellowship was recently created by the Minnesota Foundation. Those alumni and friends of the University who are invited to become members of this fellowship have given, as did the Governor himself, exemplary leadership and generous support to the University of Minnesota.

MISCELLANY

• Friends of Hubert H. Humphrey, Senator and Vice Presidential candidate, decided almost a year ago to raise funds to establish a Hubert H. Humphrey Fellowship in Political Science at the University of Minnesota. Co-chairmen of the Hubert H. Humphrey Fellowship Committee are Ambassador Eugenie Anderson, U.S. Minister to Bulgaria, and Jay Phillips, Vice Chairman is David J. Winton. Both Mr. Winton and Mr. Phillips are Minneapolis business and civic leaders.

According to Professor Charles H. McLaughlin, Chairman of the University's Political Science Department, the committee plans to build the fund so that several fellowships can be awarded each year. At present the fund totals \$52,000; the first \$2,500 fellowship has already been awarded.

• Professor of Agricultural Economics Willard W. Cochrane has returned to the University after serving as Director, Agricultural Economics, U.S. Department of Agriculture, since 1960.

• Professor Edwin Emery, journalism, has been elected Editor of the *Journalism Quarterly*. Published by the Association for Education in Journalism, the *Journalism Quarterly* is devoted to research in journalism and mass communication.

• The University recently gave the Smith-

sonian Institution the mass spectrometer with which Professor Alfred O. C. Nier, now Head of the School of Physics at the University of Minnesota, first isolated a sizeable quantity of U-235. As a junior member of the University physics staff, Professor Nier demonstrated that U-235 was the part of uranium responsible for fission. This, then, made possible the successful work of the Manhattan project at the University of Chicago.

• \$12,000 was received from the Minneapolis Foundation, Trustee of the Estate of Francis E. Andrews, to establish the Minneapolis Foundation-Francis E. Andrews Fund for International Student Exchange.

• The Variety Club of the Northwest donated \$100,000 recently: \$75,000 goes to the Building Fund, and \$25,000 to indigent patient care.

• Dean George P. Hager, College of Pharmacy, has been appointed by President Lyndon B. Johnson to the eleven-man National Advisory Committee to Selective Service on the Selection of Physicians, Dentists and Allied Specialists.

• The Duluth Library has been given 70 bound volumes entitled *War of the Rebellion*, a compilation of official Union and Confederate Army records. The volumes were donated by Mrs. Margaret Culkin Banning Salsich.

'U' Construction Moves Ahead, History Museum Doubles Space

Work has begun on the James Ford Bell Memorial Wing of the Minnesota Museum of Natural History on the Minneapolis Campus. The new three-story wing will double the museum's research and exhibit spaces.

There will be two exhibit floors, one housing displays on the geological and early anthropological history of Minnesota, the other devoted to natural history exhibits, which will be changed frequently. Offices and research laboratories will be located in the basement and on the third floor.

Mr. Bell served on the University Board of Regents from 1939 until his death in 1961. His many benefactions to the University included not only a gift providing more than half the cost of the original museum building, but the James Ford Bell Collection of rare books dealing with explorers, political history, and commerce from the 15th to the 18th century. The fund for the new wing was started with a substantial gift from Mr. Bell himself.

The total cost of the new wing is \$503,526. Of this sum, \$250,800 was contributed

by private citizens, organizations, and business firms; \$140,000 was appropriated by the 1963 Legislature, and \$50,000 was supplied by the National Science Foundation, with matching University funds. The building is scheduled for completion in April, 1965. Interiors of the two exhibit floors will remain unfinished until additional funds are obtained, according to Professor Walter J. Breckenridge, Museum Director. Completion of these floors will be part of the University's building request to the 1965 Legislature.

At the July ground-breaking ceremonies for the James Ford Bell Memorial Wing were Charles H. Bell, Wayzata, son of Mr. Bell and one of the major donors to the new wing; Whitney H. Eastman, Edina, Chairman of the committee which raised private funds for the wing; Professor Breckenridge; and Dean Bryce L. Crawford, Jr. of the University's Graduate School.

Other buildings recently completed or under current construction on the Minneapolis, St. Paul, Morris, and Duluth campuses will be featured in next month's issue of *The Minnesotan*.



Director of the Mayo Graduate School of Medicine (formerly the Mayo Foundation for Medical Education and Research of the Minnesota's Graduate School), since 1947, Dr. Victor Johnson is also a Professor of Physiology. He was a member of the faculty of the University of Chicago from 1929 until he came to Rochester. Educator, author, and leader in today's medical world, Dr. Johnson played a leading role in the success of the Mayo Centennial celebration in September.

Recipient of manifold awards, prizes, and honorary degrees from several countries, Professor Emeritus Elvin Charles Stakman has added another laurel. Cambridge University conferred upon him the degree of Doctor of Science (*honoris causa*) on June 11. The importance of Professor Stakman's research has been felt in the fields of medicine, biology, and agriculture. His research in rust control and other plant diseases has been credited with saving the wheat production of our country from disaster and thereby adding to the productivity of our lives. Outstanding faculty member at the University of Minnesota, St. Paul, from 1909 until 1953, he served as Head of the Department of Plant Pathology and Botany from 1940. He is now special consultant for agriculture to the Rockefeller Foundation.

photo by Alan Ominsky



WE

The Staff Members and Friends of the University

Head of the Duluth Campus Biology Department is **Professor of Zoology Theron O. Odlaug**. Professor Odlaug has conducted extensive research on mammalian and amphibian parasites. Most recently, he is part of a research team at the Lake Superior Limnological Research Center. There biological studies are conducted to determine the effects of sunlight and water properties on the lake's microscopic animal life. Professor Odlaug has taught on the Duluth Campus since 1947.



Through the artistic talents of **Jane McCarthy**, production manager, designer, and illustrator, thirteen University of Minnesota Press books have been chosen by the American Institute of Graphic Arts for inclusion among the "Fifty Books of the Year." Selection is made on the basis of production and typographic design from among all books published in the United States. Most recently receiving this honor was *Carta Marina*, by Hildegard Binder Johnson, a publication from the James Ford Bell Collection. *Carta Marina* was also selected as a top honor book in this year's Chicago and Midwestern Bookmaking Exhibit and again in Midwestern Books Competition — thanks to Miss McCarthy.

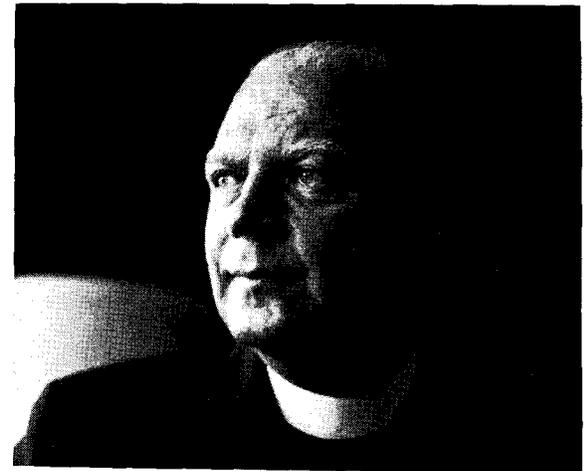


Internationally known sculptor and wood carver **John Rood** has given the University the largest single collection of his works. This gift of twelve pieces—spanning the entire range of his work including stone, wood, cast bronze, and welded metal—has joined the University Gallery's John Rood Collection of seventeen pieces by contemporary artists and will be on display through November 29. Professor Rood recently resigned from the University and has moved to Washington, D.C. He has had more than 100 exhibitions of his works throughout the United States and in Europe.

photo by Minneapolis Morning Tribune



Managing the office of University President O. Meredith Wilson might disconcert some women, but not **Marilee Ward**. Miss Ward, who has been Office Manager and Editor in the President's office for one year, has remained efficient and unbewildered through controversies, reorganizations, visits by international educators, dignitaries, local government leaders, and the everyday pace of the administrative office. After receiving her B.B.A. degree from the University, Miss Ward worked for the Westinghouse overseas market research and development division in New York City and later for the University Department of Microbiology.



Not only is the **Reverend George G. Garrelts** Director of the Newman Center, one of the twenty-six religious centers on the Minneapolis Campus, and Chaplain to Catholic students and staff members, he is also Pastor of the Church of St. Frances Cabrini, Chaplain to the Catholic Deaf of the Twin Cities, Chaplain to the Catholic Physicians Guild of St. Luke, and an Advisor to the National Newman Club Foundation. Father Garrelts studied at St. Louis University, Harvard University, St. Michael's of Toronto, and the Catholic University in Washington, D.C.

PROMOTIONS

PROFESSOR GERTRUDE M. GILMAN has been named Director of University Hospitals. A 1922 graduate of the University, she has served ever since at University Hospitals. She succeeds PROFESSOR RAY M. AMBERG as Director; Professor Amberg retired in June after 42 years on the University's staff.

University mathematics **Professor LAWRENCE MARKUS** has been appointed to supervise the newly established doctor of philosophy program in control sciences at the University.

Promoted from Assistant Deans to Associate Deans of the College of Medical Sciences were DR. NEIL L. GAULT, JR. and DR. H. MEAD CAVERT. Dr. Gault will supervise hospital and professional relationships, and Dr. Cavert will direct medical student affairs. Associate Professor of Educational Psychology and Assistant Dean of Students MARTIN L. SNOKE was made Associate Dean of Students. All three of these associate deanships are newly established positions.

In the College of Veterinary Medicine, DR. HARVEY H. HOYT, Professor and Head, Department of Veterinary Medicine and Clinics, was named Associate Dean. He succeeds DR. RALPH L. KITCHELL who has taken over his new post as Dean of the College of Veterinary Medicine at Kansas State University.

Associate Professor of Electrical Engineering PAUL A. CARTWRIGHT was promoted to Assistant Dean in the Institute of Technology.

PROFESSOR OSWALD A. BROWNLEE has been made Chairman of the Department of Economics; ASSOCIATE PROFESSOR FRED E. LUKERMANN, JR. is Chairman of Geography. New Chairman in Philosophy is ASSOCIATE PROFESSOR KARL H. POTTER; ASSOCIATE PROFESSOR DANIEL BRYAN is Chairman of the Communications Program of the English Department. In the College of Education, ASSOCIATE PROFESSOR ROGER E. WILK is Chairman of Educational Psychology and PROFESSOR CLIFFORD P. HOOKER is Chairman of Educational Administration.

In the School of Mathematics, ASSOCIATE PROFESSOR JAMES E. HOLTE is the new Director of Continuing Education, and PROFESSOR BERNARD R. GELBAUM is Associate Chairman of the School.

ASSOCIATE PROFESSOR GORDON B. DAVIS is now director of the computer center in the School of Business Administration. In

the General Extension Division, ASSOCIATE PROFESSOR HAROLD J. ALFORD was made director of off-campus classes. At the University of Minnesota, MORRIS, ASSOCIATE PROFESSOR STEPHEN G. GRANGER was advanced to Assistant Dean.

The following have been promoted to professor: College of Liberal Arts: ROY A. SWANSON, classics; JOHN H. KAREKEN and ARTHUR M. BORAK, economics; CECIL WOOD, German; W. DONALD BEATTY, RODNEY C. LOEHR, and TIMOTHY L. SMITH, history; D. BURNHAM TERRELL and FRANCIS V. RAAB, philosophy; ROBERT T. HOLT, political science; ARMAND A. RENAUD, Romance languages; ARTHUR BALLETT, University Theater; DAVID J. MERRELL, zoology; RICHARD B. MATHER and PEARL NIEMI, Slavic and Oriental languages; DAVID COOPERMAN, social science program; ROGER B. PAGE, administration.

Institute of Technology: Z. ZIMMERMAN HUGUS, JR., inorganic chemistry; MAURICE M. KREEVOY, organic chemistry; TIBOR ZOLTAI, geology and geophysics, PAUL J. KELLOGG, physics and astronomy.

Law School: TERRANCE SANDALOW, College of Education; HELEN M. SLOCUM and MARJORIE U. WILSON, physical education for women. School of Business Administration: NICHOLAS A. GLASKOWSKY, JR., business functions and management. Libraries: JOHN PARKER.

Student Counseling Bureau: GERHARD NEUBECK, College of Medical Sciences; LOUIS H. MUSCHEL, microbiology; LOUIS Tobian, medicine; HELMUT R. GUTMANN, biochemistry; HILDRED SCHUELL, psychiatry and neurology; CLARENCE J. ROWE and MARVIN SUKOV (Clinical Professor), psychiatry and neurology; RUTH HOYDE, laboratory medicine; and FERNANDO TORRES, University Hospitals. Institute of Child Development: WILLARD W. HARTUP.

Laboratory for Research in Social Relations: ELLIOT ARONSON, Minnesota Center for Philosophy of Science; GROVER MAXWELL, Clinical Psychology Training Program; WARREN W. ROBERTS.

Institute of Agriculture: ARNOLD M. FLIKKE, agricultural engineering; ROBERT M. JORDAN and WILLIAM E. REMPEL, animal husbandry; EDWIN F. COOK, entomology, fisheries and wildlife; MERLE P. MEYER, School of Forestry; LURA M. MORSE, School of Home Economics; RICHARD E. WIDMER, horticultural science; PAUL E. WAIBEL, poultry science; PAUL H. CASHMAN, rhetoric; CURTIS J. OVERDAHL, state office of the Agricultural Extension Service; and WAYNE W. WEISER, County Agricultural Agent, Blue Earth County.

Publications

The Burgess Publishing Company of Minneapolis recently published *Oral Interpretation of Fiction: A Dramatic Approach*, co-authored by Professor David W. Thompson and Assistant Professor Virginia Fredricks, Department of Speech and Theater Arts.

From faculty at the School of Business Administration come the following publications:

Business Logistics, by Professor N. A. Glaskowsky with J. L. Heskett and R. M. Ivie: Ronald Press Co.; May, 1964.

Case Problems in Business Logistics, by Professor N. A. Glaskowsky with J. L. Heskett and R. M. Ivie, Ronald Press Co.: June, 1964.

Accounting Information and Business Decisions: A Simulation, by Professor Jack Gray: McGraw Hill Company: 1964.

The Environment of Marketing Behavior—Selections from the Literature, by Professor Robert Holloway and Professor Robert Hancock: John Wiley & Sons: September, 1964.

The following books were written or edited by University faculty and published during the summer by University of Minnesota Press:

The University and Its Foreign Alumni: Maintaining Overseas Contacts, by Forrest G. Moore, Associate Professor and Director, Office of Advisor to Foreign Students, and Robert E. Forman, former Instructor in Sociology at the University of Minnesota, Duluth, and former Acting Assistant Foreign Student Advisor, University of Minnesota, Minneapolis: Publication No. 13 in the series, "Minnesota Studies in Student Personnel Work": June 15, 1964.

Southeast Asia: Illusion and Reality in Politics and Economics, by Lennox A. Mills, Professor Emeritus, political science: June 22, 1964.

Man's Quest for Political Knowledge: the Study and Teaching of Politics in Ancient Times, by William Anderson, Professor Emeritus, political science: July 13, 1964.

A Blake Bibliography: Annotated Lists of Works, Studies, and Blakeana, by G. E. Bentley, Jr., and Martin K. Nurmí, Visiting Lecturer, English: September 21, 1964.

Hill Foundation Brings Visiting Professors

• The Louis W. and Maud Hill Family Foundation, St. Paul, has made a grant of \$180,000 to the University, to be used over a three-year period beginning this fall. The fund is to bring outstanding teachers and scholars in the liberal arts to the University and the state.

This year's visiting professors under the grant are Sir Tyrone Guthrie, British and American stage director; Hans Joachim Schrimpf, German professor and scholar; Leslie J. Andus, English plant physiologist; Kiyoshi Noshiro, mathematical authority; and Hugh Dalziel Duncan, sociologist and author.

The Minnesotan

University of Minnesota Calendar of Events

October 1-15, 1964

CONVOCATIONS

(Open to the public without charge.)
Northrop Auditorium, 11:30 a.m.
(unless specified)

- October 1—Opening Convocation—President O. Meredith Wilson will keynote the college year with an address to students and faculty.
- October 5—"The Threshold to Space," James E. Webb, Administrator, National Aeronautical and Space Administration, 2:30 p.m.
- October 8—"A Profile of Holmes," a dramatic biography of Associate Justice Oliver Wendell Holmes, Jr. of the United States Supreme Court, by William Paterson.
- October 9—"The Threshold to Space," Donald Slayton, Chief of Astronaut Training for the National Aeronautical and Space Administration, 2:30 p.m.
- October 15—University of Minnesota Concert and Marching Bands, Glee Club and Chorus combined to preview a new University album.

UNIVERSITY ARTISTS COURSE

Masterpiece Series

Northrop Auditorium, 8:30 p.m.
(unless specified)

- October 1—Roberta Peters, Metropolitan Opera Coloratura: Ticket prices \$2.00, \$2.50, \$3.00, \$3.50, \$4.00.*

Celebrity Series

Northrop Auditorium, 8:30 p.m.

- October 15—Mantovani and His Orchestra: Ticket prices \$2.00, \$3.00, \$3.50, \$4.50.*

ATHLETIC DEPARTMENT EVENTS

Home Football Games

Memorial Stadium, 1:30 p.m.

- October 10—Northwestern (Single tickets \$5.00. Over-the-counter sale of any unsold tickets begins Monday before each game at Cooke Hall, at the Minneapolis Downtown Ticket Office, and at Field-Schlick in the St. Paul loop, Har-Mar Mall, and Highland Village.)

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

Monday, Wednesday, Friday, 11:00-11:50 a.m.—Classroom Lecture: "The Literature of the Bible" (English 66): Readings in the Old and New Testaments from the literary point of view, broadcast from the classroom of Professor Gordon W. O'Brien.

Monday through Friday, 12:10 p.m.—"Doctor, Tell Me": Audrey June Booth interviews family doctors and specialists.

Wednesday, 1:30 p.m.—"World Affairs": A discussion featured on the Public Affairs Forum series.

Saturday, 12:00 noon—"The World of the Paperback": Talks about important publications in the paperback field.

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge.)

Northrop Auditorium, 8:30 p.m.

- October 9—Bernhard Weiser, piano recital.

SPECIAL LECTURE

(Open to the public without charge.)

- October 14—"The Two Europes," John Scott, Special correspondent of *Time* Magazine, 3:30 p.m. (place to be announced).

UNIVERSITY GALLERY EXHIBITION

Northrop Auditorium

8:30 a.m.-4:30 p.m.

Monday through Friday

- Through October 4—Robert Goodnough: Paintings and Drawings.
- September 28—November 29—Sculpture by John Rood.

ST. PAUL CAMPUS STUDENT CENTER

Sunday, 12:00 noon-11:00 p.m.

Monday through Thursday

7:00 a.m.-11:00 p.m.

Friday and Saturday,

7:00 a.m.-12:00 midnight

September 28 through October 17—Gust Anderson Oils.

September 28 through October 17—Minnesota Mining and Manufacturing Art Club Show.

UNIVERSITY OF MINNESOTA TELEVISION HOUR

A Service of

The General Extension Division Seen on Channel 2, KTCA-TV

Mondays, 9:00-9:30 p.m.—"The Singer" with Roy Schuessler, Professor of Music.

Mondays, 9:30-10:00 p.m.—"World Affairs" with Aaron Miller, Assistant to the Director of the Minnesota World Affairs Center.

Tuesdays, 9:00-9:30 p.m.—"Folio" with Arnold Walker of the Department of Radio and Television.

Tuesdays, 9:30-10:00 p.m.—"The British Poets" with Professor David Jones of the Department of English.

Wednesdays, 9:00-10:00 p.m.—"The Changing Face of Minnesota" with John R. Borchert, Professor of Geography.

Thursdays, 9:00-9:30 p.m.—"The Professions" with Paul Cashman, Professor of Rhetoric.

Thursdays, 9:30-10:00 p.m.—"Town and Country" with Professor Ray Wolf of the Institute of Agriculture.

Fridays, 9:00-9:30 p.m.—"Girls in Conflict" with Gisela Konopka, Professor of Social Work.

Fridays, 9:30-10:00 p.m.—"Guidelines: A Program for Women of Tomorrow" with Professor Vera M. Schletzer, Coordinator of the Women's Continuing Education Program.

* Reservations may be made at 105 Northrop Auditorium.

Tickets for these events are also available at Dayton's and Field-Schlick on Monday of the week prior to performance

University of Minnesota Calendar of Events

October 16-31, 1964

CONVOCATIONS

(Open to the public without charge.)
Northrop Auditorium, 11:30 a.m.
(unless specified)

October 19—"The Changing Character of American Politics," Max Freedman. Washington correspondent of *The Manchester Guardian*, special convocation on the *St. Paul Campus, 10:00 a.m.*

October 20—"The Changing Character of American Politics," Max Freedman. Washington correspondent of *The Manchester Guardian*.

October 29—"The Royal Shakespeare Theatre, Stratford-upon-Avon: Historical Background and Changing Styles," by Kegan Smith, formerly Manager of the Costume Department, Royal Shakespeare Theatre.

MUSIC DEPARTMENT PROGRAMS

Northrop Auditorium, 4:00 p.m.
(Open to the public without charge.)

October 18—Heinrich Fleischer, organ recital.

UNIVERSITY GALLERY EXHIBITIONS

Northrop Auditorium
8:30 a.m.-4:30 p.m.
Monday through Friday

September 28-November 29—Sculpture by John Rood.

October 16-November 15—Holland: The New Generation.

* Reservations may be made at 105 Northrop Auditorium.

* Tickets for these events are also available at Dayton's and Field-Schlick on Monday of the week prior to performance.

UNIVERSITY ARTISTS COURSE

Masterpiece Series

Northrop Auditorium, 8:30 p.m.
(unless specified)

October 20—Warsaw Philharmonic Orchestra, with Wanda Wilkomirska, violin soloist, and Witold Rowicki, conductor: Ticket prices \$2.00, \$3.00, \$4.00, \$4.50, \$5.00.*

Celebrity Series

Northrop Auditorium, 8:30 p.m.
(unless specified)

October 26—Royal Irish Brigade: the massed bands, drums, pipes, and dancers of The Royal Inniskilling Fusiliers, The Royal Ulster Rifles, and The Royal Irish Fusiliers at *Williams Arena*: Ticket prices \$2.00, \$2.50, \$3.00, \$3.50, \$4.00.*

Special Concerts

October 17—Sweet Adelines, Inc. International Contest Finals—8:00 p.m. Ticket prices \$2.00, \$2.50, \$3.00, \$3.50, \$4.00.*

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts

Stanislaw Skrowaczewski conducting
Northrop Auditorium, 8:30 p.m.

October 16—Orchestral

October 23—Eugene Istomin, Pianist

October 30—Sidney Harth, Violinist
 (Tickets \$2.75-\$5.00)

UNIVERSITY THEATRE PRODUCTIONS

Young People's University Theatre Series *Scott Hall Auditorium*

October 24, 10:30 a.m., 3:30 p.m.; October 25, 3:30 p.m.—*Heidi*: Tickets \$75.

Classic Series

Shevlin Hall Arena Theatre

October 29, 30, 31, November 3-7, 8:00 p.m.; November 8, 3:30 p.m.—*Helen* by Euripides: Ticket prices are \$1.25 for shows on Sunday through Thursday; \$1.50 on Friday and Saturday.

ATHLETIC DEPARTMENT EVENTS Home Football Games

Memorial Stadium, 1:30 p.m.

October 17—Illinois (Homecoming) (Single tickets \$5.00. Over-the-counter sale of any unsold tickets begins Monday before each game at Cooke Hall, at the Minneapolis Downtown Ticket Office, and at Field-Schlick in the St. Paul loop, Har-Mar Mall, and Highland Village.)

Cross Country

(Open to the public without charge.)

University Golf Course

October 17—Michigan State University, 10:30 a.m.

October 31—University of Iowa, 10:00 a.m.

ST. PAUL CAMPUS STUDENT CENTER

October 17 through November 6—Cyrus Running Oils.

October 27 through November 17—IBM—Bold Tradition—Mexican Art.

THE MINNESOTAN

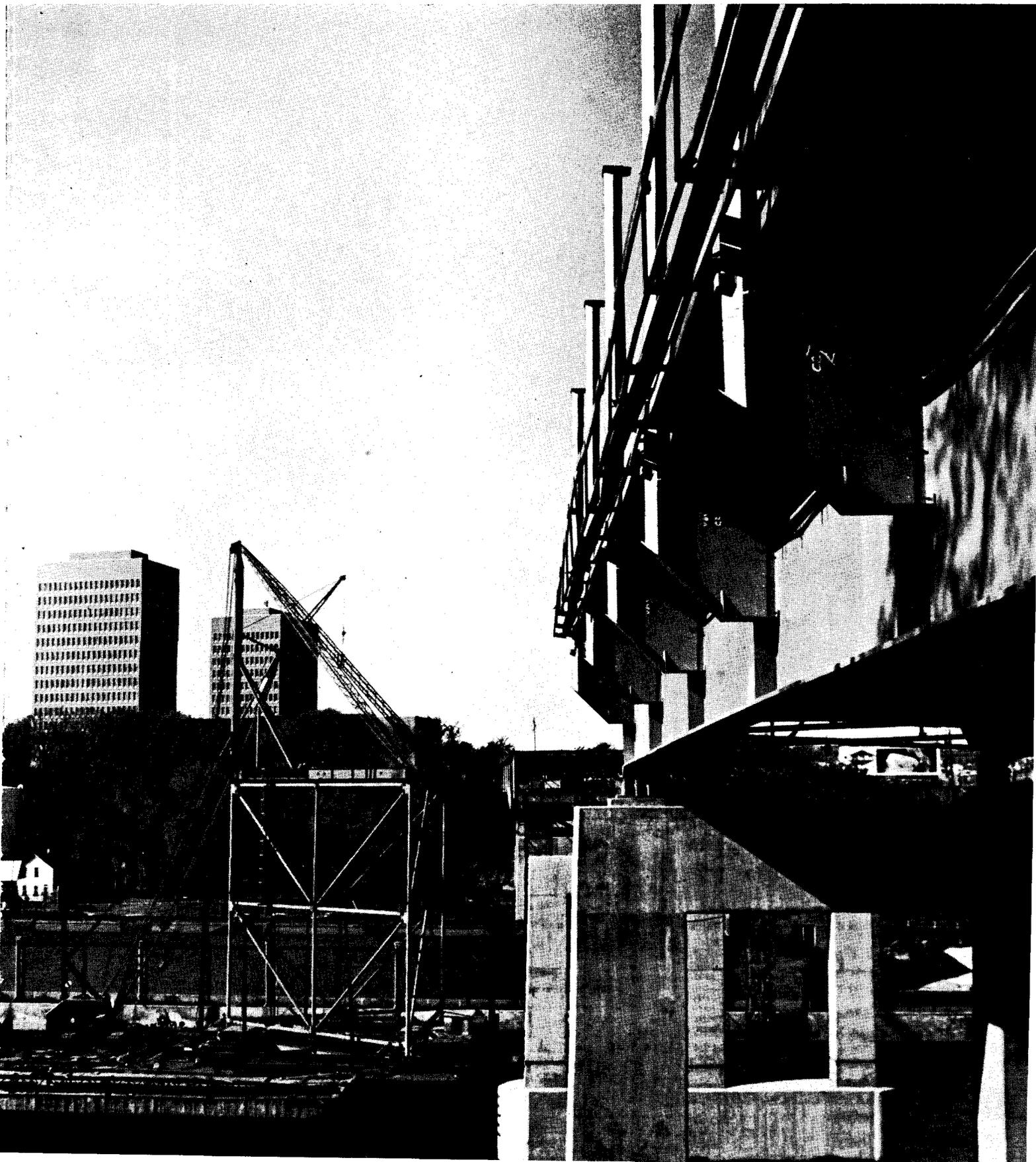
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THE MINNESOTAN

The University Staff Magazine - November 1964





The President's Page

Along with the rest of the world, the University of Minnesota is beginning to feel the acute effects of the population explosion. The so-called "baby-boom" of the early post-war years now is making its presence felt. Dean Summers recently reported that the end of the second week fall quarter enrollment was 38,403 students. This is more than we had budgeted for earlier in the summer, but somewhat less than the 39,000 total that seemed to be a real possibility only a week or two prior to the start of classes. What is most important, our full-time enrollment is 3,291 students larger than a year ago. The first wave of enrollment pressures about which we have been speaking for many years is now upon us, and the enrollment pressures from succeeding waves will be reaching the shores of the University's registration desks for several years to come.

In each of our recent biennial budgets we have requested an increase in the number of staff members and in physical facilities in order to be prepared for this situation. We have been partially successful in meeting our goals, but only partially, as our budget preparations for the coming biennium have rather painfully demonstrated. For the first time at the University of Minnesota we have had to consider seriously the possibility of limiting the total enrollment of the University. Although limited finances have restricted ability to hire more staff members, our over-riding problem for the immediate future is the limitation dictated by our physical plant. Even if the staff were made available for the number of students who are eligible for admission

and who are likely to request it in our several colleges, we simply lack the physical facilities. We could extend the teaching day to provide classrooms, but we have no ready means of extending the use of laboratories or for adding offices for faculty.

The opportunity to expand our physical facilities on a short-run basis by using temporary buildings obtained at little or no cost, as we did in the late 1940's, simply does not exist today. We have been forced, therefore, to ask several of the faculties to devise means by which their enrollment might be limited. In other words it may be necessary that the total University undergo controlled, rather than free growth. This is a new situation only in the sense that it involves the total University, since controlled growth has characterized many of our units for some time.

Given Minnesota's long tradition of "open doors to learning," the decision to explore overall enrollment limitations was taken reluctantly. All of us have known a "late bloomer" who benefited greatly from his university experience, or a student with moderate intellectual capacity whose exploitation of further educational opportunity exceeded that of the high-school valedictorian. If at all possible, we want to continue to give these students a chance for further education and to help them contribute more to society. Regardless of our ultimate decisions, we must retain our concern for the individual student and his unique educational needs.

The situation we face even in those colleges with greatest enrollment pressures, while difficult, is not desperate. The years ahead give us perhaps the greatest challenges and the greatest opportunities we have ever faced. As we meet those challenges together, I am certain that you will provide the same high degree of advice, cooperation, and service that you have given so willingly in the past.

Meredith Wilson

Cover Story . . .

(see page 5)

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Photographs, unless otherwise credited, were taken by members of the University Photographic Laboratory. Cover photo by Alan Ominsky.

Second class postage paid at Minneapolis, Minnesota.

Professor Robert Karplus, University of California physicist, is one of a score of outstanding scholars who have been associated with Minnemath. Head of the science writing teams during the summer of 1963, he is shown working with a youngster in a demonstration class at Tuttle School, which was used as a Minnemast experimental center that year.



—photos by Alan Ominsky

*Curriculum Research
and Development
Aim to Improve
Science and Mathematics
Education*

PROJECT MINNEMAST

From a few jam-packed offices in a "war surplus" building within the Minneapolis Campus engineering complex, a project known as Minnemast is reaching out to scholars and educators around the world.

Minnemast stands for "Minnesota Mathematics and Science Teaching Project," and it is the principal activity of the Minnesota School of Mathematics Center, which is a unit within the University's Institute of Technol-

ogy. (The center itself goes by the short name Minnemath).
Professor Paul C. Rosenbloom, Minnemath director and University mathematics professor, frequently goes into the classroom to work personally with children and try new lesson materials.

ogy. (The center itself goes by the short name Minnemath).

It is engaged in curriculum research and development. Its long-range goals are to improve the quality of science and mathematics education—both teaching and learning—in America's schools. Its activities to achieve those goals are as varied and often as brilliant as the spectrum through which scientists analyze components of the universe.

Minnemath is one of three parts in the University's Division of Mathematics (the other two are the unified mathematics department serving the Institute of Technology, the College of Liberal Arts, and the Numerical Analysis Center). Although experimental centers associated with Minnemast span the nation from New York to Arizona and from Florida to Oregon, over-all leadership of the project is in the hands of two University of Minnesota faculty members. They are Professor of Mathematics Paul C. Rosenbloom, who initiated and directs Minnemath, and Associate Professor of Physics James H. Wertz, Jr., co-director for science.

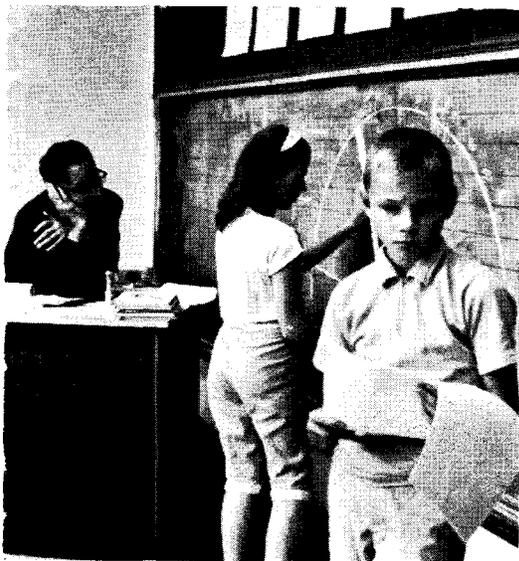
Several more Minnesota faculty members, scholars who have been attracted to the staff from other colleges or universities, visiting professors drawn to Minnesota for a year or two, mathematicians, scientists, psycholo-

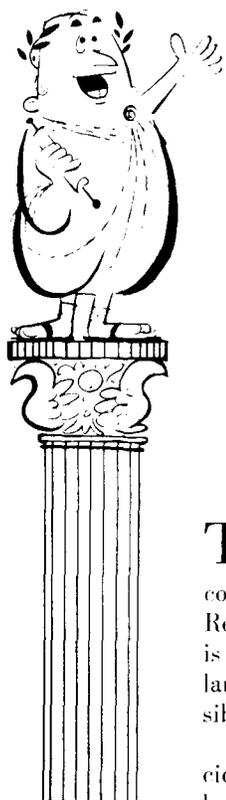
gists, educational administrators, and teachers from many other institutions also are contributing to the program.

This inward flow of scholarly effort is more than matched now by an increasing outward flow of modern course materials for mathematics and science curriculums in the schools plus the manuals and instruction necessary to train teachers to teach these new courses effectively. So far the outward flow is channeled through seventeen colleges and universities in fourteen states which supervise trial runs with the new courses in schools. But educators in many other states and countries—among them England, the United Arab Republic, Southern Rhodesia, and New Guinea—have become interested in Minnemath because it holds promise for speeding up education in newly-developing areas.

Like many other significant experiments for improving the quality of education, Minnemath is supported by grants or contracts from outside the university, chiefly from the National Science Foundation and the United States Office of Education. These agencies have provided \$1,728,000 during Minnemath's approximately five years of existence. The federal agencies also have awarded grants or contracts totaling around a half-million dollars to the Minnesota National Laboratory, a

(continued on page 10)





THE UNIVERSITY SENATE

by H. T. Morse *

The Senate of the University of Minnesota first came into being when its proposed constitution was adopted by the Board of Regents at their meeting of May 5, 1912. It is interesting to note the somewhat cautious language involving the delegation of responsibility, which ran as follows:

"All matters of detail including those incident to the management of the student body, relating to the educational and administrative affairs of the University, except insofar as the Board may think proper to act directly, are, for the purposes of effectuating the government and educational management of the University under and by the Board of Regents, committed to the President, the University Senate, and the several college faculties."

In those less complicated days membership in the Senate was also simply defined—all faculty members holding the rank of Associate Professor or Professor (the so-called tenure ranks) were automatically members of the University Senate. But no one could possibly foretell how the University would grow in size in the decades ahead, and in time the membership in the Senate became so large that for many members it ceased to have any real significance. It met once each academic quarter. Attendance was perfunctory, and really crucial problems of all-University concern tended to bypass the Senate.

At various times comments were made about the desirability of revising the constitution and the constituency of the Senate, but no active steps were taken. Finally, in 1952 the Senate directed its own Committee on Education, as it was then called, "to carry forward a study of the possible reorganization of the Senate, giving central consideration to the broad problem of faculty participation in policy formation."

This commission was accepted and executed with zeal and intensity. Two full years were spent in study and de-

(Editor's Note—In the belief that all staff members would like to know more about the history and functions of the University Senate, we have asked Dean H. T. Morse of the General College to write the following article. Dean Morse was chairman of the committee which drafted the revised constitution of the Senate in 1952-1954. A similar article on the Board of Regents by another author is planned to appear in a future issue of The Minnesotan.)*

velopment of proposed revisions. In the spring of 1954 the committee presented the proposed revised constitution. After more than two hours of heated debate and discussion, the revised version was approved. There were several significant changes in the new version, with subsequent modification, which may be listed briefly:

1. The membership base was changed from automatic inclusion of professors and associate professors to a representative body in which members were elected by their colleagues. This reduced the size of the Senate from 727 to 132 members. (Elected membership totals 158 for 1964-65).
2. The non-tenure ranks were also represented (instructors and assistant professors), although a later amendment restricted voting and elected membership to faculty members holding the rank of assistant professor or above, at a ratio of one representative for each ten such members or fraction thereof in voting units.
3. Those groups with whom the President of the University needed to confer on general policy were brought into a single body. (These groups were the faculty members elected to the Senate, the deans of the colleges and other chief administrative officials, and the Faculty Consultative Committee.)
4. The revised constitution provided for a new standing Committee on Senate Committees, "to review the number and scope of standing committees of the Senate." This committee has been very active and influential since its creation.
5. The Senate was to have regular meetings twice each academic quarter, instead of only once.
6. Each of the major instructional units of the University had direct elected representation in the revised Senate.
7. Meetings of the Senate are closed, although all members of the faculty who hold regular appointment "may be present at Senate meetings and shall be entitled to speak and to offer motions for Senate action," but, of course, not to vote. Members of the Administrative Committee are ex officio nonvoting members, and student members of Senate committees may be admitted to the Senate for the duration of the discussion of the report of that committee.

The new constitution carried forward most of the provisions regarding the authority and responsibility of the Senate. It specified that: "The Senate shall have general legislative authority over educational matters concerning the University as a whole, but not over the internal affairs of a single institute, college, or school of collegiate rank, except where these materially affect the interests of the University as a whole or the interests of other institutes, colleges, or schools."

It is not always easy to determine exactly what this language means. A specific statement following the above quotation was included only recently, in order to provide some educational unity following a reorganization of the College of Liberal Arts. This statement reads: "The minimum requirements for a liberal education are matters that materially affect the interests of the University as a whole."

In other parts of the constitution it is specified that the Senate has explicit power "to enact statutes for the government of the students," to control relations "between the University of Minnesota and other educational institutions," and to participate in controversies "arising between institutes, colleges, and/or schools of collegiate rank."

Because of the shadowy area between the powers of the Senate, the rights of the individual colleges or schools, and the authority of the central administration, it might be possible for the President of the University, if he wished to do so, to bypass the Senate on many important policy matters, and reduce it to merely a glorified debating society. But President O. Meredith Wilson has brought major questions to the Senate for debate, which often has been heated, and for decision, which often has been difficult. One of the most publicized questions was that of the University of Minnesota's invitation several years ago to participate in the Rose Bowl game. The occasion on which this issue was discussed and decided was a memorable one indeed, and was also one of the longest Senate meetings on record. The knotty problem of the recent reorganization of the University was thrashed out in Senate meetings, and the wounds of these debates and decisions are not yet all healed. A more recent *cause celebre* which has aroused some anguish in the Senate, as well as elsewhere, has been the often bitter and acrimonious controversy

about the University policy of allowing speakers of sharply differing opinions to debate publicly a question such as academic freedom at a time when the image or the interests of the University might be adversely affected.

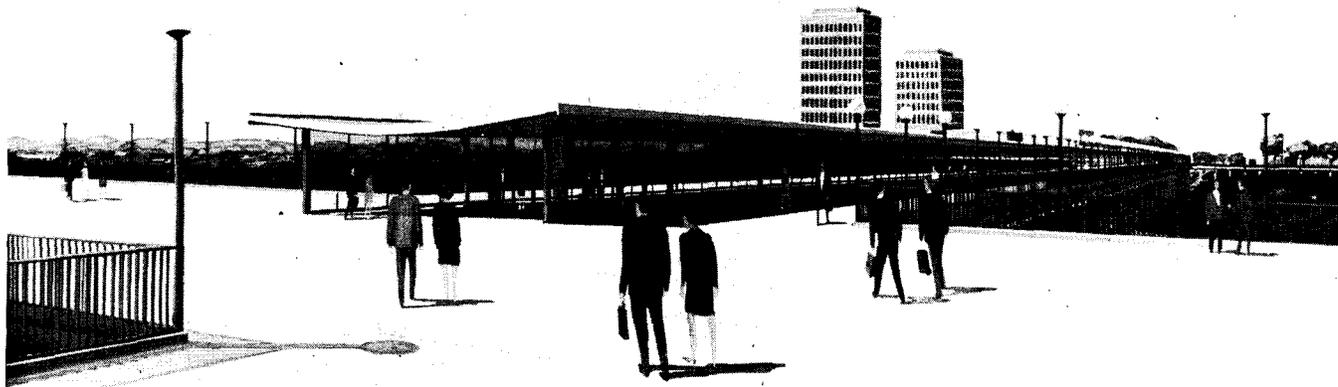
The docket or agenda for Senate meetings, in the form of printers galleys, is distributed in advance to all faculty members at instructor rank or above, on regular appointment, and the minutes are similarly distributed. A significant improvement and innovation for the latter was added several years ago in the form of a new section called "Abstract of Discussion," as an appendix. This section provided a resume of the discussion of various items of business, which was usually the most interesting aspect of Senate meetings, but which did not appear in this form in the more formal Minutes.

It is the opinion of many veteran faculty members that the "new" representative Senate, with elected members holding three-year terms, is a decided improvement over the old form. It can serve a representative function fully, however, only if the elected members attend with some regularity. At the end of each year an attendance roster is printed in the Minutes, and even a casual examination of this list indicates that some elected members take their responsibility lightly. Very few report back to their constituency in any systematic way. Some attend only one or

(continued on page 10)

On the cover . . .

Profile of University Changes with Construction



An architectural rendering of the pedestrian plaza of the Washington Avenue bridge and the proposed pedestrian walkway cover joining the East and West Bank campus.

The new Washington Avenue bridge, now under construction, (see cover) is scheduled for completion in November of 1965. Although the proposed pedestrian walkway linking the University's East and West campuses will be usable at that time, it will not be finished. The seventy-two foot wide center section, shown in the architectural drawing (above), will be constructed later.

Recently completed buildings on the Minneapolis Campus are the Children's Rehabilitation Center, the Science Classroom Building, the fifth and sixth floor additions to Diehl Hall, the fourth floor addition to

the Electrical Engineering Building, and the south wing addition to the Physics Building. New on the St. Paul Campus are the Lake States Forest Experiment Station Building and the phase-two addition to the Forest Products Building. On the Duluth Campus, the Humanities Building additions and the General Classroom and Home Economics Buildings have been completed.

Scheduled for completion before the end of the year on the Minneapolis Campus are the office connecting link between the Electrical Engineering Building and the Main Engineering Building, the Tandem Van de

Graaff Laboratory Building, and the Parking Ramp addition; on the Duluth Campus, the Kirby Student Center additions and the addition to the Education Classroom Building and the Tweed Gallery are to be finished before the year's end.

To be finished sometime in 1965 are the North Wing Physics Building addition, the Museum of Natural History addition, the Variety Club Heart Hospital addition, the number four and five boiler additions to the Heating Plant, Minneapolis Campus; the Library addition and Student Housing Project, Duluth Campus.



Co-originator of the Duluth Business Index—a newly introduced method of measuring the city's business activities—is a Duluth Campus professor of business and economics, **Cecil H. Meyers**. Professor Meyers has also been involved in earlier studies of industry and employment as part of an economic appraisal of the northern half of Minnesota. He is presently teamed with Professor Richard O. Sielaff, head of the Division of Social Sciences at UMD, in a study of the economic feasibility of a Voyager's National Park near International Falls. Professor Meyers has been a Duluth Campus faculty member since 1949.

Interest in international education led **Professor Louise A. Stedman**, Director of the School of Home Economics, around the world on sabbatical leave in 1963 for six months to confer with foreign educators and visit their schools. She visited foreign students who have studied home economics at the University of Minnesota and Americans on foreign assignments, and investigated international opportunities for home economists. She also met with University alumni groups in Manila and Taipei. Professor Stedman has written numerous articles on home economics and psychology for educational journals. She is active in campus, civic, and international organizations.



WE

The Staff Members and Friends of the University



Luther J. Pickrel, former assistant to President O. Meredith Wilson, has been named Director of the Agricultural Extension Service of the Institute of Agriculture. In his new position, Professor Pickrel is administratively responsible for the Agricultural Extension Service and its program of continuing education through the ninety-one county extension offices and a state staff of ninety specialists and administrative personnel. As an extension specialist in public affairs education until 1962, Professor Pickrel led the development throughout Minnesota of a series of educational forums and seminars dealing with issues of agricultural policy, trade, food consumption, land use and zoning, and local government and public finance. He was also the first director of Peace Corps training when that program was established at the University in 1962.



The appointment of **Dr. Erwin M. Schaffer** to Dean of the University of Minnesota School of Dentistry became effective July 1. Previously Clinical Professor and Chairman of the Division of Periodontics, he has been a member of the staff since 1945. Dean Schaffer is the author of 40 papers, articles, and pamphlets on dental research, education, and treatment. He has conducted extensive research, especially in the field of bone regrowth and cartilage grafts in cases of periodontal diseases. Through work in various national and state professional organizations, Dean Schaffer has been active in promoting public education in dental health and in arranging post-graduate training programs for dental teachers.

The task of maintaining a sound intercollegiate athletic program at the University keeps **Marshall Ryman**, Director of University Intercollegiate Athletics, continually busy with all the Gopher teams. In addition, Mr. Ryman presently heads a Finance and Facilities Committee to draw up a ten-year plan of athletic facilities development on the Minneapolis and St. Paul campuses in terms of building facilities and recreation, practice, and playing areas. The committee will also develop plans for comprehensive intercollegiate-intramural-physical education facilities in the Delta Field area, where the University has acquired additional land.

—photo by Minneapolis Morning Tribune



THE BENEFACTORS

Louis W. and Maud Hill



Nearly six thousand employees on the University campuses look to the office of Civil Service Personnel for personnel services. Responsible for keeping civil service employment processes operating smoothly are personnel service representatives. One of these is **Dorothy M. Lockard**. For the past four years Miss Lockard has handled problems of classification, job evaluation, and salaries of employees in the College of Liberal Arts, Graduate School, and other areas. She also helps to interview applicants for all colleges. Miss Lockard is a member of Public Personnel Association. She has also worked in University Hospitals and Walter Library. Recently, the Civil Service Personnel Department moved into newly expanded facilities on the ground floor of Morrill Hall.



