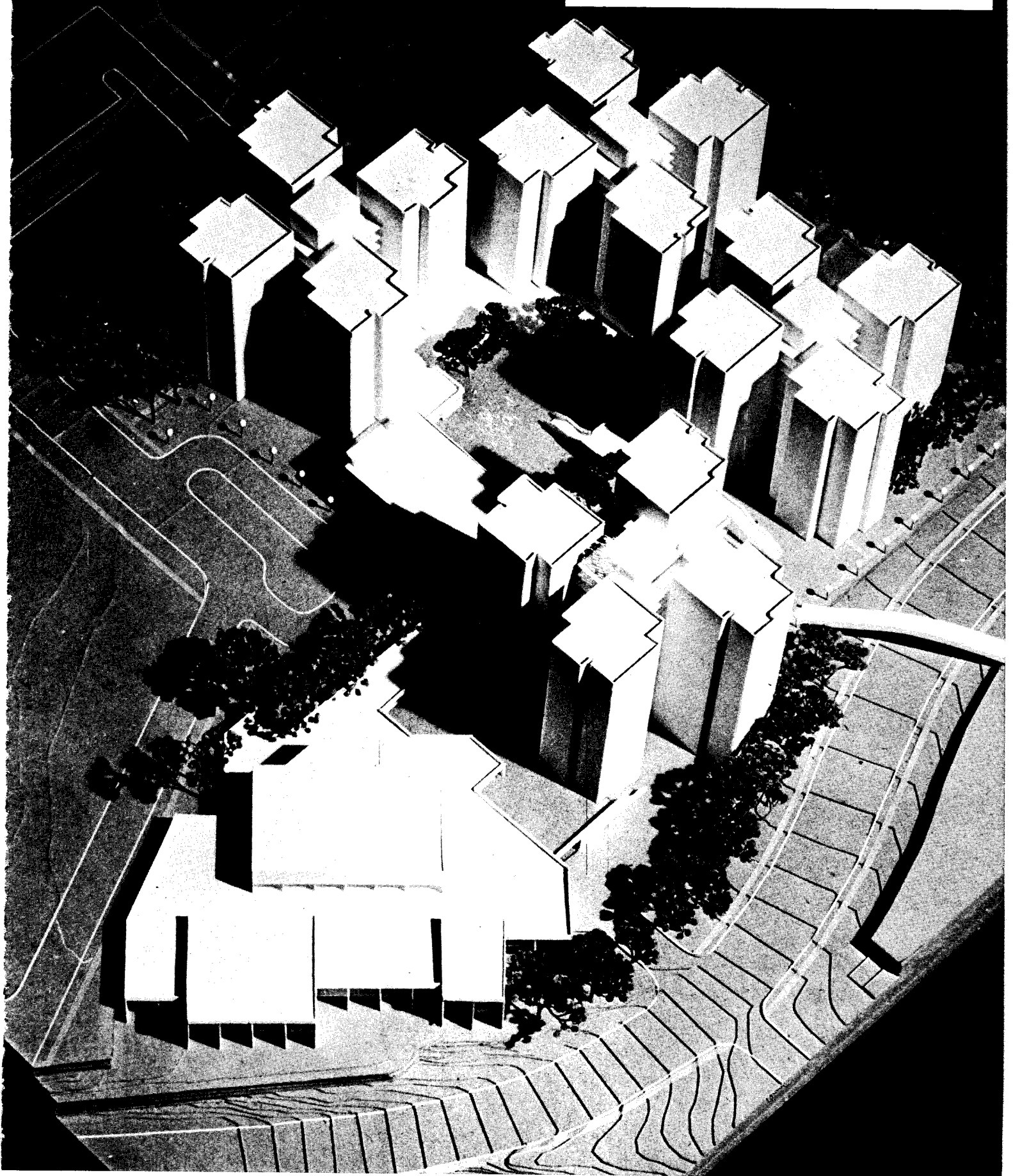


minnesotan

THE UNIVERSITY STAFF MAGAZINE OCT. 1966





The President's Page

The American Council on Education recently published a study, *An Assessment of Quality in Graduate Education*, by Dr. Allan M. Cartter, vice president of the A.C.E. Dr. Cartter's study, made in 1964, rates 106 American colleges and universities on the quality of their graduate faculties and programs in twenty-nine academic fields. The University of Minnesota, with graduate programs in all but one of these fields, ranked among the leading educational institutions in the nation.

In the rating of graduate faculties, Minnesota was considered "strong" in twenty-one of the categories covered, "good" in four, "adequate plus" in two, and "distinguished" in one. Twelve of our graduate programs were considered "acceptable plus," fourteen as "attractive," and two as "extremely attractive." The combined total of our ratings, as compared with the other 105 institutions in the study, confirmed our belief that the University of Minnesota stands among the top fifteen — and the top five public — colleges and universities in the United States.

Of great interest in these figures is the fact that, while Minnesota was considered "distinguished" in only one field, the over-all picture of the University's graduate programs was exceptionally strong. Our position among the leading educational institutions in the country, then,

is not due to unique achievement in one or two graduate programs; it is a result of the combined achievements of every discipline within the University.

Minnesota's ranking in this exhaustive study should be a source of pride for every member of the University community; but it must not be a source of complacency. In his foreword to the study, A.C.E. President Logan Wilson said, "This inquiry was not intended merely to supply a conversation piece in college and university circles, but, rather, to be an aid to those departments and institutions . . . which are seriously concerned about the improvement of graduate education. To effect improvement, a first step is to appraise existing strengths and weaknesses."

Academic excellence is not a hill on which we can build a smug fortress; it is, rather, an ever-retreating horizon toward which we journey from day to day. While we can be proud of the distance we have so far traveled, we must continue to concentrate our energies on reaching toward that elusive goal. We must seek to strengthen our weaknesses, and build upon our strengths.

In both graduate and undergraduate programs, our "strong" University is no more than a step away from distinction. I am confident that, with the cooperation and help of the state, this university already possesses the genius and desire that will make possible that other extra stride upward.

Meredith Wilson

On the cover . . .

is the architectural model of the four-tower dormitory complex and food service building which are planned for the West Bank campus. The coeducational complex will house a total of 2848 students.

VOL. XVII THE MINNESOTAN No. 1

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PAN-AMERICAN GAME TRIALS COME TO THE CAMPUS

Cyclists, high jumpers, swimmers, and gymnasts will be among the hundreds of top amateur athletes coming to the University of Minnesota from all over the United States next July 1-19.

They will come here to assemble and get in shape for the Pan-American Games, which will be held in Winnipeg, Canada, July 21 through August 6. All will be outfitted with uniforms; all will train and condition. Some will perform in exhibition games or matches; others will actually be in trials to select the final team representatives.

The Pan-American Games which are held every four years, attract amateur athletes from North, South, and Central America. United States participation is under the direction of the United States Olympic Committee. This committee also is working closely with the University to handle the myriad of details involved in the trial and training activity.

Earlier this year, University officials heard that the USOC was considering the possibility of bringing the United States competitors in the 1967 Pan-American Games together for trials, training, and assembly. President O. Meredith Wilson then extended an invitation to the USOC to utilize the facilities of the University of Minnesota for such a training center.

On September 22, Mr. Douglas F. Roby, President of the USOC, officially accepted Minnesota's invitation. This made USOC history as it marked the first time a university campus has been designated as a site for some of the final trials and as an assembly and training center for the entire team. Mr. Roby commented, "We think this is an ideal and efficient arrangement and are most happy to accept."

The University set up a Games Policy Committee to coordinate plans and policies on the local scene and with USOC officials. Chairman of this group is Mr. Marshall F. Ryman, University Director of Athletics. University staff members who are working with Mr. Ryman are Mr. Stanley J. Wenberg, Vice President for Educational Relationships and Development; Mr. William L. Nunn, Director of University Relations; and Mr. Don L. Finlayson, Director of Housing.

Representing other schools in the Twin Cities area on the committee is Mr. Clarence A. Nelson, Director of Athletics at Hamline University. Mr. Norman A. McGrew, Manager of the Minneapolis Chamber of Commerce, and Mr. Ervin A. Timm, Manager of the St. Paul Chamber of Commerce, are also committee members.

Secretary for this group and Executive Director for the entire event is Mr. John Dewey, Assistant Commissioner of the Big Ten Conference. On loan from the Big Ten office, he will come here to work full-time from February until after everything is over in early August.

This trial and training period will present a virtual gold mine of opportunities. The University hopes to make these outstanding visitors as accessible as possible to the young amateur athletes in the Twin Cities and surrounding area.

Mr. Finlayson said that the University plans to present these athletes to members of amateur sports groups, service clubs, and other Twin Cities organizations in whatever ways are possible. This would give Twin Citians a better chance to meet the visiting athletes . . . and per-

haps even work with them.

Although there will be ticket admission to the exhibitions and trials, the University hopes to make a type of "button pass" available to sports enthusiasts. This pass would let them go to as many workout sessions in the different sports as they wish to attend. Close contact with the training process would give these people—in particular, the young athletes of the community—a better idea of the intense concentration of effort and energy which precedes the final match, the final game.

"While the University is at the center, we want to marshal and coordinate the amateur sports facilities of the Twin Cities area so people in the suburbs will be able to take advantage of the opportunities. We also hope to give fresh enthusiasm for sports participation to aspiring athletes," Mr. Finlayson commented.

During the training period, the University will feed and house the athletes, their coaches and trainers. Mr. Hermann Rusch, USOC Chairman of Food and Housing for the Games, outlined the rigid requirements for the accommodations of the athletes. He stressed their need for a high-protein diet and plenty of rest. After inspecting the University of Minnesota, he said, "Your facilities are so remarkable—I have never seen anything like it."

(continued on page 10)





Meredith Wilson

July 27, 1966

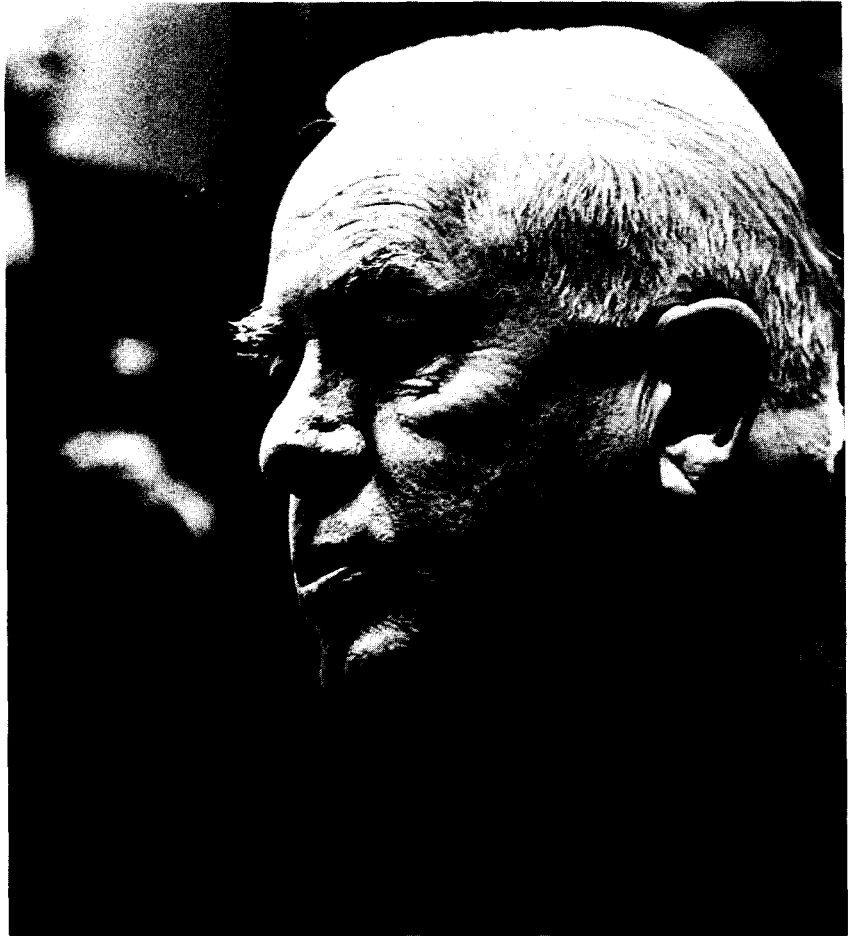
“Unless something completely unforeseen develops, I have decided to accept the Directorship of the Center for Advanced Study in the Behavioral Sciences, beginning July 1, 1967. I am writing this now because the decision, if made, will be announced while I am away from the city.