Chairman of the Division of Sciences and Mathematics at the University of Minnesota, Morris, **Professor of Biology Jay Y. Roshal** is a member of the secretariat of the Space Science Board of the National Academy of Sciences in Washington, D.C. There, he serves on three committees of the board: Man in Space, Exobiology, and Environmental Biology. Professor Roshal was instrumental in developing the science program at the Morris Campus. He has taught at Oberlin College, Eastern Illinois University, and on the Minneapolis Campus.

In the 1963-64 fiscal year, the Louis W. and Maud Hill Family Foundation made grants to the University of Minnesota totaling over \$500,000. The emphasis of the Foundation's program last year was on helping the "various institutions and agencies to do as well as they know how in areas of their special competence." To the University, this meant major grants to improve curriculum, bring new personalities and ideas to the classroom, and provide an opportunity for faculty members to meet with their colleagues in productive settings.

The thirty year old Foundation, established by the late Louis W. Hill, son of the railroad builder, James J. Hill, continues to have a deep interest in adding new knowledge in the fields of science, health, and education as well as support for research in many of these fields. Mr. Louis W. Hill, Jr., son of the Foundation's founders, serves as Foundation president. Mr. A. A. Heckman is secretary and executive director.

In keeping with its policy of providing "risk" or venture capital for new programs that have a potential for public acceptance and support from other sources, emphasis has shifted from research to projects that put knowledge already gained in research to work in the public interest.

A conditional five year grant of \$300,000 will enable the University to present a continuing program of visiting professors in the natural sciences, the social sciences, the arts, and the humanities. The program will be fully evaluated in its third year to determine whether it should be extended to the full five years.

This year's visiting professors under the program are Sir Tyrone Guthrie, British and American stage director; Hans Joachim Schrimpf, professor of German literature, University of Westphalia, Germany; Leslie J. Audus, plant physiologist, Bedford College, London; Kiyoshi Noshiro, professor of analysis and function theory, Nagoya University, Japan; Hugh Dalziel Duncan, sociologist and author, Chicago.

Hill Family Foundation directors are especially concerned that medical education at all levels be kept abreast of medical research. For some years, the Foundation has supported research professorships at the University's Medical School. This year a grant of \$60,650 was made to extend the first of these, the Hill Research Professorship in Enzymology, for three years beyond the originally established ten years.

Another way to strengthen medical education is through curriculum revision: Hill Family Foundation made a \$110,000 grant to the "Comprehensive Clinic Program" in 1959, to give students in clinical medicine at the University more complete training in patient care. Director of the program is Dr. Richard M. Magraw, assistant dean of the College of Medical Sciences. Implementing grants have been made to it each succeeding year.

Final grants to the Medical School this year totaling \$5,500 will enable several faculty members to conduct off-campus seminars on important educational problems and needs.

A special grant of \$8,000 was made to Dr. William E. Rempel, of the Department of Animal Husbandry, to supervise a project to secure pygmy pigs for use as laboratory animals in medical research. The miniature pigs, now nearly extinct, are found in the jungles of Nepal and may be brought to this country only in accordance with restrictive United States laws. The pigs will be kept in the Boston Zoo, and their progeny, if any, will be available to the University's scientists for further breeding and research.

In another field, the Foundation's board of directors has taken note of the increasing interest to astronomers throughout the world in the outer envelope of our galaxy. Because important progress in Milky Way research has been made here, a grant of \$5,400 was made to the University, under the direction of Willem J. Luyten, chairman of the Department of Astronomy, to enable these scientists to hold a conference immediately following the General Assembly of the International Astronomical Union in Hamburg, Germany, in the summer of 1964.

Another grant awards \$10,000 to the University and the American Assembly, an adult study program in national and international affairs founded by President Dwight D. Eisenhower. Two seminars will be conducted, dealing with United States-Latin American relations and the population dilemma, and involving seventy to ninety businessmen, farmers, labor leaders, and professional men from Minnesota and the Dakotas.

A joint grant of \$6,000 was made to the University's School of Business Administration and Macalester College for partial support of a major conference on the subject of profits. A three year grant of \$25,920 was made to help the School of Business Admin-

(continued on page 10)



Mr. Gordon R. Closway, Winona, past president of Minnesota Newspaper Association, is served a generous helping of barbecued beef by Professor of Animal Husbandry Robert J. Meade at the LEB Day luncheon.

University Entertains Legislators, News Men

Research Glassblower Vernon L. Johnson of the University's Glassblowing Department demonstrates his craft to Mr. and Mrs. Kermit Estlund, visitors of Legislators' Editors' and Broadcasters' Day. Mr. Estlund is editor of the *Isanti News*.



Legislators', Editors' and Broadcasters' Day has become a significant, all-University event. It is designed to give lawmakers and members of the communication media an opportunity to become better acquainted with the University and its administrative officials and faculty members. It is hoped that our visitors on September 26 shared some of the excitement that marks the kick-off of a new football season and a new academic year.

The 1,200 guests at this year's event viewed an array of University exhibits and attended a barbecued beef luncheon in Williams Arena before the Minnesota-Nebraska football game.

The forty exhibits, from as many University departments, depicted various aspects of University teaching, research, and service. These varied from a glassblowing demonstration to an

Mr. Roger Gardner, production manager at WCCO-TV, and Mrs. Gardner view a calf with congenital porphyria or pink-tooth disease at the LEB Day College of Veterinary Medicine display. Charles Stancer, a junior in the College, holds an ultra-violet light to show the abnormal coloration.

operating computer capable of drawing a blueprint, performances by University Theatre student actors, and a calf with congenital porphyria (pink-tooth disease).

The luncheon was prepared and served by members of the Block and Bridle Club, an organization of animal husbandry students. Deans and several members of the faculty from the University's various colleges served as hosts.



NEW FACULTY MEMBERS WELCOMED AT ORIENTATION

The fourth annual orientation-reception meeting for new faculty members and their wives and children was held the evening of September 20 in Coffman Memorial Union. Guests were given welcome packets of information about the University upon their arrival.

Chairman of the program in the Main Ballroom was Dean H. T. Morse of the General College. Guests were welcomed by President O. Meredith Wilson who introduced new faculty members and their wives to some of the problems of a rapidly expanding University.

Dean E. W. Ziebarth of the College of Liberal Arts spoke on the cultural and recreational opportunities at the University and in the state of Minnesota. Professor C. Arthur Williams, chairman of the Faculty Welfare Com-

mittee, talked about the work and results of his committee.

Assistant Vice President Donald K. Smith discussed history of the University, its mission, and its relationship to the state. Mrs. William G. Shepherd, president of the Faculty Women's Club, extended an invitation to all women present to become members of the women's organization.

Later, the Campus Club sparked with lively conversation as new faculty members met each other. President and Mrs. Wilson, and special guests. Refreshments were served by members of the Faculty Women's Club.

To solve babysitting problems for faculty parents, children were invited to attend the event, and provisions were made for their care. Some fifty children were also welcome guests of the University.

PROMOTIONS AND APPOINTMENTS

CLIFFORD G. HILDRETH (Michigan State University) has been named professor of economics and agricultural economics. Appointed professor of radiology and director of the division of radiation therapy is DR. GIULIO J. D'ANGIO (Children's Hospital Medical Center, Boston). GEORGE W. GREENLEES (University of Birmingham, England) has been appointed professor of physics. JOSEPH LARNER has been made professor of biochemistry.

HERBERT W. JOHNSON has been named head of the Department of Agronomy and Plant Genetics. LANDIS L. BOYD (Cornell University) has been appointed professor and head of the Agricultural Engineering Department. PROFESSOR EMERITUS SAMUEL EDDY, Department of Zoology, has become honorary curator of the Museum of Natural History.

DR. DENNIS W. WATSON has been appointed head of the Department of Microbiology, College of Medical Sciences.

New professor of pharmacology is AMEDEO S. MARRAZZI (Veterans Administration Research Laboratories, Pittsburgh). WILLIAM C. WALTON (Illinois State Water Survey) professor of geology and geo-physics, is the new director of the Water Resources Research Center. GEORGE C. WINTEROWD (Miami University) has been appointed professor in the School of Architecture. WERNER SIMON has been made clinical professor in the School of Social Work.

PROFESSOR ROBERT F. SPENCER is now chairman of the Department of Anthropology. E. W. McDIARMID, professor of library science, has been made director of the fellowship office in the Graduate School. Professor of Poultry Science ROBERT N. SHOFFNER is now acting head of his department. ROBERT A. GOOD, who holds the American Legion Heart Research Professorship, has been appointed to serve also as professor of microbiology. Three others similarly appointed to serve as professor of microbiology are LEWIS W. WANNAMAKER, professor of pediatrics, and professors of dairy industries, JAMES J. JEZESKI and JOSEPH C. OLSON.

NICHOLAS A. GLASKOWSKY, professor of business functions and management, now serves as professor and director of undergraduate programs for the School of Business Administration. Appointed professor of air science is LIEUTENANT COLONEL THOMAS R. OWENS.

PROFESSOR ELMER W. LEARN replaces PROFESSOR LUTHER J. PICKREL as Assistant to PRESIDENT O. MEREDITH WILSON. Professor Learn was formerly head of the Department of Agricultural Economics.

Regents' Scholarships

The following civil service staff members are winners of Regents' Scholarships for Fall Quarter day school: DUANE ELVIN, senior personnel representative, Civil Service Personnel; JOHN F. WILSON, personnel representative, Civil Service Personnel; RONALD J. WALRATH, library assistant, Walter Library Circulation; IRMA PETERSON, senior clerk, Walter Library Reserve; MARY ANN RUSH, library assistant, Ames Library; MARY R. OXBORROW, library assistant, Walter Library Circulation; WILLIAM BUNTING, principal clerk, Chemical Storehouse; ALFRED R. MARTIN, museum preparator, Museum of Natural History; PEARL M. MORGAN, principal secretary, Office of the President; NEIL McCRACKEN, principal account clerk, Research Contracts and Grants.

PATRICIA C. TOLLEFSON, secretary, Classics; JUDITH Y. MACK, senior clerk-typist, Student Counseling Bureau; SONDAR M. PAULSON, psychometrist, Student Counseling Bureau; RITA CLARE PATTERSON, senior clerk-typist, Bureau of Student Loans and Scholarships; MARSHA ANNE ASP, senior clerk-typist, Student Counseling Bureau; GLADYS E. BARBER, photography assistant, Dental Illustration; MERVYN OWEN BERGMAN, assistant scientist, Institute of Child Development; JUDITH E. JOHNSON, head nurse, Nursing Services; PATRICIA L. NESBITT, senior clinic nurse, Nursing Services; DONNA DZUBAY, lab technologist, Hospital Laboratories.

KATHILEEN L. HANSEN, student technologist supervisor, Hospital Laboratories; ROBERT E. ARTHURS, hospital orderly, Hospital Rehabilitation; MELVIN L. SAUVE, computer programmer, Agricultural Experiment Station; VERA R. HOVERMAN, senior statistical clerk, Agricultural Economics; MICHAEL D. SCOTT, laboratory technician, Animal Husbandry; GERALDINE M. HUGHES, senior clerk-typist, Agriculture, Forestry and Home Economics; THOMAS J. CONDON, laboratory technician, Soils; JOHN A. RISTOW, senior engineer assistant, Physics; MICHAEL R. COSCIO, JR., assistant scientist, Geology and Geophysics; GORDON K. LALONE, JR., senior laboratory attendant, Chemistry.

ADRIAN ROY SWANSON, assistant scientist, Chemistry; PATRICIA ANNE COLLINS, senior secretary, Inorganic Chemistry; DONALD L. RAPAWAY, research shop foreman, Electrical Engineering; WAYNE F. CAVENDER, senior laboratory technician, Radiation Therapy; ANDREW A. HUDSON, assistant scientist, Radiation Therapy; PEARL S. VARIAN, laboratory technician, Radiation Therapy; ROBERT B. TUCKER, junior scientist, Physical Medicine and Rehabilitation; RUDOLPH SINGELSTAD, pre-vocational therapist, Physical Medicine and Rehabilitation; RONEE HENDRICKSON, junior scientist, Pediatrics; ALDORA M. LOE, junior scientist, Pediatrics.

DONNA M. OMAN, junior scientist, Pediatrics; MAXINE K. DILLIARD, laboratory technologist, Pediatrics; FREDDIE L. ESTES, principal account clerk, Medical Administration; MARILYN R. ROGERS, laboratory technologist, Ophthalmology; DAVID E. PETERSON, laboratory technologist, Ophthalmology; MARGARET M. BONMEYER, junior scientist, Medicine; SANDRA SUE NELSON, senior clerk-typist, Comprehensive Clinic; RUTH LEVERETT, junior scientist, Microbiology; SUSANNE C. MUELLER, laboratory technologist, Micro-

biology; JEANNE McNALLY, laboratory technologist trainee, Pathology.

BARBARA ALICE LUDTKE, secretary, Obstetrics and Gynecology; JOHN A. JOHNSON, associate scientist, Medicine, Division of Dermatology; DENNIS D. HAMMOND, senior animal laboratory attendant, Physiology; EDWARD MONAHAN, JR., senior communication technician, Audio-Visual Education Service; LOUISE G. PREZEL, senior laboratory technician, Veterinary Bacteriology; ERIC K. CLARKE, principal engineering assistant, Plant Services; RAYMOND KURESKI, delivery service driver, Plant Services; PATRICIA L. OAS, secretary, Business Office; CONSTANCE J. SKIDMORE, student personnel worker, Student Personnel Services; HAVARD ARCHERD, supervisor, Admissions and Records; CARMINE RUSSELL, clerk-typist, Humanities Division.

IDA MAE STEVENSON, senior account clerk trainee, Business Office; JANNIE WAGNER, senior-clerk, Admissions and Records; CAROLYN J. HELVIC, senior-clerk, Admissions and Records; CLAUDETTE A. HAJNY, principal clerk trainee, Room Assignments and Scheduling; JAMES L. BRUNDAGE, patrolman, Police; ERNEST MEYER, junior engineer, Plant Services; JEAN ANN McCARTNEY, junior scientist, Industrial Relations Center; EMILIE A. LEE, senior clerk-typist, Industrial Relations Center; JULIE J. DVORAK, secretary, Economics; MARY A. HASSENSTAR, secretary, Humanities Program.

Library Named for Straub



Lorenz G. Straub

The library of the St. Anthony Falls Hydraulic Laboratory has been named the Lorenz G. Straub Memorial Library in honor of the late Professor Lorenz G. Straub, who designed and was head of the St. Anthony Falls Hydraulic Laboratory.

The University of Minnesota Memorial Fund has made it possible for hundreds of Professor Straub's friends and admirers to contribute to another memorial for him through the Special Projects Program. Instrumental in beginning this memorial fund were Professor Edward Silverman, acting head of the Laboratory, and his secretary, Mrs. Mary Marsh, formerly secretary to Professor Straub.

Project Minnemast Moves to Higher Grades

(continued from page 3)

curriculum research division initiated by Professor Rosenbloom in the Minnesota State Department of Education.

Currently, the largest grant, almost a million dollars, is allocated to Minnemast. The project's purpose is to develop a new curriculum based on coordination of mathematics and science instruction from kindergarten up. Going a long step beyond either the so-called "new mathematics" or "new science" individually, the coordinated courses may be considered as the second generation in the rounds of educational upgrading.

As they work together guiding this unique mathematics-science curriculum through its early stages, Professors Wertz and Rosenbloom both infuse the project with deep-felt personal convictions as well as with their professional knowledge. Professor Rosenbloom, a Minnesota faculty member since 1951, had earned international recognition and won the Frechet Prize of the French Mathematical Society a year earlier. A native of Portsmouth, Va., he held degrees from the University of Pennsylvania and a doctorate from Stanford, had been a Guggenheim Fellow in 1947-48 and had served as a guest professor, lecturer, or faculty member at Brown, Syracuse, Columbia, Kansas, and Harvard Universities in this country and at Lund University in Sweden before coming to Minnesota. Throughout those years he developed a concern about the ways in which mathematics was being taught, and began personal research in educational literature.

In 1958, he was finally able to do something concrete about his plans when the Louis W. and Maud Hill Family Foundation* provided the original \$10,000 "seed money" which launched the Minnesota National Laboratory. About a year later the first federal grants were secured to start Minnemast on its way to million dollar scope and nationwide influence.

Although the science program got under way later than the mathematics program, Professor Wertz was "out on the hustings," as they say of political speakers, to carry the campaign for better science instruction to high schools years ago. He has been a visiting lecturer under auspices of the American Association of Physics Professors and the American Institute of Physics, and in January, 1962, was named regional counselor of the latter organization to help promote its educational program.

The son of a chemist, a graduate of Oberlin College with a mathematics major, holder of a Ph.D. in physics from Wisconsin, and a specialist in the physics of very low temperatures, Professor Wertz says that "preaching for better science wasn't enough." So he assumed a more active role as Minne-

mast's co-director for science. Professor Wertz feels this is important for the future education of his own children, but he also believes no nation today can afford a society of "scientific illiterates."

Writing teams of mathematicians, scientists, psychologists, teachers, artists, and authors working at Minnesota during the past several summers have produced coordinated materials only for the first few grades. But the project directors say their progress is greater than the development rate envisaged by the so-called Cambridge Report, which was a major analysis of the nation's shortcomings and possible goals in mathematics education. Professor Wertz reported recently that the coordinated mathematics-science program for kindergarten and first grade will be tried in Minnemast experimental centers this year. Next summer writing teams hope to refine the second grade course and move rapidly ahead with third and fourth grade material.

Each year, as Minnemast moves to higher grade levels, the influence of the Minnesota-born program increases. Materials already produced are finding wider distribution, the corps of trained teachers and interested school administrators is growing, and more parents are requesting modern curriculum for their children as they become aware of the unexercised learning capacity of children.

In order to buttress the program with its multi-disciplined character from the beginning, Professors Wertz and Rosenbloom have enlisted the help of other Minnesota faculty members for the project. Among these are Associate Professor Z. Z. Hugs, chairman of inorganic chemistry; Associate Professor William Phinney, geology, and Research Fellow in the Institute of Technology Richard Myshak. Added to the faculty through joint appointments with various departments have been Professor Seymour Schuster, who is supervising development of a new college geometry course, Professor Wells Hively, specialist in programmed instruction; Professor Ronald Weitzman in the field of psychological measurements, and Professor Lydia Muller-Willis in child psychology. Professor of Psychology James Ryan, holds a joint appointment in the Minnemast center and the National Laboratory.

The University Senate Works Through Standing Committees

(continued from page 5)

two meetings per year, and some do not attend any meetings at all. How well these absentee members serve their fellow faculty members, the latter will have to determine, members, whom they are supposed to represent.

The work of the Senate is done largely through its standing committees, which bring recommendations to the main body for action.

the designations of the committees of the Senate, and the name of each chairman for the academic year 1964-65, are as follows: Admissions Policy, R. E. Summers; All-University Council on Liberal Education, Donald K. Smith; All-University Extension, Albert K. Wikesberg; Audio-Visual Aids, Neville P. Pearson; Business and Rules, Elio D. Monachesi; Closed-Circuit Television, Willard L. Thompson; Educational Policy, John G. Darley; Faculty Consultative, Alfred O. C. Nier; Faculty Welfare, C. Arthur Williams, Jr.; Institutional Relationships, Jack C. Mer-



win; Institutional Research, Philip M. Raup; Intercollegiate Athletics, Alfred L. Vaughan; Judicial, Charles H. McLaughlin; Library, Clarke A. Chambers; Reserve Officers' Training Corps, Rodney C. Lochr; Senate Committees, William P. Martin; Student Affairs, Edwin Emery; Student Scholastic Standing, Frank Verbrugge; University Functions, William L. Nunn; University Printing and Publications, Harold W. Wilson.

Hill Family Foundation Emphasizes Putting New Knowledge to Work

(continued from page 7)

istration develop a continuing research program in its new Center for Experimental Studies in Business. As with all grants to the School of Business Administration, Dean Paul V. Grambsch is the administrator, and Professor Robert Holloway is the director of this particular program.

The final grant of the 1963-64 year to the University was \$10,800 to a project of University chemical engineers and biologists for a joint study of the mechanisms of population.

Hill Family Foundation's directors distributed a total of \$2,028,680 last year, the largest sum in its history. The Foundation is the largest such fund in Minnesota, but it is by no means the largest in the nation. Keeping in mind the relative size of the fund, and its location, the directors' overall policy is to make grants to initiate projects of special value to, or originating in, the Northwest. To keep the program flexible, long range grants are seldom made; the directors shift the emphasis of the program each year for maximum impact in its areas of interest.

* See Benefactors Page 7.

University of Minnesota Calendar of Events

November 1-15, 1964

UNIVERSITY ARTISTS COURSE

Masterpiece Series

Northrop Auditorium, 8:30 p.m.

November 10—Leonard Pennario, pianist
Ticket prices \$2.00, \$2.50, \$3.00, \$3.50, \$4.00 *

Celebrity Series

Northrop Auditorium, 8:30 p.m.

November 4—*H.M.S. Pinafore*, by the Stratford Festival Company; Ticket prices \$2.00, \$3.00, \$3.50, \$4.00, \$4.50 *

Special Concerts

November 11—Harry Belafonte; Ticket prices \$2.00, \$3.00, \$4.00, \$4.50, \$5.00 *

CONVOCATIONS

(Open to the public without charge.)

Northrop Auditorium, 11:30 a.m.

November 5—Hugo Portisch, Editor of the *Vienna Kurier*

November 12—The Laubins, in *Ancient Indian Dances*

ST. PAUL CAMPUS STUDENT CENTER

Sunday, 12:00 noon-11:00 p.m.

Monday through Thursday

7:00 a.m.-11:00 p.m.

Friday and Saturday

7:00 a.m.-12:00 midnight

October 17 through November 6—Cyrus Running Oils, First Floor

October 27 through November 17—Bold Tradition—Mexican Art, Second Floor

November 9 through November 27—Keith Havens Water Colors, First Floor.

MUSEUM OF NATURAL HISTORY SUNDAY PROGRAMS

Museum Auditorium, 3:00 p.m.

November 1—"Grouse Studies by Radio" by Gordon Gullion.

November 8—"Maple Sugar and Wild Rice," color sound film.

November 15—"Good and Bad of Insecticides" by Dr. James W. Wright of Geneva, Switzerland.

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts

Stanislaw Skrowaczewski conducting

Russell Stanger, assistant conductor

Northrop Auditorium, 8:30 p.m.

Tickets \$2.75-\$5.00.

November 6—Leonid Kogan, Violinist

November 13—Charles Treger, Violinist

Sunday Afternoon

Adventures in Music Concerts

Northrop Auditorium, 4:00 p.m.

Tickets \$1.50-\$2.50.

November 1—Henry Mancini

November 15—Modern Jazz Quartet

UNIVERSITY THEATRE PRODUCTIONS

Scott Hall Auditorium Series

November 5-7, 8:00 p.m.; November 10,

3:30 p.m. and 8:00 p.m.; November 11-

14, 8:00 p.m.; November 15, 3:30 p.m.

—*Sing Out Sweet Land* by Walter Kerr;

Ticket prices are \$1.75 for shows on

Sunday through Thursday; \$2.00 on Fri-

day and Saturday.

Classic Series

Sherlin Hall Arena Theatre

November 3-7, 8:00 p.m.—November 8,

3:30 p.m. *Helen* by Euripides; Ticket

prices are \$1.25 for shows on Sunday

through Thursday; \$1.50 on Friday and

Saturday.

UNIVERSITY FILM SOCIETY

Museum of Natural History Auditorium

3:30 and 8:00 p.m.

Tickets \$.75 or \$1.25

November 6—"Pather Panchali" and

"Aparajito," part I and II of the famous

Apu trilogy by Indian director Satyajit

Ray.

November 13—"All Quiet on the Western

Front" (U.S., 1931; directed by Lewis

Milestone) and "Tomorrow Is My Turn"

(France, 1960; starring Charles Azna-

vour).

UNIVERSITY GALLERY EXHIBITIONS

Northrop Auditorium

8:30 a.m.-4:30 p.m.

Monday through Friday

2:00 p.m.-5:00 p.m.

Sunday afternoons of November 8, 22, 29

November 1-November 29—John Rood
Sculpture, Gallery 307

November 1-November 15—Holland: The
New Generation, Gallery 405

November 24-December 20—The Eight,
Gallery 405

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge.)

Northrop Auditorium, 4:00 p.m.

November 8—Duncan McNab, piano re-
cital.

ATHLETIC DEPARTMENT EVENTS

Home Football Games

Memorial Stadium, 1:30 p.m.

November 7—Iowa

November 14—Purdue (Dads' Day) (Sin-
gle tickets \$5.00. Over-the-counter sale
of any unsold tickets begins Monday be-
fore each game at Cooke Hall, at the
Minneapolis Downtown Ticket Office,
and at Field-Schlick in the St. Paul
loop, Har-Mar Mall, and Highland Vil-
lage.)

Cross Country

(Open to the public without charge.)

November 7—Northwest Open Meet, 10:00
a.m., Nokomis Park

November 14—Frosh-Varsity Meet, 10:30
a.m., University Golf Course

SPECIAL LECTURE

(Open to the public without charge.)

November 10—Peter Menin, composer,
11:30 a.m., Scott Hall Auditorium, Music
Hour, Department of Music

* Reservations may be made at 105 Northrop Auditorium.

Tickets for these events are also available at Dayton's and Field-Schlick on Monday of the week prior to performance.

University of Minnesota Calendar of Events

November 16-30, 1964

UNIVERSITY ARTISTS COURSE Masterpiece Series

Northrop Auditorium, 8:30 p.m.

November 17—Norman Luboff Choir;
Ticket prices \$2.00, \$3.00, \$3.50, \$4.00,
\$4.50 *

Special Concerts

November 24—Marian Anderson, contralto
Ticket prices \$2.00, \$2.50, \$3.00, \$3.50,
\$4.00 *

CONVOCATIONS

*(Open to the public without charge.)
Northrop Auditorium, 11:30 a.m.
(unless specified)*

November 19—William Clauson, singer of
folk songs and ballads
November 25—Student Assembly for Foot-
ball Awards, 11:30 a.m., Coffman Union
Main Ballroom

ST. PAUL CAMPUS STUDENT CENTER

November 9-27—Keith Havens Water Col-
ors, First Floor
November 25—Turkey Carving Demonstra-
tion, Rouser Room, 12:00 noon.

MUSEUM OF NATURAL HISTORY SUNDAY PROGRAMS

Museum Auditorium, 3:00 p.m.

November 22—"Birds of Bering Straits,"
movie, W. J. Breckenridge.
November 29—"Hawk Migration at Du-
luth" by Dr. Pershing Hofslund, Univer-
sity of Minnesota, Duluth.

UNIVERSITY THEATRE PRODUCTIONS

Playwright's Premier Series

Shelvin Hall Arena Theatre

November 19-21, 8:00 p.m.; November 24-
28, 8:00 p.m.; November 29, 3:30 p.m.
—*Shelter Area* by Nick Boretz; Ticket
prices are \$1.25 for shows on Sunday
through Thursday; \$1.50 on Friday and
Saturday.

Scott Hall Auditorium Series

November 26-28, 8:00 p.m.—*Six Characters
in Search of an Author* by Pirandello;
Ticket prices are \$1.75 for shows on
Sunday through Thursday; \$2.00 on
Friday and Saturday.

SPECIAL LECTURE

November 26—"Americans on Mount Ev-
erest," illustrated lecture by Barry C.
Bishop, 6:00 p.m. and 8:30 p.m., North-
rop Auditorium. Admission by free
ticket, obtained by writing to Depart-
ment of Geography, 414 Social Science
Building, West Bank

UNIVERSITY FILM SOCIETY

*Museum of Natural History Auditorium
3:30 and 8:00 p.m.
Tickets \$.75 or \$1.25*

November 20—"The Idiot" (Japan, 1951;
directed by Akira Kurosawa), an adap-
tation of the Dostoevski novel; and "The
Hutterites" (Canada Film Board).
November 27—"How To Be Loved" (Po-
lish, 1961; directed by Wojciech Has)
and "Merry-Go-Round" (Hungarian,
1956; directed by Zoltan Fabri).

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts

*Stanislaw Skrowaczewski conducting
Russell Stanger, assistant conductor
Northrop Auditorium, 8:30 p.m.*

November 20—Byron Janis, Pianist. Tick-
ets \$2.75-\$5.00.
November 27—Emil Gilels, Pianist. Tick-
ets \$3.00-\$6.00.

MUSIC DEPARTMENT PROGRAMS

*(Open to the public without charge.)
Northrop Auditorium, 4:00 p.m.*

November 16—Football Marching Band
concert.

ATHLETIC DEPARTMENT EVENTS

Basketball

*(Open to the public without charge.)
Williams Arena*

November 24—Alumni Intra-Squad, 7:00
p.m.

November 24—Varsity Intra-Squad Pre-
view, 8:15 p.m.

Hockey

*(Open to the public without charge.)
(unless specified)
Williams Arena, 8:00 p.m.*

November 17—Varsity Intra-Squad Pre-
view

November 20—Alumni
November 27 and 28—Colorado College
(Single tickets \$1.75. Single game ticket
sale begins Monday before each game at
Cooke Hall, at the Minneapolis Down-
town Ticket Office, and at Field-Schlick
in the St. Paul loop, Har-Mar Mall, and
Highland Village.)

Wrestling

*(Open to the public without charge.)
Williams Arena, 12:00 noon*
November 28—Invitational Open Meet

* Reservations may be made at 105 Northrop Auditorium.

Tickets for these events are also available at Dayton's and Field-Schlick on Monday of the week prior to performance.

THE MINNESOTAN
University of Minnesota
Department of University Relations
217 Morrill Hall
Minneapolis, Minnesota 55455

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at Minneapolis, Minnesota

The University Magazine - December 31, 1964

MINNESOTA NEEDS



The President's Page



The University of Minnesota depends heavily upon state financial resources for its current programs and future growth. Therefore, it needs enthusiastic financial and moral support from all Minnesotans. We Minnesotans who are also staff members are in a particularly good position to see what needs must be met and what vast problems may arise if they are not met. I hope that this insight and special interest will enhance your understanding and appreciation of the enclosed statement and will secure your valuable support for the programs it describes.

That a vigorous university is essential to the well-being of our State has been recognized by Minnesotans for many years. Our past record of support is evidence of this recognition. The problems and the opportunities facing us in the next decade are greater than any we have faced in the past. We are hopeful that we will receive the necessary support so that we can surmount the problems and fully advance our opportunities.

Meredith Wilson

EDITOR'S NOTE

So that all staff members may know and understand the University's needs and legislative request for the biennium 1965-67, the entire statement of these needs is printed in the December issue of the staff magazine. The regular publication date was delayed so this important statement could be included.

Others who will receive a copy of this statement include members of the State Legislature, parents of University students, and winners of Outstanding Achievement Awards and Alumni Service Awards. University of Minnesota alumni will also receive this Statement of Needs in a special edition of their magazine.

The post office has some strange rules. One rule prevents the University from mailing its State-

ment of Needs as an insert to *The Minnesotan*. It became necessary, therefore, to create another "publication" for this one occasion, and it is this new "publication" which accompanies the Statement of Needs.

The Calendar of Events, usually included in the staff magazine, was sent as a separate mailing earlier in December. In its place you will find a list of members of the 1965 Legislature and four Legislative District maps.

ON THE COVER . . .

is the familiar Minneapolis Campus Mall, crowded with University students hurrying to and from classes. This scene shows better than any other why the University of Minnesota must prepare a Statement of Needs every two years. Photo by Alan Ominsky.

THE NEEDS

of the

UNIVERSITY OF MINNESOTA

THE LEGISLATIVE REQUEST 1965-1967



Founded in the faith that men are ennobled by understanding
Dedicated to the advancement of learning and the search for truth
Devoted to the instruction of youth and the welfare of the State

The University of Minnesota is a great university, built by Minnesotans to fulfill the needs of Minnesotans. It is great in size. And it is great in stature — with a reputation which proves that quality and quantity are compatible. Its standards are set by Minnesotans — and Minnesotans have never lived easily with mediocrity. It is an educational institution, a research center, and a public servant. In these three inseparable university functions it serves its State and its nation with distinction. As Minnesota citizens we would have it no other way.



O. MEREDITH WILSON
President

Board of Regents: CHARLES W. MAYO, M.D., *Chairman of the Board*, Rochester; MARJORIE J. HOWARD (MRS. C. E.), *Vice Chairman of the Board*, Excelsior; DANIEL C. GAINNEY, Owatonna; BJARNE E. GROTTUM, Jackson; GERALD W. HEANEY, Duluth; ROBERT E. HESS, St. Paul; FRED J. HUGHES, St. CLOUD; A. I. JOHNSON, Benson; LESTER A. MALKERSON, Minneapolis; WILLIAM K. MONTAGUE, Duluth; OTTO A. SILHA, Minneapolis; HERMAN F. SKYBERG, Fisher.

**To: THE CITIZENS OF MINNESOTA
AND THEIR ELECTED REPRESENTATIVES AND SENATORS IN
THE STATE LEGISLATURE**

As Regents of the University of Minnesota, we represent you in the conduct of our University's affairs. We are elected by the two houses of the State Legislature sitting in joint session, and under the Constitution of our State, must establish policies for the administration of the University. As your representatives, we must tell you that for the first time in our University's history, the Board of Regents is submitting to the Legislature a request which assumes controlled growth of total enrollment.

In this Statement of Needs you will find a summary accounting of how much money will be needed by the University during the two years of the 1965-1967 biennium. The money we are requesting will be used for general operations and maintenance, for buildings and land, and for certain special programs, including University Hospitals.

Ever since World War II, we in the United States have had to cope with the problems and the inherent responsibilities of an exploding population. Elementary and high schools were built by the thousands. Now our facilities for higher education must be expanded at an accelerated rate.

This booklet reminds us of the numbers of young Minnesotans who reach eighteen years of age -- generally the age for beginning college -- each year. These young men and women are our own children; we know they are not problems to us or to our State or to our future; we know they are our opportunities. They are, in themselves, a justification for this request to the Minnesota State Legislature.

Further justification can be found, if needed, in the kind of world we have created. It is a world of challenging frontiers. We are exploring in space, developing mechanical replacements for hearts and kidneys and other parts of the human body. We are faced with the problem of making automation our tool rather than our master. All of us are caught up in this exciting new-era pioneering. We are a part of it.



Daniel C. Gainney



Bjarne E. Grottum



Gerald W. Heaney



Robert E. Hess



Marjorie J. Howard

And while we are meeting the new challenges, we are required to go on trying to solve the everyday problems. Our communities need more nurses, teachers, lawyers, doctors, engineers -- the list is endless. Business, agriculture, industry, and government need more physicists, executives, chemists, mathematicians, architects -- again the list is endless.

Our University was founded in the belief that education is the basic instrument required for accepting all of the challenges -- and the opportunities -- of the world in which we live. That theory was valid in 1851, another pioneer era. And it is valid today.

Our University is as deeply committed to the future as it is to the present. Our aspirations for it, as citizens of Minnesota, are of prime concern to everyone identified with it -- students and their parents, alumni, teachers, scientists, and all other staff members.

Our responsibilities to the University -- yours and ours -- become increasingly clear. Our investment in the present is a measure of our faith in the future.

In this spirit we ask for your support.

Fred J. Hughes *Margaret Howard* *Lester A. Malkerson*
W.K. Montague *A.I. Johnson* *Robert S. Hass*
Byron E. Cottrell *Charles W. Mayo* *Otto A. Silha*
Herman F. Skyberg *Gerald W. Heaney* *David G. Finney*



Fred J. Hughes



A. I. Johnson



Lester A. Malkerson



Dr. Charles W. Mayo



William K. Montague



Otto A. Silha



Herman F. Skyberg

IT TAKES STATE MONEY TO MAINTAIN AND NOURISH A GREAT STATE UNIVERSITY

The University of Minnesota is a State University. It could not exist without State money. In all the facets of its operation as an educational institution, as a research center, and as a public servant it is dependent upon money appropriated by the State Legislature.

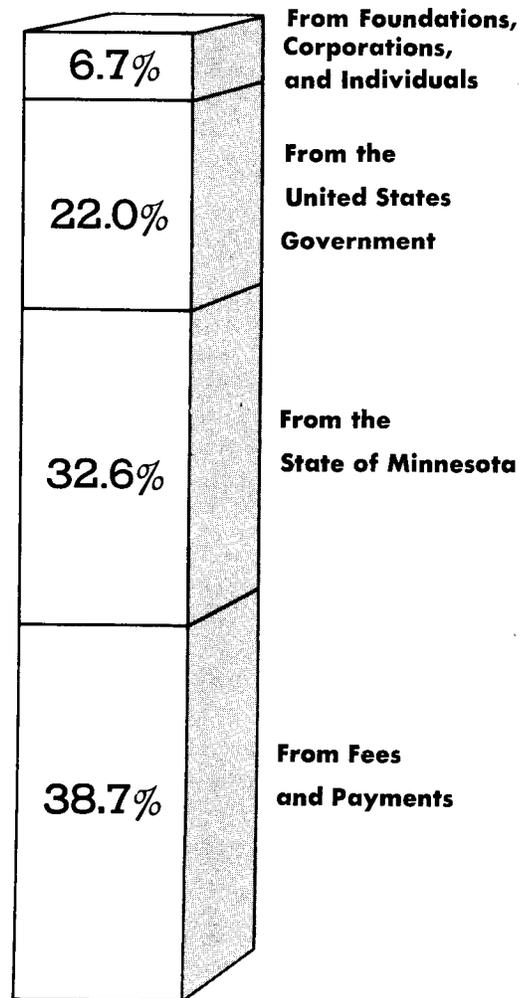
State money meets the payroll for the teachers who educate our sons and daughters; for clerks, secretaries, bookkeepers, librarians, and all of the other staff members required by a great university in serving its threefold purpose.

State money pays for the innumerable necessities of our University's physical operation and maintenance — for supplies and equipment, for heat and electricity, for repairs and all kinds of housekeeping chores.

State money is inescapably the magnet that attracts money from other sources to our University. And money from other sources — from gifts, from grants, from endowments — is related to the strength of the magnet, the State money appropriated to the University by the Minnesota State Legislature.

State money. Our University cannot exist without it. The income bar graph on this page will show you why.

**Sources of
University Income
1963-1964**



IT TAKES STATE MONEY TO SUPPORT THE THREE INSEPARABLE UNIVERSITY FUNCTIONS

TEACHING

RESEARCH

SERVICE

1964-1965 ENROLLMENT

38,403 daytime
collegiate
students

3,291 more than last
year

15,391 evening class
students

1,440 sub-collegiate
students*

1964 SUMMER SESSION ENROLLMENT

12,998 1st session

9,010 2nd session

LAST YEAR, 1963-1964

30,786 in continuation
and short
courses

11,565 in correspond-
ence courses

TEACHING The principal business of any university is teaching, and teaching-related expenses exceed all other expense items in our University's budget. State money is used primarily to support the teaching function.

The University of Minnesota is an internationally renowned educational institution with a primary obligation to the citizens of Minnesota. In meeting that obligation it provides — through a variety of means available only to a university — some form of instruction or service to almost every family in every county in our State. The figures in the margin represent only a fraction of the Minnesotans who receive, each year, some type of instruction from the University.

We Minnesotans are above the average in our desire for education. Our University makes every attempt to meet our educational needs, but its ability to do so is determined, now and in the future, by the strength of Legislative appropriations.

* Sub-collegiate schools: the Schools of Agriculture in Crookston, Waseca, and Grand Rapids; the Laboratory School on the Duluth campus; the College of Education's High School, Nursery, Kindergarten and Elementary Schools on the Minneapolis campus.

RESEARCH Every Minnesotan benefits, directly or indirectly, from University of Minnesota research.

University research helps attract the outstanding scholars and scientists who teach our sons and daughters — and it serves as an indispensable teaching tool.

University research helps Minnesota farmers, Minnesota industry, Minnesota business, Minnesota doctors, Minnesota homemakers. In company with University teaching and service, it works toward the full employment of all of Minnesota's natural resources — land, water, forest, air, minerals, and people.

Our University is one of the ten major research universities in the United States.* As such it is a major recipient of federal government grants and contracts. And as such it attracts gifts and grants from large foundations.

Gifts and grants and contracts from outside sources are an economic stimulus to our State. They mean fuller employment, bigger payrolls, increased sales and purchases, and a higher standard of living for all of us. They help, too, with the support of our University's instructional programs. But we all must remember that these outside monies are *earned*, not given. They are awarded for accomplishment, and they are dependent upon continued achievement.

It is *State* money that must give the basic support that makes the University's research achievements possible. Those achievements are notable — and many. They encompass significant pioneer and contributory research in almost every field. We wish it were possible to list them all.

* The ten universities, in alphabetical order: California, Chicago, Columbia, Cornell, Harvard, Illinois, Massachusetts Institute of Technology, Michigan, Minnesota, Stanford. *Industrial Research*, April, 1964, *Trends in University Research*.

Open-heart surgery

**New varieties of
fruits and crops**

The key to synthetic rubber

Taconite process

**Scientific studies at
Camp Minnesota in
the Antarctic**

Brucellosis

Language laboratories

**Instruments and cameras
for space exploration**

Organ transplants

Teaching techniques

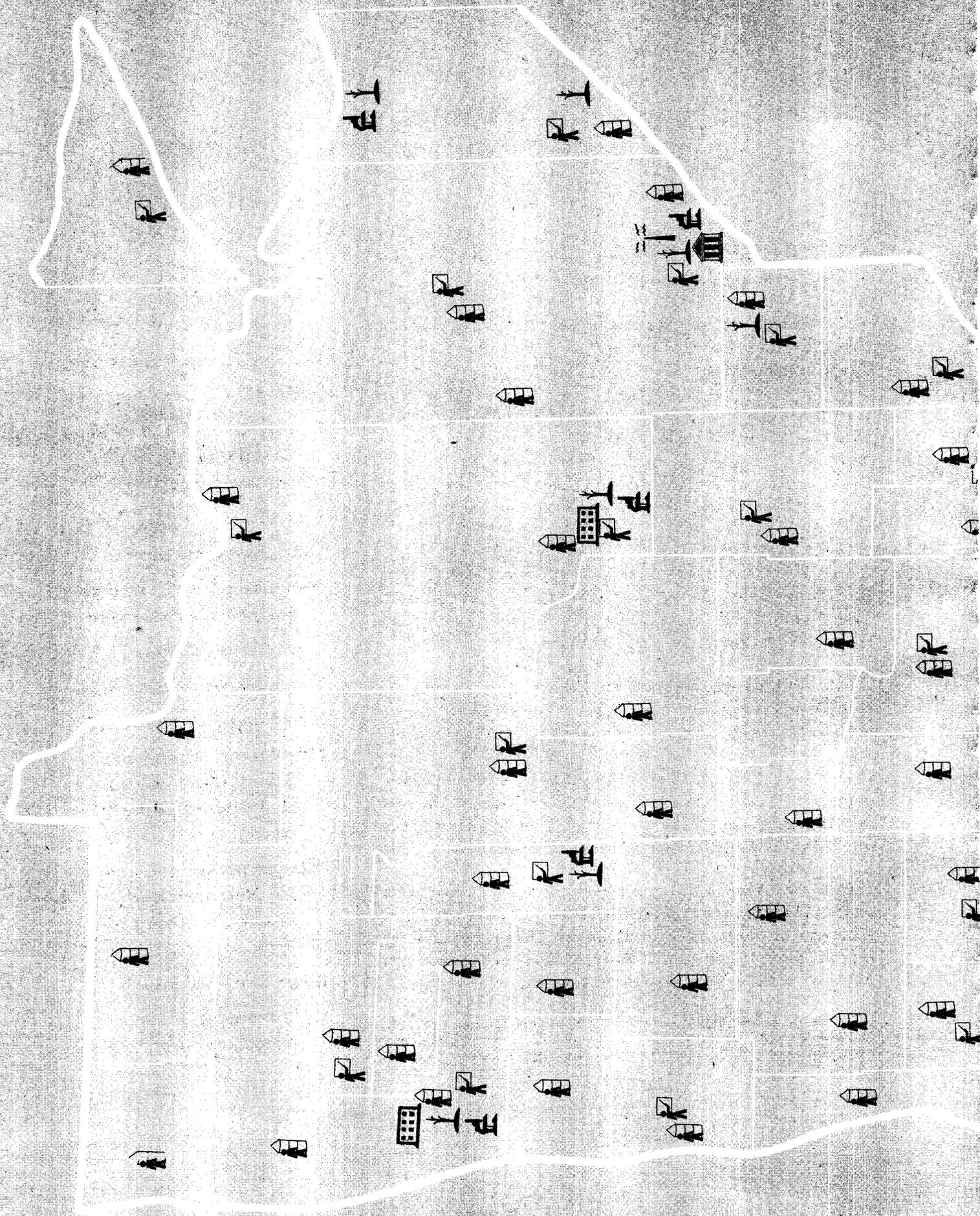
Isolation of uranium 235

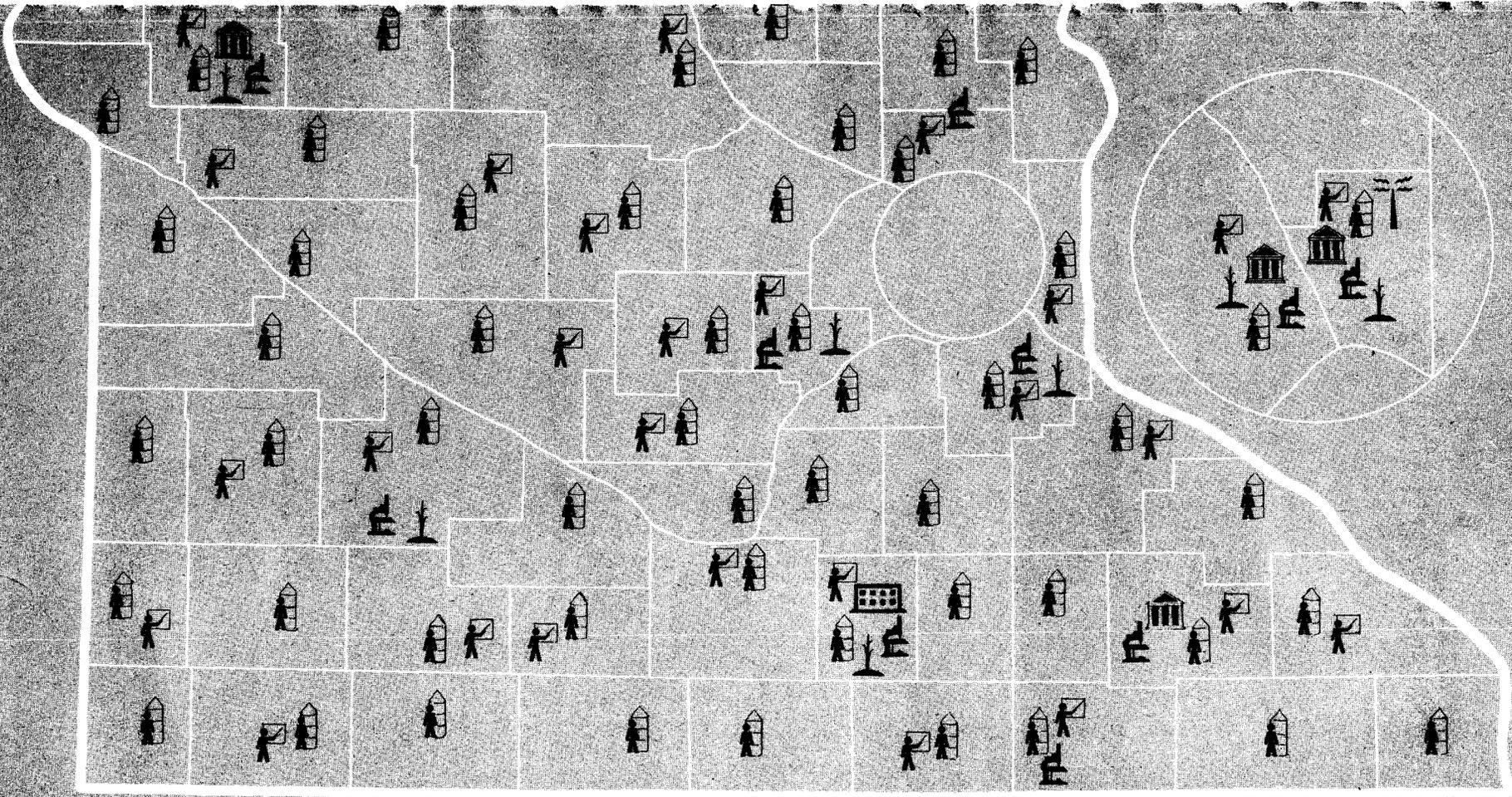
**Minnemath (Minnesota
School Mathematics
and Science Center)
and**

**Minnemast (Minnesota
Mathematics and
Science Teaching
Project)**

Cosmic ray studies

**Heat transfer —
aerodynamics**





THE UNIVERSITY IS STATE-WIDE

TEACHING RESEARCH SERVICE



**Centers of
Resident Collegiate
Instruction**



Research



**General Extension
and Short Courses**



**Educational Radio
and Television**



Schools of Agriculture



Experiment Stations



**Agricultural Extension Services
(including County
Agricultural Agents,
Home Agents, 4-H Club Agents)**

Diagnosis and Treatment of Disease

University Hospitals
Cancer Detection Center
Dental Clinic
Veterinary Diagnostic Laboratory

Municipal Reference Bureau

Services to municipal government, students, interested citizens

Information
Research
Training

The Dight Institute of Human Genetics

Identification of Plants, Insects, Minerals

Short Courses and Continuing Education

For
Doctors
Farmers
Dentists
Cheesemakers
Social Workers
Many others

Industrial Relations Center

Educational Surveys

Concerts and Lectures
In Northrop Auditorium
On all campuses
At Minnesota high schools

Educational Radio and Television Programs

SERVICE Our University's record as a public servant was established long ago. As a university it could offer then — as it does now — a broad range of services that can best be provided by a university.