“I find this letter not only very hard to write but even much harder than I imagined. No board has ever been kinder to an officer; no chairman of a board, more considerate than you have been. I have an increasing pride in the University and its faculty and a deep attachment to the Minnesota community which supports the entire enterprise. Whether I am correct or not, my decision has rested on what seems to me a rather hard analysis of the way in which my energies could be best invested during the next ten years. A great determinant in this instance was that, by an earlier decision, I had limited my career at Minnesota to an additional three years. In the new post I am able to contemplate ten years at work which is very attractive to me and which, by men to whose opinions I have normally listened, is considered the most important thing I could do now for education. The opportunity to think and speak for and about education, with detachment and with time available to me, after having spent thirteen exciting years in administration, is attractive. The opportunity to be helpful to the social sciences and humanities where universities have lagged in their support also draws strongly on me.

“I hope you will understand that this decision was made after the most painful soul-searching. I would like again to express my pride in the Board and the University and to thank you for the honor of allowing me to work with you for these seven years.

“This letter sounds like a letter of goodbye; it is only a letter of decision. I will expect to work as hard as I can for the welfare of the University for the coming year.”

The two documents appearing on these pages recently became an important part of the history of the University of Minnesota. President O. Meredith Wilson's letter of resignation, addressed to Dr. Charles W. Mayo, Chairman of the Board of Regents, and Dr. Mayo's reply on behalf of the University are significant for all who are associated with the University and who have an interest in University affairs.



July 29, 1966

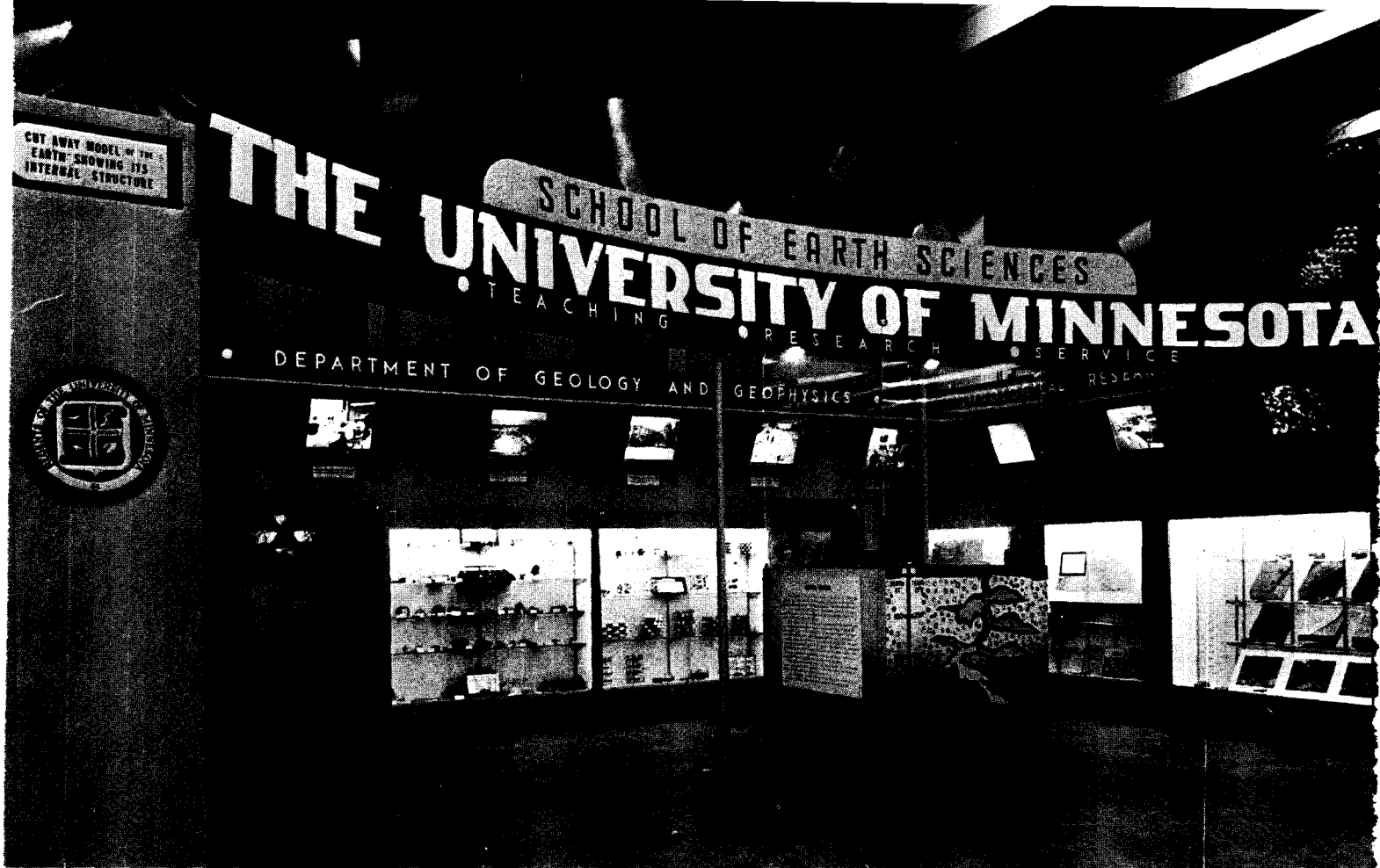
C. W. Mayo

“When you first told the members of the Board of the possibility that you might accept the Directorship of the Center for Advanced Study in the Behavioral Sciences in California, all of us hoped that you would decide to remain at the University of Minnesota.

“Now that you have made your decision, the Board has no alternative but to accept it with deep regret. You have been good for Minnesota — the State as well as the University. So good have you been that I think most of us have been fearful for a long time that you might accept one of the many tempting offers that have come your way. We were encouraged as each one of these was rejected by you. But now another has arrived and this one has been accepted.

“All of us recognize the superb opportunities you will have at the Center for Advanced Study in the Behavioral Sciences to continue to speak for, and about, education. We find comfort in the belief that the years that we have shared with you in Minnesota will be a useful reservoir from which you can draw much in your new assignment. We expect you to provide leadership from your vantage point for all colleges and universities, and for all public and private bodies that are concerned with higher education. For them, the next few years will be years of major decisions, and your voice will reflect the competence, the imagination, and the resourcefulness that are so clearly a part of you. You will leave behind in our State a priceless legacy — you will leave behind a part of yourself; and for this we are grateful.

“Accept my best wishes for happiness and great satisfaction in the new position.”



THE UNIVERSITY GOES TO



President Fred W. Hallberg of the Geological Society of Minnesota, center, examines a sample of fine-grained granite in the rock box display with Chairman Tibor Zoltai, left, and Professor George R. Rapp, Jr., right, of the geology department.

Efforts sparked with ingenuity brought rocks, metals, and water to life for the Earth Sciences exhibit at the Minnesota State Fair this year. Many fair visitors stopped for a second or third look at the lively display which featured everything from "glow-in-the-dark" rocks to a miniature geyser.

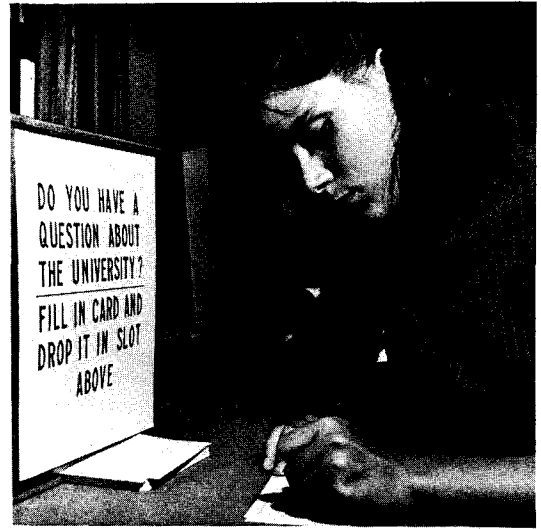
Last May, Professor Tibor Zoltai, Chairman of the Department of Geology and Geophysics, began discussing plans for the exhibit with several other staff members. "We found we had much more material to exhibit than we could possibly fit into the space allotted us at the fair," Dr. Zoltai explained. "Our problem was rather what not to exhibit." The display ended up featuring a selection of the more dynamic aspects of the earth sciences.

One of the star attractions was an authentic model of a geyser. In the "underground" source of the geyser, firerod heating elements periodically

increased the pressure and activity of the water. Fairgoers clustered around a seismic instrument nearby to watch it indicate the activity of the water and predict the discharge. Every few minutes light patterns zigzagged wildly across an oscilloscope screen. The geyser erupted with a burst of steam and spray.

Mr. Stanley W. Duff, a mechanic in the geology laboratory, based the design for the geyser on a model constructed earlier by Professor Robert E. Sloan. Working with Mr. Duff, University Artist Lawrence H. Cattrac painted the base of the geyser with a schematic diagram of its subterranean pattern.

Another display allowed the spectator to play the role of a magician. Merely by flicking a switch to flood the showcase with ultraviolet light, he could transform drab-looking rocks into vivid displays of fluorescent colors.



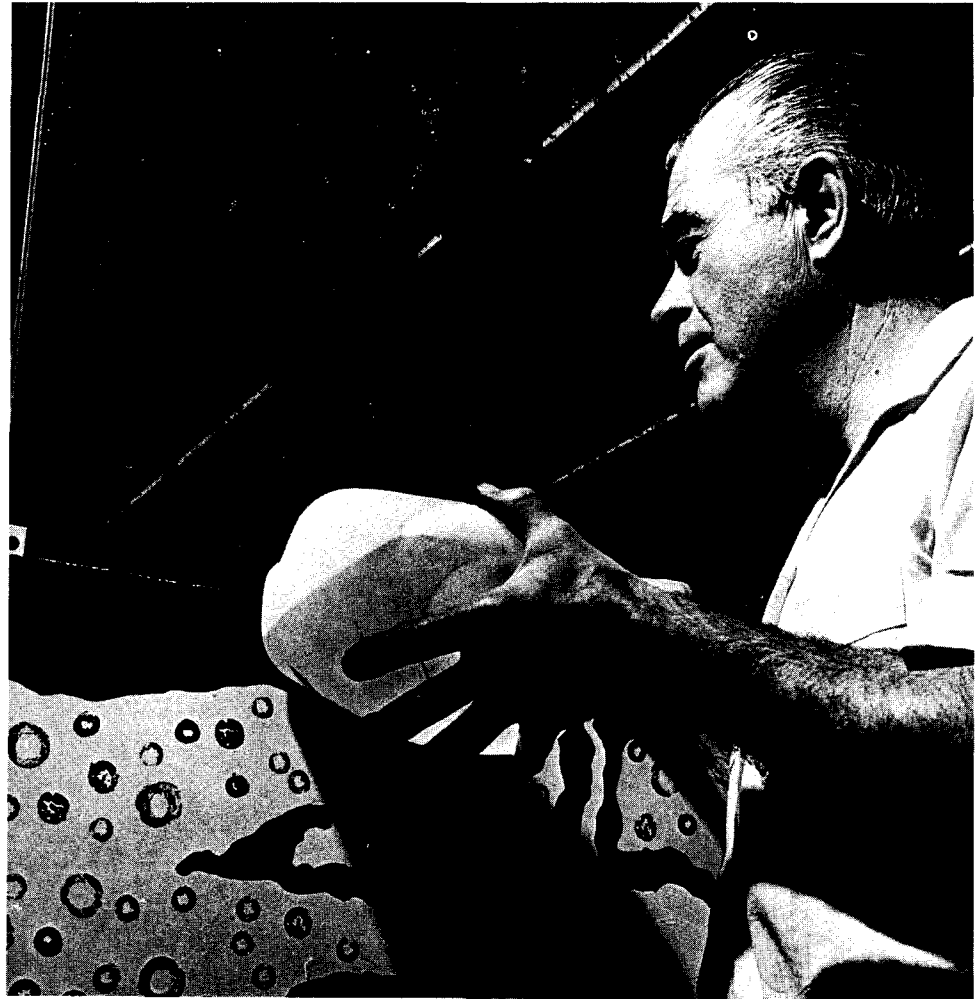
A Minnesota high school girl, takes advantage of the question box to find out more about the University. After the fair, staff members sent out replies — letters, bulletins, and brochures.