University public services are used in every corner of our State, as the map on the preceding pages indicates. They are available to every individual Minnesotan, to Minnesota organizations, to Minnesota professions, to Minnesota business, education, agriculture, and industry.

And they are dependent upon State money for support.

The value of what is given in return for that support is evident in examples of University public service:

Agricultural Extension Service. A state-wide educational arm of the University available to all Minnesotans, whether rural or urban. Provides a wide range of educational programs throughout Minnesota. Covers a variety of subjects on all phases of Community Development, Agricultural Production, Supply and Marketing, 4-H Work, Home Economics, Economic Policy, and many others. Publications on many subjects available through County and State Extension offices.

Minnesota Geological Survey. Important service available to Minnesota industry. Instrumental in the discovery of additional ore deposits in Minnesota. Serves as consultant to Minnesota's mining industry. Adviser and consultant on the uses of Minnesota minerals and clay. Assists in locating water supplies and industrial sites for industry.

College of Education Services. Bureau of Recommendations, a placement and personnel service for University graduates and for schools, colleges, and universities in need of teachers. Conferences and workshops for professional workers in education. Participation in institutes and short courses offered by the Center for Continuation Study of the General Extension Division to elementary and secondary school teachers, principals, and guidance workers.

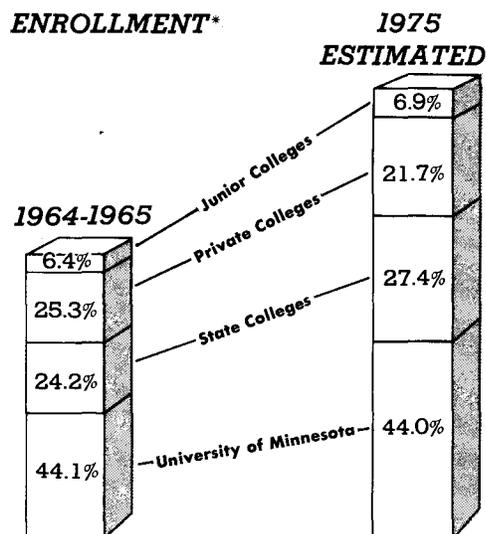
TEACHING RESEARCH SERVICE

TODAY AND TOMORROW

For ourselves and our children we Minnesotans have demanded all three of these educational functions from our University. If we want them we must be willing to pay for them. That we do want them — and will continue to do so — is obvious in the number and the kinds of requests for help the University receives, and in present and future enrollment figures. These figures indicate that the University of Minnesota must always be prepared to meet a large share of Minnesota's demands for higher education.

For the next ten years there will be marked increases in Minnesota's college-level enrollment. The increases are a result of a natural phenomenon — Minnesota's eighteen-year-olds. Since shortly after World War II, we have been talking about the tidal waves of college students that would result from the post-war baby boom. The first large wave of Minnesota's post-war babies — now eighteen years of age and ready for college — is upon us. Succeeding waves will be even larger. The astonishing statistics on Minnesota's eighteen-year-olds illustrate the point.**

MINNESOTA COLLEGE-LEVEL ENROLLMENT*



1955	– There were 43,203 eighteen-year-olds living in Minnesota.
1960	– There were 51,369 eighteen-year-olds living in Minnesota.
1965	– There will be 71,810 eighteen-year-olds living in Minnesota. Born in 1947, these youngsters represent the first large wave of post-war babies.
1970	– There will be 75,119 eighteen-year-olds living in Minnesota.
1975	– There will be 81,728 eighteen-year-olds living in Minnesota.

We Minnesotans can no longer close our eyes to the higher educational demands of the post-war babies, nor to the fact that many of them will be applying for admission to the University of Minnesota. Although we must do everything possible to meet the needs represented by present and future college enrollment statistics, the University cannot accept enrollments that exceed the limit of its physical capacity. Thus, the 1965-1967 Legislative request is based on controlled growth of total enrollment.

* The figures in these tables were released by the institutions involved, and represent only daytime collegiate enrollment.

** Material from Minnesota School Census data, as reported by S. W. Harvey in *College Age Population Projections*, 1964 revision, State College Board.

IT TAKES STATE MONEY TO RECRUIT AND RETAIN AN OUTSTANDING FACULTY

AVERAGE CASH SALARIES PLUS FRINGE BENEFITS

Where does Minnesota stand in comparison with eleven other leading universities?

1963-1964	
NINE-MONTH STAFF*	TWELVE-MONTH STAFF**
Professors 8th out of 12	8th out of 11
Associate Professors 11th out of 12	8th out of 11
Assistant Professors 12th out of 12	7th out of 11
Instructors 12th out of 12	6th out of 11

1964-1965	
NINE-MONTH STAFF*	TWELVE-MONTH STAFF**
Professors 10th out of 12	10th out of 11
Associate Professors 11th out of 12	10th out of 11
Assistant Professors 12th out of 12	7th out of 11
Instructors 12th out of 12	8th out of 11

The hallmark of a truly great university is not the *number* of students enrolled. It is the *quality* of the education those students receive; and quality in education is a matter of teachers and their abilities and their standards.

The University of Minnesota earned its reputation as a great educational institution by combining quality and quantity, but quality is the real and lasting strength of our University.

The University must recruit and retain superior teachers. It must be prepared to compete with other schools for the services of those teachers. Salary is a decisive factor in this competition. We must be willing to bear the cost if our University is to continue to give young Minnesotans the advantage in *their* competition for a place in the world.

The comparison charts on this page speak for themselves about the competition our University of Minnesota must face in salary schedules and fringe benefits. The eleven other leading universities included in the comparison are: California, Chicago, Illinois, Indiana, Iowa, Michigan, Michigan State, Northwestern, Ohio State, Purdue, and Wisconsin. And they certainly are not the only schools with which Minnesota must compete for superior teachers.

In 1963, the University asked the State Legislature for an 8 per cent increase for improvement in faculty salaries and fringe benefits for each of the two years of the 1963-1965 biennium.

The Legislature granted a 5 per cent increase for each of the two years.

As Regents of the University, we are again asking the Legislature for an 8 per cent increase for improvement in faculty salaries and fringe benefits for each of the two years of the 1965-1967 biennium. The increases requested are minimal, and the comparison tables indicate that they are mandatory if we are to reverse the downward trend in the University's standing.

* At the University of Minnesota 67% of the faculty members are on a nine-month basis.

** One of the twelve universities does not identify twelve-month staff.

STUDENT-FACULTY RATIOS

Teachers and their standards are one measurement of any school's educational quality. A second measurement, equally important, is the student-faculty ratio — how many students to how many teachers. There is a distinct relationship between that ratio and effective teaching.

Staffing requirements at the university level differ from those of other state and private colleges. At the university level, there are *three* teaching jobs to be done — three identifiable student groups to teach. These are (1) undergraduate and non-professional, (2) technical and professional, and (3) medicine, dentistry, veterinary medicine and graduate. The courses taken by the three groups vary in difficulty and degree of intensity. Consequently, the three groups differ greatly in their demands on the time and resources of faculty members. Undergraduate and non-professional instruction demands less faculty time than instruction in the technical and professional schools. In graduate education and in highly specialized fields such as medicine or dentistry, individualized instruction is absolutely essential. The instructional needs of each group should be reflected in its student-faculty ratio.

The ratios in the margin represent the generally accepted standards for effective university teaching. They are goals still to be reached by our University of Minnesota. They are used to determine how many additional teachers the University will need to meet the enrollment demands of the next two years.

STUDENT-FACULTY RATIOS FOR EFFECTIVE TEACHING

Undergraduate and Non-professional

19
STUDENTS / **1** TEACHER

**College of Liberal Arts
General College
College of Education
University College
University of Minnesota,
Duluth**

Technical and Professional

12.7
STUDENTS / **1** TEACHER

**College of Agriculture
School of Business
Administration
Institute of Technology
School of Law
College of Pharmacy
College of Medical Sciences
(except Medicine)**

Medicine, Dentistry, Veterinary Medicine, Graduate School

6.3
STUDENTS / **1** TEACHER

**Medicine in the College of
Medical Sciences
School of Dentistry
College of Veterinary
Medicine
Graduate School**

EFFECTIVE TEACHING REQUIRES ADDITIONAL FACULTY MEMBERS . . .

1965-1966

Estimated enrollment increase
4,500

374 new teachers needed

1966-1967

Estimated enrollment increase
2,350

211 new teachers needed

In planning the size of the University's teaching staff there are three major considerations: (1) the current level of appropriations based on previous enrollment estimates, (2) estimated enrollment by colleges within the University for the 1965-1967 biennium, taking current physical limitations into account, (3) the generally accepted student-faculty ratio.

To determine the additional staff needs for 1965-1966 and 1966-1967, the estimated enrollment increases for these years were first grouped into the three instructional categories mentioned on the previous page. Then the number in each category was divided by the required student-faculty ratio. The Legislative request for additional staff members is the result.

ADDITIONAL CIVIL SERVICE STAFF . . .

1965-1966

178 additional
Civil Service staff needed

1966-1967

93 additional
Civil Service staff needed

The need for Civil Service staff is related to enrollment increases. When teachers are added to the faculty, additional Civil Service people are required. They do the supporting work related directly to the teaching program — the functions that can be done more economically and more effectively by staff members without teaching responsibilities. Librarians, counselors, admissions clerks, laboratory assistants, and many other non-teaching staff members are essential to the teaching program. These needs, too, are directly related to the number of new teachers and new students.

TEACHING SUPPLIES AND EQUIPMENT

\$83.63 per student

Instructional supplies and equipment are essential to the education of our University's students. Microscopes, calculators, and computers, as well as soap, examination paper, library books, office supplies, and postage are teaching-related necessities. They are the basis for calculating the University's per student cost. Over the last three years that cost has averaged \$83.63 per student annually.

Enrollment increases in the two years of this biennium will mean additional expenses, more supplies, more equipment. To meet these additional costs, we, as Regents, are asking the Legislature for additional funds for each year of the biennium. Our request is based on the estimated increase in new students multiplied by the yearly per student cost of \$83.63. The amounts are included in the summary of needs for Operations and Maintenance.

INDEX TO SUMMARY OF UNIVERSITY NEEDS

	<u>Legislative Appropriations 1964-1965</u>	<u>Legislative Request 1965-1966</u>	<u>Legislative Request 1966-1967</u>
Pages 16-17 – GENERAL OPERATIONS AND MAINTENANCE	\$33,364,149	\$40,830,529	\$46,300,762
Page 18 – UNIVERSITY OF MINNE- SOTA, MORRIS	490,266	746,901	812,967
Page 19 – SPECIAL STATE APPRO- PRIATIONS	2,651,254	3,698,858	4,075,743
Page 20 – CROOKSTON (included in Special State Approp- riations)			
Page 21 – UNIVERSITY HOSPITALS*	4,192,671	4,859,045	5,221,910
TOTAL	<u>\$40,498,340</u>	<u>\$50,135,333</u>	<u>\$56,411,382</u>

Pages 22-23 – LAND AND BUILDINGS	<u>Legislative Request – 1965-1967</u>
Minneapolis Campus	\$29,440,433
St. Paul Campus	8,895,750
Duluth Campus	6,202,000
Morris Campus	2,137,600
Schools of Agriculture and Experiment Sta- tions	1,884,400
TOTAL	<u>\$48,560,183</u>

*Excludes amounts available from counties.

IT TAKES STATE MONEY TO OPERATE AND MAINTAIN A STATE UNIVERSITY

Financially speaking, the General Operations and Maintenance appropriation is the University of Minnesota. It is used to meet the cost of the fundamental work of the University. Without it our University could not exist.

Among the major expenses to be met are these:

- The instructional costs of all colleges and departments on the Minneapolis-St. Paul campuses.
- The instructional costs of University of Minnesota, Duluth. Instructional costs for the three campuses account for the largest single share of current operations expenses.
- The general and administrative costs of the University.
- The operation and maintenance of buildings and grounds.
- Part of the cost of the Summer Sessions and the General Extension Division (primarily self-supporting from tuition).
- The cost of the Library.
- The operation of the sub-collegiate schools and the Experiment Stations.

EXPLANATION OF TOTAL OPERATIONS AND MAINTENANCE NEEDS—1965-1967

	<u>1965-1966</u>	<u>1966-1967</u>
For total Operations and Maintenance the University will need	\$62,854,967	\$69,463,342
But —		
Income from tuition and fees, general income and departmental income will be	<u>\$22,024,438</u>	<u>\$23,162,580</u>
Therefore —		
We are asking the Legislature for	<u><u>\$40,830,529</u></u>	<u><u>\$46,300,762</u></u>

GENERAL OPERATIONS AND MAINTENANCE

SUMMARY OF INCREASES

	<u>Increase Each Year Over Previous Year</u>	
	<u>1965-1966</u>	<u>1966-1967</u>
ACADEMIC STAFF		
Salary improvement	\$ 2,028,885	\$ 2,517,084
Additional staff	4,073,608	2,477,288
 CIVIL SERVICE SALARIES		
Salary adjustments		
Merit increases	425,943	496,877
Proposed State pay plan	709,905	
Additional staff	1,013,656	549,670
 MECHANICS PAYROLL		
Salary adjustments	86,072	90,547
 OTHER THAN SALARIES		
Supplies, expense and equipment	376,335	196,531
Physical plant — operating costs of new buildings	235,358	147,995
OASDI-SERA increases	330,654	151,567
Equipment and laboratory matching funds	175,000	
Library needs	350,000	
Mines Tax Commission increase	9,112	116
Matching funds — NDEA loan funds	121,888	
Closed-circuit television	260,000	(-260,000) ²
Total Increases	<u>\$10,196,416</u>	<u>\$ 6,367,675</u>
LESS INCREASE IN ESTIMATED INCOME ¹	2,730,036	897,442
NET INCREASE IN REQUEST	\$ 7,466,380	\$ 5,470,233

¹Excluding Summer Session and General Extension Division increases

²Decrease due to a non-recurring request

MORRIS

1960 STUDENT BODY

238 freshmen

1963-1964

522 students

1964 FALL ENROLLMENT

879 students

68% increase since
1963 Legislative session

27% increase over last year

Because the University's newest college — the University of Minnesota, Morris — has relatively unique needs in developing a collegiate program, a separate University of Minnesota, Morris, request is being presented to the Legislature.

The collegiate program at Morris was inaugurated in 1960 — just four years ago. The campus enrolled all four classes — freshman through senior — for the first time in 1963-1964, and the first senior class was graduated last spring. The enrollment statistics are evidence of steady and gratifying growth.

The campus at Morris previously housed the University's West Central School of Agriculture with a maximum enrollment of 455. Since the inauguration of the collegiate program, the task of fitting the physical plant to the needs of college students has been a continuing problem. The accommodation of 879 students in the fall of 1964 required numerous temporary conversions of space. Maximum utilization of the physical plant is now being made.

There is an urgent need for higher education in western Minnesota. The University of Minnesota, Morris, offers expanding educational opportunities to young people drawn from 59, or two-thirds, of Minnesota's counties. To meet the demands of an increasingly large student body and faculty, a widening curriculum, and increased services, the University of Minnesota, Morris, makes the following requests for the 1965-1967 biennium.

SUMMARY OF NEEDS

	<u>1964-1965</u>	<u>1965-1966</u>	<u>1966-1967</u>
TOTAL BUDGET	\$756,949	\$1,064,712	\$1,167,493
SOURCE OF FUNDS			
Transferred from Morris School of Agriculture budget	\$ 72,876	\$ 72,876	\$ 72,876
Estimated tuition and fees	193,807	244,935	281,650
Legislative request	490,266	746,901	812,967
TOTAL	<u>\$756,949</u>	<u>\$1,064,712</u>	<u>\$1,167,493</u>

SPECIAL STATE APPROPRIATIONS

Fund Name	Legislative Appropriation 1964-1965	Legislative Request 1965-1966	Legislative Request 1966-1967
Agricultural Extension Service	\$ 833,000	\$ 1,067,778	\$ 1,258,297
Experiments in the Beneficiation of Manganiferous and Low Grade Ores	80,000	138,797	142,391
General Agricultural Research	646,000	811,136	841,525
Medical and Cancer Research	95,000	120,000	120,000
Veterinary Diagnostic Laboratory	85,000	112,024	129,954
Institute of Child Welfare	39,625	56,987	60,315
General Research	125,000	160,000	160,000
Liaison Committee		17,000	17,000
Minnesota Institute of Research	37,000	50,000	50,000
Livestock Sanitary Board, Testing of Poultry* .	(44,000)	(51,000)	(51,000)
Agricultural Research, Rosemount	122,542	162,061	165,731
Hybrid Corn Maturity Tests*	(18,000)	(18,000)	(18,000)
Tuition and Transportation Aid for Students of Agricultural Schools	45,000	41,000	43,000
Potato Processing Research Laboratory	(19,500)**	21,882	22,636
Business and Economic Research	45,000	55,000	59,000
Business and Economic Research, Duluth		10,000	12,000
Soybean Research	54,000	115,392	118,637
Geological Survey	60,000	125,448	129,283
Training Project in Delinquency Control	19,500	21,820	23,361
Psychiatric Research Fund	45,000	98,494	116,082
Training of Laboratory Aides	12,764	14,978	15,617
Special Education Training and Research Program	47,201	50,564	53,992
Beneficiation of Industrial Minerals and Non-ferrous Deposits	50,000	50,000	50,000
Industrial Relations Education Program	45,000	91,958	100,789
Experiments in the Beneficiation of Mangan- iferous and Low Grade Ores and for Experiments in the Direct Process Beneficia- tion of Ores of the Cuyuna Range	117,686	108,754	112,754
Maintenance of the Southwest Agricultural Experiment Station, Lamberton	46,936	78,402	79,629
Agricultural and Technical Institute, Crookston		81,050	193,750
Special Assessments, Minneapolis		16,597	
Special Assessments, Duluth		10,922	
Special Assessments, Waseca		260	
Special Assessments, St. Paul		10,554	
TOTAL	\$2,651,254	\$ 3,698,858	\$ 4,075,743

*Not included in totals as this is a transfer of appropriation

**Appropriated 1963-1964

CROOKSTON

In 1957, the Minnesota State Legislature appointed two interim commissions on education. One was to study Minnesota agricultural schools specifically, the other was to concentrate on Minnesota higher education in general. Both commissions asked the University Board of Regents to consider revising the educational programs at the University's secondary-level Schools of Agriculture.

A study committee was appointed. Upon its recommendation the School of Agriculture at Morris was closed, and the University of Minnesota, Morris, was established.

In 1963, the committee proposed that the secondary school program at Crookston be terminated as soon as possible. It also proposed that consideration be given to the establishment of a college-level technical institute at Crookston.

At this point the Northwest School Program Planning Committee was appointed. It was assigned to suggest ways in which a technical institute could be implemented at Crookston. It recommends that major emphasis should be placed on two-year technical programs emphasizing agriculture and agri-business. The Committee also recommends that the present secondary-level School of Agriculture should start its four-year termination program in the fall of 1965.

For this special project, the University is making a special request.

UNIVERSITY HOSPITALS

University Hospitals was established in 1909 by the Minnesota State Legislature for the purpose of training students in the many fields of medical care. In the years since then — through outstanding teaching, significant research, and public service — University Hospitals has become one of the world's leading medical centers. There are, at present, 648 full-time and 1,356 part-time faculty members on the staff. They are responsible to the State, through the University, for both teaching of students and care of the patients needed for the training of future doctors and nurses.

Many Minnesota organizations contribute to the financial support of the College of Medical Sciences and University Hospitals. The Minnesota Department of the American Legion has endowed a research professorship in heart disease as a World War II memorial; the Veterans of Foreign Wars built the Veterans of Foreign Wars Cancer Research Center; Masons built the Masonic Memorial Hospital and are now raising more than \$1,000,000 to increase its size; the Variety Club of the Northwest built the Variety Club Heart Hospital, is now working to enlarge it. Each year, too, thousands of individual Minnesotans contribute funds, as memorials or gifts, to the University.

But University Hospitals' needs — like those of the entire University — must be met, in the main, by all Minnesotans. The itemized requests which follow are statements of those needs.

SUMMARY OF NEEDS

	Legislative Appropriation 1964-1965	Legislative Request 1965-1966	Legislative Request 1966-1967
University of Minnesota Hospitals			
From the State	\$ 2,406,539	\$ 2,619,555	\$ 2,838,276
From the Counties	2,406,539	2,619,555	2,838,276
Total	\$ 4,813,078	\$ 5,239,110	\$ 5,676,552
Psychopathic Hospital	783,387	902,921	960,870
Child Psychiatric Hospital	303,779	330,389	348,524
Rehabilitation Center	628,249	889,675	950,687
Multiple Sclerosis Clinic	70,717	116,505	123,553
Total	\$ 6,599,210	\$ 7,478,600	\$ 8,060,186
Summary by Source			
From the State	\$ 4,192,671	\$ 4,859,045	\$ 5,221,910
From the Counties	2,406,539	2,619,555	2,838,276
Total	\$ 6,599,210	\$ 7,478,600	\$ 8,060,186

LAND AND BUILDINGS

At the beginning of this academic year, 38,403 students were enrolled on the Minneapolis, St. Paul, Duluth, and Morris campuses and at the Mayo Graduate School of Medicine in Rochester. They make up some 44 per cent of all the college students in Minnesota — and they number 3,291 more than were at the University last year.

Campuses are crowded. Classrooms and laboratories are occupied to near capacity. Some classes begin at 7 a.m. and some end at 10 p.m. In some courses — where academically defensible and not in opposition to the University's belief that quality must come before all else in education — a single lecture class may number from two to three thousand students. On any single day on the Minneapolis campus, some nine thousand students may be attending classes by closed-circuit television. Even so, on the Minneapolis campus at the present time, more than 2000 class hours are attended by fewer than 20 students.

Our University is large. And it's going to get larger. Preparations are now being made for an estimated 42,000 students in the fall of 1965. The University should be preparing for even more, but space is limited and cannot be expanded rapidly enough. By 1975, the University must be ready for a predicted enrollment of 61,000.

More students mean more classrooms, more laboratories, more dormitory, and library space. Building takes time. And since the University's physical plant has not kept pace with our Minnesota desire for learning, there is catching up to be done. The itemized building and land requests which follow reflect the steps which must be taken promptly if the University is to have any hope of meeting the demands of the future.

Summary by Campus

MINNEAPOLIS CAMPUS

New Buildings

Laboratory and classroom building, south of Chemistry	\$ 5,440,000
Classroom buildings, West Bank	
South of highway (planning funds provided by 1963 Legislature)	1,983,000
North of highway — large auditorium classrooms	1,670,000
Addition to Zoology Building	1,480,000
West Bank Library	
Completion of the superstructure and finishing of the 2nd floor	3,015,000
Finishing of the 3rd and 4th floors and basement and sub-basement spaces	2,027,000

Classrooms and laboratory building for Communications, Performing and Fine Arts, closed-circuit TV teaching, planning funds for entire building, construction funds for Phase I	\$ 3,619,000
Humanities Division office building	2,750,000
Purchase and remodeling of General Outdoor Advertising Building, West Bank	360,000
Education laboratory and office building	2,000,000
Addition to Museum of Natural History (to match gifts)	140,000
Planning funds for Vincent-Murphy addition (Mathematics)	40,000
Preliminary planning for outpatient facilities for Medicine and Dentistry	75,000

Rehabilitation and Remodeling

Jackson Hall, Phase IV and roofhouse addition ..	350,000
Chemistry Building, Phase V	200,000
Walter Library, Phase III	313,500
Electrical Engineering Building	173,000
Physics Building	179,000
Rehabilitation of Main Engineering Building	219,000
Chemical Engineering Building (air conditioning of entire building and sealing of windows, south side)	290,225
Ford Hall (air conditioning of entire building and sealing of windows, south side)	346,140
Center for Continuation Study, rehabilitation ...	175,000

Utilities and Service Facilities

Heating tunnel and piping	490,000
Sanitary sewer tunnel	74,000
Rehabilitation and expansion of campus electrical distribution system, Phase I	350,000
Campus street improvements	172,000

Land Needs

West Bank Areas	
For housing — 54,192 sq. ft.	189,672
For Communications building, Phase I (Clay School property) — 54,450 sq. ft.	272,250
For Physical Education — 47,343 sq. ft.	161,626
Undesignated parcels, related to closing of estates, hardship situations, advantageous opportunities, and to forestall invasion in areas of future University use	150,000
Land acquisition on 4th St. S.E. between 17th and 19th Avenues S.E.	397,460
Land for Dental and Medical School expansion (in block opposite Millard Hall)	135,000
Land at East Bridgehead development (Minneapolis Park Board property)	43,560
To consolidate land holdings on Beacon Street	35,000
For Physical Education, south of Stadium ...	125,000

Sub-Total \$29,440,433

ST. PAUL CAMPUS

New Buildings

Entomology, Fisheries and Wildlife facilities ...	\$ 2,536,250
Animal Science research laboratories, Phase I	85,000
Veterinary Medicine building	1,500,000
Horticultural Science facility	2,087,500
Housing Environment research facility	262,500
Farm machines service and storage building	340,000
Agricultural Economics and Rural Sociology building	1,292,500
Plant Pathology headhouse and greenhouse	243,000

Land Needs

Land for research plots and to consolidate campus area (8.52 acres) \$ 77,000

Utilities and Service Facilities

Sanitary sewer extensions and water main extensions 68,000
 Heating tunnels and piping 351,000
 New roads, paving, surfacing, and street lighting 53,000

Sub-Total \$ 8,895,750

DULUTH CAMPUS

New Buildings

Life Science building \$ 1,280,000
 Classroom addition 900,000
 Physical plant shops and equipment 250,000
 Study hall 180,000
 Campus Laboratory School 1,472,000
 Theater 600,000

Rehabilitation and New Use

Convert Biology space to Chemistry laboratories .. 200,000
 Develop space in Education Building and establish TV facilities 150,000
 Elevators, Education and Science Building 55,000
 Establish Darling Observatory on campus 80,000

Utilities and Service Facilities

Garage and general storage 200,000
 Heating plant coal storage and handling facilities, and installation of low-cost natural gas facilities 200,000
 Utilities tunnel and passageway from Humanities to Physical Education 80,000
 General landscaping and campus improvement .. 95,000

Housing and Food Service Needs

Reception center and food service for residence halls, Phase I 220,000
 Single student housing, 202 students (25% of cost) 240,000

Sub-Total \$ 6,202,000

MORRIS CAMPUS

New Buildings

Library, 1st Unit \$ 525,000
 Science and classroom building, 2nd and 3rd units 1,250,000

Rehabilitation and Remodeling

Rehabilitation of food service 70,000
 Rehabilitation of Senior Hall 86,300
 Rehabilitation of Humanities and Education Building 46,800

Utilities and Service Facilities

Heating tunnel and piping extending to Junior Hall 98,500
 Sanitary sewer rehabilitation, Gym to Senior Hall 26,000
 Water main replacements, enlargements, and extensions 35,000

Sub-Total \$ 2,137,600

SCHOOLS OF AGRICULTURE AND EXPERIMENT STATIONS

Crookston Campus, Northwest School and Experiment Station

Remodel feed grinding, mixing and handling facility \$ 10,000

Outside feeding floors and yards for beef, sheep, and dairy cattle \$ 16,000
 Farm machinery and motor vehicle maintenance addition 29,000
 Rehabilitation of Stephens Hall 62,000
 Water main from Crookston city limits to Northwest School campus 40,000
 Rehabilitation of Kiehle Hall
 Rehabilitation of Health Service Building
 Replace street lighting 15,000

Crookston Campus (proposed college-level Technical Institute)

Addition to Animal Science 220,000
 Remodeling of Hill Building and Owen Hall 50,000
 Rehabilitation of Kiehle Building and Selvig Hall 300,000
 Equipment for remodeled and rehabilitated buildings 88,000
 Food service, dining hall 25,000

Grand Rapids Campus, North Central School and Experiment Station

Research-Area Extension-Education Center 200,000
 Land purchase 7,500

Waseca Campus, Southern School and Experiment Station

Dairy Management research facility 80,000
 Swine research facility 45,000
 Land drainage 12,000
 Agricultural Engineering shop addition 90,000

Cloquet Forest Research Center

Student washroom, shower, toilet, and laundry ... 40,000
 Four student cabins 24,000
 Sewage disposal system, new well, and water mains 33,000
 Land acquisition 10,000

Excelsior Fruit Breeding Farm

Replacement of staff housing 10,000
 Screenhouse (40' x 60') 8,000
 Replace irrigation pump and expand irrigation system 15,000

Excelsior Arboretum

Road construction and surfacing 20,000
 Deep well and irrigation system for nursery area 10,000

Itasca Forestry and Biological Station

Aquatic laboratory 15,000
 Faculty cabin 10,000
 Sanitary sewer system 48,900

Lamberton, Southwest Experiment Station

Plot and research building 15,000
 Scale house and fertilizer storage building 15,000

Morris, West Central Experiment Station

Beef research facility and feed storage units 40,000
 Outside feeding floor for dairy cattle 10,000
 Land for consolidation of property 6,000

Rosemount, Agricultural Experiment Station

Swine Management research facility 120,000
 Turkey research facility 100,000
 Beef cattle barn, hay and straw storage, fences, lighting, and water 30,000
 Sheep barn 15,000

Duluth, Northeast Experiment Station

(No Requests) ---

Sub-Total \$ 1,884,400

Grand Total \$48,560,183



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

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House of Representatives

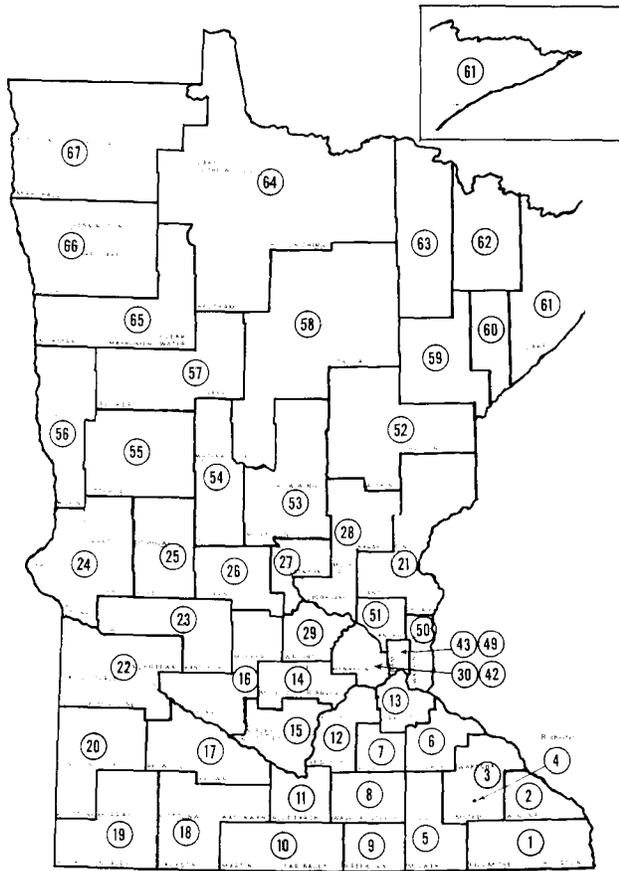
Name	County	District
Adams, James L.	Hennepin	42
Adams, Salisbury	Hennepin-West	31
Albertson, Howard R.	Washington	50
Anderson, Harold J.	Hennepin	37
Anderson, Harold R.	Nicollet	15
Anderson, Irvin N.	Koochiching	64
Anderson, John Tracy	Ramsey-South	43
Anderson, Thor	Hennepin	36
Ashbach, Robert O.	Ramsey-North	43
Bang, Otto	Hennepin-South	33
Barr, Sam R.	Big Stone, Traverse	24
Battles, Everett	Roseau	67
Becklin, Robert C.	Chisago, Isanti	21
Beedle, Ernest A.	Ramsey-South	46
Berke, Fred	Meeker	16
Blorquist, Glenn A.	Kanabec, Mille Lacs, Sherburne	28
Brinkman, B. J.	Stearns-East	26
Burchett, Connie	Anoka	51
Carlson, Bernard	Carlton	52
Christensen, Robert F.	Ramsey-North	44
Christianson, Marvin E.	Norman	65
Cina, Fred A.	St. Louis	62
Crain, Richard	Lincoln	20
DeGroat, Frank H.	Becker	57
Dickinson, Leonard R.	Beltrami, Lake of the Woods	64
Dirlam, Aubrey W.	Redwood	17
DuBois, B. F.	Stearns-West	26
Dunn, Bob	Kanabec, Mille Lacs, Sherburne	28
Dunn, Roy E.	Otter Tail	55
Duxbury, L. L., Jr.	Houston	1
Enebo, Stanley A.	Hennepin	34
Engelbrecht, Art	Douglas	25
Erdahl, Arlen I.	Faribault	10
Erickson, Wendell O.	Rock	19
Esau, Gilbert D.	Cottonwood	18
Everson, Ron	Wadena	54
Falkenhagen, Al	Dodge	5
Farmer, Lyle T.	Ramsey-North	49
Fena, Jack	St. Louis	63
Fischer, W. Casper	Lyon	20
Fitzsimmons, Richard W.	Marshall	67
Flakne, Gary W.	Hennepin	35
France, Alfred E.	St. Louis	61
French, George A.	Hennepin	37
Frenzel, Bill	Hennepin-West	30
Frick, Art, Sr.	Itasca	58
Fudro, Stanley J.	Hennepin	40
Fugina, Peter X.	St. Louis	62
Gearty, Edward J.	Hennepin	39
Gerling, Gordon	Morrison	53
Gimpl, Joe	Pine	21
Graw, Joseph P.	Hennepin-South	32
Grussendorf, Wm. T.	St. Louis	59
Grussing, George P.	Chippewa	22
Gustafson, Earl B.	St. Louis	60
Gustafson, Wallace F.	Kandiyohi	23
Hall, Clinton J.	Fillmore	1
Halsted, Charles L.	Crow Wing	53
Hartle, John A.	Steele	8
Hegstrom, M. K.	Watonwan	18
Henning, H. J.	Otter Tail	55
Hinman, Keith	Todd	54
House, William H.	Cook, Lake, St. Louis	61
Howatt, Lester A.	Wabasha	3
Humphrey, George F.	Hennepin	38
Iverson, Carl M.	Stevens, Grant	24
Jacobsen, Ernie	Hennepin-North	33
Johnson, C. A.	Blue Earth (Mankato)	11
Johnson, Harold	Hubbard	57
Johnson, Robert W.	Ramsey-South	44

Johnson, Victor L.	Kittson	67
Jopp, Ralph P.	Carver	14
Jude, Victor N.	Wright	29
Junglaus, Walter C.	McLeod	14
Kirchner, W. G.	Hennepin-North	32
Klaus, Walter K.	Dakota (Rural)	13
Krenik, George B.	LeSueur	12
Kucera, Robert C.	Rice	7
Latz, Robert	Hennepin	39
Lee, L. J.	Mahnomen, Clearwater	65
Lindahl, Bruce	Ramsey-South	48
Long, Verne E.	Pipestone	20
McGowan, Martin, Jr.	Swift	23
McLeod, Donald	Winona (Rural)	2
McMillan, Helen	Mower (Austin)	5
Mahowald, Robert	Stearns	27
Mann, George	Jackson	18
Mitchell, Don	Nobles	19
Morlock, Henry J.	Scott	12
Mueller, August B.	Sibley	15
Nelson, Leslie H.	Murray	19
Nelson, R. N.	Wilkin	56
Newcome, Tom	Ramsey-North	48
Nordin, John H.	Anoka	51
Nurminen, Birger	Arkin	52
O'Brien, William J.	Ramsey-North	45
O'Dea, Richard W.	Washington	50
Overgaard, Paul	Freeborn	9
Pavlak, Raymond	Dakota (South St. Paul, etc.)	13
Peterson, Harry	Lac qui Parle	22
Peterson, J. H.	Pope	25
Podgorski, Anthony	Ramsey-South	47
Prifrel, Joseph	Ramsey-North	47
Quirin, E. W.	Olmsted	4
Rappana, Duane	St. Louis	60
Renner, Robert G.	Cass	58
Richie, Richard W.	Ramsey-North	46
Rutter, Loren S.	St. Louis	63
Sabo, Martin O.	Hennepin	42
Sathre, Harvey B.	Mower (Rural)	5
Schafer, Ernest E.	Renville	16
Schulz, Roy	Blue Earth (Rural)	11
Schumann, Alfred	Olmsted	3
Schumann, Marvin C.	Benton, Sherburne	27
Schwarzkopf, Lyall A.	Hennepin	35
Scott, Kenneth E.	Martin	10
Searle, Rod	Waseca	8
Sillers, D. H.	Clay	56
Skaar, Andrew	Pennington, Red Lake	66
Skate, John P.	Hennepin	41
Slattengren, Linn	Hennepin-East	30
Smaby, Mrs. Alpha	Hennepin	41
Sommerdorf, Vernon L.	Ramsey-South	49
Stone, Ivan	Brown	17
Swanstrom, Dwight A.	St. Louis	59
Theis, Frank	Winona (City)	2
Tomezyk, Edward J.	Hennepin	40
Volstad, Edward J.	Hennepin	34
Voxland, Roy L.	Goodhue	6
Warnke, Curtis B.	Yellow Medicine	22
White, Richard H.	Hennepin	38
Wilder, Harvey A.	Polk	66
Wozniak, D. D.	Ramsey-South	45
Wright, F. Gordon	Hennepin	36
Yngve, John A.	Hennepin-East	31

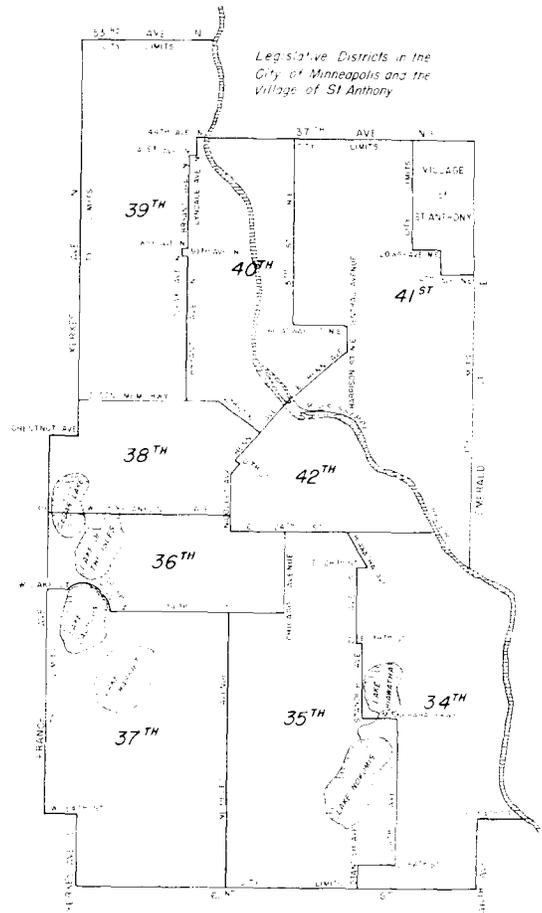
Senate

Name	County	District
Adams, Frank E.	Hennepin	41
Allen, Claude H.	Ramsey	43
Anderson, Ernest J.	Faribault, Martin	10
Anderson, Wendell	Ramsey	49
Benson, C. J.	Big Stone, Stevens, Grant, Traverse	24

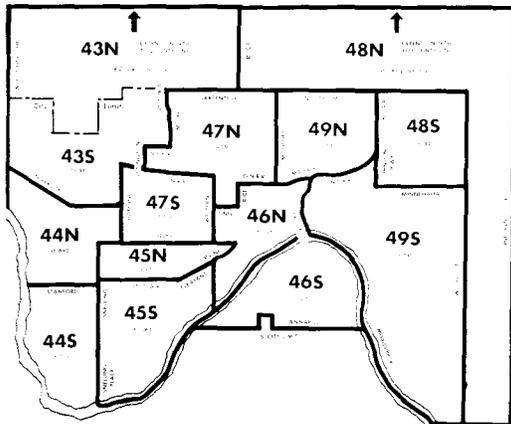
Bergerud, Alf	Hennepin	33
Blatz, Jerome V.	Hennepin	32
Child, Fay George	Chippewa, Lac qui Parle, Yellow Medicine	22
Coleman, Nicholas D.	Ramsey	45
Davies, Jack	Hennepin	42
Doslund, W. B.	Clay, Wilkin	56
Dunlap, Robert R.	Wabasha, Olmsted	3
Franz, W. J.	Cottonwood, Jackson, Watonwan	18
Grittner, Karl F.	Ramsey	46
Hansen, Mel	Hennepin	34
Hanson, Norman W.	Aitkin, Carlton	52
Hanson, Rudolph	Freeborn	9
Harren, Henry M.	Stearns	26
Heuer, William C. F.	Wadena, Todd	54
Higgins, Raymond J.	Cook, Lake, St. Louis	61
Holm, Vernon S.	Anoka	51
Holand, P. J.	Dodge, Mower	5
Holmquist, Stanley W.	Meeker, Renville	16
Hughes, Keith F.	Benton, Sherburne, Stearns	27
Imm, Val	Blue Earth	11
Josefson, J. A.	Lincoln, Lyon, Pipestone	20
Kalina, Harold	Hennepin	40
Knudsen, Eugene P.	Swift, Kandiyohi	23
Krieger, Harold G.	Olmsted	4
Kroehler, Franklin P.	Nicollet, Sibley	15
LaBrosse, Francis	St. Louis	59
Langley, Clarence G.	Goodhue	6
Larson, Lew W.	Fillmore, Houston	1
Larson, Norman	Clearwater, Norman, Mahnomen	65
Laufenburger, Roger	Winona	2
Lofvegren, Clifford	Douglas, Pope	25
McCarty, Glenn D.	Hennepin	36
McGuire, Michael E.	LeSueur, Scott	12
McKee, John H.	Beltrami, Lake of the Woods, Koochiching	64
McKnight, Henry T.	Hennepin	31
Maruska, Harveydale	Pennington, Polk, Red Lake	66
Mitchell, C. C.	Kanabec, Mille Lacs, Sherburne	28
Mosier, Leo D.	Hennepin	39
Nelson, Harold S.	Steele, Waseca	8
Nelson, Howard	Pine, Chisago, Isanti	21
Novak, Edward G.	Ramsey	47
Ogdahl, Harmon T.	Hennepin	37
Olson, John L.	Nobles, Rock, Murray	19
Parish, Richard J.	Hennepin	30
Parks, Clifton	Ramsey	44
Patterson, Benjamin	Cass, Itasca	58
Perpich, R. G.	St. Louis	63
Popham, Wayne G.	Hennepin	35
Popp, Harold	McLeod, Carver	14
Rosenmeier, Gordon	Crow Wing, Morrison	53
Salmore, Raphael	Washington	50
Sinclair, Donald	Kittson, Roseau, Marshall	67
Sundet, A. O.	Rice	7
Swenson, Glen W.	Wright	29
Thuet, Paul A.	Dakota	13
Ukkelberg, Cliff	Otter Tail	55
Vukelich, Thomas D.	St. Louis	62
Walz, Norman J.	Becker, Hubbard	57
Wanvick, Arne C.	St. Louis	60
Westin, Leslie E.	Ramsey	48
Wright, Donald O.	Hennepin	38
Zwach, John M.	Brown, Redwood	17



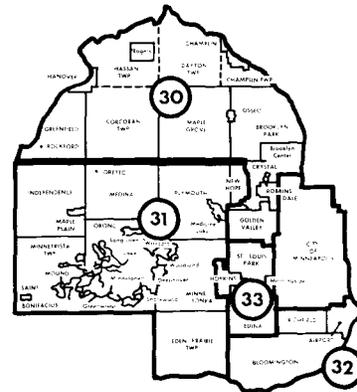
County Outline Map of Minnesota Showing Legislative Districts



City of Minneapolis Showing Legislative Districts



Ramsey County and City of St. Paul Showing Legislative Districts



Rural Hennepin County Showing Legislative Districts

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 Minneapolis, Minnesota 55455

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The University Staff Magazine - January 1965



FEATURES

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- **Water Resources Problems to be Studied**
- **The U's Interests in South America**
- **The Benefactors: Earle Brown**

The President's Page

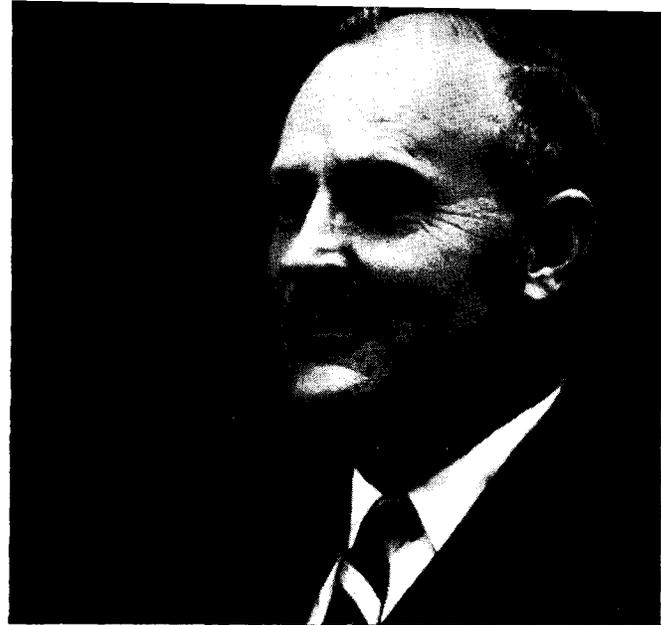
American universities, during the past ten years, have greatly increased the pace of their experimentation in anticipation of the college population explosion. Closed-circuit television, larger lecture sections, programmed learning studies, and novel building design are just a few of these experiments. During our almost frantic efforts to be prepared for numbers we have been made uneasy by the possibility that in trying to find new techniques we may have abandoned something fundamental to university education. These troublesome questions don't easily down: "Is our educational product inferior as a result? Have we wandered too far from traditional educational methods?" The search for an answer to these important questions, among others, was of central concern to Mrs. Wilson and me during our three-month study of education in Great Britain last year. I would like to share with you some of our reflections.