A diagram at the base of the geyser helped to explain how it worked to the fairgoers. University Artist Lawrence H. Cattron, who designed and constructed much of the exhibit, points out the temperature variations at different underground levels to two young visitors.

THE FAIR

Working with Professor Sloan and Mr. Donald Wallace, principal attendant in the geology laboratory, Mr. Cattron and other audio-visual staff members helped to design and arrange the exhibit. Their duties ranged from planning color schemes to making light boxes for the large colored transparencies which were mounted around the exhibit.

Over-all responsibility for the University of Minnesota exhibit at the State Fair rested with a special committee headed by Director Wesley J. Grabow of the Audio-Visual Educational Service. In addition to Mr. Grabow, Mr. Cattron, University Artist, and University Relations staff members worked with the Department of Geology and Geophysics, which was selected for this year's exhibit. Representatives on the committee from this department were Professors Zoltai, Sloan, and George R. Rapp, Jr. and Mr. Wallace.



Refueling the geyser which he had worked to build is Mr. Stanley W. Duff, a mechanic in the geology laboratory. The geyser used up over a gallon of distilled water each day.

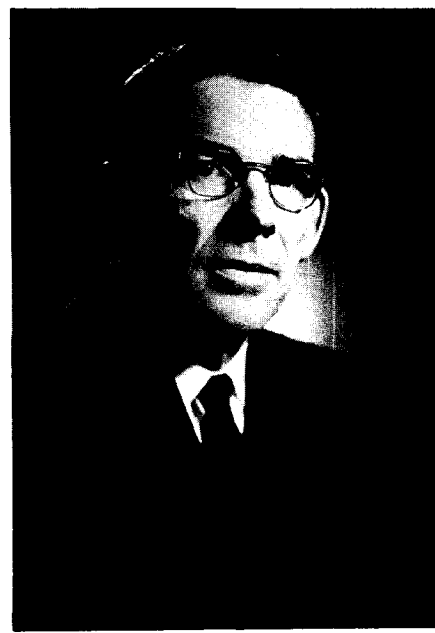
We—who hold new appointments at the University

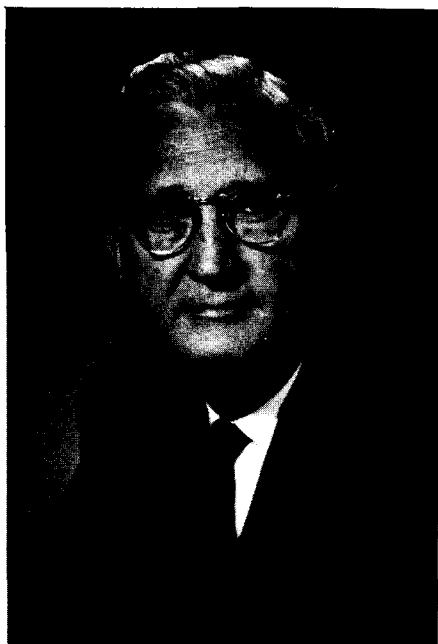
New faces in new places are characteristic of the beginning of a new academic year. Changes also come within the University family itself as familiar faces assume different positions. Among the many staff members receiving such appointments at the University are those pictured on these pages.

After serving as Acting Chairman of the Departments of Music in the College of Liberal Arts and Music Education in the College of Education for the past year, **Professor Roy A. Schuessler** was named Chairman of both departments. During his year as Acting Chairman, he helped to bring about the inauguration of the bachelor of fine arts degree, the "Summer Music at Minnesota" program, and the merger of the music departments and the McPhail School of Music.

A specialist in Latin American history, **Professor W. Donald Beatty**, succeeds the late Mr. True E. Pettengill as University Recorder. For the past six years, Dr. Beatty has been Assistant Chairman of the History Department. In 1963, he was honored at the All-University Recognition Banquet for his outstanding contributions to the education of students.

The former Head of the Department of Dairy Husbandry, **Professor Clarence L. Cole**, is the Chairman of the new Department of Animal Science in the Institute of Agriculture. Professor Cole, who has worked extensively with animal breeding throughout much of his career, will guide this merger of three departments — animal husbandry, dairy husbandry, and poultry science — into a single unit.





Among his responsibilities as the new Associate Dean of the Institute of Agriculture, **Professor Hubert J. Sloan** will be concerned with internal coordination and long-range planning for the Institute. Professor Sloan assumed the deanship after thirteen years as Director of the Agricultural Experiment Station.



Dr. Richard V. Ebert, who replaces Dr. Cecil J. Watson as Head of the Department of Medicine in the College of Medical Sciences, comes to Minnesota from a similar post at the University of Arkansas. The University's new chief of medicine has focused much of his research and study on lung disease and on the heart and blood vessels.

Programs related to food processing will be of primary concern in the new Department of Food Science and Industries in the Institute of Agriculture, whose Chairman is **Professor Samuel T. Coulter**. Formerly Head of the Department of Dairy Industries, Professor Coulter has done extensive dairy product research, particularly in the production of dried milk and in the processing of butter and cheese. Programs in horticultural and animal sciences will be combined with work formerly done by the department of Dairy Industries.

Named to the new position of Associate Dean for Administration in the College of Liberal Arts is **Professor John G. Turnbull**. Professor Turnbull, who joined the University of Minnesota faculty in 1949, became Chairman of the Economics Department in 1962 and Associate Dean (For Social Sciences) in the College of Liberal Arts in 1964.

The first Associate Vice President for Academic Administration at the University of Minnesota is **Professor Donald K. Smith**. He previously held the position of Assistant Vice President for Academic Administration and is currently chairman of the All-University Council on Liberal Education. In his new capacity, Dr. Smith will have greater responsibilities for the development of the entire scope of University academic programs.