Perhaps the most firm hypothesis we took with us was that the organization of a university community into small college units, which is characteristic of Oxford and Cambridge, might be adapted to an institution like the University of Minnesota. We abandoned that hypothesis before we had been at Cambridge a month, for the system seemed to bring with it some of the most troublesome difficulties with which our British friends are now wrestling.

An important difference between the British and the American system relating to preparation for admission to college is the means of elimination. In the United States, instead of having an examination for elimination (the British "11-plus" examination is externally imposed, often upon children too young to be reconciled and at an age when there is enough variation in the rate of maturity to be a real disadvantage to many), we have a continuing and progressive self-selection with an open opportunity to qualify for college until well beyond the normal school-leaving age. Psychologically I consider our position much more sound than that of the British: it is more humane, more just, and more in the natural interest, since it makes possible the development of human resources in this country that would be both lost and disgruntled in Britain.

The British practice of placing a financial burden, in the form of private school tuition at secondary school age, forces many potentially good students out of higher education, thereby tending to perpetuate the class system. One result of the philosophical difference between the two countries is that, in the United States, the youth in any given group are three times as likely to start a full-time higher education program as are their British counterparts and twice as likely to earn a degree. On the other hand, those British youth who enter higher education are approximately five years ahead of their American counterparts in their field of specialization. The general objectives of the American philosophy are obviously attractive, but the British system expedites the preparation of competent professional people. Because both goals are worthy we need more nearly to achieve the best of both worlds.

The present trend in American education toward using multiple-choice and short-answer examinations, programmed learning, television, large and impersonal lecture classes, and other educational techniques that are amenable to mechanical presentation and evaluation has increased our ability to educate larger numbers of students,



but it has decreased the student's experience with language skills, both spoken and written. Although we have retained formal writing courses in most institutions, we have fled from the use of the formal essay as a means of developing the student's thinking and of increasing his capacity for managing the language. The hypothesis I want to suggest is one that would assure us that, while we are experimenting, our students continue to receive the most liberal education possible.

What combination of British and American ideas will produce the best of both worlds in American education? None of the characteristics that we studied in England seemed as important to the students or to the dons as did the tutorial system. Time and again, in conversation with both employees and products of the university at Cambridge, we were told that tutorial supervision was what

(continued on page 10)

On the cover . . .

is Dale Hansen, 6, attempting a few steps with the encouragement of therapist Connie Burrill, assistant, supervisor of physical training. Dale is a patient at University Hospitals, new Children's Rehabilitation Center. Watching is Linda Dameron, a young visitor at the center's dedication, November 7. See story on page 3.

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Therapy, Research, Teaching

New Rehabilitation Center Open for Business

At the foot of Church Street on the Minneapolis Campus is a new seven-story building which is part of University of Minnesota Hospitals. Its name is Children's Rehabilitation Center. Here miracles will be worked and new life will be found for crippled children.

The center contains facilities for hospitalization and treatment of children and some adults with physical disabilities who are in the transitional period between acute hospital care and independence at home. It also provides for training of doctors, nurses, therapists,

vocational counselors, social workers, and other rehabilitation workers.

According to Dr. Frederic J. Kottke, head of the Department of Physical Medicine and Rehabilitation and director of the new center, extensive research, especially in the area of muscle function, will be conducted at the center. Other studies will involve disabilities of bones, nerves, and joints. Cerebral palsy, congenital abnormalities, arthritis, trauma, and circulatory problems will receive special attention, said Dr. Kottke.

The new center is connected to the Eustis Wing of University Hospitals by an overhead enclosed walkway connecting the third floor of the Hospitals with the sixth floor of the rehabilitation center.

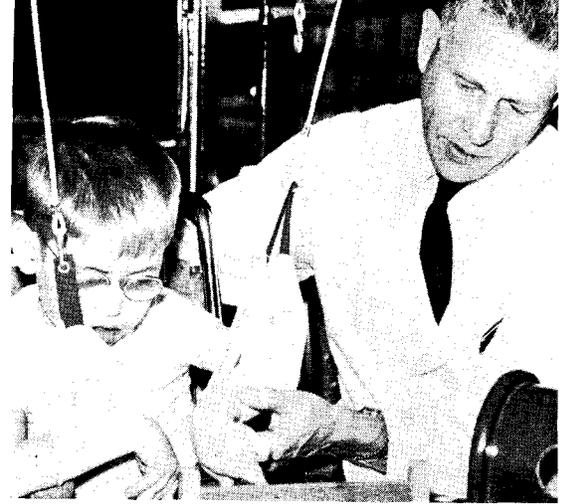
A library, schoolrooms, and staff lounges are located on the first floor.

The second floor contains classrooms and laboratories for University classes in occupational therapy and physical therapy, and staff offices.

Physical medicine research laboratories are on the third floor.

The fourth and fifth floors of the center provide hospitalization facilities for twenty adults and twenty children.

The children's rehabilitation treatment center on the sixth floor has all of the therapeutic facilities for the



Dr. Glenn Gullickson, director of Rehabilitation, assists Dale Hansen to improve manual dexterity.

physical restoration of disabled children. Here, occupational therapy provides functional and supportive treatment for children up to sixteen years of age. Groups of children can carry on supervised therapy in a large general room, or individual treatment or testing of motor development and self-care may be performed in a small treatment room.

The physical therapy section is designated to treat children with a variety of physical disabilities. Facilities include a hydrotherapy room, a gymnasium, and individual treatment rooms. There are also large and small rooms for speech evaluation and therapy.

The seventh floor, or penthouse, consists of a roof deck, enclosed by a fence, for outdoor recreation.

Special features for patient convenience are found throughout the building. Some of these are tinted window glass, air conditioning with individual controls for each room, drinking fountains at wheelchair height, indoor fire escape stairways, and no door-sills, curbs, or floor obstacles.

The plans for the center were approved by the Board of Regents in June, 1962. Construction began the following October and was completed in July of this year. It was opened for use in August.

The \$2,050,000 center was financed by both public and private funds. More than half—\$1,045,000, came from the University's William Henry Eustis Endowment Fund. Eustis, who died in 1928, was an attorney and one-time mayor of Minneapolis. A few years before his death, he bequeathed almost his entire fortune to the University for the well-being of crippled children.

(continued on page 10)



Seen at the November 7 dedication were Mrs. Robert B. Howard, wife of the dean of the College of Medical Sciences; Mr. Donald Bridgman, Minneapolis, closest living relative of benefactor William Henry Eustis.



Miss Florence Julian (left), Director of Nursing Services; Dr. and Mrs. Charles W. Mayo, Rochester.

Mrs. Della Olsen, Sherman Oaks, California, founder of Crippled Child Relief, Inc.; Mr. Raymond Amberg, Distinguished Director Emeritus of University Hospitals.



Miss Gertrude Gilman (left) director of University Hospitals; Miss Mary E. Switzer, commissioner of the Vocational Rehabilitation Administration, Washington, D.C.; Dr. Frederic J. Kottke, head of the Department of Physical Medicine and Rehabilitation.

The Water Resources Research Center, newly begun at the University of Minnesota, is one of forty-four similar centers established under the provisions of the Water Resources Research Act of 1964. The stated purpose of the Act is: "To assist in assuring the nation at all times of a supply of water sufficient in quantity and quality to meet the requirements of its expanding population."

Individual centers, not more than one in each state, will help "to stimulate, sponsor, provide for, and supplement present programs for the conduct of research, investigations, experiments, and the training of scientists in the fields of water and of resources which affect water."

Resources: Supply vs. Demand

RESEARCHERS TO STUDY H₂O PROBLEMS

"The University's water resources research center," said Dean Bryce Crawford, Jr., of the University's Graduate School, "will aim to produce new knowledge for solving the increasingly complex problems of water resources and producing additional highly trained scientists and engineers to work on those problems."

The center, when fully organized, will have these multiple purposes and varied responsibilities. It will administer University research support coming from the new act. It will serve as an integrating and coordinating agency for research bearing on water resource problems in several University departments and divisions.

The center and those associated with it will attempt to stimulate expansion of University research on water resources problems, and to promote interest in the study of such problems. Another necessary and important aspect of the center's work will be the training, through specific courses to be established, of additional scientists for work in the field of water resources.

A final vital function of the center will be in coordinating University research with the work of state and federal agencies, other academic institutions and private organizations in the state of Minnesota.

William C. Walton, University professor of geology and geophysics, was named director of the center in September, 1964. He previously served as a hydrologist with the Illinois State Water Survey, the United States Geological Survey, and the United States Bureau of Reclamation.

His personal research is in the area of ground water, methods of evaluating consequences of development of resources. He will be working with a complex hydrogeologic electric analog computer. The equipment will be set up in a laboratory adjoining the office of the center in Pillsbury Hall.

Professor Walton also hopes to be able to assist in introducing a program of courses in hydrogeology within the Department of Geology and Geophysics



William C. Walton

the courses now being offered at the University in water problems and related fields and the existing projects and plans for water research in the state.

The information will be catalogued and studied to assure that future projects sponsored by the center will supplement and not duplicate established water resources research programs, and to assist the center in identifying neglected research and educational areas.

Congress has passed an implementing bill for the original Water Resources Research Act, making \$75,000 available for use in this fiscal year by fourteen of the national centers. According to Professor Walton, the University has made requests for funds this year, but will be competing with many of the other centers for the available money. In addition to the grants available, the University's Graduate School has made funds available to the center for its initial projects.

The Water Resources Research Act also authorizes appropriations for general support funds to individual centers of \$87,000 in fiscal 1966 and 1967 and \$100,000 annually thereafter. Federal grants to match funds from non-federal sources for individual research projects are also authorized by the Act. The total for this kind of appropriation is not to exceed \$1 million in 1965, \$2 million in 1966, \$3 million in 1967, \$4 million in 1968 and \$5 million in 1969 and each succeeding fiscal year.

An office of Water Resources Research has been established in the Department of the Interior to administer the new program of grants provided by the Water Resources Research Act.

Ford Grants to Send Faculty to Chile, Argentina

'U's Interests in South America Grow

In the past few months, the University of Minnesota has received grants totaling \$2,605,930 from the Ford Foundation. These grants will enable several University faculty members to be assigned various positions in South America.

The funds are of two kinds. (1) a grant of \$1,250,000 for general support of expansion of international programs at the University, and (2) three grants, totaling \$1,355,930, to support programs at the University of Concepcion at Concepcion, Chile, and in Buenos Aires, Argentina.

By mutual agreement with the Ford Foundation, the Chile-Argentina programs will come to a single administrative focus at the University of Minnesota.

Part of the grant for the University of Concepcion program was provided to finance administrative services and coordination for all three programs.

Administrator of the program at the University of Minnesota is Dean of International Programs William M. Myers. In his office, a campus coordinator for the programs will be appointed.

Facts for the following story are from a memorandum of November 3 to the faculty from Dean Myers. Additional information on the grants and their use can be found there.

The grant funds for the expansion of international programs at the University of Minnesota were allocated for upgrading existing faculty through support of research, interdisciplinary seminars, workshops, and the preparation of special materials; for contribution toward salaries of new faculty members in Asian and Latin American Area Studies; for support of international relations, cross-cultural and developmental studies; for administrative services and library support; and for free development.

Support from the Ford Foundation includes funds for two separate Chilean programs. The first is at the University of Concepcion.

This program will involve wide reorganization of the Chilean university's administration, curriculum structure, and library system. It will also aim at upgrading Concepcion's academic programs by strengthening the competence of its faculty.

Beginning in January, 1965, several Minnesota faculty and administrative staff members will be assigned to the South American university to serve as advisors and consultants during the next three years. During the same period, ten to fifteen Concepcion faculty members will be granted fellowships to come to the United States for graduate work at the University of Minnesota and other institutions.

Heading the Minnesota staff at Concepcion will be Associate Dean Francis M. Boddy, Graduate School. James T. Kingsley, Jr., assistant professor and chief of the University Libraries' Department of Special Collections, is scheduled to serve for a year or more at Concepcion as acting di-

rector of libraries. Other staff members to be assigned to Concepcion have not been appointed, according to Dean Myers.

The second Chilean program provided for by the Ford grant involves agricultural extension education.

The grant stipulates that funds should be used as follows: for training abroad for Chilean extensionists; for technical assistance in Chile from the University of Minnesota by visiting professors, consultants, and junior staff members; and for library acquisitions for Chilean institutions.

Although the Chilean grants are for three years, according to Dean Myers, discussion with the Ford Foundation representative led to mutual agreement that this should be developed as a long-time program which might continue for a minimum of ten to fifteen years.

The last grant provides funds for a member of the Institute of Agriculture faculty to be assigned as an agricultural specialist to Buenos Aires, Argentina, in the office of the Ford Foundation there. The grant is for two years.

An administrative guide is currently being prepared which will provide information on salary, fringe benefits, travel arrangements, moving, and other procedures connected with assignments of University faculty members on the Chile-Argentina programs. When complete, copies of this guide will be available for interested faculty members.

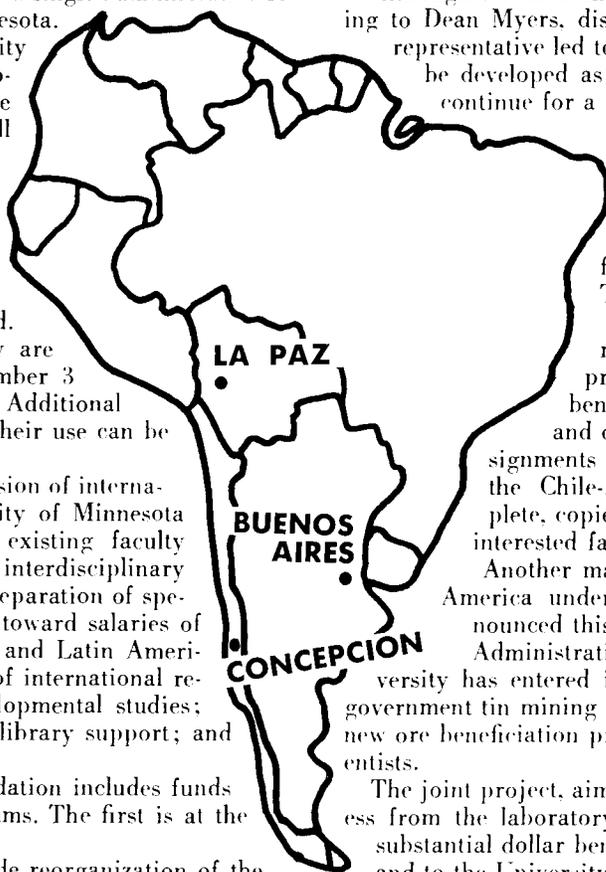
Another major cooperative program in South America undertaken by the University was announced this fall by Vice President of Business Administration Laurence R. Lunden. The University has entered into an agreement with a Bolivian government tin mining corporation for joint research on a new ore beneficiation process developed by University scientists.

The joint project, aimed at bringing the University process from the laboratory to production scale, could mean substantial dollar benefit both to the Republic of Bolivia and to the University if the process can be applied commercially, Lunden said.

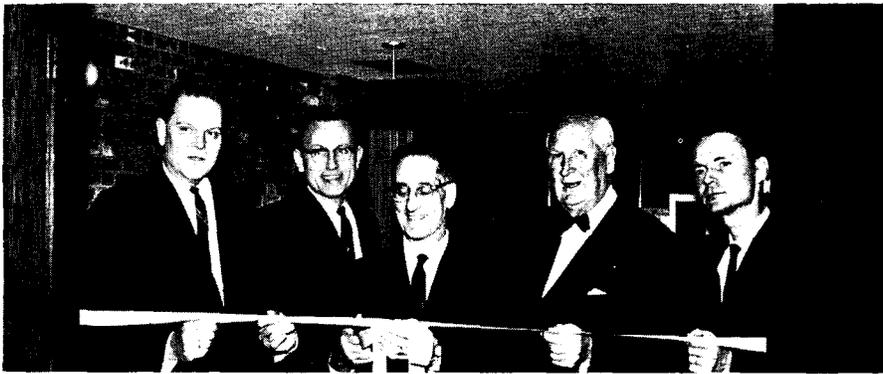
It also will result in a major program of educational and technical assistance by the University to Bolivia.

Royalties which might accrue to the University would be applied in part to providing assistance to Bolivia in the area of education, technology, economics, medicine, and agriculture. Much of this aid would be directed to the Technological Institute at LaPaz, an engineering school which the company, the Corporacion Minera de Bolivia, desires assistance in upgrading.

Responsible for developing the beneficiation process are Professor Strathmore R. B. Cooke, Associate Professor Adrian C. Dorenfeld, both of the University's School of Mineral and Metallurgical Engineering; and Theodore Balberyski, a former University graduate student.



VARIED FACILITIES OF CLUB OPENED TO UMD STAFF MEMBERS



Participating in the ribbon-cutting ceremony for the new UMD Campus Club are, from left, Provost Raymond W. Darland, Professor Cecil Meyers, Professor William A. Rosenthal, Richard L. Griggs, and Robert W. Bridges.

The newly completed \$100,000 Campus Club at Duluth was dedicated and officially opened to staff members at a dinner on October 20.

Professor of English William A. Rosenthal, chairman of the UMD Faculty Council, presided at the opening event and cut the traditional ribbon. Other participants in the dedication were Provost Raymond W. Darland and former Regent Richard L. Griggs of Duluth.

The club includes a main dining room which seats more than one hundred people, a lounge-conference room,

two smaller conference-dining rooms, and a cafeteria.

The club will provide a quiet, informal atmosphere for staff members and their guests. Social functions and other uses for the club will be planned and directed by its officers and directors. Participation in the club will be on a membership basis.

Staff members are indebted to several donors for construction funds. Among them are Richard L. Griggs; Robert Congdon, and Elisabeth Congdon, Duluth; Louis W. and Maud Hill Foundation, the McKnight Foundation, and the Bremer Foundation, St. Paul.

Reach Quotas

Staff Fund Drives Successful

The 1964 University of Minnesota Consolidated Fund Drive for staff members on the Minneapolis Campus was completed October 29. Funds collected amounted to \$99,971.89, 103% of the \$97,000 quota.

Seventy-five per cent of the money collected in the Consolidated Fund Drive was for the United Fund Drive of Hennepin County. The remainder went to the American Cancer Society and the Minnesota Heart Association. Donors specified to which funds their money should be given.

Chairman and vice chairman, respectively, of this year's Minneapolis Campus drive were James P. Schroeder, director of Centennial and Territorial halls, and Dean George P. Hager of the College of Pharmacy. Dean Hager is chairman-designate of the 1965 drive.

The annual fund drive for staff members on the St. Paul Campus collects donations entirely for the United Fund. Chairman of this year's drive, which also ended October 29, was Thor Kommedahl, associate professor of plant pathology and botany.

A quota of \$14,500 was reached and passed. Total amount collected was \$14,825.15, 102% of the quota.

The Duluth Campus United Fund Drive was October 5 through 30. Total donations amounted to \$6,143.78. This represents 103% of the \$5,965 quota set before the drive. Although the Duluth drive is primarily for staff members, the total figure includes a contribution of \$283 collected by the Student Association.

Chairman of the UMD drive was Academic Dean Thomas W. Chamberlin.

In 1954 Dr. Harvey H. Hoyt was appointed head of the Department of Veterinary Medicine (later combined with the Department of Veterinary Clinics). He accepted additional responsibilities in July when named Associate Dean of the College of Veterinary Medicine. Dr. Hoyt's principal academic interests, since joining the staff in 1948, have been teaching of infectious diseases of food-producing animals and general clinical aspects in the treatment of animal diseases. His research interests concern respiratory diseases of cattle and bovine mammary diseases.



The 1,700 members of the Campus Club at the Union are apt to praise the culinary techniques of Mrs. Isabel Hynes whenever they eat there. "Mrs. Hynes is an excellent cook," according to Mr. Dale Shephard, Campus Club manager. "She has prepared delicious soups, meats, and hot dishes for fifteen years." Mrs. Hynes, who also works regularly in the main service line, says she looks on the Campus Club members as if they were her own big family. Usually 700 to 800 members eat daily at the club. Mrs. Hynes' husband, Vincent Hynes, works in the College of Medical Sciences and is involved in a heart research project.

The Minnesotan

WE

The Staff Members and Friends of the University

One of the busiest places on any Minnesota campus is undoubtedly its health service. Appointed assistant director of the Minneapolis Campus Health Service in September was **Dr. Kenneth P. Malvey**. Dr. Malvey has been a full-time medical staff member since 1960. A 1933 graduate of the College of Medical Sciences, he was in private practice until joining the health service staff. In 1962 Dr. Malvey exchanged duties for the summer months with a doctor from the health service at the University of Bristol, England.



A "charter member" of the Duluth Campus is **William F. Maupins** who serves as laboratory service supervisor for the Division of Science and Mathematics. A campus custodian in 1947 when Duluth State Teachers College gained University status, he entered UMD as a student in 1948 and graduated with a BA in political science in 1951. He returned to UMD in 1953 to assume his present position. Maupins is the immediate past president of the Minnesota-Dakota Conference of the NAACP and has been president of the Duluth chapter for the past four years.



The Board of Regents has approved the appointment of **John R. Borchert**, professor of geography, as associate dean of the Graduate School for winter, spring, and summer, 1965. Professor Borchert was chairman of the Department of Geography from 1956 to 1961. He was director of urban research for the Upper Midwest Economic Study, a University-based project, from 1961-1963. He has served as a member of Twin City Metropolitan Planning Commission, consultant, adviser, and co-head of a project to evaluate land through which new highways will pass for the Minnesota Highway Department, and head of the Minnesota State Board of Education advisory committee on social studies. He can currently be seen Tuesday and Thursday evenings on KTCA-TV giving geography lectures.



A man who taught in a one-room rural elementary school in Washington County in 1931 advanced through educational administrative ranks until he became Dean of the College of Education last May. **Dean Robert J. Keller**, Professor of Education, has played a prominent role in planning higher educational facilities in Minnesota, particularly at the junior college level, through surveys he directed for legislative, governor-appointed, and University committees. In 1963 he visited United States Armed Forces in Japan, Korea, and the South Pacific on a mission for the North Central Association of Colleges and Secondary Schools. He has served as Director of the University's Bureau of Institutional Research and Director of University High School.



"My girls are more serious about their studying than they were six years ago," reflects **Mrs. Sydney MacDonald**, director of Sanford Hall, a Minneapolis Campus residence for women. "But, of course, eighteen-year-olds will never change in many delightful ways." The responsibilities of keeping all phases of operation running smoothly all year around in a building housing 293 lively co-eds is no small order, but Mrs. MacDonald has enjoyed almost every minute of her six-year directorship. Exciting times are ahead at Sanford as plans are being made for a building addition which will almost double the present residence capacity. The construction, which is to begin in the spring of 1965, will involve a tower adjacent to the present building's east side, and will be ready for occupancy in the fall of 1966.

Staff Savings Plan Earns U.S. Bonds

According to Ray F. Archer, director of the Department of Insurance and Retirement, a payroll savings plan for the purchase of United States Series E Savings Bonds is available to staff members on an optional basis. The plan is a regular method of saving by automatic payroll deduction.

Each pay day the deduction which savers have selected is transmitted to a Minneapolis bank and is accumulated in a payroll savings account.

At the end of each month, United States Savings Bonds are issued for all accounts that have accumulated bond purchase amounts.

Participants receive \$4 for every \$3 at maturity—seven years and nine months. If bonds are lost, stolen, or destroyed, they will be replaced by the United States Treasury.

Bonds are exempt from state taxes; there are no Federal income taxes until the bonds are cashed. They can be issued in denominations of \$25 or more.

Further information is available from the Department of Insurance and Retirement, 16 Morrill Hall, 373-2115.

Regents' Scholarships

The following civil service staff members were winners of Regents' Scholarships for Fall Semester evening school: DELORES E. DOOLEY, secretary to the Vice President, Business Administration; MARGARET M. CONTRERAS, secretary, Research Contracts and Grants; SHARON L. CARTER, senior account clerk, Bursar's Office; MARY LOU PETERSON, senior secretary, Business Office; RUTH L. KROOK, junior student personnel worker, Admissions and Records; SHARON L. DOKKEN, senior clerk-typist, Admissions and Records; ANNE L. FORSTEN, senior secretary, Civil Service Personnel Training Division; JUDY CLARKEN, account clerk, Civil Service Personnel; CLARENCE S. CARTER, senior stores clerk, Walter Library; DOROTHY J. KETCHAM, executive secretary, Walter Library Office.

PATRICK K. KAISER, dispatcher, Plant Services; R. WALDO ANDERSON, flight instructor, Plant Services; JUDITH C. HILTON, secretary, Laboratory for Research in Social Relations; ROSE MARIE SOLSTAD, secretary, Music; BETTY JO POINTS, senior account clerk, CLA Administration; JOAN E. LEPLEY, senior clerk, Student Counseling Bureau; E. L. MAHRER, broadcast technician, Radio and Television; PATRICIA A. BLAISDELL, general staff nurse, Nursing Services; BETTY JEAN BRAUN, general staff nurse, Nursing Services; BARBARA J. BUCHWALTER, general staff nurse, Nursing Services.

MARGARET CLIPPER, hospital nursing supervisor, Nursing Services; BEVERLY KLINGBELL, assistant head hospital nurse, Nursing Services; JANE E. LOESCH, head hospital nurse, Nursing Services; JUDITH L. NASH,

(continued on page 10)

THE BENEFACTORS

Earle Brown

A letter from Earle Brown to the Regents of the University of Minnesota, dated December 8, 1949, contains these two paragraphs:

"As I pass beyond the three score and ten years of my life and realize that I won't be here for an equal period of time in the future I wish to think in terms of my obligations to the State of Minnesota. Minnesota has been good to me. I was born here and have been actively associated with the progress of the state throughout my life time. I want to do something for this state which I love and cherish.

"The University of Minnesota, which celebrates its 100th birthday next year, has done much for the people of the state and is one of the great assets of this area. To assist the University in its future development I wish to convey to the Regents of the University of Minnesota my farm of approximately 750 acres in Brooklyn Center. It is my wish to retain a life interest in this farm which will permit me to spend my remaining days where I was born and reared."

In February of 1953, the Regents voted to use the proceeds from this gift for the construction and equipment of a short course building on the St. Paul Campus which would be known as the Earle Brown Hall.

For the next few years the University was engaged in surveys, studies, and plans for the eventual disposition of this property in ways acceptable to Mr. Brown, to the community of Brooklyn Center, and to the University. Out of this work came the Close Plan, principally the product of the University's supervisory architect, Professor Winston Close, which attracted a great deal of favorable comment all over the country. This was to be a planned community with houses, parks, schools, recreation areas—all tied together with an ingenious system of streets, walks, and park lanes.

Mr. Brown became interested and offered to surrender his life interest in a portion of the property. The Close Plan, with necessary modifications, was begun in the spring of 1956 when ground was broken by Mr. Brown and University President J. L. Morrill and Vice President W. T. Middlebrook for the so-called Garden City development project. Not as



Earle Brown

successful an adventure as anticipated, this plan was terminated in September of 1957 by formal action of the Board of Regents.

In 1962, the Village of Brooklyn Center, the University of Minnesota, the Dayton Company, and the CharLynn Manufacturing Company employed the community planning company of Hodne and Associates to make a further survey and recommendations for the eventual use of this property and adjacent areas. This plan, referred to as the Brooklyn Center Urban Community plan, also received much favorable commendation.

Under the terms of Mr. Brown's gift, his life interest was to expire one year after his death. Mr. Brown died in March of 1963. The property is now in full and complete charge of the University. The firm of Larry Smith and Company is presently working on drafts of final plans for the sale of the Brown gift. These plans will be presented soon to the Regents. Final decisions, too, will be made by the Regents as to the building that will commemorate the name and memory of Earle Brown.

An ad hoc committee appointed to study all suggestions regarding the disposition of Earle Brown's gift, and its use while still the property of the University, was appointed by President Wilson just after Mr. Brown's death. Members are Professor Winston A. Close, Dr. LaVern A. Freeh, Mr. Roy V. Lund, Mr. William L. Nunn, Mr. R. Joel Tierney, and Dean Willard L. Thompson. All the houses on the land are now rented as is the

(continued on page 10)

University Moods Captured In "Symphony" of Song

The spirit of a football game at Memorial Stadium, with all of its intensity and excitement, has been captured on the University's new record. "Songs of the University of Minnesota." The record introduces two new songs and offers a fresh interpretation of many of the familiar songs and marches.

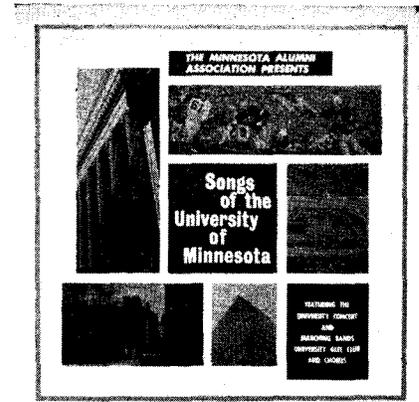
University Bandmaster Frank Bencriscutto wrote all arrangements and two of the songs, and directed the University Concert Band, Football Marching Band, Men's Glee Club, and University Chorus to make the record.

"It's not merely a collection of songs," says Bencriscutto. "We've practically written a symphony on

University of Minnesota school songs, by setting them in a total picture that opposes the light and the gay with the dramatic, and the fast with the slow."

One side of the record is instrumental; the other is completely vocal. Included are the such old unforgettables as "The Rouser," "Minnesota Fight," Sousa's "Minnesota March," and "Hail, Minnesota." The two new songs are "We're on Our Way," written by Frank J. Black in 1937, and Bencriscutto's original ballad, "Our North Star."

The record has achieved notice and acclaim both from University alumni and professional musicians. As a lasting musical tribute to the University,



it would make an appropriate and appreciated gift to students, faculty, alumni, or friends of the University.

The record is available through the Alumni Association Office, 205 Coffman Union. Purchase price is \$2.95 for students, faculty, and alumni, and \$3.50 for the general public.

Mayo Institutions Get New Names



Chairman of the Mayo Association (now Mayo Foundation) G. S. Schuster, accepts the citation to the association from President O. Meredith Wilson at the September Mayo Centennial Convocation.

As the result of deliberation and agreement reached during the meetings of the Board of Regents and the Board of Members of Mayo Association in September, two Mayo institutions now bear new names.

The medical educational activity which has been conducted in Rochester under the designation "Mayo Foundation for Medical Education and Research" now bears the name "Mayo Graduate School of Medicine, University of Minnesota."

Mayo Association, the non-profit corporation which holds title to all physical prop-

erties and assets of the Mayo Clinic, was named "Mayo Foundation."

Unchanged are the basic functions of both institutions.

The Mayo Graduate School of Medicine, as in the past, will integrate its educational activity, conducted in Rochester, with that of the University of Minnesota's Graduate School.

The Mayo Foundation will continue its ownership of properties and physical assets of the Mayo institutions and will continue to support an expanded program of

medical education and research.

The Mayo Centennial Convocation on September 16 brought to the platform of the Mayo Civic Arena thirty-five alumni of the Mayo Foundation who received Outstanding Achievement Awards, representatives of the University of Minnesota, the Clinic, the Mayo Foundation, and the Mayo Graduate School of Medicine. Two citations, not previously announced in advance of the convocation, were presented by the University to Dr. C. W. Mayo, chairman of the University Board of Regents, and to the Mayo Association, now Mayo Foundation.

PROMOTIONS

Professor of Mathematics PAUL C. ROSENBLOOM has been appointed director of the Minnesota School Mathematics Center and professor of State of Minnesota Mathematics Research.

JOHN P. WENDLAND has been made clinical professor of ophthalmology.

At the Mayo Graduate School of Medicine, DR. CORRIN H. HODGSON, DR. JAMES C. CAIN and DR. DAVID T. CARR have become professors of clinical medicine. Appointed professors of biochemistry at the Mayo Graduate School of Medicine, are GERARD A. FLEISCHER and VERNON R. MATTON.

Also at the Mayo Graduate School of Medicine, DR. F. HENRY ELLIS has been made professor of surgery, DR. ROBERT W. HOLLENHORST has become professor of ophthalmology, DR. DONALD W. MULDER has been named professor of neurology, and DR. ROBERT B. WILSON has been appointed professor of clinical obstetrics and gynecology.

PUBLICATIONS

A recent book by Professor Warren B. Cheston, associate chairman, Department of Physics, *Elementary Theory of Electric and Magnetic Fields*, was published by John Wiley & Sons, Inc.

Dr. Alfred Doscherholmen, assistant professor, College of Medical Sciences, recently wrote *Studies in the Metabolism of Vitamin B₁₂*, which was published in November by the University of Minnesota Press.

A University faculty member, Allen Tate, professor of English, has been included in the pamphlet series on American writers of the University of Minnesota Press.

Regents' Scholarships

(continued from page 8)

general staff nurse, Nursing Services: ASA P. PATRICK, hospital orderly, Nursing Services; JEAN MARY ROHLEDER, general staff nurse, Nursing Services; SUE N. SAUER, licensed practical nurse, Nursing Services; JUANITA SIEVEK, licensed practical nurse, Nursing Services; ERMA A. SIMS, nursing station assistant, Nursing Services; ETHELMAE TRASK, general staff nurse, Nursing Services.

MARY JANE MOORE, student technologist supervisor, Hospital Laboratories; ROBERTA FARNHAM, student technologist supervisor, Hospital Laboratories; DONALD B. MCINTYRE, research shop foreman, Physics; EDWARD R. NYE, principal laboratory attendant, Physics; KATHLEEN F. PETERSON, clerk-stenographer, Steno Pool; DOLORES KOHNER, senior secretary, Neurology; LINDA A. WENZEL, senior laboratory technician trainee, Medicine, Division of Dermatology; BARBARA L. BARNET, senior clerk-typist, Physical Medicine and Rehabilitation; HOWARD J. GRAVEM, assistant scientist, Pediatrics; SHARON WIENHOLD, senior laboratory technician, Biochemistry.

Public Grants, Private Donations Finance Center

(continued from page 3)

Out of part of the endowment, the University built the Eustis unit to University Hospitals in 1928. Eustis died a few weeks after the cornerstone of the unit was laid. Left crippled by tuberculosis when he was 15 years old, Eustis had once declared that when he was still a young man he had set as his goal the amassing of at least \$1,000,000 to give away to help crippled children.

The federal Hill-Burton Hospital Construction Program provided forty-five per cent of the cost—\$869,000—under the Chronic Disease Hospital and Rehabilitation Facilities portions of that program.

Other funds came from Crippled Child Relief, Inc., of Minneapolis, the University's Max Ogden Cole Fund, and several other private donors.

Mrs. Della Olsen of Sherman Oaks, California, has been an invaluable person in the establishment of a rehabilitation center in University Hospitals and in working for a special children's rehabilitation section, according to Dr. Kottke. Mrs. Olsen was the founder and long-time president of Crippled Child Relief, Inc., of Minneapolis.

The University's original rehabilitation center, in the Mayo Memorial building, opened in 1954, was designed for adult care. Mrs. Olsen and her organization provided the funds to equip the adult center and continued to work for a center which also would provide special facilities for child care, according to Dr. Kottke.

The dedication of the Rehabilitation Center was November 7 at a public open house and an invitational luncheon at Coffman Memorial Union.

Presiding at the luncheon program was Mr. Raymond Amberg, Distinguished Director Emeritus of University Hospitals.

A passing of the key ceremony began with Mr. Robert Kerr of Ellerbe Architects who presented the key of the new building to Dr. Charles W. Mayo, Chairman of the Board of Regents. Dr. Mayo accepted the key for the University, and in turn, presented it to Dr. Robert B. Howard, Dean of the College of Medical Sciences. Dean Howard spoke for the College and passed the key to Miss Gertrude Gilman, Director of University Hospitals, who gave the key to Dr. Kottke.

The dedication address was given by Miss Mary E. Switzer, Commissioner of the Vocational Rehabilitation Administration of the United States Department of Health, Education and Welfare.

Benefactor, Earle Brown

(continued from page 8)

office building. The land is under cultivation. But soon the area will be quite different and only the memories of a famous estate of one of Minnesota's great citizens will remain. But the Earle Brown Hall on the St. Paul Campus of the University will always be a reminder that Earle Brown wanted "to do something for this state which I love and cherish."

President

(continued from page 2)

made the British system go. I don't believe that the tutorial can be directly transplanted to the large American university, but to propose that a modified tutorial be provided in the American student's major in his junior and senior years is not unrealistic.

Briefly, the adaptation might be made as follows. First, the objectives of education in each major field should be outlined by the staff members teaching in the field, and these objectives should be presented to the student as a series of fundamental problems or propositions which he must master if he is to get a degree in that field. The student should be given a basic bibliography, arranged around these fundamental problems, with the help of which he should prepare essays explicating each problem. Small groups of students would meet frequently with a professor to discuss the problems and to hear progress reports on the papers. At the end of the two or three years required to complete his degree, the student should have a small book of his own that would be his own best expression on the most important propositions of his major, a document to which he could refer with greater profit than to any text prepared by someone else. In addition, he would have been forced to master the technique of essay writing and to become familiar with much of the important literature in his field.

Although in the foregoing brief remarks I have been able to do little more than raise an hypothesis, I hope you will give it your thoughtful consideration.

O Meredith Wilson

The Minnesotan

University of Minnesota Calendar of Events

January 1-15, 1965

ATHLETIC DEPARTMENT EVENTS

Basketball

Williams Arena

Saturday, January 2—University of Detroit, 8:00 p.m.

Saturday, January 9—University of Wisconsin, 8:00 p.m. (Single tickets \$2.00. Single game ticket sale begins Monday before each game at Cooke Hall, at the Minneapolis Downtown Ticket Office, and at Field-Schlick in the St. Paul loop, Har-Mar Mall, and Highland Village.)

Gymnastics

Cooke Hall

Saturday, January 9—Illinois (Chicago Navy Pier). General admission \$1.00, sold at gate only.

Hockey

Williams Arena

Friday, January 8—Michigan State University, 8:00 p.m.

Saturday, January 9—Michigan State University, 2:00 p.m.

Friday, January 15—Michigan Tech, 8:00 p.m. (Single tickets \$1.75. Single game ticket sale begins Monday before each game at Cooke Hall, at the Minneapolis Downtown Ticket Office, and at Field-Schlick in the St. Paul loop, Har-Mar Mall, and Highland Village.)

Swimming

Cooke Hall

Friday, January 8—University of Oklahoma, 7:30 p.m. Reserved tickets sold in advance, \$1.50; General admission sold at gate, \$1.00.

Wrestling

Williams Arena

Saturday, January 9—Kansas State. General admission \$1.00, sold at gate only.

UNIVERSITY GALLERY EXHIBITIONS

*Northrop Auditorium
8:30-4:30 p.m.*

*Monday through Friday
2:00 p.m.-5:00 p.m.*

Sunday afternoon of January 17

Friday, January 1 through Sunday, January 31, Marsden Hartley Graphics, South Gallery

Friday, January 1 through Sunday, January 31, Cliches-Verre, Gallery 307

Wednesday, January 6 through Sunday, January 31, Merlin Olson, M.F.A. Thesis Exhibition, Gallery 309

Wednesday, January 6—2:30 p.m.-4:30 p.m., Opening of Frank Pearson Recent Paintings, Coffee hour

Wednesday, January 6 through Tuesday, February 9, Frank Pearson Recent Paintings, Gallery 405

ST. PAUL CAMPUS STUDENT CENTER GALLERIES

Sunday, 12:00 noon-11:00 p.m.

*Monday through Saturday
7:00 a.m.-11:00 p.m.*

Monday, January 1 through Friday, January 22, Doug Henderson, Mixed Media

Monday, January 4 through Wednesday, January 20, Larry Epstein, Mixed Media

MUSEUM OF NATURAL HISTORY SUNDAY PROGRAMS

Museum Auditorium, 3:00 p.m.

Sunday, January 3 "The Big Four," color sound film.

Sunday, January 10 "Radiotelemetry and Animal Movements" by Mr. Alan Sargent, biologist.

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge.)

Every Tuesday, Music Hour, Scott Hall Auditorium, 11:30 a.m.

Sunday, January 10—Lowell Lindgren piano recital, Scott Hall Auditorium, 3:30 p.m.

Sunday, January 10—Dorothy Hammers voice recital, Scott Hall Auditorium, 8:30 p.m.

Sunday, January 17—Symphonic Band Concert, Northrop Auditorium, 4:00 p.m.

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

Minnesota Theater of the Air

Saturday, 4:00 p.m.

Fridays, 4:45 p.m.—"Legislative Reports." KUOM will present reports in depth on the major issues under consideration in the Minnesota Legislature. These programs will be prepared with the assistance and cooperation of the Political Science Department, the League of Women Voters, the Citizens League of Minneapolis and Hennepin County, and the League of Minnesota Municipalities.

Public Affairs Forum

Wednesdays, 1:30 p.m.—"Peace Through Law" A series of ten programs which contribute to the world-wide discussion of the role of law in the construction of a peaceful world. Discussion guides and study materials are available to augment the broadcasts.

Fridays, 1:30 p.m.—"Great Issues of 1964-65" A series of distinguished lectures from the Cooper Union in New York City. Some of the speakers are: Ashley Montag, Wayne Morse, Harold Taylor, Marva Mannes, Hans Kohn, and Frederic Wertham.

MINNEAPOLIS SYMPHONY ORCHESTRA

*Stanislaw Skrowaczewski, Music Director
Northrop Auditorium, 8:30 p.m.
Tickets \$2.75-85.00*

Saturday, January 2—Norman Carol, Violinist

Friday, January 8—Bernard Haitink, Guest Conductor

Friday, January 15—Paul Kletzki, Guest Conductor

Sunday Afternoon Adventures in Music Concerts

*Northrop Auditorium, 4:00 p.m.
Tickets \$1.50-82.50*

Sunday, January 10—Gershwin and the Jazz Age, James De Preist, conducting

CONVOCATIONS

(Open to the public without charge.)

Northrop Auditorium, 11:30 a.m.

Thursday, January 7—"The Psychology of the Actor," Yoti Lane, director, producer, lecturer, British Drama League.

Thursday, January 14—"Bali, Java and Sumatra," color film narrated in person by Philip Walker.

UNIVERSITY OF MINNESOTA TELEVISION HOUR

A Service of

The General Extension Division

Seen on Channel 2, KTCA-TV

Mondays, January 1, 11, 18; 9:00-9:30 p.m. "Architecture I: New Concepts in Housing" with Professor Walter K. Vivrett of the School of Architecture, and Professor Niklaus Morgenthaler, Visiting Professor from Switzerland.

Mondays, Beginning January 25; 9:00-9:30 p.m.—"Modern Math for Parents" with Dr. Ruth Hoffman—A KBMA-TV and Denver Public School Video Tape Series Mondays, 9:30-10:00 p.m.—"World Affairs" with Professor Norman Craig of the School of Public Health (January 4 and 11); and with Professor Roy E. Carter of the School of Journalism (January 18 and 25.)

Tuesdays, 9:00-9:30 p.m. "Folio" with Arnold Walker of the Radio and Television Department.

Tuesdays, 9:30-10:00 p.m. "The English Poets" with Professor David Jones of the English Department.

Wednesdays, 9:00-10:00 p.m.—"American Battles" with Professor Rodney C. Loehr of the History Department.

Thursdays, 9:00-9:30 p.m.—"Going to College" with Professor Paul Cashman of the Rhetoric Department.

Thursdays, 9:30-10:00 p.m. "Town and Country" with Professor Ray Wolf of the Institute of Agriculture.

Fridays, 9:00-10:00 p.m.—"The American Indian" with Professors Robert F. Spencer and Elden Johnson of the Anthropology Department.

* Reservations may be made at 105 Northrop Auditorium.

Tickets for these events are also available at Dayton's and Field-Schlick on Monday of the week prior to performance.

University of Minnesota Calendar of Events

January 16-31, 1965

UNIVERSITY ARTISTS COURSE

Masterpiece Series

Northrop Auditorium, 8:30 p.m.

Wednesday, January 27—Alexander Brailowsky, Pianist: Ticket prices \$2.00, \$2.50, \$3.00, \$3.50, \$4.00 *

Special Concerts

Sixth Annual Bach Festival †

Thursday, January 21—Chamber Music Concert, 8:30 p.m., Architecture Court: \$2.50

Saturday, January 23—Lecture-Recital, 8:00 p.m., Coffman Memorial Union: \$1.50

Sunday, January 24—"St. John Passion," with 200 voice Festival Chorus, orchestra, soloists: \$2.00 and \$3.00

Monday, January 25—Heinrich Fleischer in organ recital, 8:30 p.m., Grace Lutheran Church; No admission

Greek Week Benefit

Saturday, January 30—Chad Mitchell Trio, Ticket prices \$2.00, \$2.50, \$3.00, \$3.50, \$4.00 *

MINNEAPOLIS SYMPHONY ORCHESTRA

Stanislaw Skrowaczewski, Music Director

Northrop Auditorium, 8:30 p.m.

Tickets \$2.75-\$5.00

Friday, January 22—Max Rudolf, Guest Conductor

Friday, January 29—Mary Costa, Russell Stanger, conducting

Sunday Afternoon Adventures in Music Concerts

Northrop Auditorium, 4:00 p.m.

Tickets \$1.50-\$2.50

Sunday, January 31—Ferrante and Teicher, Russell Stanger, conducting

ATHLETIC DEPARTMENT EVENTS

Basketball

Williams Arena

Saturday, January 23—Ohio State University, 8:00 p.m. (Single tickets \$2.00. Single game ticket sale begins Monday before each game at Cooke Hall, at the Minneapolis Downtown Ticket Office, and at Field Schlick in the St. Paul loop, Har-Mar Mall, and Highland Village.)

Gymnastics

Cooke Hall

Saturday, January 23—Michigan State and Iowa State University, 2:00 p.m.

Saturday, January 30—Southern Illinois University, 2:00 p.m. General admission \$1.00, sold at gate only.

Hockey

Williams Arena

Saturday, January 16—Michigan Tech, 8:00 p.m.

Friday, January 29—University of North Dakota, 8:00 p.m.

Saturday, January 30—University of North Dakota, 8:00 p.m. (Single tickets \$1.75. Single game ticket sale begins Monday before each game at Cooke Hall, at the Minneapolis Downtown Ticket Office, and at Field-Schlick in the St. Paul loop, Har-Mar Mall, and Highland Village.)

Swimming

Cooke Hall

Saturday, January 23—Ohio State University, 2:00 p.m.

Saturday, January 30—Iowa State University, 2:00 p.m. Reserved tickets sold in advance, \$1.50; General admission sold at gate, \$1.00.

Wrestling

Williams Arena

Friday, January 29—University of Nebraska, 7:30 p.m. General admission \$1.00, sold at gate only.

Track

Field House

Saturday, January 23—Iowa State University, 1:30 p.m.

Saturday, January 30—Northwestern University, 1:30 p.m. General admission \$1.00, sold at gate only.

UNIVERSITY THEATRE PRODUCTIONS

Scott Hall Auditorium Series

Thursday, January 28, 8:00 p.m.; Friday, January 29, 8:00 p.m.; Saturday, January 30, 8:00 p.m.:—Julius Caesar by William Shakespeare, directed by Kenneth L. Graham; Ticket prices are \$1.75 for shows on Sunday through Thursday; \$2.00 on Friday and Saturday.

Classics Series

Shevlin Hall Arena Theatre

Thursday, January 21—Saturday, January 23: Tuesday, January 26—Sunday, January 31: Play to be announced; Ticket prices are \$1.25 for shows on Sunday through Thursday; \$1.50 on Friday and Saturday.

CONVOCATIONS

(Open to the public without charge.)

Northrop Auditorium, 11:30 a.m.

Thursday, January 21—Four University students who traveled abroad last summer under SPAN (Student Project for Amity Among Nations) will present slides and describe their travels.

Thursday, January 28—Carl Rowan, Director of United States Information Agency (Greek Week Convocation).

* Reservations may be made at 105 Northrop Auditorium.

Tickets for these events are also available at Dayton's and Field-Schlick on Monday of the week prior to performance.

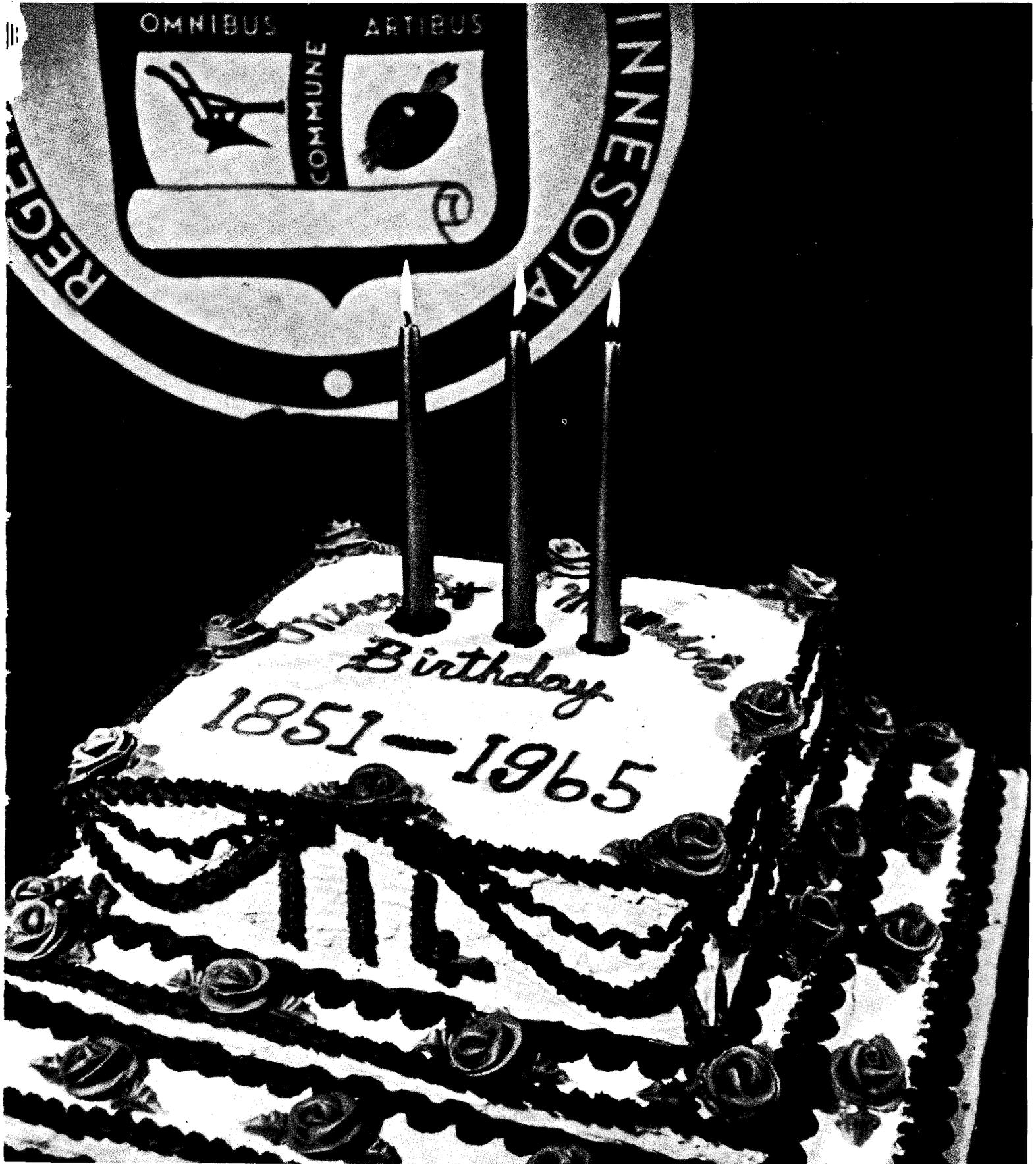
† Tickets are available now from Bach Society members or by mail from the Artists Course Ticket Office, 105 Northrop Auditorium.

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University of Minnesota
Minneapolis, Minnesota 55455

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THE MINNESOTAN

The University Staff Magazine - February 1965





The President's Page

During their first century, the land-grant institutions concentrated their efforts to educate people and to disseminate scientific knowledge for the betterment of man's estate upon the states that supported them and upon the United States of America. As their second century opens, these institutions are being called upon to serve a broader public need. The University of Minnesota as a land-grant institution is a part of this policy development to meet the needs of modern times. In order to serve the national welfare best, we must provide a curriculum which will introduce people both here and abroad to other cultures and a service program which will help to develop institutions in emerging nations.

During the past three years, we have worked hard to define our objectives in international education. We have tried to focus our energies on developmental work that will improve our relations with other countries and enlarge our opportunities to encourage cultural understanding within an academic framework. As our international programs have grown, we have felt it necessary to create administrative machinery to superintend existing overseas operations and to develop fresh opportunities — opportunities, however, which must be pursued only in accord with the University's own priorities. These priorities must be determined by our own internal abilities and interests.

During the past year and a half, substantial progress has been made in defining our international interests and in developing program opportunities. A detailed description of our most recent major commitments appeared in *The Minnesotan*, January, 1965. In addition to the Ford Foundation grant programs described in that issue, we are currently cooperating with other institutions, both public and private, to: 1) maintain agricultural specialists in Argentina and Chile; 2) support research and graduate training in economics at the Universidad de Los Andes in Bogota, Columbia; 3) support an American studies program at the University of Osmania in Hyderabad, India; 4) support a faculty exchange in social science among Latin American and American institutions; 5) train experts in ground water development; 6) conduct Peace Corps programs in Pakistan and India; 7) provide a Foreign Serv-

ice Training Program for Americans who plan to work abroad; 8) encourage student exchange with universities abroad; 9) exchange scientific and cultural materials with the University of Iceland in Reykjavik. While this list is not exhaustive, it indicates the wide range of our involvement.

Most of the above activities provide for some sort of faculty exchange with institutions abroad or create opportunities for individual consultation or individual scientific research that has direct impact upon the foreign nations involved. Our own corps of international scholars should be strengthened by this intimate contact with the problems of other countries and should get a much more clear understanding of problems than might be possible by strictly documentary study. It is hoped that the entire faculty will become more deeply committed to international studies because of the University's involvement in these programs.

It seems proper to say that the expanding interests of the University of Minnesota have made our faculty a major resource for the Agency for International Development and other organizations, and at the same time our faculty members have been made substantially more aware that their specialties — whether history, economics, politics, or science — can be confined to nothing smaller than the whole world. We are confident that this fresh interest in international affairs will both improve the University's curriculum and increase its opportunities for service.

Meredith Wilson

On the cover . . .

is the University of Minnesota's 114th birthday cake which will be cut during the Charter Day Convocation in February as part of University of Minnesota Week. Prepared early so it could appear on *The Minnesotan* cover, the cake is now being preserved in the baker's freezer. Proof of the statement that we'll have our cake and eat it too. See story on page 9.

VOL. XV THE MINNESOTAN No. 4

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Boards of regents, or boards of trustees, are peculiarly American institutions. Such lay boards, according to American educators, create greater stability and a closer relationship between citizens and their institutions of higher learning. Because early colleges in this country were largely theological institutions, the first boards were composed mainly of ministers. Today, there are 35,000 people serving as trustees or regents of colleges and universities in the United States.

The Board of Regents has always been an integral part of the University and the State of Minnesota. The by-laws by which the board governs today often refer to the University's charter made in 1851. Many of the individuals who were deeply involved with the making of early Minnesota history were also involved with the beginning of the University. Governor Alexander Ramsey, in his second message to the territorial legislature, urged the creation of a state university. After provision for its establishment was made, Franklin Steele served as first president of the newly created Board of Regents. It was Mr. Steele who made the decision to locate the University on a bluff near the Falls of St. Anthony. "The romantic beauty of whose bank surpasses that of the Hudson." Henry H. Sibley, William G. LeDuc, Henry Rice, and Reverend Mr. E. D. Neill were all public-spirited citizens of the pioneer days who served the early University, and who had a great faith that higher education was a way to a better life.

When the State Constitution of 1859 was adopted, it followed the pattern of the Territorial Act of 1851 and made the University Board of Regents a constitutionally independent authority. Over the years, this raised the question whether or not the University was an agency of the state government. The issue was finally decided in 1928 by the Supreme Court of Minnesota in the Chase Decision. The opinion of the court was that "the purpose of the constitution remains clear. It was to put the management of the greatest state educational institution beyond the dangers of vacillating policy, ill-informed or careless meddling, and partisan ambition that would be possible in the case of management by either legislature or executive, chosen at frequent intervals and for functions and because of qualities and activities vastly different from those which qualify for the management of an institution of higher education." And in another quotation, "The whole power to govern the University was put in the Regents by the people -- no part of it can be put elsewhere but by the people." The Chase Decision makes clear that the Board of Regents legally bears responsibility for all aspects of the institution's operations.

The Regents at Minnesota have always taken their responsibilities seriously. This was true even during the early days when they decided whether a new gas lighting system was to be installed, whether the chemistry lab needed a certain piece of new equipment, and whether a teacher's salary was to be cut. It is told that Father of the University John Pillsbury once asked to be excused from an important meeting of international milling executives because he was "due at a Regents' meeting."

Today's Regents are equally conscientious. Although many of them are men with far-flung commitments, almost all of them give much of their time to University related business, in addition to regular attendance at monthly meetings in the Regents' Room on the second floor of Morrill Hall.

The present board consists of twelve members - three



THE BOARD OF REGENTS

by Marjorie J. Howard *

businessmen, three lawyers, one banker, one newspaper executive, one labor leader, one farmer, one doctor, and one housewife. Two of these men have served in the State Legislature, several others also have political backgrounds, but as long as I have served on the board, decisions have never been made on the basis of political considerations. Judgments are made on the basis of what is best for the University.

The officers of the Board of Regents are the president (President O. Meredith Wilson); a first vice president, known as the chairman of the board (Dr. C. W. Mayo); a second vice president, known as vice chairman of the board (Mrs. Marjorie Howard); a secretary (Vice President Laurence R. Lunden); and a treasurer (Treasurer Clinton T. Johnson).

Also attending meetings are Vice Presidents William G. Shepherd and Stanley J. Wenberg, and staff members who are especially concerned with business before the board. Recently, the Regents' Room was enlarged to also accommodate the press.

A meeting of the Board begins with what seems to be perfunctory consideration and approval of appointments, retirements, terminations, salary adjustments, leaves of absence, land acquisitions, gifts, contracts, and applications for contracts. However, this is not as perfunctory as it may seem. Before each meeting, the Regents receive a detailed docket (often several hundred pages in length) to study and prepare questions from if necessary. Many of the items on the docket are routine administrative matters and are approved without discussion, exemplifying the willingness of the board to endorse the judgment of the administration. But there are always some items on the docket which raise questions or objections and call for explanatory comments.

The University of Minnesota has the reputation in educational circles of having a stable Board of Regents. In some states there seems to be a continual war between the administration and the regents or trustees. This is not so here. Here there is an atmosphere of mutual respect and confidence between the members of the board and the members of the administration. Neville Sanford in his *The American College* states, "Liberal and outspoken faculty

(continued on page 10)

* (Editor's Note -- Mrs. Marjorie J. Howard is the fourth woman to serve on the Board of Regents in its 114-year history. Mrs. Howard, who has a long record of public service, was elected to the Board in 1953, and at present she is its vice chairman. We have asked her to write this story about the Board to inform staff members of the extensive responsibilities it holds and its historical importance at the University.)



Alan Ominsky

Regent William K. Montague, a consultant for Reserve Mining Company, was elected to the Board in 1963. His collection of rare historical and other books has been presented to the Duluth Campus library. An author himself, he has written a book on Shakespeare, and also a humorous history of golf.



Regent Gerald W. Heaney was appointed in 1964 by Governor Rolvaag to serve during the uncompleted term of Regent A. J. Olson until the 1965 Legislative session. He received his law degree from the University in 1941 and is now a Duluth attorney.

WE

The Regents of the University



Alan Ominsky

The only feminine member on the Board is **Mrs. Marjorie J. Howard**. She is a housewife, an active promoter of higher education for women "so they can adequately educate their families," a former vice president of the Minnesota League of Women Voters, and a graduate of the University. She has been a Regent since 1953 when she was appointed to fill the unexpired term of Mr. J. S. Jones when he died.



Besides being a Board member, **Regent A. I. Johnson** is a Benson realtor. He is a former member of the State Legislature having served nine terms in the House of Representatives. Regent Johnson was elected to the board in 1959 for a full term.



Regent Herman F. Skyberg is now serving his third six-year term on the Board. He was elected by the Legislature in 1949. He attended the Northwest School of Agriculture and now is a Red River Valley small-grain and potato farmer and long-time leader in various Minnesota farming organizations.



Alan Ominsky

Regent Fred J. Hughes, a St. Cloud attorney, is a former member of the state Board of Tax Appeals, and the state Fair Employment Practices Commission. He graduated from the University in 1934. Regent Hughes was appointed to the Board in 1961 upon the death of Mr. Ray J. Quinlivan. In 1963 he was elected by the Legislature to serve a full term.



Alan Ominsky



Alan Ominsky

Regent Daniel Gainey is president and chairman of the board of Josten's, Inc. in Owatonna and is also one of the world's great breeders of Arabian horses. He is a graduate of Hamline University and has been a Regent since 1939.

Regent Bjarne E. Grottum was elected to the Board in 1961 for a six-year term. He has served as Jackson county attorney and as a state senator, and is now president of the First National Bank of Jackson. He is chairman of a committee to study acceleration of college degree programs throughout the country. He is a graduate of the University of Minnesota Law School.



As a University student, **Regent Lester A. Malkerson** played on the hockey team and headed a committee that recommended building a student union. At present he is an automobile dealer and also runs a 900 acre farm and cattle ranch near Chaska. He was elected to the Board by the Legislature in 1951.



Dr. Charles W. Mayo, chairman of the Board, is known the world over for his activities in medicine and in the United Nations. He is professor emeritus of surgery of the Mayo Graduate School of Medicine. His extensive activities in the fields of education, science, and public service have resulted in high appointments and honorary awards. He has served on the Board since 1951.



Alan Ominsky

Regent Robert E. Hess was president of the state CIO and later became executive vice president of the CIO-AFL when the national labor federations merged in 1956. He was appointed to the Board in 1959 to fill the vacancy left by the death of Mr. George W. Lawson; he was later elected to a six-year term.





COMMITTEE ON INSTITUTIONAL COOPERATION

Transcending Traditional Rivalries

Eleven Universities Work Together

On the football field or basketball court, the Big Ten universities* battle in fierce competition. But in the classroom the same schools, along with a former Big Ten member, the University of Chicago, have built-up an educational exchange system aimed at making the conference stronger academically.

This exchange is the work of an organization known as the Committee on Institutional Cooperation (CIC), formed in 1958 to encourage voluntary cooperation among the eleven schools.

CIC, comprised of one administrative officer from each member university, aims to identify areas of teaching and research which might be too costly or too specialized for individual universities to undertake, and encourage cooperative ventures in these fields, thus avoiding costly duplication of efforts and expenditures.

Stanley J. Wenberg, vice president for educational relationships and development, is the University of Minnesota CIC representative. Vice President Wenberg has long been an active promoter of inter-institutional cooperation and was a principal founder of CIC.

According to a survey made under the auspices of CIC registrars, the eleven CIC universities, less than 1% of the 1,120 United States institutions which grant bachelor's degrees or higher, account for one of every twelve such degrees awarded in this country. This organization of universities grants thirty per cent of all doctoral degrees conferred in the United States. "In the light of these facts," said Vice President Wenberg, "cooperative achievements of CIC cannot help but have far-reaching implications."

Former University Professor of Geography John C. Weaver is the present

chairman of CIC. Professor Weaver, who is now Vice President and Dean of Faculties at Ohio State University, has said, "It is not the individual university that will be central in the minds of the educators of tomorrow, rather it will be *galaxies* of universities. One such inter-institutional galaxy is our powerful CIC."

The University has participated in several varied CIC programs. One of these is the committee's new and widely praised traveling scholar program.

Since September, 1963, graduate students have been able to cross institutional lines for a semester (or two quarters) of work at another CIC school. By enabling students to take advantage of the library collections, research laboratories, and specialized courses offered by other member institutions, CIC universities hope to concentrate on building their own strengths while avoiding unnecessary duplications.

To date, Minnesota has sent four students under this program to the University of Michigan and one student to the University of Chicago. Three students, from Ohio, Michigan State, and Illinois, have come to Minnesota as traveling scholars.

The plan is designed to offer broad opportunities with a minimum of red tape. The visiting student is registered at his home university and pays his fees there.

Dean of the Graduate School Bryce Crawford is responsible for the traveling scholar program at the University. According to a spokesman in his office, the Graduate School is "very satisfied" with the young program. Small procedural difficulties have been easily solved, and reception of visiting students has been excellent, he said.

Latest figures report that forty-one traveling scholars from the eleven institutions have participated in the program.

A proposal by CIC professors of Chinese and Japanese to pool regional talents in staffing a series of summer

institutes resulted in a grant from the Ford Foundation to support the venture. The first institute was at Michigan in 1963. Such an institute is planned to possibly be held at Minnesota in either 1966 or 1967.

The University's Department of Geology has contact with CIC in three ways. First, explained Professor Tibor Zoltai, chairman of the department, geology chairmen from CIC universities have met numerous times over the past three years to discuss common problems. "Special emphasis is placed on collaboration in research projects, laboratory facilities and special equipment," he said.

Second, the department has had two CIC traveling scholars. The first was here to study isotope geology, and the second is now studying geomorphology.

The third CIC geology project in which the University is involved concerns a special committee appointed by geology department chairmen to study development and exchange of special field materials on tape and film. "Their availability will be a great help to geology instruction," said Professor Zoltai. "Development of the films will be a joint effort by several geologists," he said.

Interest in reviving studies of physical and cultural geography that had been dropped in the 1930's was expressed at a CIC meeting in 1960. The result was the creation of a program of faculty field seminars and graduate student field camps which have since been held each summer by faculty members and graduate students in geography from the University of Wisconsin, Iowa, and Minnesota. "Despite the mechanical problems which have arisen," said Professor Fred E. Lukermann, chairman of the Department of Geography, "collaboration of similar ideas at the faculty level has been excellent. CIC has been an instrument for cooperation allowing faculty channels to operate," he said.

Funds for the support of the camps and seminars have been allocated from

(continued on page 10)

* Illinois, Indiana, Iowa, Michigan, Michigan State, Minnesota, Northwestern, Ohio State, Purdue, Wisconsin.

THE INCREASING ACCIDENT RATE

University staff members suffered 1,289 injuries during the 1963-1964 school year. One hundred and forty-eight of these accidents were disabling, causing those injured to miss one or more days of work, an increase of 3.7 per cent over the previous year.

The increase in the size of the University accounts for the increase in disabling injuries, according to Associate Professor Gus L. Scheffler, safety engineer of the Department of Environmental Health and Safety.

Professor Scheffler and Safety Engineer Norman V. Steere are directly concerned with improving University conditions to assure safety.

The need to crowd more and more people into the same amount of physical space is bound to cause some problems, explained Professor Scheffler. Also, he said, the highest accident rates are in departments in which the same number of employees are expected to handle a heavier work load without a corresponding increase in forces.

Accidents occur most frequently in academic buildings, laboratories, service buildings, on-campus grounds, and out-state stations. The highest accident rates are held by personnel in Plant Services, University Hospitals, and the Institute of Agriculture.

Whenever an accidental injury occurs, the University Police Department is called, according to Captain of Po-

How hard is a hard hat? Professor Gus Scheffler, safety engineer, demonstrates with a hammer.



lice John Brooker. All policemen have been trained in basic first aid techniques, he said, and movable emergency equipment is available.

If the injury is serious the police ambulance is used. Assistant Director of the Police Department A. R. Vernes said that the Department made 114 ambulance calls in 1964. The ambulance was acquired two and one half years ago and since then the Department has been able to offer "speedier and better service to the University," he said.

The types of injuries which most often appear suggest that proper methods of lifting and handling heavy loads, actions which may prevent falls, especially in winter, and careful use of power tools and equipment should be important considerations in accident prevention.

For Plant Services personnel there is a well-defined accident prevention program. Meetings which stress aspects of accident prevention are held once each month for supervisors and department heads. Demonstrations of new preventive equipment are given and the information is then passed on to employees who will benefit by it. Equipment such as eye shields, gloves, masks, and hard hats is available to all employees upon request.

Professor Scheffler commented that hopefully all University department supervisors who request Plant Services employees for any jobs warn them of the hazards involved and explain the precautions necessary to avoid danger. Working with chemicals, bacteria, or explosives, or in areas where there are fumes or broken glass requires special caution. But if employees are not told of the hazardous conditions, accidents are more likely to occur.

A definite attempt is also made to eliminate existing hazards by changing dangerous techniques and encouraging safety education.

For example, in recent years the use of carbon tetrachloride for cleaning purposes has been nearly eliminated at the University because it is dangerous to handle.



The University Police Department's well-equipped ambulance is used for emergency calls on or near campus.

"Our aim is to make the environment as safe as possible so that no matter what the act of the individual, there is some hope he will not be injured," said Professor Scheffler.

Staff members are urged to cooperate by immediately reporting accidents, injuries, fires, and other emergencies to a University operator who will then notify the proper departments and authorities.

This can be done by dialing "0" from the Minneapolis Campus or "80" from the St. Paul Campus.

Mrs. Maxine Lindberg, University telephone supervisor, said that operators are prepared to handle emergency calls quickly and efficiently. Operators will usually connect the caller directly with the Police or Fire Department, but will monitor the call and keep a record of the type of emergency, as well as notify various departments.

If it is not possible for the caller to be connected directly to the department, the operator will take the information and make all calls. For example, said Mrs. Lindberg, if the emergency were a fire on campus the operator would notify the Fire Department, the Police Department, Building Maintenance, Professor Scheffler, and the University News Service.

The Department of Environmental Health and Safety then begins an immediate investigation of all serious injuries and emergencies to determine the causes and to develop preventive methods.



Professor Tate

Poet Joins Highest Academy

Professor of English Allen Tate, poet and critic, has been elected to the American Academy of Arts and Letters, the country's highest honor society of the creative arts.

Professor Tate was one of four newly elected members who took their seats at the Academy's annual meeting December 11 in the Academy Building in New York City.

Professor Tate joins novelists Robert Penn Warren and Sinclair Lewis as the only Minnesotans (by birth or affiliation) elected to the Academy in its fifty-year history.

The Academy is a select group of fifty of the nation's outstanding artists, architects, writers, and musicians chosen on the basis of eminent achievement for the advancement and protection of the arts in the United States.

This is the fourth straight year Professor Tate has received a special honor for his writing achievements. In 1963, he received the annual award of the Academy of American Poets. The year before, he won the Gold Medal of the Dante Alighieri Society of Florence, Italy. Brandeis University awarded him its 1961 Medal in Poetry. In addition, he holds five honorary degrees and has received the 1956 Bollingen Prize in poetry from Yale University and the 1958 Christian Culture Award Gold Medal. On his sixtieth birthday, in 1959, he was honored by twenty contemporary writers in the *Sewanee Review*, a distinguished literary quarterly that he edited in 1944-46.

Professor Tate has been a Guggenheim Fellow and twice has studied abroad on Fulbright grants. He also is a Fellow in American Letters of the Library of Congress.

Morris Campus Ground Broken For New Residence Hall

The first new building to be constructed on its campus since the University of Minnesota, Morris, was established is scheduled for completion next fall.

A 120-student residence hall is being financed entirely by loan funds from the Federal Housing and Home Finance Agency. The loan will be repaid with income earned by the dormitory.

Turning the first shovelfuls of dirt in a recent ground-breaking ceremony were Dean of the Morris Campus Rodney A. Briggs, President of the West Central Educational Development Association E. J. Morrison, Representative of the West Central School and Experiment Station Leslie Lindor, Morris Campus graduate Donald Sherman, Director of Housing Theodore Freed, President of the Morris Campus Student Association Donald Henneman, and Director of Plant Services Donald Johnson.

The residence hall is the first of several units planned for eventual construction on the south side of the campus. According to Dean Briggs, dormitory construction is an essential factor in the growth of the Morris Campus. Seventy-one per cent of the stu-



Dean Rodney A. Briggs turns the first shovelful of earth at ground-breaking ceremonies for UMM's first new building—a 120-student residence hall.

dent body now comes from beyond commuting distance and must be housed either on campus or in rented rooms in the community of Morris. All indications are, said Dean Briggs, that this percentage will rise so that future growth will depend on availability of housing as well as on new academic facilities.

Myers Resigns

Dean to Head Tropical Institute

Dean of International Programs Will M. Myers has resigned to accept a position with the Ford and Rockefeller Foundations. His resignation was effective December 31.

Dean Myers, former head of the Department of Agronomy and Plant Genetics, will direct the establishment and initial operation of a multi-million-dollar international tropical agricultural research institute financed by the foundations. The institute will attempt to find ways of developing the food-producing potential of the world's tropical rain forests.

The new institute will probably be located in Africa, said Dean Myers. The site currently being considered by the foundations is in Nigeria.

Dean and Mrs. Myers left January 1 for the Philippines where he was to visit an in-

ternational rice institute that will serve as a prototype for the new tropical institute. From the Philippines, the Myerses will travel to India and Nigeria before returning to the United States.

Professor Charles H. McLaughlin, chairman of the Political Science Department, has been named to direct the office of international programs with the assistance of an executive committee, until a successor to Dean Myers is appointed. The committee members are coordinators of international programs in the Institute of Agriculture, the College of Education, and the College of Liberal Arts, respectively. They are Professor of Agricultural Economics John Blackmore, Professor of Agricultural Education Gordon I. Swanson, and Professor of History Harold C. Deutsch.

THE BENEFACTORS

Mrs. George Chase Christian

In 1949 when Dr. Harold S. Diehl, then dean of the College of Medical Sciences, presented Mrs. George Chase Christian with the University's Builder of the Name Award* he said it was her support of cancer research which laid the foundation for the University's now famous cancer program.

Mrs. Christian's benefactions for cancer research were given over a period of more than twenty-five years as a memorial to her husband who died of cancer in 1919.

Mrs. Christian donated \$250,000 through the Citizens Aid Society for construction in 1924 of the Christian Wing of University Hospitals. This was to be the location of the Cancer Research Institute as part of the Department of Surgery. She also bought four X-ray machines for the Institute's use.

The Cancer Research Institute no longer exists under that name, but because of the enthusiasm it created, it is said by some to have been the forerunner of today's Cancer Detection Center, VFW Cancer Research Center, and Masonic Memorial Hospital.

Mrs. Christian was president for twenty-five years of the Citizens Aid Society, founded in 1916 by her father-in-law, the late George H. Christian. When the society disbanded in 1946, it gave \$89,000 to the Mayo Memorial Building, to which Mrs. Christian added \$10,000.

She also established a George Chase Christian Professorship of Cancer Research which was held by Dr. John J. Bittner and existed until his death in 1961.

A great philanthropist for nearly half a century, Mrs. Christian died December 13, 1964.

Her will allows for \$250,000 to be divided between the medical, surgical, and research departments of the University's College of Medical Sciences.

Born Carolyn McKnight in Denver, Colorado, she came to Minneapolis as a child. In 1897 she married George Christian, milling executive and man-



Mrs. Christian

ufacturer. When Mr. Christian died he was president of the Century Milling Company.

Mrs. Christian was honorary chairman of the Women's Crusade, organized in the 1930's to educate Minneapolis women about the social service needs of the city. She was the recipient of the Council of Social Agencies' Outstanding Citizen Award and the Interracial Council Honor Medal.

In 1929 she was one of twelve Minneapolis citizens elected to the American Civic Association in Washington, D.C., for their work in public service. In 1955 the Young Women's Christian Association named her one of twenty-one outstanding women leaders in the city.

Mrs. Christian's public-spirited benefactions included substantial gifts to hospitals, churches, colleges, and the arts.

In 1952 a Minneapolis editorial read: "Philanthropy is much more than giving money away: it is giving money with a wisdom and love of humankind which builds, heals, beautifies and challenges. Mrs. Christian's philanthropies are of that kind, and Minneapolis is proud and fortunate to claim her as a daughter."

In many ways, the University of Minnesota has demonstrated that it too is proud of Mrs. Christian.

Cover Story

'U' Celebrates 114th Year With Displays, Speeches, Convocation, Cake

This month the University is 114 years old. An official week-long birthday party called University of Minnesota Week will be held February 21 through 27. This celebration has been held annually since 1948 to advance understanding of the University by state residents.

Co-sponsoring the event with the University are the Minnesota Junior Chamber of Commerce and the Minnesota Alumni Association.

Exhibits, speakers, and a Charter Day Convocation will highlight the week. Each will advance this year's theme, The University Serves The State.

Several University departments on all four campuses will participate by placing window, wall, and lobby displays in Minnesota business establishments.

University staff members have been urged to volunteer to make speeches at various business, civic, and alumni organizations throughout the state.

The Charter Day Convocation will commemorate the University's charter created by the Territorial Legislature and approved in February, 1851. A program of great interest is being planned, but details were not completely confirmed by the publication date of *The Minnesotan*. Announcement of date, time and featured guests will be made as soon as possible. The Convocation will include the traditional birthday cake-cutting ceremony (see cover).

Directing the plans are Mr. John Leroux of the Jaycees. Cooperating in these plans are University staff members representing the Minnesota Alumni Association, the Audio Visual Education Service, KUOM, the Agricultural Extension Service, the student unions, the Duluth and Morris campuses, and the Department of University Relations.

* (Now called the Regents Award.)



University Police marksmen pose with trophies. From left to right, Officers Charles Averill and Donald Wiebe, Lieutenant Arthur Kirby, Officers Arlick Anderson and Ronald Stanford.

Sharpshooting Police Team Wins Contest

The University Police pistol team won trophies in sharpshooting with other law enforcement officers recently. The five man team captured five individual awards and one team trophy at a Bloomington invitational meet.

The eight month-old team is captained by Patrolman Arlick Anderson. Lieutenant Arthur Kirby is the team's instructor.

The marksmen represent University Police in competition with other Minnesota Police teams. They compete monthly in the Suburban Police Association shoot.

Using .38 caliber revolvers, the team members compete for team and individual points in slow time and rapid fire sharpshooting events.

Practice is held every Friday in the Armory's first-floor shooting range.

Regent's Responsibilities Important

(continued from page 3)

members quite generally see trustees in a minatory role and feel that the trustees should raise money, build buildings and then go away." There is little of this feeling at Minnesota of which I am aware.

Is the board a rubber stamp? If the alternative would be a board that is suspicious, obstructive, and haggling, surely it is clear which kind of board best serves the interests of the University and the people of the state. To choose an able administration (the most important responsibility of the board is the choosing of University Presidents), to scrutinize the President's proposals with care, and to back his proposals only with clear understanding and agreement are the proper exercises of a Regent's responsibility. Someone has said that "trustees must sail the difficult course between the rocks of arbitrary authority and the shoals of abdicated responsibility."

The members of the board are elected by the Legislature (unless a vacancy occurs between legislative sessions, at which time a Regent is appointed for the interim by

the governor). As representatives of the citizens of the state, part of the Regents' job is to see that the University gets adequate financial support. The Regents approve the biennial budget that is submitted to the legislature.

Our present University is the result of the imaginative vision of our frontier ancestors. It represents their dedication to higher education and their faith in a state public institution of higher learning. Throughout the hundred and more years of its existence, the board that they created, I believe, has successfully carried out its task as custodian of Minnesota's most valuable resource and its hope for the future—our University.



CIC: Progress in Achievement, Support

(continued from page 6)

the summer session budgets of participating schools. Initial money to begin the program came from CIC, according to Professor Lukermann. Early negotiations in Minnesota's participation in the program were made by Professor Eugene Mather, former chairman of the Geography Department.

In 1963, with the help of a U.S. Public Health Service grant, CIC began a cooperative approach in the graduate training of specialists in biometeorology, or the effects of weather on man, animals, and plants.

Professor Alexander C. Hodson, head of the Department of Entomology, Fisheries, and Wildlife, explained that Minnesota will participate in the program by inviting these CIC specialists to do field biology studies at Lake Itasca Forestry and Biological Station. Also, a University student in soil sciences is the recipient of a fellowship to take special meteorology courses at Wisconsin next year.

A complete listing of CIC's cooperative activities would cover virtually all academic fields. Just some of its other major programs include planning studies of lagging economic growth in the Midwest, and cooperation in physical, biological, and social sciences, and humanities.

The progress of CIC is evidenced not only by its achievements, but also by its support. In 1958, the funds for basic cooperative planning were assured by a five-year grant from the Carnegie Corporation of New York. Four years later, the eleven participating universities provided CIC with financial support for the operation of the CIC staff office, located on the Purdue campus. This office functions as a clearinghouse, a fact-finding agency, a communications center, and a source of personal contact for the project members. A new four-year Carnegie award for modest "seed" grants has helped faculty groups get cooperative ventures underway in anticipation of obtaining additional funds from other sources.

Once a project is functioning and the lines of communication and organization are established, CIC withdraws, ending its relationship with the project. The future of CIC thus remains in the hands of the faculties and administrators it was formed to serve.

PUBLICATIONS

A View of Social History in Education, by Professor of Education Robert H. Beck was published by Prentice-Hall in January.

"Verses in the Modern Manner," a poem by Professor of Electrical Engineering William Fuller Brown, Jr., appeared in the December issue of *ETC.—A Review of General Semantics*.

University of Minnesota Calendar of Events

February 1-15, 1966

ATHLETIC DEPARTMENT EVENTS

Basketball

Williams Arena

Tuesday, February 2—Northwestern University 8:00 p.m.
 Saturday, February 13—Illinois (Televised 3:30 p.m.). (Single tickets \$2.00. Single game ticket sale begins Monday before each game at Cooke Hall, at the Minneapolis Downtown Ticket Office, and at Field-Schlick in the St. Paul loop, Har-Mar Mall, and Highland Village.)

Hockey

Williams Arena. 8:00 p.m.

Friday, February 5—University of Minnesota (Duluth)
 Saturday, February 6—University of Minnesota (Duluth)
 Monday, February 15—U. S. Nationals (Special game). (Single tickets \$1.75. Single game ticket sale begins Monday before each game at Cooke Hall, at the Minneapolis Downtown Ticket Office, and at Field-Schlick in the St. Paul loop, Har-Mar Mall, and Highland Village.)

Gymnastics

Cooke Hall

Saturday, February 6—Illinois-Michigan 2:00 p.m. General Admission sold at gate, \$1.00

Track

Field House

Saturday, February 6—Northwest Open Meet. 9:30 a.m. General Admission sold at gate, \$1.00

Wrestling

Williams Arena

Monday, February 1—Cornell College 7:30 p.m.
 Friday, February 5—Cornell University 7:30 p.m.
 Saturday, February 6—Indiana-Michigan State University & Mankato State College 1:00 p.m. General Admission sold at gate, \$1.00

UNIVERSITY GALLERY EXHIBITIONS

Northrop Auditorium

8:30 a.m.-4:30 p.m.

Monday through Friday

2:00 p.m.-5:00 p.m.

Sunday afternoons of February 7, 14, 21

Monday, February 1 through Monday, February 8—Frank Pearson Recent Paintings, Gallery 405
 Sunday, February 7 through Sunday, March 7—Ernst Josephson, 1851-1906, Gallery 307, 309, 315
 Sunday, February 7 through Saturday, March 20—Warren Mackenzie: Pottery, South Gallery

CONVOCATIONS

(Open to the public without charge.)

Northrop Auditorium, 11:30 a.m.

Thursday, February 4—To be announced.
 Thursday, February 11—Alrik Gustafson, Professor and Chairman, Department of Scandinavian, University of Minnesota

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts

Stanislaw Skrowaczewski conducting

Northrop Auditorium, 8:30 p.m.

Tickets \$2.75-\$5.00

Friday, February 5—Henryk Szeryng, Violinist

UNIVERSITY FILM SOCIETY

Foreign films are subtitled and shown at the Museum of Natural History at 3:30 and 8:00 p.m. unless otherwise indicated. Admission is \$1.75, or \$3.50 for six shows.

Friday, February 5—"Love in the City" (1953, Italy); "Voyage in Italy" (1954, Italy)
 Friday, February 12—"The Lower Depths" (1958, Japan); "The Most" (1963, American) No 3:30 showing.

UNIVERSITY ARTISTS COURSE

Special Concert

Northrop Auditorium, 8:00 p.m.

Saturday, February 20—Parade of Quartets (Heart Hospital Research Benefit); Ticket prices \$2.00, \$2.50, \$3.00, \$3.50, \$4.00*

Masterpiece Series

Northrop Auditorium, 8:30 p.m.

Tuesday, February 2—Ballet Folklorico of Mexico; Ticket prices \$2.00, \$3.00, \$4.00, \$4.50, \$5.00*

Celebrity Series

Northrop Auditorium, 8:30 p.m.

Tuesday, February 9—Peter Nero with orchestra (substitute for Mantovani); Ticket prices \$2.00, \$3.00, \$3.50, \$4.00, 4.50*

Special Concerts

Northrop Auditorium

Monday, February 1—*World Preview of Passages* from James Joyce's *Finnegans Wake*, a film by Mary Ellen Bute, based on the play by Mary Manning, 8:30 p.m. Requests for free tickets are to be sent to the University Artists Course, 105 Northrop Auditorium, with self-addressed, stamped return envelope.
 Wednesday, February 3—Ballet Folklorico of Mexico, 8:30 p.m.; Ticket prices \$2.00, \$3.00, \$4.00, \$4.50, \$5.00*
 Sunday, February 14—Brotherhood of Faiths Choral Festival, 4:00 p.m. No admission charge.

CIVIC ORCHESTRA OF MINNEAPOLIS

Thomas Nee, Conductor

Coffman Memorial Union

Thursday, February 11—Concert, 8:30 p.m. Sponsored by Classics Corner of the Union Board of Governors.

COFFMAN MEMORIAL UNION FINE ARTS GALLERY

Monday, February 1 through Friday, February 12—Women's Week Exhibit
 Monday, February 15 through Friday, March 5—Jerry Horning, Ceramics; Valerie Wentzel, Oils

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge.)

Every Tuesday, Music Hour, Scott Hall Auditorium, 11:30 a.m.

Saturday, February 6—Concert Band Ensemble, Northrop Auditorium, 8:30 p.m.

UNIVERSITY THEATRE PRODUCTIONS

Scott Hall Auditorium Series

Tuesday, February 2, 3:30 and 8:00 p.m.; Wednesday, February 3, 8:00 p.m.; Thursday, February 4, 8:00 p.m.; Friday, February 5, 8:00 p.m.; Saturday, February 6, 8:00 p.m.; Sunday, February 7, 3:30 p.m.—*Julius Caesar* by William Shakespeare; Ticket prices are \$1.75 on Sunday through Thursday; \$2.00 on Friday and Saturday.

Shevlin Hall Arena Theatre

Thursday, February 11, 8:00 p.m.; Friday, February 12, 8:00 p.m.; Saturday, February 13, 8:00 p.m.—*Wake Up in the Morning* by Mark Berman; Ticket prices are \$1.25 on Sunday through Thursday; \$1.50 on Friday and Saturday.

ST. PAUL CAMPUS STUDENT CENTER

Galleries

Sunday, 12:00 noon-11:00 p.m.

Monday through Saturday

7:00 a.m.-11:00 p.m.

Monday, February 1 through Sunday, February 7—Mary Elveng Gram and Cornelia Smith, Oils

Monday, February 1 through Thursday, February 11—Dorothy Cina, Mixed Media

Monday, February 8 through Monday, March 1—Don Celander, Stained Glass and Oils

Thursday, February 11 through Friday, March 5—Gloria Wood, Oils

Week-end Movies

Sunday, February 14—"Romanoff and Juliet"; 7:30 p.m.

SPECIAL LECTURES

Northrop Auditorium, 7:30 p.m.

1965 Minnesota Symposium, "United States in International Affairs"

Sunday, February 14—"Our Image Abroad," Henry A. Kissinger, Center for International Affairs, Harvard University
 Monday, February 15—"United States' Defense Policy: 1965-1975," Amitai Etzioni, Department of Sociology, Columbia University

MUSEUM OF NATURAL HISTORY

Sunday Programs

Museum Auditorium, 3:00 p.m.

Sunday, February 7—International Salon Slides by Dr. W. J. Breckenridge.
 Sunday, February 14—Sand Country Wildlife by Dr. W. J. Breckenridge.

* Reservations may be made at 105 Northrop Auditorium.

Tickets for these events are also available at Dayton's and Field-Schlick on Monday of the week prior to performance.

University of Minnesota Calendar of Events

February 16-28, 1965

UNIVERSITY THEATRE PRODUCTIONS

Scott Hall Auditorium Series

Thursday, February 25, 8:00 p.m.; Friday, February 26, 8:00 p.m.; Saturday, February 27, 8:00 p.m.:—*The Crown Bride* by August Strindberg; Ticket prices are \$1.75 on Sunday through Thursday; \$2.00 on Friday and Saturday.