MINNESOTA PLAYS MATCHMAKER

Do you know a woman who can speak four languages fluently, is an experienced technical writer, or who has done research in radiobiology? With family demands no longer requiring all her effort, she might like to go back to work—at least for a few hours each week.

Or perhaps you are in the market for a microbiologist, a translator, a clinical psychologist, or a library specialist. If so, you are in luck—they are but a few of the many top-notch professional women who will be matched up with jobs this fall.

Playing matchmaker is the Minnesota Planning and Counseling Center for Women. Questionnaires have been mailed to approximately 1,000 members of the Faculty Women's Club and 4,000 participants in the former Minnesota Plan for Women's Continuing Education. The questionnaires aimed to pinpoint the specific training and experience of professional "drop-outs," women whose family responsibilities prevented them from holding full-time positions.

Those who didn't receive questionnaires aren't left out, however. Any woman interested may get information by contacting the Untapped Talent Survey.

Professor Arnold Lazarow, Chairman of the Anatomy Department, helped to instigate the pilot venture through conversations with Dr. Vera M. Schletzer, former coordinator of the Women's Continuing Education Program. Mrs. Barbara Mantini, Placement Consultant for the program, commented, "It was his observation that he could not find the part-time research workers he and others in his department needed. He also felt that many faculty wives would be glad to have the chance to put their talents to use, if such jobs could be tailored to the hours these women could get away from home."

Mrs. Mantini emphasized, "These are not volunteer jobs . . . they are salaried positions at the professional level in some highly specialized fields. Of course, no one is obligated to accept any job, but we will contact the people who have answered us whenever a particular job comes along that seems to fit their training and available time."

The program poses endless possibilities. The only real limitation is a

fairly obvious one: those wishing to work must be within commuting distance of the University.

The quest for "hidden" talent, appropriately called the Untapped Talent Survey, began last spring. "The response has been tremendous," commented Dr. Kathryn S. Randolph, Director of the Center. "It is amazing to discover the highly specialized skills that many of these women possess."

From more than 850 replies comes an exceptional group of women competent in many fields where professional help is in great demand. One woman translates mathematical documents from Oriental languages into several other tongues. Another is a fashion designer, another tests retarded and brain damaged children.

Many have considerable research experience, many are trained in statistics and psychometrics. Some are highly specialized in communications. Others hold doctorates in nursing. A large number have language or clerical skills.

Mrs. Randolph noted that some of the women are proficient in several professional capacities. "But," she added, "our staff will help decide where best to place them."

The educational level of these women is high; 57% have earned a bachelor's degree or more.

Many are part-time students involved in degree and advanced degree programs. "Some of them would qualify for employment on the specialized basis of the work-study program," Mrs. Randolph observed. "Others are interested in part-time or short term full-time work."

Now the staff at the Planning and Counseling Center is going job-hunting. They will need to find many openings for all the competent prospects waiting to go back to work.

"The success of our program depends upon the willingness of faculty and staff to communicate their needs to us," said Mrs. Randolph. "Any staff members who can employ such services should contact us."

This service, however, is not limited to the University; anyone who can use this service is welcome to do so. "We will accept calls from industry, business, foundations . . . wherever help is needed," stated Mrs. Randolph.

This matchmaking effort has been incorporated into the recently ex-

panded emphasis in the program of the Minnesota Planning and Counseling Center for Women. Also included is "Operation: Second Chance," which is coordinated by Miss Catherine M. Warrick. This service will help to provide counseling through colleges and junior colleges in the state for mature women who wish to start or continue their college education after an interval, usually as housewife and mother. It will not set up new counseling centers, but rather will advise colleges on how existing facilities can be adapted and used for this purpose.

Game Trials (continued from page 3)

Athletes and USOC officials will begin to arrive in the Twin Cities about July 1. By July 15, all teams will be selected and outfitted and the final training will be in full swing. Local committees will work with corresponding committees from the USOC to regulate activity here in each of the twenty-two sports involved. On July 20, a shuttle plane service will transport the teams directly to Winnipeg for the big competition, the fifth Pan-American Games.

It will be a busy time at the University of Minnesota. Yet, in welcoming the USOC officials to the University and to the Twin Cities, Vice President Wenberg observed, "We have a long tradition of athletics at the University; we welcome the kind of experience you will bring our young people and adults."

Recent Staff Publications

Mr. Glenn C. Nelson, Professor of Art, UMD, *Ceramics: The Potter's Handbook*, Second Edition, Holt, Rhinehart and Winston.

Dr. Daniel M. Wiener, Associate Professor of Clinical Psychology, and Dr. E. C. Phillips, Professor of Psychology at George Washington University, *Short-term Psychotherapy and Structural Behavior Change*, McGraw-Hill Book Company.

The revised Faculty Handbook is here. Those desiring copies may get them from their departmental offices or from the Department of University Relations, 217 Morrill Hall; telephone, 373-2126.

University of Minnesota Calendar of Events

October 1-15, 1966

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts

Stanislaw Skrowaczewski, *Musical Director*
Northrop Auditorium, 8:30 p.m.

Friday, October 14 — All orchestral (Tickets \$3.00-\$6.00)

Sunday Afternoon Concerts

Northrop Auditorium, 4:00 p.m.

Sunday, October 2 — John Gary (Tickets \$2.00-\$4.00)

UNIVERSITY ARTISTS COURSE

Northrop Auditorium, 8:30 p.m.

Masterpiece Series

Wednesday, October 5 — Liana Isakadze, violinist *

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge)

Friday, October 7 — Bernhard Weiser, piano recital, Northrop Auditorium, 8:30 p.m.

ART EXHIBITIONS

University Gallery

Northrop Memorial Auditorium
Sunday, 2:00-5:00 p.m.
Monday through Friday
8:30 a.m.-4:00 p.m.

Through Monday, October 24 — Vasarely and selections from Gallery's permanent collection

St. Paul Campus Student Center Galleries

Sunday, 12:00 noon-11:00 p.m.
Monday through Saturday
8:00 a.m.-11:00 p.m.