Shevlin Hall Arena Theatre

Tuesday, February 16, 8:00 p.m.; Wednesday, February 17, 8:00 p.m.; Thursday, February 18, 8:00 p.m.; Friday, February 19, 8:00 p.m.; Saturday, February 20, 8:00 p.m.; Sunday, February 21, 3:30 p.m.:—*Wake Up in the Morning* by Mark Berman; Ticket prices are \$1.25 on Sunday through Thursday; \$1.50 on Friday and Saturday.

UNIVERSITY FILM SOCIETY

Foreign films are subtitled and shown at the Museum of Natural History at 3:30 and 8:00 p.m. unless otherwise indicated. Admission is \$.75, or \$3.50 for six shows.

Friday, February 19—“The Bicycle Thieves (1951, Italy); “The Gold Rush” (1925, American)

Wednesday, February 24—“The Gorky Trilogy, Parts I and II” (1933, 1937, Russia), No 3:30 showing. Evening showing begins at 7:30.

Friday, February 26—“Senso” (1954, Italy); “Nights of Cabiria” (1957, Italy). Evening showing begins at 7:30.

Saturday, February 27—“Gorky Trilogy, Part III,” shown at the Newman Center.

CONVOCATIONS

(Open to the public without charge.)
Northrop Auditorium, 11:30 a.m.

Wednesday, February 17—Bengt L. Swenson, designer, Skandia House Associates, 10:00 a.m., Coffey Hall Auditorium, St. Paul Campus.

Thursday, February 18—Bengt L. Swenson, designer, Skandia House Associates
Date to be announced—University of Minnesota Charter Day

SPECIAL LECTURES

Northrop Auditorium

1965 Minnesota Symposium, “United States in International Affairs”

Wednesday, February 17—“Ideology, Morality, and Foreign Policy.” Sidney Hook, Department of Philosophy, New York University, 7:30 p.m.

Thursday, February 18—“United States Foreign Policy and Image Abroad.” Roger Hilsman and Teodoro Moscoso, 7:30 p.m.

Honeywell Engineers Lecture

Sunday, February 28—Mrs. Alice Mary Hilton, President of A. M. Hilton Associates and musical entertainment by Royal Welsh Male Choir, 3:30 p.m. Requests for free tickets are to be sent to the University Artists Course, 105 Northrop Auditorium, with self-addressed, stamped return envelope.

MUSEUM OF NATURAL HISTORY

Sunday Programs

Museum Auditorium, 3:00 p.m.

Sunday, February 21—Geological Studies in Antarctica by Dr. J. C. Craddock.

Sunday, February 28—“The Blue-Winged Teal,” color sound film.

ATHLETIC DEPARTMENT EVENTS

Basketball

Williams Arena, 8:00 p.m.

Tuesday, February 23—Michigan
Saturday, February 27—Indiana University (Single tickets \$2.00. Single game ticket sale begins Monday before each game at Cooke Hall, at the Minneapolis Downtown Ticket Office, and at Field-Schlick in the St. Paul loop, Har-Mar Mall, and Highland Village.)

Hockey

Williams Arena, 8:00 p.m.

Friday, February 19—Michigan
Saturday, February 20—Michigan (Single tickets \$1.75. Single game ticket sale begins Monday before each game at Cooke Hall, at the Minneapolis Downtown Ticket Office, and at Field-Schlick

Gymnastics

Cooke Hall

Saturday, February 20—Northwest Open Meet, 1:00 p.m. General Admission sold at gate, \$1.00

Track

Field House

Saturday, February 20—Varsity versus Frosh, 1:30 p.m.

Saturday, February 27—Iowa, 1:30 p.m. General Admission sold at gate, \$1.00

Wrestling

Williams Arena

Saturday, February 20—Illinois-Purdue-Army, 1:00 p.m. General Admission sold at gate, \$1.00

UNIVERSITY GALLERY

EXHIBITIONS

Northrop Auditorium

8:30 a.m.-4:30 p.m.

Monday through Friday

2:00 p.m.-5:00 p.m.

Sunday afternoons of February 7, 14, 21

Sunday, February 7 through Sunday, March 7—Ernst Josephson, 1851-1906, Gallery 307, 309, 315

Sunday, February 7 through Saturday, March 20—Warren Mackenzie: Pottery, South Gallery

Wednesday, February 24 through Wednesday, March 24—Contemporary American Drawings, Gallery 405

ST. PAUL CAMPUS STUDENT CENTER

Galleries

Sunday, 12:00 noon-11:00 p.m.

Monday through Saturday

7:00 a.m.-11:00 p.m.

Monday, February 8 through Monday, March 1—Don Celander, Stained Glass and Oils

Thursday, February 11 through Friday, March 5—Gloria Wood, Oils

Week-end Movies

Saturday, February 20—“The Mouse That Roared”; 7:30 p.m.

Sunday, February 28—“Make Mine Mink”

THE MINNESOTAN

Department of University Relations

217 Morrill Hall

University of Minnesota

Minneapolis, Minnesota 55455

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The University Staff Magazine - *March 1965*



The President's Page

During the months of conferences and informal talks that preceded the University request to the 1965 Minnesota State Legislature, an overriding concern was expressed again and again: The educational opportunities provided by the University must continue to meet, or if possible, surpass the high-quality standards of past years.

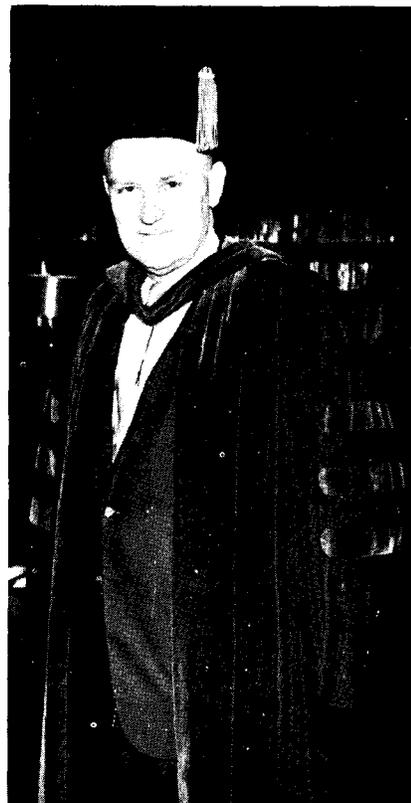
Our students expect to be provided with the best possible tools to compete in a world where the successful are the best trained. They expect to acquire an understanding of the character of a free world and how they may help make it secure. They deserve no less.

In a changing society, we cannot be content with an institution that is unresponsive to changing criteria of educational quality. The educational system and the educational institution that does not respond will witness a deterioration of its services and its educational product.

Impending population change will create so great a burden and so great an opportunity for educational institutions in the coming years that it would be folly to try to keep education open at the same old stand in the same way. All of us whose business it is to keep the doors open, the money flowing, and the facilities available, must recognize the fact that these numbers are not numbers to deplore, but rather that they represent tremendous opportunity. If, in 1965, with all the development of culture and science which surrounds us, we discovered that our country which had been emphasizing the importance of education for a hundred years was not increasing the appetites of its children, then we would have real reason to worry. If the percentage of college-age students asking for our services were declining, then we would know that there was something wrong with us. The fact that this percentage is growing is at least a vote of confidence in education and another expression of the fact that the work we are doing is important.

I believe that there is no more important business in the world than ministering to the minds of men and women. I believe there is no happier way to minister to them than through the educational system of which we are a part. I can think of nothing which should bring us greater happiness, even in our moments of frustration, than the thought that, because of our efforts, forty per cent of the young people in an age group will be wiser citizens, more enlightened members of their communities, better informed voters, better economic producers, and more satisfied people. In my judgment, the educational system of the United States is our most important bastion for freedom and our most significant engine for production, and it is therefore worthy of our best efforts.

Meredith Wilson



On the cover . . .

is the familiar quadriga at the base of the Minnesota State Capitol dome entitled "Progress of the State." Hammered from sheet metal and overlaid with gold leaf in 1906 by Messrs. Daniel C. French and Edward C. Potter, the quadriga symbolizes the triumph of government and prosperity. As every Minnesotan knows, the Capitol has been the scene of frenzied activity during the 1965 legislative session. Much of this activity directly involves the University and its future. See cover story beginning on page 3.

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THE YEAR OF THE BUDGET

and Other Years



by Lewis Patterson *

The inquiry by a legislative committee last year into University of Minnesota procedures for making faculty appointments may have led some to wonder whether good relations exist between the University and the Legislature in this year of the budget.

The headlines concerning that inquiry were disturbing to some, if not all, members of the University community. You are in a position to know better than most that the University is one of the finest institutions of higher learning in the land. And since the University, under its own administration, has achieved world fame and a great measure of distinction, you wonder why it is that once or twice a decade your abilities to educate and to keep your own house in order seem to be questioned in the Legislature.

The most comforting words an impartial observer can offer are these:

1. The Legislature, as such, does not question the competence of the University administration.

2. Good relations do exist between

** (Editor's Note—Mr. Lewis Patterson has been a reporter for the St. Paul Dispatch Pioneer Press for fifteen years. This is the third session of the State Legislature which he has covered. He did graduate study at the University and was a member of the journalism faculty from 1947 until 1950.)*

the University and the Legislature.

3. The Legislature is made up of individuals and like other groups, in a given year it may have within its numbers an individual or two or three whose ordinarily good judgment may be affected by the cries of alarmists. It is well to remember, too, that even the best legislators have to be elected in order to serve. Sometimes the pressure from a portion of the electorate has been loud enough to win legislative attention to matters that would not otherwise get that attention.

Less often a member may be his own alarmist. The era of McCarthyism, you may recall, had a spokesman or two who reflected somewhat the irresponsible cries of the Wisconsin senator whose words received great attention until he was found out. Cooler heads prevailed during that period, however, and long before the McCarthy era was over, its few spokesmen found it difficult to gain an ear in the Minnesota Legislature.

When those disturbing headlines appeared last year, the Legislature did a very good job of this business of separating the parts from the whole. Most members were able to see that the well-intentioned though ill-advised words of one faculty member did not mean that the University should be investigated. To their great credit, they were able to see further that the words were conceived for dramatic effect and were thus misinterpreted by some.

The University community will suffer less discomfort when such incidents arise if it is remembered that rarely does the outcry originate in the Legislature itself; and that so long as there are a few who are suspicious of learning and scholarship, of research that uncovers facts not to their liking, so long must scholars expect to hear criticism. The need for trembling, however, grows less and less, as it has since the mid-Twenties.

The University community should take heart from and read again the words of Senator Robert R. Dunlap spoken last May 19 when the special subcommittee convened for the inquiry into University procedures for

faculty appointments. In his opening statement as chairman of the special committee, Senator Dunlap referred to the Chase case which goes back to the mid-Twenties. It was this case—in Ramsey County District Court and in an appeal by the State before the Minnesota Supreme Court—which reaffirmed University autonomy.

Briefly, this is the substance of the case: The Board of Regents approved a sum of several hundred thousand dollars to be paid from dedicated funds, which are owned and controlled by the University but which flow through the Legislature when the total budget is passed upon. The newly established three-member state commission of administration made it known that it would not approve the sum which was to establish an insurance and pension system for faculty members. The Regents, to provide a test, submitted a bill for \$50 to pay an actuary hired as a consultant in establishing the plan. Ray P. Chase, state auditor, refused to pay the bill and the University took legal action.

Reviewing this before the special committee, Senator Dunlap quoted from the court's decision: "We find the people of the state, speaking through their constitution, had invested the Regents with a power of management of which no Legislature may deprive them . . ."

Senator Dunlap said at the time the committee convened: "I would assume that all of us are willing to agree that we have no constitutional right nor legal responsibility to run the University. This is the job of the Regents of the University whom we have elected to perform this responsibility in joint convention of the Legislature."

Senator Dunlap noted that he had received many letters in which the writers expressed fear that the inquiry was "aimed at curbing or infringing upon academic freedom." He said that these people should know that the University and the Legislature had worked closely together for many years, that the University administration had always "willingly answered any ques-

(continued on page 10)

LIVING ROOM LEARNING

Neighborhood Seminars Grow, Involve Many Staff Members

Professor of English Robert E. Moore conducts "A Seminar in Shakespeare" at the home of Mrs. O. Meredith Wilson. He is shown greeting Mrs. Roger B. Shepard as she and other students arrive for a session.



Turning parlors into classrooms is a part of a rapidly growing program called Neighborhood Seminars coordinated by the General Extension Division.

It all began in 1960 when a group of enterprising Twin Cities housewives telephoned Associate Professor Elizabeth L. Cless, assistant to the dean of General Extension. They wanted to learn more about American economics, said Professor Cless, but like most busy wives and mothers, they could not enroll in regular University classes and did not wish to earn credits toward a degree. Could a University professor be persuaded to teach a college-level, non-credit course in their homes?

Professor Cless, who often acts as an experimenter in extension education, organized an eight-week seminar program of two and one-half hour sessions in which a professor would lecture and hold discussions in one of the group's homes. The lectures were fact-packed just as they are delivered in a classroom; the assigned reading was heavy. The course fee was set at \$16 per person and \$24 per married couple.

"We were delighted when after eight weeks the same group asked for another course on the same subject," Pro-

fessor Cless said. "From then requests came rapidly for other living-room seminars."

Now past the experimental stage, the program has been placed in the hands of the director of off-campus classes, Associate Professor Harold Alford.

"Interest in Neighborhood Seminars spread by word of mouth until at present there are up to twenty-four different seminars conducted any given day or evening," said Professor Alford. They are usually held in homes or churches and often attended by both men and women, he said. The hours and number of sessions are arranged according to the convenience of the group and the professor. Participants must number at least sixteen and not more than thirty.

Course material varies to include any subject of particular interest to a group for which the University has an informed, interested, and available faculty member, said Professor Alford. For example, current seminar groups are studying the origin of Christianity, Russian history, horticulture, the welfare state, and several other topics.

"The Neighborhood Seminars program is one of the most interesting opportunities for continuing education offered by the General Extension Division, and has met with great enthusiasm," said Dean Willard L. Thompson. "It is my hope that the program will continue to expand, for it is here that the Division can make some of its greatest contributions to the people of Minnesota."

"The current goal," said Professor Alford, "is to have sixty Neighborhood Seminars a year. During the first three years of the program there were seven, eight, and then nineteen seminars. This year we have coordinated twenty-four, and the year is only half over."

Because of the growing interest in the program, Professor Alford predicts it will eventually become state-wide. It is possible to organize a seminar no

(continued on page 10)



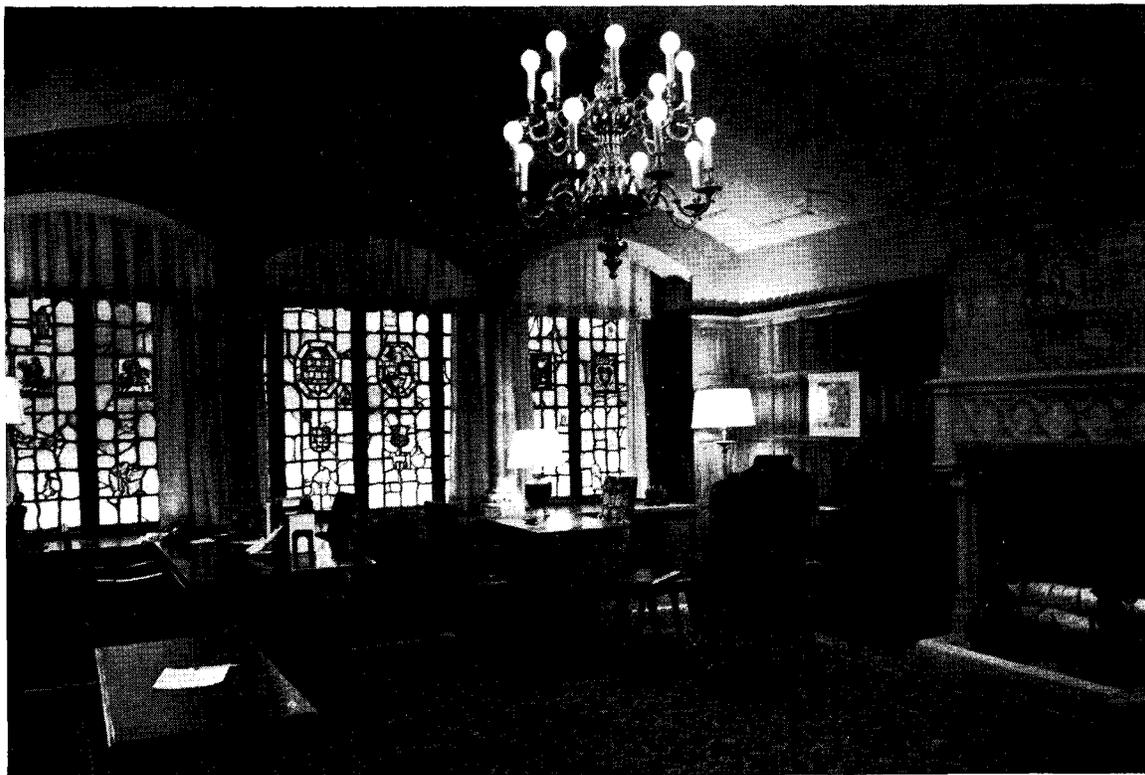
At the Gamma Phi Beta house, Professor of Political Science John E. Turner (above) currently leads a group of University sorority house directors in discussions on the Soviet Union.

Last fall, Sir Muhammad Zafrulla Khan, (below, left) former president of the United Nations General Assembly and U.N. representative from Pakistan, was a guest speaker at a Neighborhood Seminar on India and Pakistan conducted by Professor Samuel Burke in the home of Mrs. Otto Silha, Edina, wife of the University Regent.

Minneapolis Star



The Elizabethan James Ford Bell Room is decorated with "linenfold" carved oak paneling, a massive fireplace from a 16th century English manor, leaded stained glass windows, an 18th century Persian carpet, numerous antique chairs upholstered in old needlepoint or in Genoese silk velvet, and a Louis XIII sofa covered in its original needlepoint. The Bell Collection is stored in an adjoining vault.



Associates Seek to Bring Bell Treasures To Larger Audience

THE James Ford Bell Collection became a part of Walter Library on October 30, 1953. Mr. Bell, founder of General Mills, and a University Regent from 1939 until his death in 1961, gave the University his collection of rare books on trade and exploration which he had assiduously acquired during his lifetime. The Bell Collection has since grown to include about 6,000 items.

This distinguished Collection of books, maps, and manuscripts relating to the history of international commerce to the end of the eighteenth century has been acclaimed by scholars in this country and abroad for its quality, rarity, and historical significance. Its materials embrace travel, geography, and navigation, including some of the most important maps concerning the discovery of America.

In the belief that old books of significance are a great asset to the University and the community, Professor John Parker, curator of the Bell Collection, and a group of sponsors have formed a new organization, the Associates of the James Ford Bell Collection. "The Associates want to give bibliophiles, book collectors, and the public greater knowledge of the cultural importance and the availability of the Bell Collection," said Professor Parker.

The sponsors of the group are Mr. T. R. Anderson, Edina; Mrs. John S. Dalrymple and Mr. J. Cameron Thomson, Minneapolis; Mr. John Tilton, Excelsior; and Mr. Lyman E. Wakefield, Jr., Wayzata.

Invitations to join the Associates were first sent in December, 1964. The present membership of 114 is expected to grow to about 150 by the end of 1965, according to Pro-

fessor Parker. Yearly membership dues are \$5. Larger contributions to assist with the cost of publications and the purchase of additions to the Bell Collection have been made by some members.

The James Ford Bell Room is open to University staff members and students, and scholars from other institutions for the examination of the materials catalogued in the Bell Collection. The beautiful Elizabethan room is furnished in a manner appropriate to house a library of the highest quality. Here the Associates are invited to attend special seminars and exhibits.

Professor Parker has been curator since the establishment of the Bell Collection at the University. He is an expert on rare books pertaining to voyages and explorations, and has traveled extensively seeking rare materials, including ten trips to Europe where most of the acquisitions are made. Assistant curator is Miss Carol Urness.

A monthly report of newly catalogued acquisitions issued in December consisted of twenty items. A particularly significant addition to the Collection is a document of the history of English attitudes concerning colonization entitled *The Planters Plea* by John White. Written in 1630, it is a prime source of factual material on the formation of the Massachusetts Bay Company.

Also catalogued in December was a newsletter written in 1769 relating to Louis Antoine de Bougainville's significant voyage to Tahiti. It describes with considerable detail the life of the inhabitants of Tahiti and its natural products.

(continued on page 10)



On the Duluth Campus, Assistant Professor of Political Science **M. Harry Lease, Jr.** has written a book entitled *William Howard Taft and the Powers of the Presidency*. Getting practical experience in political matters, he is the chairman of the sixty-first DFL Legislative District. Professor Lease has served as a committee coordinator for the Western States Democratic Conference in 1962.

At Masonic Memorial Hospital, **Dr. B. J. Kennedy** has successfully used male hormones in the treatment of anemia in patients with chronic lymphatic leukemia. His findings, which were announced in January, represent another means of controlling problems of leukemia patients. The hospital, which has been the scene of much invaluable cancer research by Dr. Kennedy, was given to the University by the Masons of Minnesota who have almost raised \$1,100,000 to add a third and a fourth floor to the building. A "roof-raising" ceremony will be held March 17.



Minneapolis Star

WE

The Staff Members and Friends of the University



"Selling space is my job, when there is any to sell," said **Mr. Edwin Beck**, senior parking attendant in Northrop Auditorium Garage. "If the garage were several times as large it wouldn't be big enough to accommodate all the drivers I turn away every day." The garage has 110 contract parkers (there is a five-year waiting list) and room for only about twelve transient parkers. After two years of work in the garage, Mr. Beck is sure that some of the world's best drivers park there "because they get the biggest cars in the smallest spaces." His son is a junior honor student in pre-med at the University.

"Spring" planting begins in winter for **Gardener Onie J. Benson**, who tends the College of Pharmacy's greenhouse and garden. By February 1 he had already planted one hundred pots of seed. Surrounded by 160 varieties of tropical and domestic plants, Mr. Benson explained that very few of those in the greenhouse are poisonous. However, most of the greenery in the garden behind Scott Hall will cause irritation if improperly handled. The plants are grown not only for experimental drug extraction, such as *digitalis lanata* which yields a heart stimulant, but also to aid in the development of products such as weed killers.



The St. Paul Campus Student Center has experienced consistent yearly growth as a social and educational focal point for staff members, students, and off-campus groups, according to **Director Paul Larson**. "There's been a great flourish of activity since the move in 1959 from our location in Old Dairy Hall," he said. "The Center is unique in that it is always the scene of student-staff togetherness, especially this year in the Rouser Room," he commented. Before his appointment as director in 1952, Mr. Larson was program consultant at Coffman Memorial Union and manager of the Village Union.



THE BENEFACTORS

William A. Schaper



The mace-bearer in the March 20 Commencement Ceremonies will be **Professor John W. Clark**, chairman of the Department of English. Professor Clark will lead the academic procession into Northrop Memorial Auditorium and place the mace in the center of the stage. Made by University craftsmen for the inauguration of President O. Meredith Wilson, the mace is the symbol of authority invested upon the University President. Professor Clark has been chairman of the Department of English since 1958.

Suzanne Field



As secretary to Bandmaster Frank Bencricutto, **Miss Doris Neumeyer** becomes involved in the arrangements for ordering new drumsticks, cleaning uniforms, painting drumheads, reproducing music, preparing itineraries, and buying oil to guard instruments against freezing weather . . . just a sample of the preparations made to transport 163 members of the Marching Band to Washington, D.C., for the Presidential Inauguration in January. Back home, above, Miss Neumeyer watched "her" band on television and heard the enthusiastic applause from the crowd. Her file now bulges with laudatory letters complimenting the band's excellent performance.

March, 1965

On May 11, 1957, the University of Minnesota received a grant of \$10,000. This bequest marked the close of an unusual chapter in the University's history.

The story begins in 1917, during the anti-German hysteria which characterized the whole country during World War I. On campus, the Board of Regents was doing everything it could to promote the war effort.

The chairman of the Political Science Department, Professor William A. Schaper, was of German parentage. Professor Schaper did not believe in war as an instrument for the settlement of international arguments, and he said so publicly. He joined other Minneapolis citizens in sending a telegram to President Woodrow Wilson, urging him to keep the United States out of a European war.

Unknown informants accused Professor Schaper of "rabid pro-Germanism." Subsequently, he was summoned before the Board of Regents for a hurriedly called and brief hearing. Without preparation or counsel, he was charged with pro-Germanism and disloyalty to and obstruction of the nation's war effort.

Professor Schaper's response was to uphold firmly the humanitarian principles in which he believed. Reiterating his unwavering loyalty to the United States, he explained that he could feel no enthusiasm for a war the avowed purpose of which was to destroy the German government, and to demolish an army in which he had relatives.

The Regents passed a resolution that "his attitude of mind . . . renders him unfit . . . to discharge the duties of his position." He was dismissed without compensation.

From 1917 until 1925, Professor Schaper tried various lines of non-academic work with little success. He then was appointed professor of finance at the University of Oklahoma. In 1938 he retired.

Fortunately, for the University of Minnesota, the story does not end here. In 1938 a recommendation of vindication was made to the Regents by President Guy Stanton Ford and Governor Elmer A. Benson. Credit for this action is mainly given to the untiring efforts of his former colleagues,



William A. Schaper

especially Professor Emeritus William Anderson and the late Professor Cephas Allin. Consequently, the Board of Regents rescinded the dismissal resolution of 1917, reinstated Professor Schaper at the University of Minnesota as professor emeritus, and paid him \$5,000 in lieu of salary for the year 1917-18. At the same time, the Regents adopted a strong resolution affirming the principle of academic freedom at Minnesota.

In 1945 this resolution became an essential portion of a new code of academic tenure and academic freedom adopted by the Regents. It said in part, "The University should recognize that the teacher in speaking or writing outside the institution . . . is entitled to the same freedom and subject to the same responsibilities as attach to all other citizens, but in added measure. And also, "No person shall be removed from . . . any faculty position because of his beliefs in matters of . . . public policy." Thus the University publicly repudiated its mistake, and provided assurance that such an error of dismissal would never be repeated.

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

It is not the \$10,000 that makes Professor Schaper a great benefactor, but the formal guarantee of academic freedom which he assured for all University of Minnesota faculty members.

“THERE just isn't enough space,” said Mr. Walter D. Johnson, University parking facilities supervisor, referring to the parking problem.

There are now 8,126 parking spaces located in fifty-three separate facilities on or near the Minneapolis and St. Paul campuses, according to Mr. Johnson. This figure includes both transient and contract spaces in ramps, outdoor lots, and underground garages. Of the total, 2,410 are contract lots, available only to staff members and disabled students.

“But,” said Mr. Johnson. “We could use probably twice the number of spaces we now have.”

The parking situation has been of concern to the University for at least thirty years. Even in 1933, the problem was recognized, and a study committee was appointed by the All-University Council. In October, 1948, there were only 3,000 spaces available for an estimated 5,700 cars driven to the Minneapolis Campus each day. The problem has only multiplied since then; today there are approximately 23,000 commuters with an available 8,126 parking spaces. Still there are no simple or immediate solutions, according to Mr. Johnson.

Hope for the future

A new ramp, with a capacity of 2,060 cars, will help to alleviate some

23,000 Commuters

Vie for 8,126

Parking Spaces

While the Signs

Read . . .

**SORRY,
LOT
FULL**

problems. The five-level ramp will be built between Comstock Hall and Coffman Union, and the visible surface will be completely landscaped. Attractive features such as two swimming pools, a fountain, and a possible conference center or small restaurant are planned also.

University Advisory Architect Winston A. Close said bids for construction will be received in March, and construction will take about one year. The ramp will probably be ready for use by spring quarter, 1966.

Of the proposed ramp's five levels, probably two, or approximately 900 spaces, will be used for contract parking. The other spaces will be available for transient parking, charging on an hourly basis, as do the other University lots, said Professor Close.

Three alternatives

While the ramp will provide additional parking space, it will not solve the existing problem. A recent study done by Barton-Aschman Associates, Inc., of Evanston, Illinois, on the University's long-range parking needs suggests three possible schemes to provide the needed space.

Each plan allows for close-in parking for staff members in the existing facilities, while providing additional space for the growing number of student commuters.

The three alternatives are: (1) remote outdoor parking lots with a shuttle bus service to and from campus, (2) peripheral parking in many new lots and ramps located around the boundaries of the University area, and (3) centralized parking in two large ramps located at each of the major freeway interchanges.

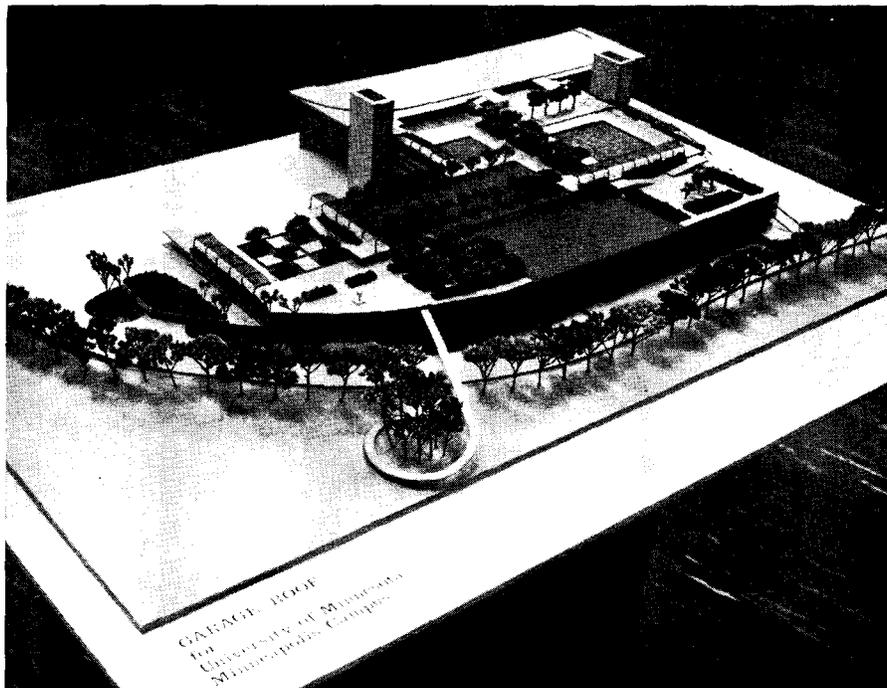
The study relates only to the Minneapolis Campus, but considers the effects of an enlarged and important West Bank area.

The study summary states: “The time span used for projecting these requirements included the period when the campus reaches an anticipated enrollment of 38,000 students in 1970 and when planned freeways in the area have been completed (1980).”

While there are advantages and drawbacks to each plan, Mr. Johnson thinks that the first scheme, remote parking with a frequent shuttle bus to campus, might well be the most logical to adopt. But, as he indicated, the only plans at present have to do with the new ramp. “There simply are no other plans,” he said. “We just don't know what to do next.”

Funds from income

A major problem in planning any new parking facility is financing. All parking facilities at this University operate solely on income, said Mr.



Below is the architect's model of the proposed 2,060 car parking ramp to be built behind Coffman Union. The various levels will have separate entrances to help control traffic problems. The ramp should be ready for use by spring, 1966.



Bob Mooney

During the school year, the river flats lots, with a capacity of approximately 1,200 cars, are nearly always filled.

Johnson. No money is appropriated by the Legislature for this purpose, and no portion of fee payment money goes to expanding or providing new parking facilities.

For this reason, outdoor lots are the most economical to maintain, as well as the least expensive to provide, although they are probably the least favored by parkers. And, too, it is extremely difficult to secure large areas of unused land within a reasonable distance from the campus. Under scheme one, approximately sixty-seven acres of land would be required for 9,600 parking spaces on surface lots.

"Sometimes we have so many cars waiting for spaces that traffic is stopped for a couple of blocks," said one student attendant at the ramp located at the corner of Washington Ave. and Union St. "It just depends on the time and the weather. Sometimes we have empty spaces all day," he said.

This comment is typical of the 165 students who work part-time at the lots and garages. Fourteen full-time staff members are responsible for the operation and maintenance of the lots, ramps, and garages. They are Senior Parking Attendants Edwin Beck, Walter Crooks, Wilmer Hendrickson, Harry Hinrichs, Hobart Mitchell, Reuben Nelson, Peter Paulos, Sig Phillips, Ken Proffitt, Morris Rockner, Gust Roettger, and Joe Rouse.

March, 1965

Constructed in Hospitals' Courtyard

Meditation Chapel Incorporates Design Common to All Religions

A place for quiet meditation or private consultation with hospital chaplains in tasteful, unobtrusive surroundings will be provided in University Hospitals' new meditation chapel. The glass and concrete chapel, to be built and furnished with funds donated anonymously, will be located in the Hospitals' southeast courtyard.

Designing Architect Clayton Page, incorporated elements of the Egyptian, pre-Greek, and Greek in the chapel in order to achieve a design common to all religions with none of the usual symbols.

The chapel, to be completed in July, 1965, will have ten sides set with stained glass panels, a stained glass dome top, and a skylight.

"The purpose of the window design is to give a calm atmosphere apart from usual hospital routine," said Mr. Page. A pastoral, scenic effect will be created by the panels of glass, according to the architect.

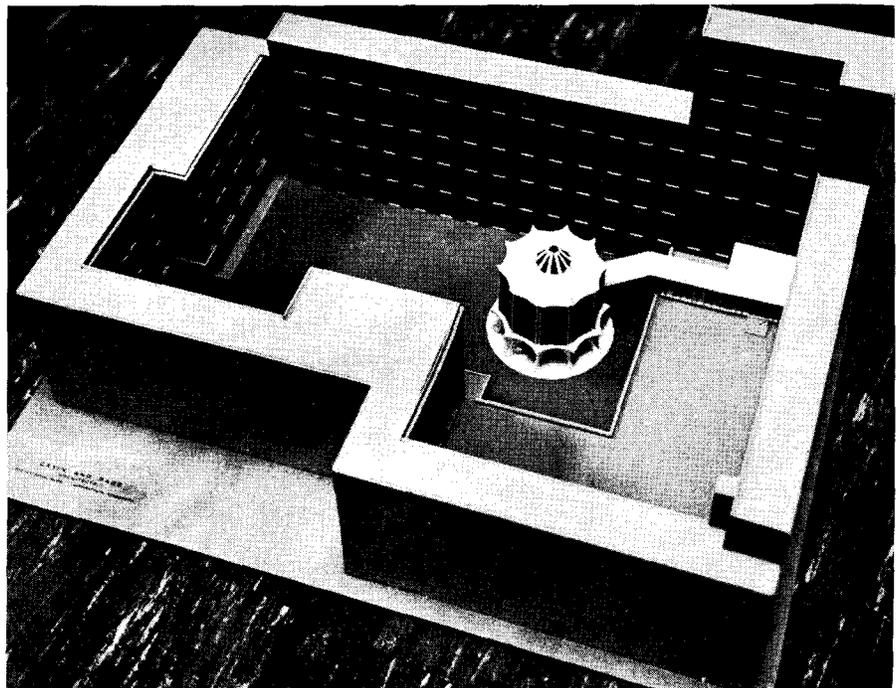
Associate Director of the Hospitals Gerald Frawley said, "This facility is a vital necessity to both the hospital staff and the families of the patients." It will also be available for patients who wish to visit it, he said.

A bridge will connect the chapel to the hospital, and there will be small conference rooms near the entrance. The main room will be carpeted, but there will be no permanent furnishings. A lectern, altar, and raised platforms may be used for various religious services.

Although the idea was originally proposed in the spring of 1962, no serious discussion or planning took place for almost a year, according to Mr. Frawley. Actual construction was begun in the late summer of 1964 and will take nearly a year to complete. Total cost for the chapel will be approximately \$175,000.

The architect's model of the meditation chapel, now under construction, shows its location in relation to University Hospitals' southeast courtyard. Subtle use of light and textures will be used to create a peaceful effect.

Jack Bohnhoff



Legislature

(continued from page 3)

tions regarding policies of University administration." He said the University had never cried that such actions had "constituted a trespass upon their constitutional independence nor that the same constituted any attempted infringement by a Legislature upon academic freedom." He noted that the University had signified that it was ready to answer questions again.

On the other hand, Senator Dunlap said, there were many other letter writers "who indicate they believe the University to be a creature of the Legislature." This group, he said, should be made aware of the Chase case and he advised these people that the Minnesota constitution put the University "beyond the power of the Legislature by paramount law, the right to amend or repeal which exists only in the people themselves."

Now to the current worries of the University community, the proposed budget for the University's maintenance and operation for the next biennium. Good relations with the University does not necessarily mean that the funds asked will all be granted. In fact, history shows that it is a foregone conclusion that they will not.

The Legislature faces especially trying times this session. It is faced with finding \$100 million or more in new revenue. At the same time it has seldom faced more pressure for tax relief, especially in the area of property taxes. Many are inclined, without declaiming it, to find the answer in a sales tax. It is felt in legislative halls, however, that Governor Rolvaag would certainly veto an all-inclusive sales tax. In his budget message he did suggest an "excise" tax of three per cent on sales of new cars. The Conservative majority has been highly critical of the Governor's suggestion to raise state income tax rates, starting at the \$4,000 bracket. Thus the method of obtaining the additional revenue needed to finance much larger appropriations this year are far from clear at this point.

Further, the University faces greater competition for the funds the Legislature will make available. The needs in other areas have reached new peaks. The Governor is determined that the mental hospitals and the institutions for the retarded will be upgraded. Much larger amounts are going to be needed for old age assistance, medical assistance to the aged, and aid to dependent children. More than \$40 million in new revenue is needed to pay school aids even at the present inadequate formula, a result of increased elementary and secondary school populations. Delinquency has reached a level where even some of the die-hards are ready to try better treatment programs at more cost.

There is an additional factor that makes

the revenue problems of this Legislature difficult: Minnesota has more children and more aged persons than ever before. All of the children and many of the aged are not taxpayers, putting more of a load on the percentage—a declining percentage—of the population that remains.

If legislative committees seem more determined than ever to uncover what they feel are unneeded items in the budgets, these are some of the reasons. President Wilson, although much-admired and well-liked by legislators, will need more ammunition than ever before to sell his idea that money budgeted to the University is not merely an appropriation, but an investment. Conversations with legislators reveal that many of them agree with him. But, they add, they still have to find the money in the face of new pressures to hold down the tax bill and they still must divide the pie.

Neighborhood Seminars

(continued from page 4)

matter where the demand by engaging faculty members from the Morris and Duluth campuses and from state colleges, he said.

Assisting Professor Alford are his secretary, Miss Mary Lou Lundberg; Mr. Richard Grefe, teaching assistant in political science; and Mr. Donald Lambert, instructor of humanities. As coordinators, Mr. Grefe and Mr. Lambert secure professors to fulfill the needs of groups requesting home seminars. "Sometimes we even help to decide what subject area will be studied if a group hasn't a particular request," said Mr. Lambert. He and Mr. Grefe also arrange time schedules, order textbooks, collect fees, and attend each first session.

"Usually faculty members are happy to conduct a seminar," said Professor Alford. "They find themselves surrounded by enthusiastic, well-informed men and women who want to learn more about a particular subject in great depth."

"I found the experience of teaching such interested and responsive pupils very rewarding," said Professor of International Relations and Area Studies Samuel M. Burke who has led two seminars on Pakistan and India. "They asked pertinent questions and studied assigned readings diligently."

"The program is so flexible that we can meet the needs of any given group," said Professor Alford. "We want to take higher education to anyone at any economic level who would like to brush-up on a subject or delve into a new field."

Bell Associates

(continued from page 5)

A third valuable item recently acquired is a seventeenth century Dutch sea atlas by Pieter Goos which includes sailing directions for Europe, Greenland, the Canary Islands, northern Africa, and Novaya Zemlya. It includes an almanac for the year 1674, illustrations of various constellations, and instructions for operation of navigational instruments.

Not only the Bell Collection but also the publications issued from it have received acclaim. *The Merchant Explorer* is an annual report and commentary on acquisitions. It is sent to the Associates, selected librarians, and others interested in the Bell Collection. A newsletter entitled "The Manifest" is a new publication planned to be published three times yearly. This leaflet, containing news of the Bell Collection and related activities, will be sent to the Associates.



The James Ford Bell Lecture, which is presented at the University every year by a noted scholar, is also published and distributed to the Associates. This year's Lecture will be given in April by Professor Emeritus Herbert Heaton of the Department of History.

Currently the Department of History and the Bell Collection are collaborating on proposed publication of a ten-volume series entitled *The Era of European Colonization*, a history of European empires from 1500 to the present. The editor of the series is Professor Heaton, and the associate editor is Associate Professor Burton Stein.

The James Ford Bell Collection promises to be the world's finest library on the history of international trade. Professor Parker commented that the sponsors of the Associates are hopeful that this growing group of booklovers will bring the Collection more attention here and abroad.

University of Minnesota Calendar of Events

March 1-15, 1965

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts

*Stanislaw Skrowaczewski conducting
Northrop Auditorium, 8:30 p.m.
Tickets \$2.75-\$5.00*

Friday, March 12—Van Cliburn, Pianist

Sunday Afternoon Adventures in Music Concerts

*Northrop Auditorium, 4:00 p.m.
Tickets \$1.50-\$2.50*

Sunday, March 14—To be announced.

UNIVERSITY ARTISTS COURSE Masterpiece Series

Northrop Auditorium, 8:30 p.m.

Thursday, March 4—Robert Merrill, Metropolitan Opera baritone; Ticket prices \$2.00, \$2.50, \$3.50, \$4.00*

CONVOCATIONS

*(Open to the public without charge.)
Northrop Auditorium, 11:30 a.m.*

Thursday, March 4—Hedley Donovan, Editor-in-Chief, TIME, INCORPORATED

UNIVERSITY GALLERY EXHIBITIONS

*Northrop Auditorium
8:30 a.m.-4:30 p.m.*

*Monday through Friday
2:00 p.m.-5:00 p.m.*

Sunday afternoons

Monday, March 1 through Sunday, March 7—Ernst Josephson, 1851-1906, paintings and drawings

Monday, March 1 through Monday, March 22—Warren MacKenzie, pottery

Monday, March 1 through Wednesday, March 31—International Graphic Arts Society, recent selections

Monday, March 1 through Wednesday, March 24—Contemporary American Drawings

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge.)

Wednesday, March 10—Student University Symphony Orchestra, Northrop Auditorium, 8:30 p.m.

Tuesday, March 2, Tuesday, March 9, Tuesday, March 30—Music Hour, Scott Hall Auditorium, 11:30 a.m.

COFFMAN MEMORIAL UNION

Fine Arts Gallery

*Monday, March 8 through Monday,
March 15*

Photo Exhibit, contemporary life scenes

Junk Sculpture Exhibit, Chuck Hunnington, Minneapolis Artist

ATHLETIC DEPARTMENT EVENTS Basketball

Williams Arena

Tuesday, March 9—University of Iowa, 8:00 p.m.

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

College Authors Forum

Mondays, 4:00 p.m.—A new series of informative discussions with noted professors who are also authors, about their writings, teachings, and fields of interest.

The Background of the News

(features broadcast daily at 4:45)

Mondays—United Nations Perspectives

Tuesdays—World Report, British Broadcasting Corporation

Wednesdays—Washington Report

Thursdays—Transatlantic Profile

Fridays—The Legislative Report (a report in depth of activities of the State Legislature of Minnesota)

Public Affairs Forum

(1:30 p.m.)

Wednesdays—Peace Through Law

Thursdays—University Convocations

Fridays—Great Issues

UNIVERSITY THEATRE PRODUCTIONS

Scott Hall Auditorium Series

Tuesday, March 2, 3:30 and 8:00 p.m.; Wednesday, March 3, 8:00 p.m.; Thursday, March 4, 8:00 p.m.; Friday, March 5, 8:00 p.m.; Saturday, March 6, 8:00 p.m.; Sunday, March 7, 3:30 p.m.; The Crown Bride by August Strindberg; Ticket prices are \$1.75 on Sunday through Thursday; \$2.00 on Friday and Saturday.

MUSEUM OF NATURAL HISTORY

Sunday Programs

Museum Auditorium, 3:00 p.m.

Sunday, March 7—Politics and You in Conservation by Mr. James Kimball

Sunday, March 14—"Courtship Behavior of Birds," color sound film.

ST. PAUL CAMPUS STUDENT CENTER

Galleries

Sunday, 12:00 noon-11:00 p.m.

Monday through Saturday

7:00 a.m.-11:00 p.m.

Friday, March 5 through Friday, March 26—Bill Big Spring, American Indian Folklore Art

Monday, March 1 through Thursday, April 8—Horticulture Club Exhibit

Friday, March 12 through Thursday, April 8—Town and Country Art Show.

UNIVERSITY FILM SOCIETY

Friday, March 5—"Before the Revolution" (1964, Italy); shown at the Museum of Natural History, 3:30 and 8:00 p.m.; appearance of Ernest Callenbach, editor of *Film Quarterly*, for talk at 7:30 before film.

* Reservations may be made at 105 Northrop Auditorium.

Tickets for these events are also available at Dayton's and Field-Schlick on Monday of the week prior to performance.

University of Minnesota Calendar of Events

March 16-31, 1965

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts

*Stanislaw Skrowaczewski conducting
Northrop Auditorium, 8:30 p.m.
Tickets \$2.75-\$5.00*

Friday, March 19—Artur Rubinstein, Pianist

Sunday Afternoon Adventures in Music Concerts

*Northrop Auditorium, 4:00 p.m.
Tickets \$1.50-\$2.50*

Sunday, March 21—Wrightson and Hunt, Vocalists

Special Concert

*Northrop Auditorium, 8:30 p.m.
Tickets \$2.00-\$4.00*

Saturday, March 27—Andre Kostelanetz

UNIVERSITY ARTISTS COURSE Masterpiece Series

Northrop Auditorium, 8:30 p.m.

Tuesday, March 30—National Ballet of Canada: Ticket prices \$2.00, \$3.00, \$3.50, \$4.00, \$4.50*

UNIVERSITY GALLERY EXHIBITIONS

*Northrop Auditorium
8:30 a.m.-4:30 p.m.*

*Monday through Friday
2:00 p.m.-5:00 p.m.*

Sunday afternoons

Monday, March 1 through Monday, March 22—Warren MacKenzie, pottery

Monday, March 1 through Wednesday, March 31—International Graphic Arts Society, recent selections

Monday, March 1 through Wednesday, March 24—Contemporary American Drawings

COMMENCEMENT

Northrop Auditorium, 8:30 p.m.

Saturday, March 20—Speaker to be announced

GENERAL EXTENSION DIVISION LIBERAL ARTS PROGRAMS

Spring Lecture Series

Minnesota's Temper of the Thirties

Mayo Auditorium, 8:00 p.m.

Wednesday evenings, March 24 to May 12 eight lectures: General admission—\$10, Educational Admission—\$7.50. (Tickets sold only for the entire series. No tickets sold for individual lectures.)

ST. PAUL CAMPUS STUDENT CENTER

Galleries

*Sunday, 12:00 noon-11:00 p.m.
Monday through Saturday
7:00 a.m.-11:00 p.m.*

Friday, March 5 through Friday, March 26—Bill Big Spring, American Indian Folklore Art

Monday, March 1 through Thursday, April 8—Horticulture Club Exhibit

Friday, March 12 through Thursday, April 8—Town and Country Art Show

Friday, March 26 through Friday, April 16—Glen West, Religious Oils

COFFMAN MEMORIAL UNION

Fine Arts Gallery

Tuesday, March 16 through Friday, March 26

Photo Exhibit, contemporary life scenes
Junk Sculpture Exhibit, Chuck Huntington, Minneapolis Artist

MUSEUM OF NATURAL HISTORY

Sunday Programs

Museum Auditorium, 3:00 p.m.

Sunday, March 21—"Island of Birds," color sound film.

Sunday, March 28—Dinosaurs and Their Environment by Mr. Bruce Erickson.

* Reservations may be made at 105 Northrop Auditorium.

Tickets for these events are also available at Dayton's and Field-Schlick on Monday of the week prior to performance.

THE MINNESOTAN

Department of University Relations

217 Morrill Hall

University of Minnesota

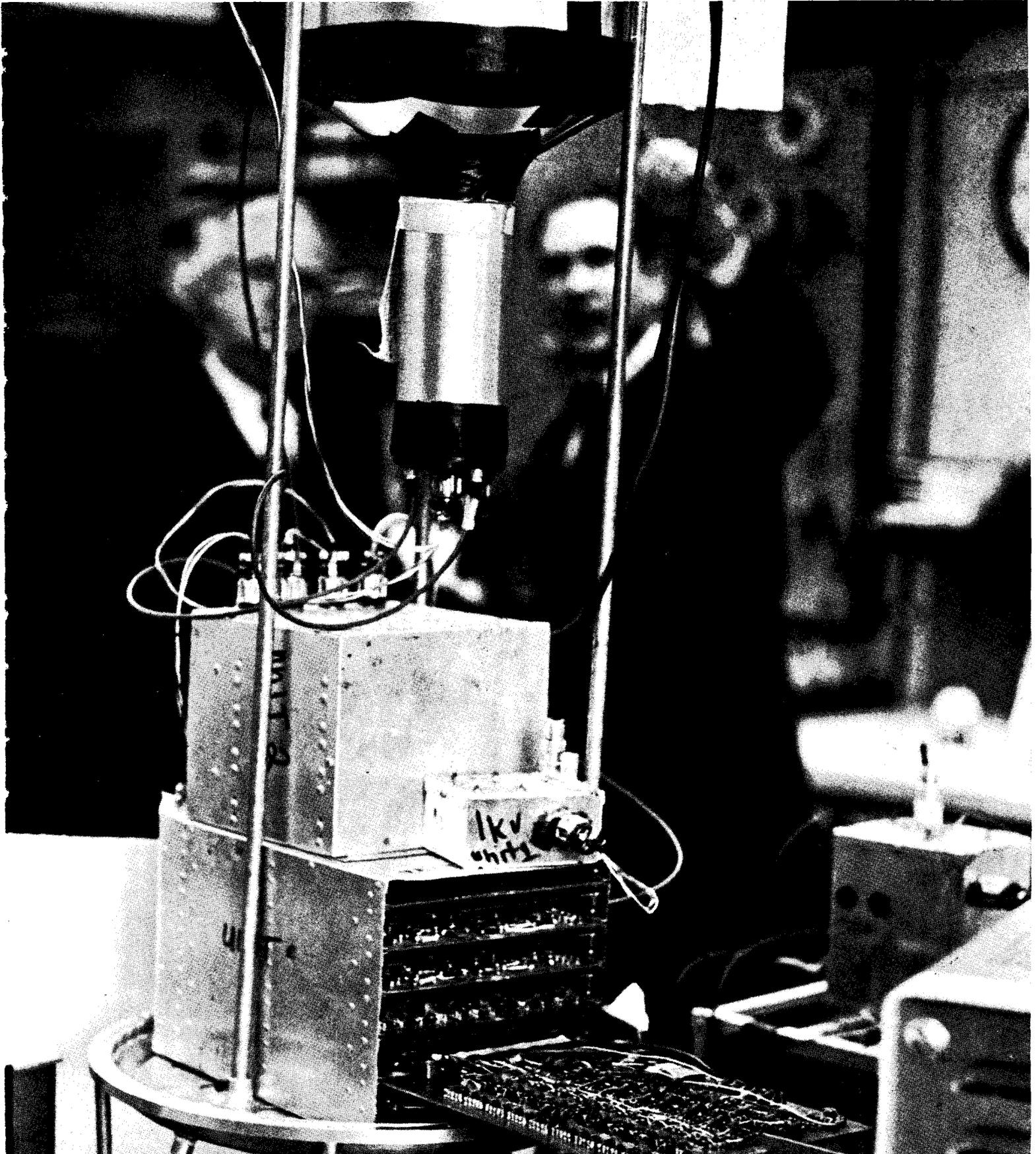
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THE MINNESOTAN

The University Staff Magazine - April 1965



The President's Page

On Friday, February 26, the University enjoyed one of its most significant birthday celebrations. It was a time for looking ahead as well as remembering, for on that day we dedicated our new Space Physics Laboratories in the Department of Physics. Perhaps of even greater significance was the announcement by the National Aeronautics and Space Administration, which funded in part the new physics facilities, that even more significant grants to the University were in the offing. At the dedication ceremonies, Vice President Humphrey and Congressman Karth read letters from NASA Director James E. Webb that indicated favorable initial reaction by NASA to support an interdisciplinary program in space science, and industrial extension program in space technology, and a building to house research facilities for the Space Science Center at the University of Minnesota. These announcements give evidence that the University of Minnesota will be asked in the months ahead to participate more fully in the fascinating scientific investigations that guide this nation's explorations in space. It is indeed a flattering suggestion that we should lend our efforts to these important tasks.

In a larger sense, however, these events are an eloquent commentary on the excellence of the contributions of the University of Minnesota to the scientific wisdom of our world. Surely, invitations to help explore the world of space would not come unless there were expectations that meaningful contributions would result. It is here that the records of excellence established by this University in its 114 years have served us well.

Such commentary should be addressed not only to the Department of Physics. It applies to every department and every service of the University of Minnesota.

Prospects of future opportunities for this University to serve our nation dramatically underscore a confidence in the excellence of our future contributions. It behooves us, therefore, to continue to merit such confidence. Past excellence has won for us the chance to serve anew. We must stand ready to prove that we warrant the challenge. Such is the responsibility of a great university.

Meredith Wilson



On the cover . . .

is the lower section of a radiation detector which is flown to altitudes of up to 12,000 feet beneath a helium-filled balloon for use in cosmic radiation studies. The detector, which was on display during the open house of the new Space Physics Laboratories on February 26, was built by Associate Professor William R. Webber and Graduate Student Jonathan Ormes. The boxes below the detector contain electronics which interpret signals from the detector and transmit them to receivers on the ground. See special features on the new laboratories, future space facilities, and University space scientists beginning on page 4.

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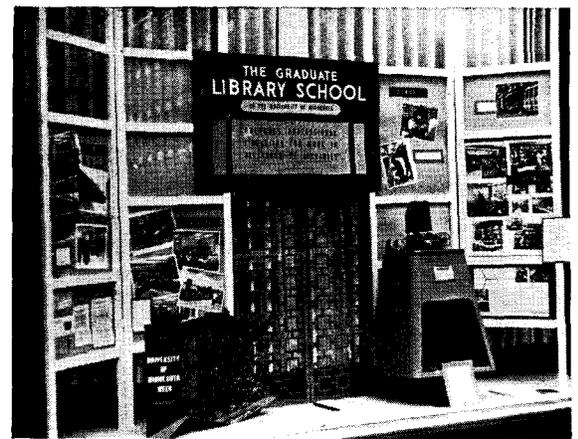
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UNIVERSITY OF MINNESOTA WEEK



Homecoming Queen Pamela Taylor served the University's 114th birthday cake to lines of students following the Charter Day Convocation.



The Library School exhibited in a window of the Northwestern National Bank during U of M Week. See a complete list of exhibitors on page 10.

In February the University of Minnesota became 114 years old. In commemoration, an official week-long birthday party called University of Minnesota Week was held February 21 through 27.

The Week's activities were co-sponsored by the University, the Minnesota Junior Chamber of Commerce, and the Minnesota Alumni Association.

Colorful window, wall, and lobby exhibits were prepared by twenty-six University departments (see list of exhibitors page 10) on the Minneapolis and St. Paul campuses and placed in area stores for the entire week. This includes eight major exhibits shown in Southdale Garden Court.

Attractive blue posters, graphically depicting the University's activities in

Minnesota, were sent to communities throughout the state.

About twenty staff members from the Minneapolis and St. Paul campuses, plus others from Duluth and Morris, spoke to various groups which requested speakers in connection with the anniversary.

The annual Charter Day Convocation ceremonies, managed by Vice President Stanley J. Wenberg who acted as chairman, highlighted University of Minnesota Week on Friday.

Dr. Eugene M. Shoemaker, chief of the astrogeology branch of the United States Geological Survey, Flagstaff, Arizona, delivered the address entitled "The Ranger-NASA Moon Shots." Dr. Shoemaker is one of five scientists studying the moon photo-

graphs taken by the Ranger Spacecrafts. He is in charge of the United States studies of the geology of the moon. His address was illustrated with slides taken of Ranger 7 and Ranger 8 moon photographs.

A birthday fanfare by an ensemble of the second University Concert Band, songs, and a huge birthday cake climaxed the Convocation. The cake was presented to President O. Meredith Wilson by 1964 Homecoming Queen Miss Pamela Taylor, Bloomington; President of the Minnesota Student Association, Mr. James W. Rustad, Minneapolis; and Army ROTC Cadet Daniel A. Gislason, New Ulm.

After the audience joined in singing "Hail! Minnesota" and "Happy Birthday," President Wilson invited the audience to sample the cake.

With equal enthusiasm, the Duluth Campus joined in celebrating the University's birthday week.

Duluth citizens were repeatedly invited to "Visit a UMD Event during University of Minnesota Week." This slogan appeared on posters, on restaurant place mats, in newspapers, and was broadcast over radio and television.

The campus provided unlimited opportunities for visits including two basketball games, a Taconite Trophy presentation ceremony, UMD-Gopher hockey game, Don Shirley Trio Concert, instrumental ensemble concert, dedication of the new Home Economics and General Purpose Classroom Building, and a campus-wide open house.

University displays in Southdale Garden Court drew much public interest. Exhibitors there were St. Anthony Falls Hydraulic Laboratory, General Extension Division, College of Veterinary Medicine, Department of Information and Agricultural Journalism, Department of Agronomy and Plant Genetics, Department of Horticultural Science, and School of Forestry.



Alan Uminsky



Representative Karth



Vice President Humphrey

AT THE DEDICATION OF THE SPACE PHYSICS The Story



Vice President Humphrey, Congressman Karth: Good News of More to Come

At a February 26 dinner on the Minneapolis Campus, newly completed \$546,000 Space Physics Laboratories were dedicated and promises of additional future space facilities were announced by Vice President Hubert H. Humphrey and United States Representative Joseph Karth.

The Space Physics Laboratories, made possible by a grant to the University from the National Aeronautics and Space Administration (NASA), qualify as one of the country's leading university centers for basic research on space.

Located on the third and fourth floors of the south wing of the Physics Building, the laboratories will be the site of research by some fifty scientists and graduate students working on projects to study the upper atmosphere and space.

Guests at an afternoon open house viewed some of the most sophisticated equipment being used in the scientific world's quest for space knowledge. On display were instrument payloads that will be shot into space this year by spacecrafts or sent aloft in balloon flight projects in all parts of the world.

Following the dedication dinner of the new laboratories, Vice President Humphrey gave advance notice of a federal commitment to finance further space research at the University. He told several hundred guests that NASA plans to announce soon annual grants of a third to a half million dollars for this purpose. The grants would be used for projects in thermal and material sciences, control and computer technology, biological sciences, and space physics and astronomy, he said.

Vice President Humphrey also relayed word from NASA Administrator James E. Webb that the space agency would consider during the present fis-

cal year a University request for additional facilities to provide working space for aeronautical and space research beyond the space made available in the new laboratories dedicated that evening.

More good news for the University's fast-growing space program also came from Representative Karth who announced a \$100,000 NASA grant to the

University to finance a program involving business and industry in new space discoveries and development.

The Vice President said that the newly announced grants will "provide the University with an unequalled potential for participation in our space and science programs" and that "every segment of the state will benefit from these developments."



In the new Space Physics Laboratories, located in the two upper floors of the Physics Building, some fifty scientists and graduate students study the upper atmosphere and space.

LABORATORIES

Of Space

(Editor's note - - Dr. William G. Shepherd, University Vice President for Academic Administration, presided as chairman over the February 26 dinner in Coffman Memorial Union held to dedicate the Space Physics Laboratories. Vice President Shepherd delivered the following speech in praise of the space science achievements in many departments of the University. His words at this occasion appear in full with the exception of introductions of distinguished members of government, community leaders, and distinguished members of the University).

Vice President Humphrey, Governor Rolvaag, Congressman Karth, President Wilson, Dr. Newell, distinguished guests, ladies and gentlemen: This evening we climax the events which celebrate the University's one hundred and fourteenth birthday. This is, I believe, one of the most significant birthdays we have celebrated, since we have with us tonight to share in our celebration, the Vice President of the United States. As a University, we take special pride that the Vice President was once a member of our faculty. I might say, Mr. Vice President, that we regard this as an important asset in our future recruitment of faculty. An important question in the mind of any young man joining the faculty of a University is the level to which he may aspire. You have set a new standard of attainment.

The theme of Charter Week for us this year has been space science. This morning we heard Dr. Shoemaker, of the U. S. Geological Survey in an address concerned with what we have learned of the nature of the moon's surface as a result of the Ranger shots. This afternoon, we held an open house in the new Space Physics Laboratories, made possible by a grant from the National Aeronautics and Space Administration.

The University of Minnesota has had a long history of accomplishment in the broad area of space physics and related activities. The earliest of these would be represented by the activities of Professor Willem Luyten, internationally famous for his studies of white dwarf



In this laboratory for reproducing the high intensity electric fields found in thunderstorms, studies are made of the role that condensing water vapor and interacting water droplets play in the generation of atmospheric electricity. Graduate students in the foreground are Mr. Chung Ching Liu and Miss Frances Anderson.

In Praise of What's Been Done

stars. In the modern sense of space physics, which involves experiments carried out in the upper atmosphere and beyond, our activities began shortly after World War II. These investigations on cosmic rays have become, under the leadership of Professors E. P. Ney and J. R. Winckler, some of the most significant in the world. At first, their research was concerned primarily with the nature of galactic cosmic rays. In time, however, studies of solar terrestrial relationships attracted their attention. This work led naturally to other and diverse areas of space research, including studies of solar corona during solar eclipses, zodiacal light, the earth's radiation belts, the energy distribution of cosmic ray particles. Under Professor Nier, investigations have been made of the composition of the gases trapped in meteorites. These studies may tell us something of the fascinating story of the genesis of the elements. They further give us clues concerning the history of the meteorite in terms of the interaction of cosmic rays with the elements contained within it. Longer term studies would involve investigations of the composition atmospheres of other planets.

Much of the early work in space physics was accomplished through experiments carried aloft in high altitude balloons. In order to make possible these high altitude flights it was necessary for our physics faculty to gain an understanding of the science of ballooning and the materials used in and the de-



Dr. William G. Shepherd

signs of modern experimental balloons. The early work of Picard and the efforts of the physicists have contributed to high altitude balloon experiments all over the world. An astonishing statistic is that in the years in which Professors Ney and Winckler and their colleagues have been carrying forward these experiments they have launched over 2000 balloons, many of which soar to altitudes in excess of 100,000 feet. Their balloons have been launched from many parts of the globe, from aircraft carriers on the equator and from the polar regions.

More recently they have explored higher reaches of space using satellites and space probes. The manned space flights which have been undertaken so far have not had as their primary ob-

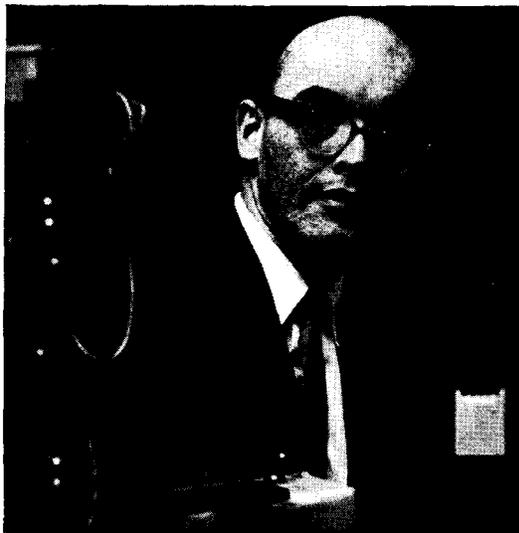
(continued on page 10)



Professor Paul J. Kellogg, with the help of fellow physicists, discovered that atmospheric polar areas, previously believed to be safe from radiation, can be perilous for space travelers because they are periodically plugged by proton storms from the sun. In 1961, following the International Geophysical Year, Professor Kellogg was put in charge of the World Data Center A for the collection of cosmic ray data in the western hemisphere. He has served as a consultant to the Naval Research Laboratory in Washington, D.C., on auroral problems. His major research of interplanetary space problems includes studies of solar eruptions, magnetic storm fields around the earth, and the "pumping" phenomenon of the Van Allen radiation belts. He was the first to theorize that cosmic ray neutrons are responsible for injecting charged particles into the radiation belts.



Professor John A. Winckler, physicist and space probe expert, received the Space Science Award of the American Rocket Society in 1962 for his research and discoveries. Professor Winckler has headed University scientific teams which have developed radiation-measuring devices carried to high altitudes by balloons and orbiting satellites. He proved that radiation from the northern lights is made of X-rays, rather than cosmic rays as previously was believed. His studies are considered to be important steps in planning for human travel in space as well as being significant in advancing scientific understanding of space conditions, especially concerning the Van Allen radiation belts around the earth.



For the past several years, **Assistant Professor of Physics James A. Earl** has sent balloons to high altitudes over Minnesota, Texas, and Canada carrying hundreds of pounds of instruments for cosmic ray research. The instruments, called cloud chambers, make the paths of cosmic rays distinctly visible. These chambers aided Professor Earl in 1960 to be the first to discover that there are primary electrons among cosmic rays—a discovery which he subsequently led to further research and more information about the particles. A new instrument called an electronic counter has been developed by Professor Earl and assisting graduate students to replace cloud chambers in this work. It will be tested extensively next summer. Many of Professor Earl's balloon flights have been part of the Navy's Project Skyhook program.



Alan Ominsky

Now in his fourth year on the physics staff at the University, **Associate Professor William R. Webber** has developed instruments carried in satellites and has headed balloon flights, both for cosmic ray research. At present he is working in preparation for the 1965 launching of the Polar Orbiting Geophysical Observatory satellite (POGO) and also the Pioneer space probe to orbit a satellite around the sun. Professor Webber's studies concern the origin of cosmic rays and how they are affected by solar magnetic fields. His research teams have flown balloons over southern and northern United States, Canada, and Argentina. There is hope for future flights over Australia.



The Minnesotan

WE

The Space Physicists of the University

Associate Professor of Physics Cecil J. Waddington investigates high and low-energy hydrogen and helium nuclei and high-energy gamma rays found in cosmic particles. His experiments have mainly been conducted with photographic nuclear emulsion detectors flown in high-altitude balloons. Balloon flying expeditions under Professor Waddington's direction will be made this year in India and the Arctic to pursue his studies. The research is sponsored by funds provided by the Office of Naval Research. Professor Waddington has been with the University for three years.



Photos taken in the
Space Physics
Laboratories



An experimental physicist, **Professor Edward P. Ney** discovered that cosmic rays contain powerful, heavy nuclei, hurtling through interplanetary space with more energy than an atomic explosion. Professor Ney's globe-trotting research expeditions have led to important discoveries concerning the solar corona and zodiacal light. His work with high-altitude balloons over Minnesota enabled him along with his colleagues to detect for the first time the gamma rays thrown out by the sun — a finding with serious implications for the safety of space travelers. The camera used to take pictures of the dark side of the earth by Astronaut Gordon Cooper on his May, 1963, flight was built at the University under the direction of Professor Ney.

In 1940, St. Paul-born, 28-year-old associate professor in the Department of Physics became an atomic pioneer as the first man to separate fissionable uranium-235 from uranium-238. Today, **Professor Alfred O. C. Nier**, chairman of the department, has an incredible biography which includes outstanding research and discoveries in areas of the age of the solar system, precision measurement of atomic masses and nuclear binding energies, interaction of cosmic rays with meteorites, composition of the upper atmosphere, and planetary atmosphere studies. He is also a long-time, active promoter for the improvement of science education. Professor Nier is retiring from his chairmanship in September to devote more time to teaching and research. The mass spectrometer which he built for his uranium research twenty-five years ago will be on future display in the Smithsonian Institution.

April, 1965

Other Physicists Whose Contributions To Space Science Have Also Been Outstanding

Professor George D. Freier, atmospheric electricity studies

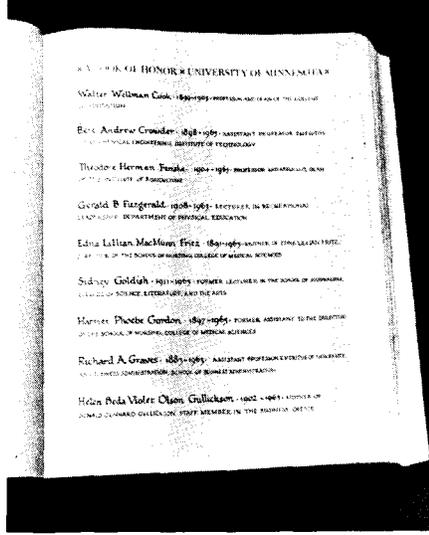
Research Associate Phyllis S. Freier, cosmic ray studies

Research Associate William F. Huch, space craft instruments development

Research Associate Raymond W. Maas, cosmic ray studies

Professor Homer T. Mantis, meteorology studies related to space

Assistant Professor Peter Signer, meteorite studies



THE BENEFACTORS

University of Minnesota Memorial Fund

Mrs. E. J. Meehan, Chairman

THE University of Minnesota Memorial Fund was established in 1955 by the Faculty Women's Club to provide a dignified way to perpetuate and honor the memories of deceased staff members of the University and their spouses.

The fund is administered by a board of trustees appointed by the President of the University. Included on the board are representatives of the Minneapolis, St. Paul, Duluth, and Morris campuses and their women's clubs.

Memorials given to the fund may be designated for one of many specific areas of University need. For example, memorials may be directed to medical research such as cancer or heart disease research, to scholarships or fellowships aiding students in a particular field of study, or to service funds such as the Dentistry Service Fund or the Forestry Service Fund.

Every attempt is made to follow a donor's wishes. If no designation for the memorial's use is made, the trustees give it to a University area of need as they see fit. Recently, six scholarships were provided with undesignated gifts—three for Minneapolis Campus students, and one each for St. Paul, Duluth, and Morris students. The scholarships were to be awarded to sons and daughters of deceased staff members. However, if no such eligible students applied, the scholarships could be awarded to any worthy student.

The family of a staff member memorialized through the University of Minnesota Memorial Fund may request that the trustees channel memorials into a specific University fund that reflects the interests of the deceased or aids researchers in finding a cure for the disease that caused his death. The trustees follow the family's request,

unless donors specify that their memorials aid a different fund than that named by the family. In such a case, the wish of the donor takes precedence over the request of the family.

When an individual is memorialized through the University of Minnesota Memorial Fund, his name, the years marking the span of his life, and a brief description of his association with the University are inscribed in a maroon, leather-bound volume called the *Book of Honor*. This book is kept in Walter Library when it is not on display by campus organizations.

Donors to the University of Minnesota Memorial Fund receive a letter of thanks from the University, an appropriate memorial card to send to the next of kin notifying him of the donation, and a receipt to denote a tax-deductible gift.

The memorial card, with an addressed and stamped envelope, is sent to the donor to forward to the next of kin rather than sent directly by the University so that the donor may see the card and know exactly the handling procedure taken by the University. This also allows him to destroy the card if he prefers that his gift remains anonymous.

The University also assists in raising larger memorials for specific purposes through its Special Projects Program of the Department of University Relations. This was done last year, for example, to honor the late Professor Lorenz G. Straub, former director of the St. Anthony Falls Hydraulic Laboratory. Professor Edward Silberman, acting director of the Laboratory, and his colleagues, wanted to establish a continuing memorial to bear Professor Straub's name.

To raise the necessary money for this project, a letter from Professor Silberman was sent to friends and associates of Professor Straub giving each the opportunity to assist with the plan. The Special Projects Program typed and mailed the letters for Professor Silberman, and sent each donor

a receipt, a letter of thanks from the University, and a memorial card to send to Professor Straub's family.

When the project is completed, the Special Projects Program will work with Professor Silberman and his colleagues to establish a fellowship or a library fund with the gifts received. A report will be sent to all contributors explaining how their donations were used to perpetuate Professor Straub's memory and interests.

Persons wishing to memorialize a staff member or a staff member's spouse through the University of Minnesota Memorial Fund should send contributions to the University of Minnesota Memorial Fund, in care of the Special Projects Program, 217 Morrill Hall, University of Minnesota, Minneapolis, Minnesota 55155. The name of the deceased, the name and address of the next of kin, and the donor's name and address should be included.

Families wishing to have donations made to the fund should state in the obituary notices, "Memorials to the University of Minnesota Memorial Fund are preferred."

A second fund, similar to the University of Minnesota Memorial Fund, is the General Memorial Fund. This is also of special interest to University staff members because it permits them to make contributions in memory of persons not associated with the University. As with the University of Minnesota Memorial Fund, contributions may be directed by the donor to any area of the University, and donors receive a letter of thanks, a receipt for their tax-deductible gift, and a memorial card to send to the next of kin. Contributions should be addressed to the General Memorial Fund, in care of the Special Projects Program.

More information on these funds, or help in making a contribution, may be obtained by calling the Special Projects Program, 373-4966.

(Editor's Note—Next month The Minnesotan will list the names of those memorialized in the Book of Honor during 1963-64.)

For Art's Sake

Outstanding Staff, New Quarters And a Gallery

The University's Department of Art considers itself not only a department devoted to the instruction of art majors, but a force which can and should affect the entire University community.

The description of the Department in the CLA bulletin reads, "The principal objective of the Department of Art is to contribute to the general education of all students at the University of Minnesota." According to Professor Carl D. Sheppard, Jr., chairman of the Department since 1963, this sentence exemplifies the spirit of the faculty.

To achieve its goal, the Department teaches a wide variety of art history and studio courses, maintains the University Gallery, works closely with Twin Cities galleries and museums, and has developed a series of lectures open to students and the public.

The Department boasts an exceptionally good group of art historians, said Professor Sheppard. Some reasons for this strength are: (1) The outstanding University library, contributing greatly to the possibilities for research and individual study, (2) Ample support and encouragement by the Graduate School, and (3) The richness of the Twin Cities area in museums, galleries, and public interest.

The Department's studio work area is also well-staffed, varied, and im-

Visiting Professor David Tolerton and Assistant Professor Katherine Nash discuss their work in sculpture amid the heads and figures cast by their students.



Alan Ominsky

portant. Studio art offered includes painting, print-making, sculpture, ceramics, and photography.

Many of the faculty members are well known and influential in their fields, said Professor Sheppard. Professors Allen Downs and Jerome Liebling have won numerous prizes and awards for their work in photography. Professor John Rood, on leave this year, is a highly respected sculptor. Professor Warren MacKenzie has had his work exhibited widely.

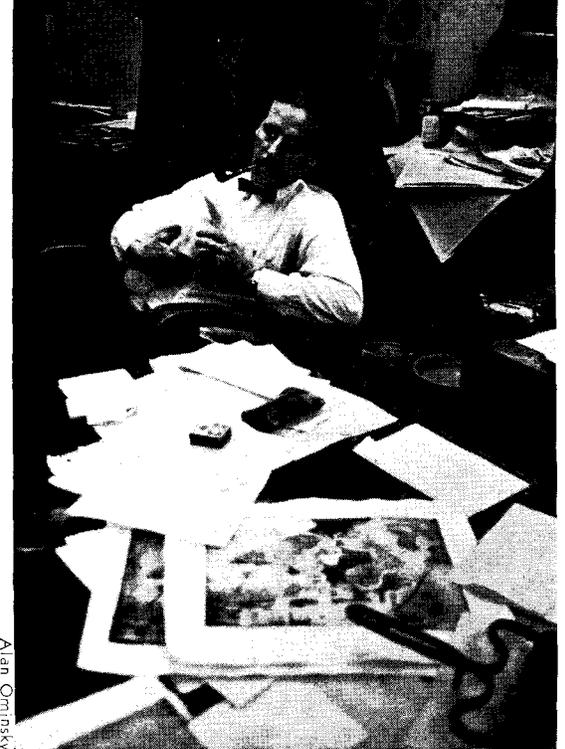
The Department attempts to bring visiting professional artists into each area to stimulate students and staff members and to provide new viewpoints. Visiting Professor David Tolerton, a professional sculptor, has spent two quarters teaching sculpture classes and thinks the experience has been beneficial, both for himself and for his students.

"It is important for us all to see that there is more than one window in the wall," he said. There is an exchange in both directions when students are allowed to work with people who are not professional teachers, but professional artists, he said.

Assistant Professor Katherine Nash, a regular faculty member of the sculpture studio, said that the most important consideration is to teach students "how to see." They become acquainted with a variety of techniques, she said, while their work is rigidly structured for several quarters. Then, when they understand the techniques and the problems, they are free to use their imaginations. "We try to incorporate their imagination with a capacity to see reality," she said.

Professor Malcolm Myers, who teaches print-making, keeps animals in his studio, both for enjoyment, and as a teaching aid. The animals illustrate many aspects of reality in line, movement, and texture, and also serve as subject matter.

The University Gallery, on the third and fourth floors of Northrop Memorial Auditorium, is maintained as a semi-autonomous, self-governing University unit, according to Professor Sheppard. It provides the student body with art objects of the highest esthetic quality, materials which are topical and historical in terms of the art world. The emphasis of the Gallery,



Alan Ominsky

Professor Malcolm Myers, an expert in print-making, enlivens his studio and his work with animals. Here, in a thoughtful mood, he soothes his pet rabbit Harvey.

staffed by Professor Sidney Simon and Curator Betty Maurstad, is on exhibitions, although it does maintain a permanent collection. The Gallery has attained a nationwide reputation for its success in combining the functions of exhibition and research, said Professor Sheppard. The Department works closely with the Minneapolis Institute and Walker Art Center on a variety of levels to bring art before the public.

Several artists and educators have spoken at the University under the new lecture program of the Department. Hopefully, the number and scope of such lectures can be expanded in the future, said Professor Sheppard.

The entire studio section of the Department which now can be found on the Minneapolis Campus in Jones Hall, the Holman Building, and other buildings, is scheduled to move to the West Bank Art Building next year. The move will undoubtedly strengthen the Department and stimulate more interaction among the various areas, according to Professor Sheppard. The new quarters, located at 2020 Washington Avenue, are well-designed for departmental needs and will house all studio classes and faculty members in one building.

U of M Week Exhibitors

EXHIBITOR	COORDINATOR	LOCATION	TOPIC
St. Anthony Falls Hydraulic Laboratory	Lecturer, Loyal A. Johnson	Southdale Garden Court	Flow Demonstration Unit
General Extension Division	Instructor, Beverly Sinniger	Southdale Garden Court	Pioneering Extension Services
College of Veterinary Medicine	Assistant Professor Glen H. Nelson	Southdale Garden Court	Teaching, Service and Research in Veterinary Medicine
Department of Information and Agricultural Journalism	Professor Gerald R. McKay	Southdale Garden Court	Publications and Information Services
Department of Agronomy and Plant Genetics	Professor Gerald R. McKay	Southdale Garden Court	New Crop Varieties
Department of Horticultural Science	Associate Professor Emil T. Anderson	Southdale Garden Court	Fruit Introductions
School of Forestry	Instructor Robert Thompson	Southdale Garden Court	Teaching, Research in Forest Products
Library	Assistant Professor Raymond Bohling	Midland National Bank	St. Paul Campus Library Facilities
Summer Session	Principal Secretary Marchet Sullivan	Commercial State Bank	Summer Session
Museum of Natural History	Museum Advisor Donald K. Lewis	Northern States Power Company	Taconite
Department of Geology and Geophysics	Instructor Charles L. Matsch	Marquette National Bank	Crystal Structure
Department of Naval Science	Lieutenant Stanley B. Palmer	Donaldson's-Golden Rule	Naval Science
Department of Art	Professor Josephine Rollins	Curtis Hotel	Watercolors
College of Pharmacy	Supervisor Leslie W. Collins	First National Bank	Education of Pharmacists
University Theatre	Assistant to the Director Merle Loppnow	Emporium	1964 Theatre Productions
Library School	Lecturer Marie Samanisky	Northwestern National Bank	Preparation for Library Work
Department of Physiology	Laboratory Tech. June Smith	St. Paul Science Museum	Laboratory Animal Care
University Press	Senior Clerk Typist Marilyn Johnson	Powers	Regional Books Published by the Press
School of Home Economics	Professor Gertrude A. Esteros	Twin City Savings & Loan Association	Related Art, Student Work
Audio-Visual Education Service	Director Wesley J. Grabow	Century Camera Shop	Color Slides of the University
General Extension Division	Instructor Beverly Sinniger	General Mills	Night School
Agricultural Extension Service	Associate Professor Robert W. Bath	Montgomery Wards	4-H
Concerts and Lectures	Assistant Director Geo. Michaelson	Sheraton-Ritz Hotel	Concerts & Lectures
College of Liberal Arts	Associate Dean John G. Turnbull	Donaldson's-Golden Rule	Faculty Publications and Students' Books
Department of Air Science	Captain Donley D. Eyolfson	Har-Mar Mall	Program in Space
Department of Zoology	Artist Marilyn Steere	University National Bank	Ultra-Structure of the Cell

Dean Verbrugge Receives Physics Award

Associate Dean of the Institute of Technology Frank Verbrugge was a recipient of this year's Distinguished Service Citation from the American Association of Physics Teachers.

The recognition is given for "outstanding contributions to physics teaching in colleges and schools."

The award was given to Dean Verbrugge in part for his service to the Association as secretary, president-elect, and president; for his "significant role . . . in establishing the Commission of College Physics" and the journal *The Physics Teacher*; for "his leadership in the organization of the Carlton Conference on improving the quality and effectiveness of introductory physics courses"; and for his service to the University of Minnesota.

Shepherd

(continued from page 5)

jective scientific experiments. We can, however, take pride in the fact that one of the few was a Minnesota experiment involving photography of the air glow by astronaut Gordon Cooper on May 15, 1963, using a camera built in our physics laboratories. The camera is presently on display in the new laboratories. Presently, one of Professor Ney's experiments is aboard the orbiting solar observatory which was launched February 3, 1965. Eleven experiments are now in preparation for future space flights, including four which will be flown on the Gemini flights which precede our attempts to land on the moon.

I have been telling you something of the activities which have been carried on in our Physics Department. The University's activities in space science, however, involve many disciplines. I should like only to mention a few. The studies of closed ecological systems carried on by Professor Tsuchiya, which have importance for long duration flights to other planets; the parasail glider studies in Aeronautical Engineering, which have significance with respect to the landing of re-entering space vehicles; the experiments of Professor Eckert in Mechanical Engineering on thermal sciences, which have had an important bearing on the design of nose cones for re-entering vehicles. Professor Robert Collins, Head of our Department of Electrical Engineering, heads a study group under NASA sponsorship to plan scientific experiments for the Apollo missions to the moon and those which will follow.

Ladies and gentlemen, as you may have guessed, we are proud of our space science research. It is, we believe, significant in terms of pure science, but much of the technology important to its prosecution, also has significance for our economy. Our ability to carry forward these activities depends on laboratories such as those which we opened this afternoon.

University of Minnesota Calendar of Events

April 1-15, 1965

CONVOICATIONS

(Open to the public without charge.)
Northrop Auditorium, 11:30 a.m.

- Thursday, April 1—John Jacob Niles, folk singer
- Thursday, April 8—"The Problems of the United Nations," His Excellency Alex Quaison-Sackey, President of the General Assembly of the United Nations
- Thursday, April 15—Won Kyung Cho, Korean dancer

MINNEAPOLIS SYMPHONY ORCHESTRA

Northrop Auditorium

- Friday, April 2—Richard Tucker, Tenor with the Minneapolis Symphony Orchestra. Program: Works by Vivaldi, Sibelius, Elgar, Enesco and Villa-Lobos, 8:30 p.m.
- Sunday, April 4—Arthur Fiedler, guest conductor with concertmaster Norman Carol as violin soloist, 4:00 p.m.
- Friday, April 9—Hermann Uhde, Baritone, in "Wozzeck," Act III. The rest of the program will include Schubert, Prokofieff and Berg, 8:30 p.m.
- Saturday, April 10—Tyrone Guthrie Theatre—Second SINFONIA presentation. Combines drama, music and dance. Done in cooperation with members of the Minnesota Theatre Company under the direction of Douglas Campbell, Associate Director of the Tyrone Guthrie Theatre.
- Sunday, April 11—The George Shearing Quintet. Will do popular songs plus Mr. Shearing will also appear as guest soloist with the Orchestra in a piano concerto from the classical repertoire. 4:00 p.m.
- Wednesday, April 14—Ferrante & Teicher. Duo-pianists, 8:30 p.m.

UNIVERSITY ARTISTS COURSE

Celebrity Series

Northrop Auditorium, 8:30 p.m.

- Saturday, April 10—Roger Williams, "Mr. Piano" with his group and the Dutton Percussion Ensemble; Ticket prices \$2.00, \$3.00, \$3.50, \$4.00, \$4.50*

MUSEUM OF NATURAL HISTORY SUNDAY PROGRAMS

Museum Auditorium, 3:00 p.m.

- Sunday, April 4—Biological Problems Facing Mankind by Dr. Eville Gorham
- Sunday, April 11—Whaling on the Big Viola

ATHLETIC DEPARTMENT EVENTS

Baseball

Delta Field

- Tuesday, April 6—Mankato State College (2), 2:00 p.m.
- Friday, April 9—North Dakota State College (2), 2:00 p.m.
- Saturday, April 10—Augustburg College (2), 1:00 p.m.
- Tuesday, April 13—College of St. Thomas, 3:30 p.m.; Tickets sold at gate only. \$1.00 for adults; \$.50 for children

ST. PAUL CAMPUS STUDENT CENTER

Galleries

Sunday, 12:00 noon-11:00 p.m.

Monday through Saturday

7:00 a.m.-11:00 p.m.

- Thursday, April 1 through Thursday, April 8—Horticulture Club Exhibit
- Thursday, April 1 through Monday, April 2—Town and Country Art Show
- Thursday, April 1 through Thursday, April 15—Glen West—Religious Oils
- Saturday, April 3 through Monday, April 19—Marvis Bjornberg Oils

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge.)

- Saturday, April 3—Concert Band Ensemble, Northrop Auditorium, 8:30 p.m.
- Sunday, April 4—Kumiko Gono piano recital, Scott Hall Auditorium, 8:30 p.m.
- Sunday, April 11—Ona Morton flute recital, Scott Hall Auditorium, 8:30 p.m.
- Tuesday, April 6, Tuesday, April 13—Music Hour. Scott Hall Auditorium, 11:30 a.m.

UNIVERSITY GALLERY EXHIBITIONS

Northrop Auditorium

8:30 a.m.-4:30 p.m.

Monday through Friday

- Wednesday, April 7 through Thursday, April 15—Pierre Alechinsky Paintings
- Wednesday, April 7 through Thursday, April 15—M.F.S. Thesis Exhibitions Douglas Ross
- Wednesday, April 7 through Thursday, April 15—M.F.S. Thesis Exhibitions Jerry Horning

UNIVERSITY THEATRE PRODUCTIONS

Shevlin Hall Arena Theatre

- Thursday, April 8; Friday, April 9; Saturday, April 10; Tuesday, April 13; Wednesday, April 14; Thursday, April 15; 8:00 p.m.;—"Ralph Roister Doister" by Nicholas Udall; Ticket prices are \$1.25 on Sunday through Thursday; \$1.50 on Friday and Saturday.

UNIVERSITY FILM SOCIETY

- Friday, April 2, Saturday, April 3—"Children of Paradise" original version (1944, France); shown at the Museum of Natural History, 7:30 p.m. Admission \$1.25.

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

Classroom Lecture

- Mondays, Wednesdays, Fridays, 11:00 a.m.: "Race and Nationality in American History." This three credit History course will be broadcast from the classroom of Lecturer Allen H. Spear. The subject matter deals with the historical role of ethnic minorities in American society, the changing attitudes of white Anglo-Americans toward Negroes, Orientals, and European immigrants; and the varying responses of these groups to their minority status. The lectures will cover the period from about 1914 to the present.

Gateway to Ideas

- Wednesday, 4:00 p.m.; a series of 26 half-hour discussion programs demonstrating the value of reading as a source of ideas and lively conversation. Presented in cooperation with the Public Libraries in the KUOM listening area.

Legislative Reports

Fridays, 4:45 p.m.

and

Public Affairs Forum

Mondays, 1:30 p.m.

- To encourage better understanding and appreciation of the work of the State Legislature, KUOM continues to broadcast the features Legislative Reports and Public Affairs Forum with the participation of members of the Legislature. Public Affairs Forum deals with issues undergoing legislative deliberation. Problems of higher education in Minnesota receive special attention on both programs.

* Reservations may be made at 105 Northrop Auditorium.

Tickets for these events are also available at Daytons and Field-Schlick on Monday of the week prior to performance.

University of Minnesota Calendar of Events

April 16-30, 1965

UNIVERSITY THEATRE PRODUCTIONS

Scott Hall Auditorium Series

Thursday, April 22, Friday, April 23; Saturday, April 24; Tuesday, April 27; Wednesday, April 28; Thursday, April 29; Friday, April 30, 8:00 p.m.; Tuesday, April 27, 3:30 p.m.: "A Company of Wayward Saints" by George A. Herman; Ticket prices are \$1.75 on Sunday through Thursday; \$2.00 on Friday and Saturday.

Shevlin Hall Arena Theatre

Friday, April 16; Saturday, April 17, 8:00 p.m.; Sunday, April 18, 3:30 p.m.: "Ralph Roister Doister" by Nicholas Udall; Ticket prices are \$1.25 on Sunday through Thursday; \$1.50 on Friday and Saturday.

ATHLETIC DEPARTMENT EVENTS

Baseball

Delta Field

Tuesday, April 20—Carleton College (2), 2:00 p.m.

Friday, April 23—Purdue, 3:30 p.m.

Saturday, April 24—Illinois (2), 1:00 p.m.; Tickets sold at gate only. \$1.00 for adults; \$.50 for children

COFFMAN MEMORIAL UNION

Sunday, April 25 through Saturday, May 1—Creative Arts Festival, featuring programs of music, drama, dance, literature, and art; presented by the Union Board of Governors

MINNEAPOLIS SYMPHONY ORCHESTRA

Northrop Auditorium

Friday, April 16—"Jeanne d'Arc au Bucher," Vera Zorina narrator; University of Minnesota Chorus, soloists. The program will also include works by Bach, Boulez and Honegger.

UNIVERSITY ARTISTS COURSE

Special Concert

Saturday, April 24—"An Israeli Musical Adventure," pianist David Bar-Illan with Gary Bertini, Israeli conductor, and the Minneapolis Symphony Orchestra, including the music of Paul Ben-Haim, Northrop Auditorium, 8:30 p.m.; Ticket prices \$2.00, \$3.00, \$4.00, \$4.50, \$5.00*

UNIVERSITY GALLERY EXHIBITIONS

Northrop Auditorium

8:30 a.m.-4:30 p.m.

Monday through Friday

2:00 p.m.-5:00 p.m.

Sunday, April 25

Friday, April 16 through Thursday, April 22—M.F.A. Thesis Exhibitions, Douglas Ross

Friday, April 16 through Friday, April 30—M.F.A. Thesis Exhibitions, Jerry Horning

Wednesday, April 28 to Wednesday, May 12—M.F.A. Thesis Exhibitions, Urve Bakis

Wednesday, April 28 to Wednesday, May 12—M.F.A. Thesis Exhibitions, Stan Sutter

CONVOICATIONS

(Open to the public without charge.)

11:30 a.m.

Thursday, April 22—His Excellency Avraham Harman, Ambassador of Israel to the United States, Northrop Auditorium

Thursday, April 29—Creative Arts Festival, Main Ballroom, CMU

ST. PAUL CAMPUS STUDENT CENTER

Galleries

Sunday, 12:00 noon-11:00 p.m.

Monday through Saturday

7:00 a.m.-11:00 p.m.

Friday, April 16—Glen West - Religious Oils

Monday, April 19 through Friday, April 30—Related Art Show

Tuesday, April 20 through Friday, April 30—Lee Emberly Oils

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge.)

Sunday, April 25—Symphonic Band, Northrop Auditorium, 4:00 p.m.

Sunday, April 25—Nancy Hughes piano recital, Scott Hall Auditorium, 8:30 p.m.

Friday, April 30—Student-Faculty Chamber Recital, Mayo Auditorium, 8:30 p.m.

Tuesday, April 20, Tuesday, April 27—Music Hour, Scott Hall Auditorium, 11:30 a.m.

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Tickets for these events are also available at Daytons and Field-Schlick on Monday of the week prior to performance.

THE MINNESOTAN

Department of University Relations

217 Morrill Hall

University of Minnesota

Minneapolis, Minnesota 55455

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THE MINNESOTAN

The University Staff Magazine - May 1965





The President's Page

In February I announced to the Board of Regents the establishment of an all-University Planning Office. I would like to take this opportunity to convey to you some of our hopes for this office.