Through Friday, October 7 — Ralph Newberg, paintings

Through Saturday, October 15 — Mrs. Otto F. Hanson, mixed media

Monday, October 10, through Monday, October 31 — Richard Ames, hard-edge paintings

UNIVERSITY FILM SOCIETY

Showings at the Museum of Natural History Auditorium

Saturday, October 1 — *Alphaville* (France, 1965), 7:30 and 9:30 p.m.

Friday, October 7 — *El Verdugo* (Spain, 1965), 7:30 and 9:30 p.m.

Friday, October 14 — *Miss Julie* (Sweden, 1952), 7:30 p.m.

CONVOCATIONS

(Open to the public without charge)
Northrop Memorial Auditorium

Thursday, October 13 — The Cambridge Circus, 11:15 a.m. and 12:15 p.m.

UNIVERSITY ARBORETUM

Four miles west of Chanhassen on Highway 5
(Open to the public without charge)

Daily during October — The Arboretum will be open to visitors from 8:00 a.m. to sunset

Saturdays, October 1, 8, and 15 — Arboretum tours at 10:00 a.m.

ATHLETIC DEPARTMENT EVENTS

Home Football Games

Memorial Stadium, 1:30 p.m.

Saturday, October 1 — Kansas

Saturday, October 15 — Iowa

(Single tickets, \$5.00. Over-the-counter sale opens Monday, the week of the game, in 109 Cooke Hall, at the Cargill Building in Minneapolis, and at Field-Schlick in St. Paul)

SIGNIFICANT UNIVERSITY BROADCASTS

A Service of the General Extension Division

Radio

KUOM, 770 on the dial

Mondays, Wednesdays, and Fridays, 11:00-11:50 a.m. — "Geography of Minnesota," classroom lecture series by Professor John R. Borchert

Monday through Friday, 2:30-3:55 p.m. "The Afternoon Concert"

Monday through Friday, 1:30-2:15 p.m. "Public Affairs Forum"

Monday through Friday, 4:30-5:00 p.m. "News and Commentary"

University Television Hour

Channel 2, KTCA-TV

Mondays, 9:00-9:30 p.m. — "Choosing Your Career," with Professor Leor and Bart

Mondays, 9:30-10:00 p.m. — "Folio," with Arnold W. Walker, Sr.

Tuesdays, 9:00-10:00 p.m. — "Writing Workshop," Professor Harold J. Alford

Tuesdays and Thursdays, 10:00-10:50 p.m. — "General Psychology," Professor David LaBerge (ETV credit course)

Wednesdays, 9:00-9:30 p.m. — "Art of Teaching"

Wednesdays and Fridays, 9:30-10:15 p.m. — "Shakespeare," Professor Sarah Youngblood (ETV credit course)

Thursdays, 9:00-9:30 p.m., through October 13 — "It's a Dog's Life," with Professor George W. Mather

Thursdays, 9:30-10:00 p.m. — "Town and Country"

Fridays, 9:00-9:30 p.m. — "Metropolis," N.E.T. film series

*Reservations may be made at 105 Northrop Memorial 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, 1966

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts

Stanislaw Skrowaczewski, Musical Director
Northrop Auditorium, 8:30 p.m.

Friday, October 21 — Ruggiero Ricci, violinist (Tickets \$2.75-\$5.00)

Friday, October 28 — Tong Il Han, pianist (Tickets \$2.75-\$5.00)

UNIVERSITY ARTISTS COURSE

Northrop Auditorium, 8:30 p.m.

Celebrity Series

Wednesday, October 19 — Mantovani and his Orchestra *

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge)

Sunday, October 23 — Student-Faculty Chamber Recital, Mayo Memorial Auditorium, 8:00 p.m.

ART EXHIBITIONS

University Gallery

Northrop Memorial Auditorium
Sunday, 2:00-5:00 p.m.
Monday through Friday
8:30 a.m.-4:00 p.m.

Through Monday, October 24 — Vasarely and selections from Gallery's permanent collection

St. Paul Campus
Student Center Galleries
Sunday, 12:00 noon-11:00 p.m.
Monday through Saturday
8:00 a.m.-11:00 p.m.

Through Monday, October 31 — Richard Ames, hard-edge paintings
Monday, October 17, through Friday, November 4 — Bradley and Kilbride, contrasts

UNIVERSITY THEATRE PRODUCTIONS

Young People's University Theatre Series

Scott Hall Auditorium
Saturday, October 22, 10:30 a.m., 3:30 p.m., Sunday, October 23, 3:30 p.m. — *The Adventures of Tom Sawyer*, based on the book by Mark Twain; tickets are \$.75

Playwright's Premiere Series Shevlin Hall Arena

Tuesday, October 25, through Saturday, October 29, 8:00 p.m.; Friday, October 28, and Sunday, October 30, 3:30 p.m. — *The Laundromat*, by Roger Cornish; tickets are \$2.00

UNIVERSITY FILM SOCIETY

Showings at the Museum of Natural History Auditorium
7:30 p.m.

Friday, October 21 — *Viridiana* (Spain, 1963) and *Land without Bread* (Spain, 1933)

Friday, October 28 — *Last Laugh* (Germany, 1925) and *Cabinet of Dr. Caligari* (Germany, 1919)

CONVOCATIONS

(Open to the public without charge)

Tuesday, October 25 — Oxford University and University of Minnesota Debate teams, North Star Ballroom, St. Paul Campus Student Center, 9:15 a.m.

Monday, October 31 — The Hoshio School of No, Tokyo, Japan, Northrop Memorial Auditorium, 2:30 p.m.

ATHLETIC DEPARTMENT EVENTS

Home Football Game

Memorial Stadium, 1:30 p.m.