Planning, of course, is not new to the University of Minnesota. We could not have achieved our current position were it not for extensive planning conducted by many people in many parts of the University. However, in recent years we have noted an increasing need for a central location through which all of our long-range planning efforts might be coordinated. Growth of the University coupled with obligations and responsibilities that change at an ever-increasing pace require that planning no longer be viewed as a periodic or sporadic operation. The need to insure planning on a continuing basis for all aspects of the University's operation was the prime consideration in establishing the new office.

There is no proven formula to suggest how planning can best be done in a large American university. Many universities have a planning office, but functions of the office vary among institutions. It is our belief that planning can be performed best if academic and physical planning can proceed hand-in-hand; thus the Planning Office reports directly to the President. It is our intention that the principal role of the Planning Office will be to coordinate and

facilitate planning within existing operating units. In this way we can best utilize the expertise of staff members while insuring an orderly and comprehensive planning effort. At the same time it will make unnecessary the addition of a large planning staff.

Our planning needs are broader than those relating directly to University programs and facilities. More than ever before, urban universities are realizing the importance of healthy surroundings. I am asking the Planning Office to cooperate with community planning agencies in the Twin Cities, Duluth, and Morris in working to strengthen the environment of the total community in which we live and work.

Our new Planning Office should not be regarded as a panacea for all future problems of the University. Nor should it be regarded as an agency to perform the planning duties for all departments and divisions of the University. Rather, we should regard this as an instrument to coordinate the many ambitions of the University into orderly and meaningful development—the fruits of which, in time, will contribute materially to the well-being of our University.

O Meredith Wilson

On the cover . . .

Wet walking
through a spring puddle
in black, shiny, rubber rain boots
rippling the reflection of Northrop.

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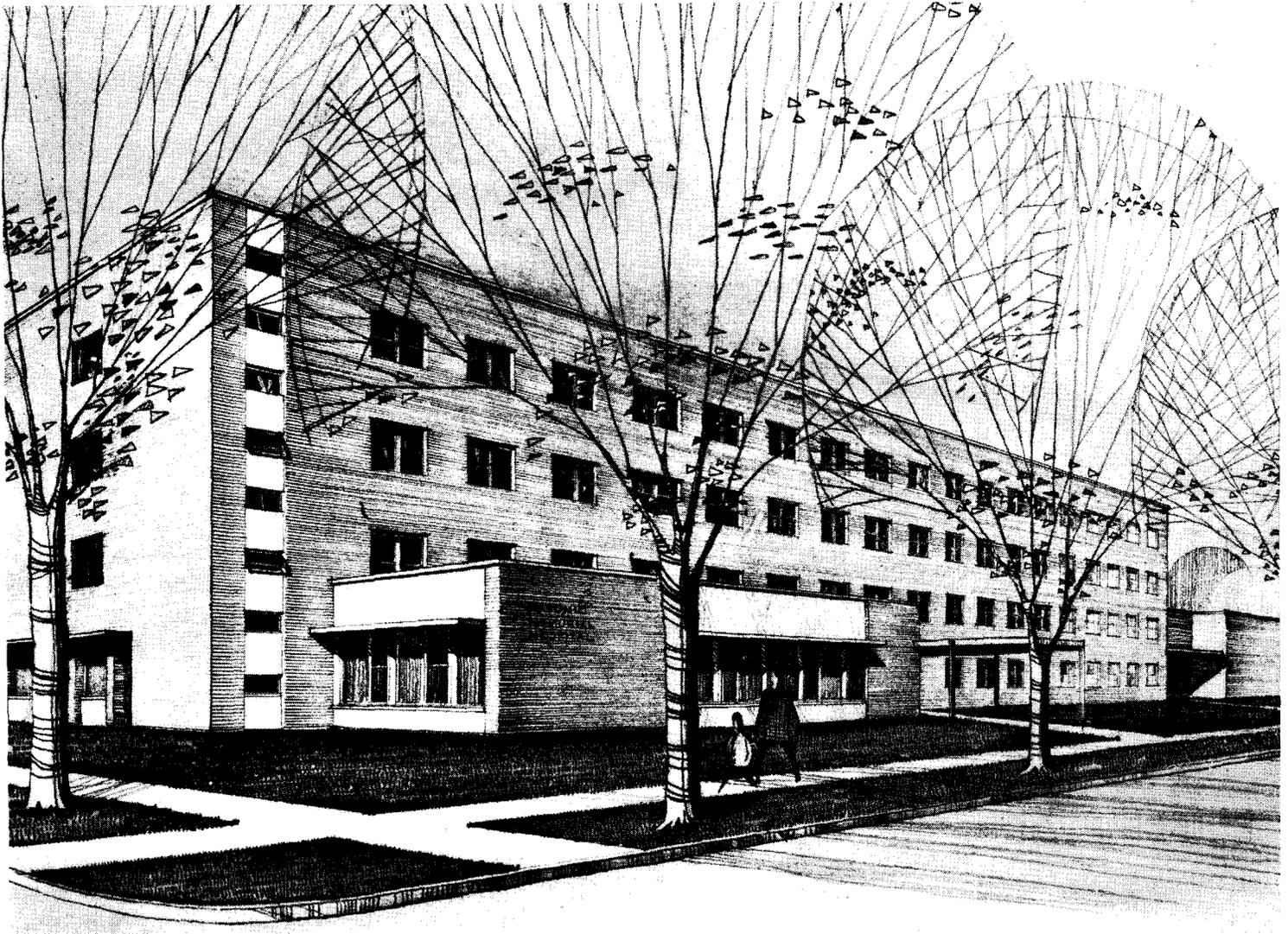
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Adrienne Noel Editorial Assistant
Advisory Committee: Members of the University Public
Information Council

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Photographs, unless otherwise credited, were taken by members of the University Photographic Laboratory. Cover photo by Alan Ominsky.

Second class postage paid at Minneapolis, Minnesota.



The Masonic Memorial Hospital as it will look after the new third and fourth floors are added.

“BUILDING as masons build—brick upon brick, stone upon stone—the members of the Masonic Fraternity of Minnesota have created a hospital devoted to the care of those afflicted with cancer; they have dedicated their work to God, and they have pledged their hospital to comfort and succor those who suffer now from this disease, and those who, when cancer is no longer feared, will suffer from other chronic ills; in the face of a disease which now strikes a strange and nameless fear into the hearts of men, the Masons have asserted their faith in the power of love to cast out fear, and in the power of men’s minds to discover truth; this hospital, built on a foundation of faith, is not a place of desolation; its shining corridors reflect the belief that fear cannot be without hope.”

SO SAID THE REGENTS on September 17, 1960, when they gave their highest award to the Masons of Minnesota who since 1958 have given a place of refuge to victims of cancer and other dread diseases by building the Masonic Memorial Hospital.

Now the need is once more felt, and again the Masons have responded. This year the Hospital will be expanded through their generosity; it will continue on a larger scale to care for the afflicted and to search for the means to more effectively control cancer.

(continued)



Dean Robert B. Howard, Campaign Manager Clyde E. Hegman, Masonic Past Grand Master Paul M. Olstad, and Vice President Laurence R. Lunden hoist a slab of limestone coping from the parapet of the Masonic Memorial Hospital roof. Construction of two additional floors will begin this spring with money raised by Minnesota Masons.

Shown reading the Hospital's dedication plaque are (left to right) Nephew Darwin Peterson, Father Harry Peterson, and Son John Peterson, all of Crescent Lodge 207, Staples. This lodge, with 167 members, achieved 100 per cent participation in the hospital fund campaign.



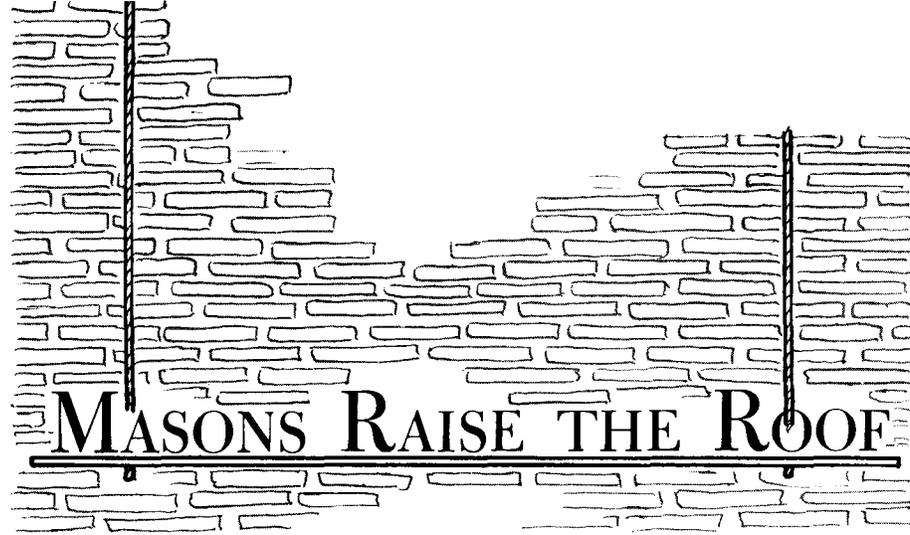
Nursing Supervisor Pat Kline explained the Hospital's occupational therapy facilities to a group of visiting Masons. Equipment in this area provides patients with necessary diversion from the problems of health. Popular activities include using the sewing machine, table looms, and rug hooking frames.



Dr. B. J. Kennedy, chairman of the Masonic Memorial Hospital Committee, spoke about the Hospital and its work.

More than 650 Masons visited the Hospital on March 17 and later attended a dinner in honor of their fund-raising endeavors.





MASONS RAISE THE ROOF

ON March 20, 1963, the Masons pledged \$1,100,000 to build two additional floors to the Masonic Memorial Hospital. On March 17, 1965, Mr. Clyde E. Hegman, Minneapolis, campaign chairman and president of the Masonic Memorial Hospital Fund, Inc., announced that the fund had reached a remarkable \$1,007,000. Only \$93,000, less than 10 per cent, was needed to meet the goal.

Speaking after a dinner held in honor of the Masons, Mr. Hegman was met with enthusiastic response when he proposed the adoption of the slogan "10% by Summer."

Construction of the addition will begin this spring and continue for about eighteen months.

The new third floor will consist of rooms for the care of forty patients, including five young adults, increasing the Hospital's capacity from eighty to 120 beds.

The fourth floor will house specialized research laboratories for expanded study of cancer detection, chemical therapy of cancer, basic problems of cancer growth, and malignant diseases in children and adults.

A "roof-raising" ceremony was held by Masonic and University officials to symbolize the start of construction of the two additional floors. Standing on the roof, Masons and University administrators watched, ignoring strong winds and blowing snow, as a slab of limestone coping was hoisted from the parapet.

Later, more than 650 masons from most of the state's 288 lodges toured Masonic Memorial Hospital and attended a reception in the Campus Club and the dinner in the Union Main Ballroom.

Mr. Paul M. Olstad, Bemidji, past

grand master of the Masons in Minnesota, spoke briefly following the dinner. Twice a cancer patient himself in Masonic Memorial Hospital, Mr. Olstad said, "I entered the Hospital weak in body and deteriorated in spirit. I left increasingly stronger and filled with a glorious hope."

Dr. B. J. Kennedy, associate professor of medicine and chairman of the Masonic Memorial Hospital Committee, narrated a film taken in the Hospital.

Dr. Kennedy emphasized the important advances already accomplished by investigators in the Masonic Hospital. Successful treatments for leukemia, lymphoma, and cancer have been reported.

The aim of the extensive cancer research at the Hospital is to destroy or control cancer. Today, in some patients this has been attained. Others return for further treatment. And there are failures. The new facilities, providing opportunities for an increased program of research, patient care, and teaching, will decrease these failures, said Dr. Kennedy.

Masonic Memorial Hospital is part of the University of Minnesota Hospitals. The building is a separate unit, but is connected to the main hospital by a tunnel. This provides the advantages of centralized administrative and medical services in an atmosphere in which home-like chronic care can be practiced. Administrator of the Hospital is Mr. Ames S. Early, assistant director of University Hospitals.

More than 6,100 patients have received care in the Hospital. Admission policies require that a patient must be referred by his family physician or a physician in his local community.

Financially, there are three types of patients who use the hospital—those who are totally unable to pay, those who pay for the hospital costs only, and private patients.

Patients in all stages of illness are treated at the Hospital.

These patients provide an excellent opportunity for the teaching of cancer patient care. Second-year medical students work with patients during a course on physical diagnosis. Third and fourth-year medical students are assigned to the Hospital as part of their medical clerkship.

An occupational therapy program aids in the rehabilitation of patients. The creative results serve as a remarkable tribute to the will of the patients and influence of the therapists.

The support of volunteer groups and individuals provides many of the Hospital's diversional programs. This includes maintaining a library, and a beauty shop. Volunteer groups have also made favors for trays and tables, developed a program of monthly afternoon entertainment, and arranged evening movies.

The University's Cancer Detection Center located in Masonic Hospital is operated to determine and evaluate new and existing methods of detecting the presence of cancer in the earliest possible stage. Approximately 5,000 healthy men and women receive an annual physical examination at the Center. The early detection of cancer has decreased the mortality rate of people discovered to have cancer in its early phase.

Control of cancer remains the fixed but elusive goal of the world's cancer investigators. This building, with its future addition, is encouragement that the goal will be pursued and achieved.



Microphones in place; curtains pulled; Hey! Get another chair. These are concerns of **Stage Custodian and General Troubleshooter Arthur Ernest** at every commencement. He is pictured above with **Professor of Music Roy A. Schuessler** whose rich, full voice has led thousands of commencement guests in singing "The National Anthem" and "Hail! Minnesota." Serving as Invocator at the March ceremonies was **The Reverend Gordon J. Dahl** (right), pastor at Luther Hall on the St. Paul Campus. Presenting the Colors (below left to right) were **Air Force ROTC Cadet Duane Kratz**, soph.; **Army ROTC Cadet Craig Traviss, jr.**; **Army ROTC Cadet Ronald Kohls, fr.**; **Navy ROTC Midshipman John Rome, jr.**



SEVEN HUNDRED AND EIGHTY-ONE black robed figure swiftly marched across the stage, tassels flying, to receive their diplomas. These graduates at the winter quarter Commencement Exercises brought the number of degrees granted by the University to 179,266 since its first graduation on July 19, 1873. An impressive number of graduates . . . hundreds of commencement ceremonies . . . made possible by an impressive number of staff members. Commencement, the University's largest quarterly event (plus twice in summer), depends not only on graduates, but musicians, invocators, parking attendants, secretaries, speakers, marshals, bookstore rob clerks, stage hands, electricians, printers, and countless others. All work with admirable cooperation to produce a dignified ceremony which signifies to each graduate the celebration of an important milestone.

Following the March ceremonies, the graduates and their friends were invited to attend the President's Reception in the Union. In charge of various duties at the reception were students and staff member including those from the Senate Committee on University Functions, the Minnesota Student Association, the Union Board of Governors, the Army ROTC, and others.

Photos by Alan Ominsky

President Wilson and **Associate Professor James L. Gibbs, Jr.**, don academic costume before the ceremonies begin. Professor Gibbs of the Anthropology Department delivered the commencement address entitled "Ethnocentrism in the University." At each commencement, President Wilson welcomes guests on behalf of the University, introduces the speaker, and confers certificates and degrees.



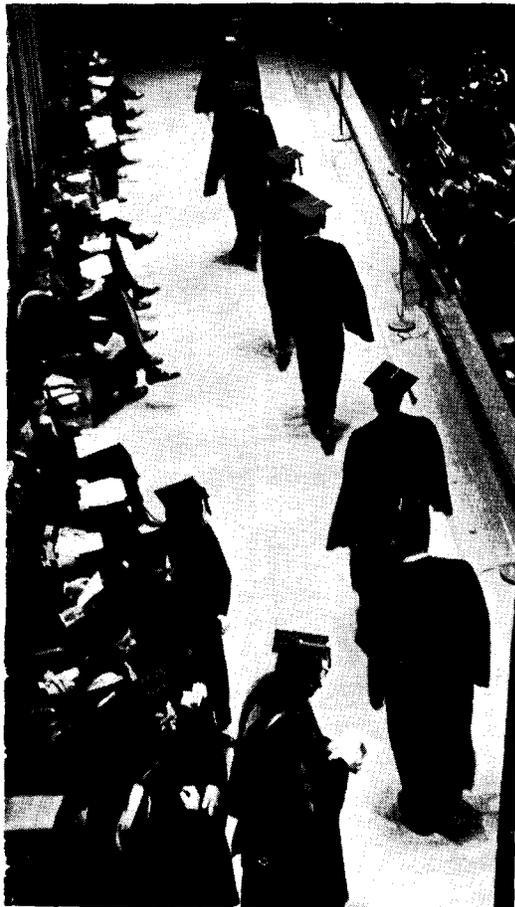
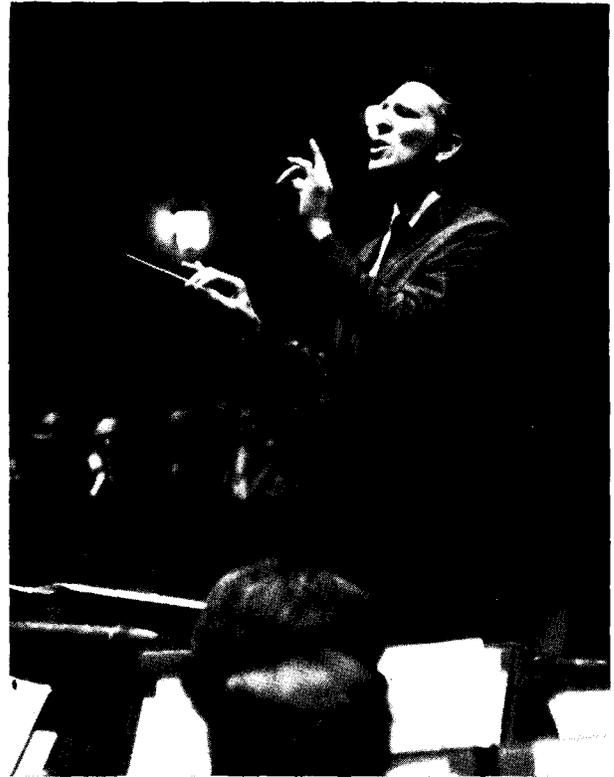
The Minnesotan



The University Concert Band Ensemble, conducted by **Bandmaster Frank P. A. Ben-criscutto**, gives outstanding musical dignity at every winter quarter commencement with a prelude concert, processional, recessional, and at various other times throughout the ceremony.

WE

The Staff Members and Friends of the University at Winter Quarter Commencement



On the stage as the graduates are presented and receive their diplomas are deans, vice presidents, marshals, speaker, invocator, and other University representatives. See a complete list on page 10.



Four Faculty marshals lead the candidates for degrees into the auditorium. In March, the marshals were **Professor John W. Clark**, (far left), CLA; **Professor Richard B. Mather**, CLA; **Professor Truman R. Nodland** (above left), Institute of Agriculture; and **Professor Rodney C. Loehr**, CLA. Marshal Clark, as mace bearer, carried the mace to the center of the stage and placed it in its cradle to signal the beginning of the ceremony.

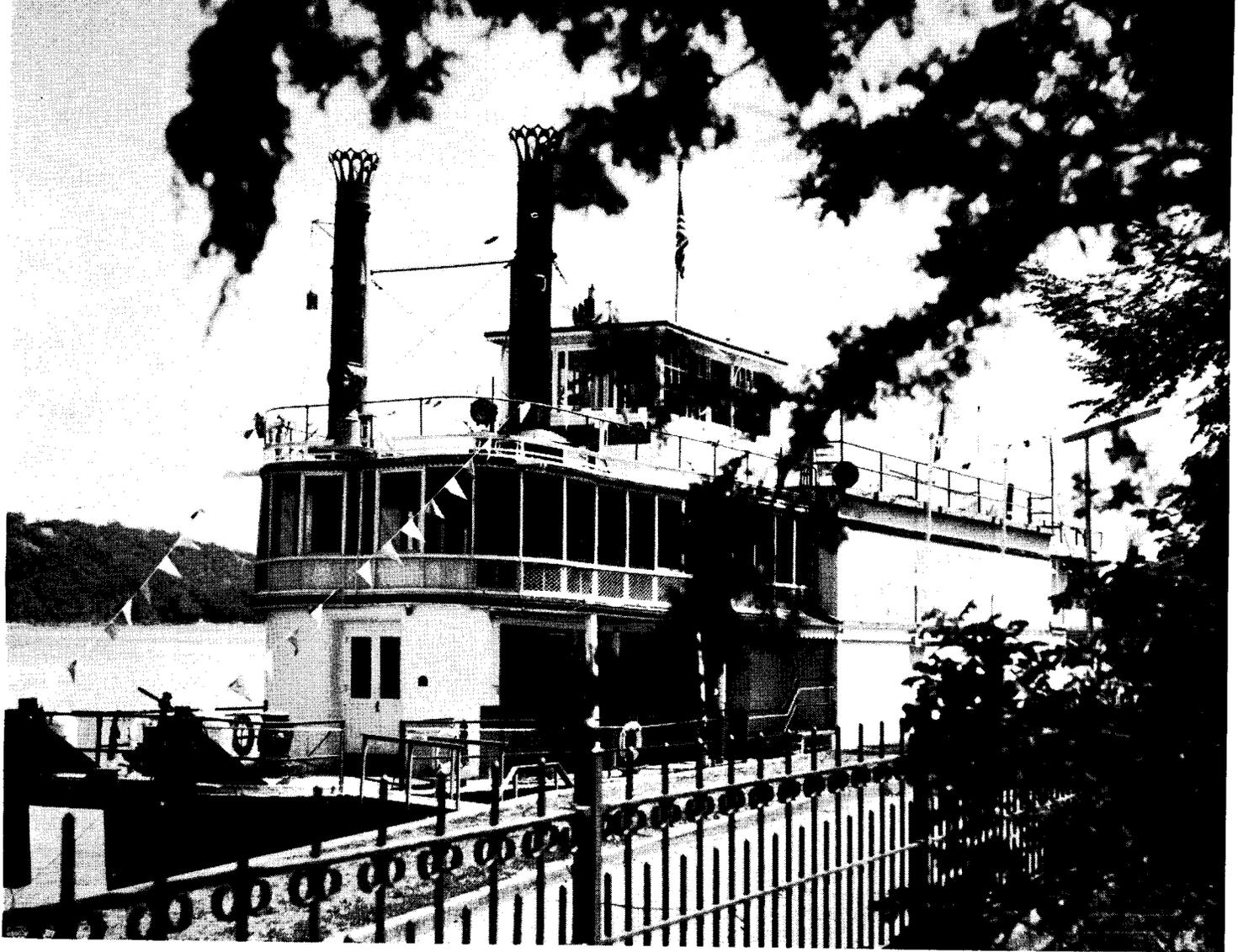
(continued on page 10)

THE BENEFACTORS

University benefactors have memorialized thirty-six staff members or their spouses with contributions to the University of Minnesota Memorial Fund since 1963. The names of those so memorialized appear below and also in a large, leather-bound volume called

The Book of Honor

- ARLOUINE H. ADAMS, 1923-1964, Wife of Dr. Paul Adams, Jr., Associate Professor, Department of Pediatrics, College of Medical Sciences
- LOYST C. CAVERLEY, 1901-1964, Professor of Electrical Engineering, Institute of Technology
- JONAS JERGEN CHRISTENSEN, 1892-1964, Professor Emeritus of Plant Pathology and Botany, College of Agriculture, Forestry, and Home Economics
- WILLIAM HOPKINS CRAWFORD, 1899-1964, Professor of Dentistry, School of Dentistry
- MYRTA R. CUTLER, 1878-1964, Widow of Alain Sayles Cutler, Professor Emeritus of Civil Engineering, Institute of Technology
- MATTIE AKER DALAKER, 1877-1964, Widow of Hans H. Dalaker, Professor Emeritus and Head of the Department of Mathematics and Mechanics, and the Department of Drawing and Descriptive Geometry, Institute of Technology
- HENRY C. T. EGGERS, 1893-1964, Professor Emeritus of Drawing and Descriptive Geometry, Institute of Technology
- STELLA D. FERRIN, 1883-1964, Wife of Evan F. Ferrin, Professor Emeritus and Head of Animal Husbandry, College of Agriculture, Forestry, and Home Economics
- EDWIN HOPKINS FORD, 1891-1964, Associate Professor Emeritus of Journalism, College of Science, Literature, and the Arts
- CLEMENT H. GRIFFITH, 1899-1964, Assistant Professor of Agronomy and Plant Genetics, North Central School
- LYLE F. GRIGGS, 1906-1964, Inventory Supervisor, Business Office
- MAY W. GROUT, 1874-1964, Widow of Frank Fitch Grout, Professor Emeritus of Geology and Mineralogy, College of Science, Literature, and the Arts
- ALBERT M. HANSEN, 1892-1964, Former Manager, Married Student Housing
- FREDERICK GEORGE HOLDAWAY, 1915-1964, Professor of Entomology, Department of Entomology, Fisheries, and Wildlife, College of Agriculture
- HARVEY M. HOYT, 1915-1964, Associate Dean, Professor and Head of the Department of Veterinary Medicine and Clinics, College of Veterinary Medicine
- WILLIAM A. LAING, 1911-1964, Husband of Lucille R. Laing, Secretary, Department of Mechanical Engineering
- MONICA LANGTRY, 1894-1964, Assistant Professor Emeritus of Rhetoric, Institute of Agriculture
- RUTH G. LIPPERT, 1916-1964, Wife of John W. Lippert, Lecturer, Evening and Special Classes, General Extension Division
- ANDREW A. MEDVEC, 1906-1964, Former Staff Member, Athletic Ticket Office
- DAVID E. MEHLING, 1916-1964, Husband of Janet Mehling, Instructor and Music Supervisor, Laboratory School, University of Minnesota, Duluth
- THEODORE MERTENS, 1893-1964, Husband of Rose M. Schettgen Mertens, Former Instructor of Music, School of Agriculture
- HUNTINGTON MILLER, 1907-1964, Former Professor and Associate Dean and Program Director of Extension Classes, General Extension Division
- CHARLES F. MORGAN, 1911-1964, Professor and Assistant Head of Anatomy, College of Medical Sciences
- WILLIAM E. MORRIS, 1886-1964, Professor Emeritus and Extension Animal Husbandman, Agricultural Extension Service, Institute of Agriculture
- ANN MURPHY, 1893-1964, Former Administrative Secretary, Science and Liberal Arts Administration
- THOMAS LEO O'HEARN, 1891-1964, Former Attorney and Real Estate Manager
- EDNA LAMB PEASE, 1878-1964, Widow of Levi Beckley Pease, Professor Emeritus of Mines and Metallurgy, Institute of Technology
- ROY CLIFFORD PRENTIS, 1915-1964, Former Associate Professor of General Education, College of Education
- WILLIAM A. RILEY, 1876-1963, Professor Emeritus and Former Head of the Department of Entomology and Economic Zoology, Department of Agriculture
- ELLA JOY ROSE, 1891-1964, Professor Emeritus of Home Economics Education, College of Education
- VERNA GOLDEN SCOTT, 1876-1964, Widow of Carlyle McRoberts Scott, Professor Emeritus and Chairman of the Music Department, College of Science, Literature, and the Arts
- LORENZ G. STRAUB, 1901-1963, Professor and Head of the Department of Civil Engineering, Institute of Technology, and Director of the St. Anthony Falls Hydraulic Laboratory
- ELEANOR K. WANDKE, 1878-1964, Custodial Worker, Health Service
- FLORENCE K. WELLNITZ, 1895-1964, Former Editorial Proofreader, Printing Department
- BEULAH F. WHITE, 1874-1964, Wife of Solon Marx White, Professor Emeritus of Medicine, Department of Medicine



SHOWBOAT '65

"Here Comes the Showboat!" Yes, Folks, that means Here Comes Melodrama! Melodrama that's Romantic! Sensational! (Not to mention the Thrills it evokes.) Stilted dialogue; acting that's more than slightly stagey. And (sigh) behold the handsome Hero who bounds to save to lovely Heroine from a Fate Worse Than Death. Well, Folks, that's Theatre.

The Theatre Department's Showboat will lower the gangplank on its eighth season May 25 with George Bernard Shaw's "Arms and the Man." In keeping with traditional melodrama, the play promises to make the ladies swoon and the men hiss, according to Showboat Captain Frank M. Whiting, University Theatre director.

The anonymous play "Because I Love You," also a
May, 1965

blood and thunder melodrama, is the season's alternate play. (Loud booing is encouraged; shooting the villain with intent to kill is strictly forbidden . . . Showboat rules.)

The two plays will run a total of ninety-nine performances, an increase of eleven over last year, at its Minneapolis dock near the Mississippi river flats and its St. Paul dock at Harriet Island. The fun afloat season ends August 28. Counter ticket sales begin May 1.

Attendance last year, with the aid of "standing room only" ticket sales, totaled 102.5 per cent, said Professor Whiting.

In the fall, the river packet was towed 475 miles to Keokuk, Iowa, for repairs and Coast Guard inspection. It returned in November to be moored over the winter near the University's Heating Plant.

Alan Ominsky



Learn

Professor Elmer W. Learn, assistant to the President, has been named to administer a new long-range University Planning Office (see The President's Page).

"The office will serve as a central clearing office for planning in all aspects of the University," said Professor Learn, "including academic programs, physical facilities, and relationships with the surrounding communities."

According to Professor Learn, reasons for instituting the new procedures are to coordinate the planning which now is dispersed throughout the University and to place emphasis on the role of planning in overall University operations.

He stressed that the new unit will

not displace existing administrative units but is intended to improve their effectiveness in achieving overall University goals.

In practice, he explained, the new office will work with faculty and administrators in formulating long-range plans for each of the University's institutes and colleges. Central review of the individual plans will be provided by an all-University planning committee which will then recommend plans to the President and vice presidents for submission to the Board of Regents.

"The staffing of this new office is now part of the planning," said Professor Learn. By mid-May a complete organizational program for the office will be announced, he said.



Anderson



Cashman



Bjornlie

Administrative Appointments Announced

DR. ROBERT K. ANDERSON, professor of veterinary bacteriology and public health, was named associate dean of the College of Veterinary Medicine by the Board of Regents in March. Dr. Anderson has been a University professor since fall of 1957 and was an associate professor in 1956-57. He succeeds Professor Harvey H. Hoyt who died last fall.

The Regents also approved two other promotions in the College of Veterinary Medicine. DR. DALE K. SORENSEN was appointed head of the Department of Veterinary Medicine and Clinics, and DR. DONALD G. LOW was named director of the clinics. Dr. Sorensen, who joined the University

staff in 1953, has been a professor in the department since 1959. Dr. Low has been a professor in the clinics since 1961 and joined the staff in 1950.

The appointment of two aides to Vice President Stanley J. Wenberg became effective April 1. PROFESSOR OF RHETORIC PAUL H. CASHMAN was named to the newly created post of assistant vice president. RESEARCH FELLOW C. LLOYD BJORNLIE was advanced to assistant to the vice president and executive secretary of the University Senate Committee on Institutional Relationships. Mr. Bjornlie succeeds Mr. RICHARD E. WHITE who has been named planning director of the Minnesota Junior College Board.

Commencement

(continued from page 7)

Seated on stage during the March Commencement Ceremonies were PROFESSOR JOHN W. CLARK, College of Liberal Arts, faculty marshal; PROFESSOR RICHARD B. MATHER, College of Liberal Arts, faculty marshal; RECORDER TRUE E. PETTENGILL, Admissions and Records; CAPTAIN DANIEL R. ZENK, U.S.A., Assistant Professor of Military Science; DEAN E. W. ZIEBARTH, College of Liberal Arts; LT. COMMANDER IAN G. POTTINGER, U.S.N., Assistant Professor of Naval Science; PROFESSOR RICHARD C. JORDAN, Institute of Technology; DEAN ROBERT J. KELLER, College of Education; ASSOCIATE DEAN CHARLES V. NETZ, College of Pharmacy; DEAN ROBERT B. HOWARD, College of Medical Sciences.

VICE PRESIDENT STANLEY J. WENBERG, Educational Relationships and Development; ASSISTANT VICE PRESIDENT DONALD K. SMITH, Academic Administration; THE REVEREND GORDON J. DAHL, Luther Hall, invocator; ASSOCIATE PROFESSOR JAMES L. GIBBS, JR., College of Liberal Arts, commencement speaker. PRESIDENT O. MEREDITH WILSON, University of Minnesota; DEAN BRYCE L. CRAWFORD, JR., Graduate School; VICE PRESIDENT LAURENCE R. LUNDEN, Business Administration; ASSISTANT DEAN MELLOR R. HOLLAND, School of Dentistry; PROFESSOR NICHOLAS A. GLASKOWSKY, School of Business Administration.



PROFESSOR FRANK H. KAUFERT, College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; ASSISTANT DEAN MITCHELL V. CHARNLEY, University College; LT. COLONEL JAMES SUTTIE, U.S.A.F., Professor of Aerospace Studies; DEAN HORACE T. MORSE, General College; PROFESSOR ROY A. SCHUESSLER, College of Liberal Arts, soloist; MR. CHARLES JUDD RINGER, President of the University of Minnesota Alumni Association; PROFESSOR TRUMAN R. NODLAND, College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture, faculty marshal; PROFESSOR RODNEY C. LOEHR, College of Liberal Arts, faculty marshal.

University of Minnesota Calendar of Events

May 1-15, 1965

UNIVERSITY ARTISTS COURSE

Special Concert

Northrop Auditorium, 8:30 p.m.

Saturday, May 1—The Brothers Four. Benefit performance for the Frontier Hall Scholarship Fund: Ticket prices \$2.00, \$2.50, \$3.00, \$3.50, \$4.00. Tickets sold at Frontier Hall, 105 Northrop Auditorium, St. Paul Student Center, Walter Library, West Bank Cafeteria, Coffman Union Ticket Office.

SPECIAL LECTURES

(Open to the public without charge.)

Annual Joseph Warren Beach Memorial Lecture

Thursday, May 6—By Harry Levin, Irving Babbitt Professor of Comparative Literature at Harvard University, 8:00 p.m., Museum of Natural History Auditorium

Center for Research in Human Learning Symposium

Thursday, May 6—Professor Kenneth Spence, University of Texas, 8:00 p.m., Museum of Natural History Auditorium

Friday, May 7—Professor Arthur Melton, University of Michigan, 8:00 p.m., Mayo Memorial Auditorium

Saturday, May 8—Professor William Estes, Stanford University, 2:00 p.m. Museum of Natural History Auditorium

Thursday, May 13—Professor Howard Kendler, University of California at Santa Barbara, 8:00 p.m., Museum of Natural History Auditorium

Friday, May 14—Professor Gordon Bower, Stanford University, 8:00 p.m., Mayo Memorial Auditorium

Saturday, May 15—Professor James Deese, Johns Hopkins University, 2:00 p.m., Museum of Natural History Auditorium

GRADUATE SCHOOL RESEARCH CENTER

Man vs. Time

*Seen on KTCATV Channel 2
Wednesdays, 9-10 p.m.*

Wednesday, May 5—"Time and Human Knowledge" by Professor of Philosophy Burnham D. Terrell

Wednesday, May 12—"Time and the Science of Man" by Professor of Anthropology Robert F. Spencer

ARBORETUM

Four miles west of Chanhassen on Highway 5

Saturday, May 15—Arboretum membership drive, including an auction of plants and trailer tours on the hour from 9:00 a.m. to 4:00 p.m.

ST. PAUL CAMPUS STUDENT CENTER

Galleries

*Sunday, 12:00 noon-11:00 p.m.
Monday through Saturday
7:00-11:00 p.m.*

Monday, April 19 through Saturday, May 15—Related Art Show
Tuesday, April 20 through Friday, May 14—Lee Emberly Oils

MINNEAPOLIS SYMPHONY ORCHESTRA

Northrop Auditorium

Sunday, May 9—Adventures in Music
The Don Shirley Trio, 4:00 p.m.

ATHLETIC DEPARTMENT EVENTS

Baseball

Delta Field

Friday, May 14—Indiana, 3:30 p.m.

Saturday, May 15—Ohio State (2), 1:00 p.m., Tickets sold at gate, \$1.00 general admission

Golf

University Golf Course

Thursday, May 6—Carleton College, 1:00 p.m.

Saturday, May 8—Iowa and Wisconsin, 8:00 a.m.

Tennis

University Tennis Courts

Friday, May 14—Michigan State and Wisconsin, 3:00 p.m.

Saturday, May 15—Michigan State and Wisconsin, 9:00 a.m.

Track

Memorial Stadium

Saturday, May 8—Wisconsin, 1:30 p.m. Tickets sold at gate, \$1.00 general admission

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge)

Friday, May 7—Concert Band Ensemble, Northrop Auditorium, 8:30 p.m.

Saturday, May 15—Intercollegiate Male Chorale with strings and brass, Northrop Auditorium, 8:30 p.m.

UNIVERSITY GALLERY EXHIBITIONS

Northrop Auditorium

8:30 a.m.-4:30 p.m.

Monday through Friday

2:00 p.m.-5:00 p.m.

Sunday afternoons

Wednesday, April 28 through Wednesday, May 12—M.F.A. Thesis Exhibition, Urve Bakis

Wednesday, April 28 through Wednesday, May 12—M.F.A. Thesis Exhibition, Stanley Sutter

UNIVERSITY FILM SOCIETY

(shown at the Museum of Natural History Auditorium)

Friday, May 7—"I was a Fugitive from a Chain Gang" (1933, American), and "The Thin Man" (1934, American); shown with old "March of Time" documentaries, 7:30 p.m. Admission \$1.25.

Wednesday, May 12—"Time of the Ghetto," captured footage on the fate of the Warsaw Ghetto, and "Battle of Stalingrad," Russian film version of the 1943 Volga battle; 7:30 p.m. Admission 75¢.

Friday, May 14—"Triumph of the Will," complete, subtitled version of the 1934-36 Leni Riefenstahl direction of the Nuremberg Nazi congresses; 7:30 p.m. Admission 75¢.

SIGNIFICANT UNIVERSITY BROADCASTS

KUOM, 770 on the dial

Classroom Lecture

Mondays, Wednesdays, Fridays, 11:00 a.m. "Race and Nationality in American History." History Lecturer Allen H. Spear deals with the roles of ethnic minorities in American society.

Evening Concert

Mondays through Fridays, 6:00 p.m.—Classical music.

Fridays, 4:15 p.m.—A new program of contemporary folk music produced by the University of Minnesota ROTC.

Minnesota Theatre of the Air

Saturdays, 4:00 p.m.

Saturday, May 1—"Journal Revisited," original script by Nan Harvey, graduate student, Department of English

Saturday, May 8—"Too Soon the Robin," original script by Oliver Osterberg, Ph.D. candidate in theatre and McKnight Scholar

Saturday, May 15—"Ivanov," by Anton Chekhov

Saturday, May 22—"The Ransom of Red Chief," by O. Henry

Pacem in Terris

Thursdays, 4:00 p.m.

Speeches taken from a February congress of world leaders in New York which in the cause of peace examined the encyclical of Pope John XXIII. "Pacem in Terris." Speeches include those of Vice President Hubert Humphrey, Senator J. W. Fulbright, Historian Arnold Toynbee, and Economist Barbara Ward.

CONVOCATIONS

(Open to the public without charge.)

Northrop Auditorium, 11:30 a.m.

Thursday, May 6—Engineers Day: Joseph F. Shea, Manager of Apollo Spacecraft Program Office of the National Aeronautics and Space Administration

Wednesday, May 12—Cap and Gown Day Convocation

Thursday, May 13—Education Day: Maurice B. Mitchell, President of Encyclopedia Britannica, Inc.

COFFMAN MEMORIAL UNION

Friday, May 7—Presidents' Ball; Main Ballroom, 9:00 p.m. to 1:00 a.m.

UNIVERSITY THEATRE PRODUCTIONS

Scott Hall Auditorium Series

Saturday, May 1, 8:00 p.m.; Sunday, May 2, 3:30 p.m.—*A Company of Wayward Saints* by George A. Herman; Ticket prices are \$2.00 on Saturday; \$1.75 on Sunday.

Shevlin Hall Arena Theatre

Thursday, May 6; Friday, May 7; Saturday, May 8; Tuesday, May 11; Wednesday, May 12; Thursday, May 13; Friday, May 14; Saturday, May 15, 8:00 p.m.—*Hecuba* by Bruce Sweet; Ticket prices are \$1.25 on Sunday through Thursday; \$1.50 on Friday and Saturday.

University of Minnesota Calendar of Events

May 16-31, 1965

UNIVERSITY GALLERY EXHIBITIONS

Northrop Auditorium
8:30 a.m.-4:30 p.m.
Monday through Friday
2:00 p.m.-5:00 p.m.
Sunday afternoons

Monday, May 17 through Friday, June 4—
M.F.A. Thesis Exhibition, Karl Bethke
Monday, May 17 through Friday, June 4—
M.F.A. Thesis Exhibition, Anne Vadnais
Monday, May 17 through Friday, June 4—
M.F.A. Thesis Exhibition, Patricia Zon-
telli

CONVOCATIONS

(Open to the public without charge.)

Thursday, May 20—Metropolitan Opera Bal-
let, Northrop Auditorium, 11:30 a.m.
Tuesday, May 25—Marston Bates, Professor
of Zoology at the University of Michigan,
speaking on "The Human Environment,"
Coffey Hall, St. Paul Campus, 10:00 a.m.

METROPOLITAN OPERA

Northrop Auditorium
Ticket prices \$4.00, \$7.50, \$10.00, \$11.50,
\$13.00. Counter sale opens May 10. Mail or-
ders 106 Northrop Auditorium.
Wednesday, May 19—"Rigoletto," Giuseppe
Verdi, 8:00 p.m.
Thursday, May 20—"Aida," Giuseppe Verdi,
8:00 p.m.
Friday, May 21—"The Last Savage," Gian
Carlo Menotti, 8:00 p.m.
Saturday, May 22—"Tosca," Giacomo Puc-
cini, 1:30 p.m.
Saturday, May 22—"The Flying Dutchman,"
Richard Wagner, 8:00 p.m.
Sunday, May 23—"Madame Butterfly," Gi-
acomo Puccini, 1:30 p.m.

ST. PAUL CAMPUS STUDENT CENTER Galleries

Sunday, 12:00 noon-11:00 p.m.
Monday through Saturday
7:00 a.m.-11:00 p.m.
Saturday, May 15 through Saturday, June
5—3M Art Club Exhibit
Monday, May 17 through Friday, June 11
—Norma Hillen Collage and Oils

UNIVERSITY THEATRE PRODUCTIONS

Shevlin Hall Arena Theatre

Sunday, May 16, 3:30 p.m.—*Hecuba* by
Bruce Sweet; Ticket prices are \$1.25.
Young People's University Theatre
Saturday, May 22, 10:30 a.m. and 3:30
p.m.; Sunday, May 23, 3:30 p.m.—*Alice*
in Wonderland; Ticket prices are 75¢
for both adults and children.

Showboat Summer Season

Tuesday, May 25; Wednesday, May 26;
Thursday, May 27, 8:00 p.m.; Friday,
May 28; Saturday, May 29, 7:00 and
10:00 p.m.; Monday, May 31, 8:00 p.m.
—*Arms and the Man* by Bernard Shaw;
Ticket prices are \$2.00 on Monday
through Friday; \$2.50 on Saturday.

COFFMAN MEMORIAL UNION

Thursday, May 20—Outdoor Concert on
the terrace; time to be announced.
Friday, May 21—University Symphony
Band; noon program; Main Ballroom.
Wednesday, May 26—"Evening in Paris,"
Art Craft exhibit, Art Craft Studio.

GRADUATE SCHOOL RESEARCH CENTER

Man vs. Time

Seen on KTCATV Channel 2
Wednesdays, 9-10 p.m.

Wednesday, May 19—"Time and Space in
Baroque Architecture" by Professor of
Art Hylton A. Thomas
Wednesday, May 26—"Time, Timing and
Timeliness" by Mr. Robert Coursen, di-
rector of the Minnesota Poll of the Min-
neapolis Star and Tribune

ATHLETIC DEPARTMENT EVENTS

Golf

University Golf Course

Wednesday, May 19—North Dakota and
Minnesota "B," 1:00 p.m.

ARBORETUM

Four miles west of Chanhausen on
Highway 5

Saturday, May 22—Arboretum membership
drive, including an auction of plants and
trailer tours on the hour from 9:00 a.m.
to 4:00 p.m.

UNIVERSITY OF MINNESOTA TELEVISION HOUR

A Service of

The General Extension Division
Seen on Channel 2, KTCATV
Twin City Area Educational
Television Station

Mondays, 9:00-9:30 p.m.—Campus Closeup
with Professor Leonard Bart of the
Speech and Theatre Arts Department,
and guests.

Mondays, 9:30-10:00 p.m.—World Affairs
("The Mystique of Spain") with Aaron
Miller, assistant to the Director of the
Minnesota World Affairs Center, and
guests

Tuesdays, 9:00-9:30 p.m.—Folio with Arnold
Walker of the Department of Radio and
Television

Tuesdays, 9:30-10:00 p.m.—The English
Poets with Professor David Jones of the
Department of English

Wednesdays, 9:00-10:00 p.m.—Man vs.
Time with Professors Robert S. Hoyt of
the Department of History, and Leonid
Hurwicz of the Department of Economics,
and guests

Thursdays, 9:00-9:30 a.m.—Landscape Ideas
with Professor C. Gustav Hard, Exten-
sion Horticulturist

Thursdays, 9:30-10:00 p.m.—Town and
Country with Professor Ray Wolf of the
Institute of Agriculture

Fridays, 9:00-9:30 p.m.—See What I Mean:
An Introduction to Lip Reading with
Mrs. Nan P. Lightner and Raymond A.
Stassen, Instructors in the Audiology
Clinic of the University of Minnesota
Medical Center

Fridays, 9:30-10:00 p.m.—Modern Math for
Parents, a KRMA-TV and Denver Pub-
lic Schools Videotape Series with Dr.
Ruth Hoffman

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge)

Sunday, May 16—Marcia Ohlhausen voice
recital, Scott Hall Auditorium, 8:30 p.m.
Sunday, May 30—Dale Olsen flute recital,
Scott Hall Auditorium, 8:30 p.m.

THE MINNESOTAN

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University of Minnesota
Minneapolis, Minnesota 55455
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