Saturday, October 29 — Ohio State (Single tickets, \$5.00. Over-the-counter sale opens Monday, the week of the game, in 109 Cooke Hall, at the Cargill Building in Minneapolis, and at Field-Schlick in St. Paul)

SIGNIFICANT UNIVERSITY BROADCASTS

University Television Hour

Channel 2, KTCA-TV

Thursdays, 9:00-9:30 p.m., beginning October 27 — "Playwrights for Tomorrow," with Professor Arthur H. Ballett of the Speech and Theatre Arts Department

* Reservations may be made at 105 Northrop Memorial 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
Minneapolis, Minnesota 55455

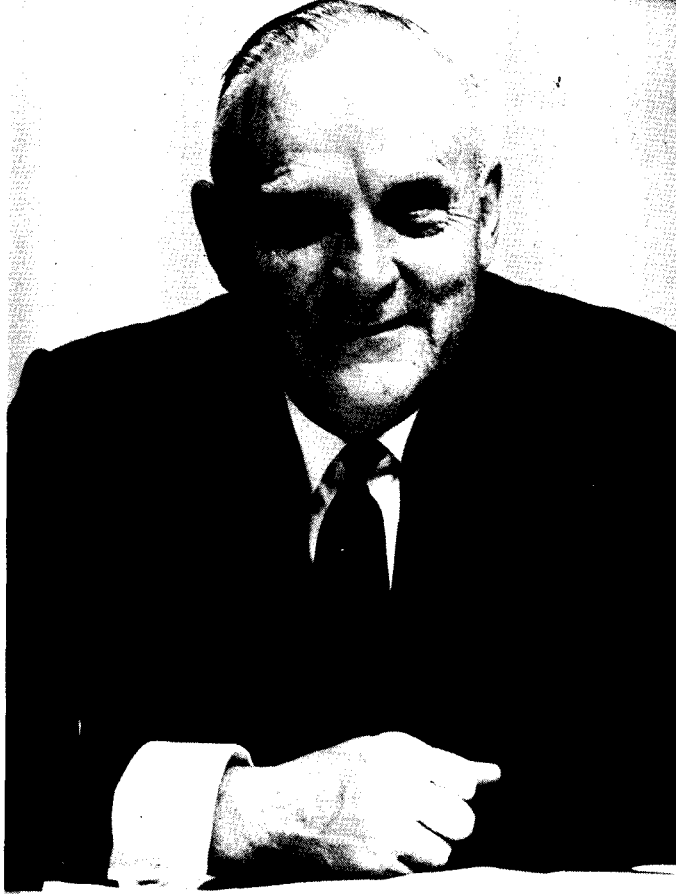
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THE UNIVERSITY STAFF MAGAZINE NOV. 1966





The President's Page

One of the over-riding worries of the modern generation is that since everybody, or almost everybody, would like an education, no professor will quite have enough time for the individual student. One of the images of the modern university, developed in part from reality and in part from assumptions born of concern, has been the image of a detached, disinterested faculty member in a throng of impersonal people. Given this image, I was warmed by a quotation from a newspaper interview in Mexico City given by Dr. Raphael Nunez, who was a visiting professor at this institution during the 1964-65 academic year. The interview reflects his view of the faculty at the University of Minnesota.

He said:

The North American professor impressed me by his simplicity, human quality, and spirit of collaboration. He has a high interest in modifying the traditional points of view and is motivated to offer to the students a great selection among the different fields of knowledge offered by the university. I was profoundly impressed by the frank and open manner with which I was treated, like a colleague who wanted to know the manner of operation of this kind of university, but, also, as a professional from another country. I received the same treatment as any other person on the staff.

It is important to emphasize again the professional level of the American university professor. He is enormously dedicated to his profession, constantly prepares himself, and is preoccupied to improve his method of teaching as well as to train himself more and more with the intention of offering the best to the student who is the goal and center of all of his work and hopes. He is responsible, respectful, friendly, intelligent, and preoccupied overall with that which affects the human being. In my field, psychology, I met colleagues with great interest in modifying the techniques of the past and with offering something more appropriate to these days.

I don't want any professors to have their heads turned by that description. I do hope that they will accept it as a challenge that they shall fulfill. I happen to think that the American professor, when compared with professors of the world, is such a man as Professor Nunez described, and I believe that at the University of Minnesota, Professor Nunez described a prototype.

We hope to nurture and reward these faculty characteristics. An outstanding example of this hope is the naming of Regents' Professors. Five faculty members were so honored last spring; we hope this will become a tradition in future years. The establishment of the Regents' Professorship is both a recognition of the attained excellence of the faculty and a challenge to further excellence. An anonymous committee considers nominees for Regents' Professorships; any staff member may nominate a professor for this honor by writing to me.

Meredith Wilson

On the cover . . .

is the distinctive University of Minnesota seal which is carved in stone above the fireplace in the Regents' Room.

VOL. XVII THE MINNESOTAN No. 2

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A chance to experiment, a chance to try out new plays, new techniques — that's what the Office for Advanced Drama Research is giving to about half a dozen promising playwrights during the coming theatre season.

The Office for Advanced Drama Research is in its fourth year of bringing talented playwrights to the Twin Cities. In 1963, when the University of Minnesota received a grant from the Rockefeller Foundation for such a project, President O. Meredith Wilson named an Executive Committee to organize and get the project moving.

The Committee, responsible for broad policy decisions, functions in an advisory capacity to determine such matters as how money is to be distributed and which theatres are to be involved in OADR activity.

Working together on the current committee, which is headed by Dr. Donald K. Smith, Associate Vice President for Academic Administration, are Dean Willard L. Thompson of the General Extension Division; Mr. Peter B. Zeisler, Managing Director of the Tyrone Guthrie Theatre; Professors Kenneth L. Graham and Arthur H. Ballet of the Speech and Theatre Arts Department.

In addition to being a member of the Executive Committee, Professor Ballet is director, coordinator, and responsibility-man for the multitude of tasks in the Office for Advanced Drama Research — tasks which include wading through the flood of manuscripts which pour in from playwrights. Anyone can submit plays, but many authors are recommended to the Office by theatre people.

"Once chosen," Dr. Ballet asserts, "the writer is given the widest possible latitude. He is encouraged to explore his own dramatic efforts freely and honestly, without external pressures. He has a chance to see his play come to life through directors, actors, producers, and most important of all — an audience."

Underscoring the value of the audience in theatrical productions, Dr. Ballet explains, "An audience is essential to the performing arts in particular. Since a play is given in time, it needs an audience."

Dr. Ballet comments that the typical theatre audience has a "reluctance to accept something experimental" and describes audience reaction as "We don't know what we like; we like what we know."

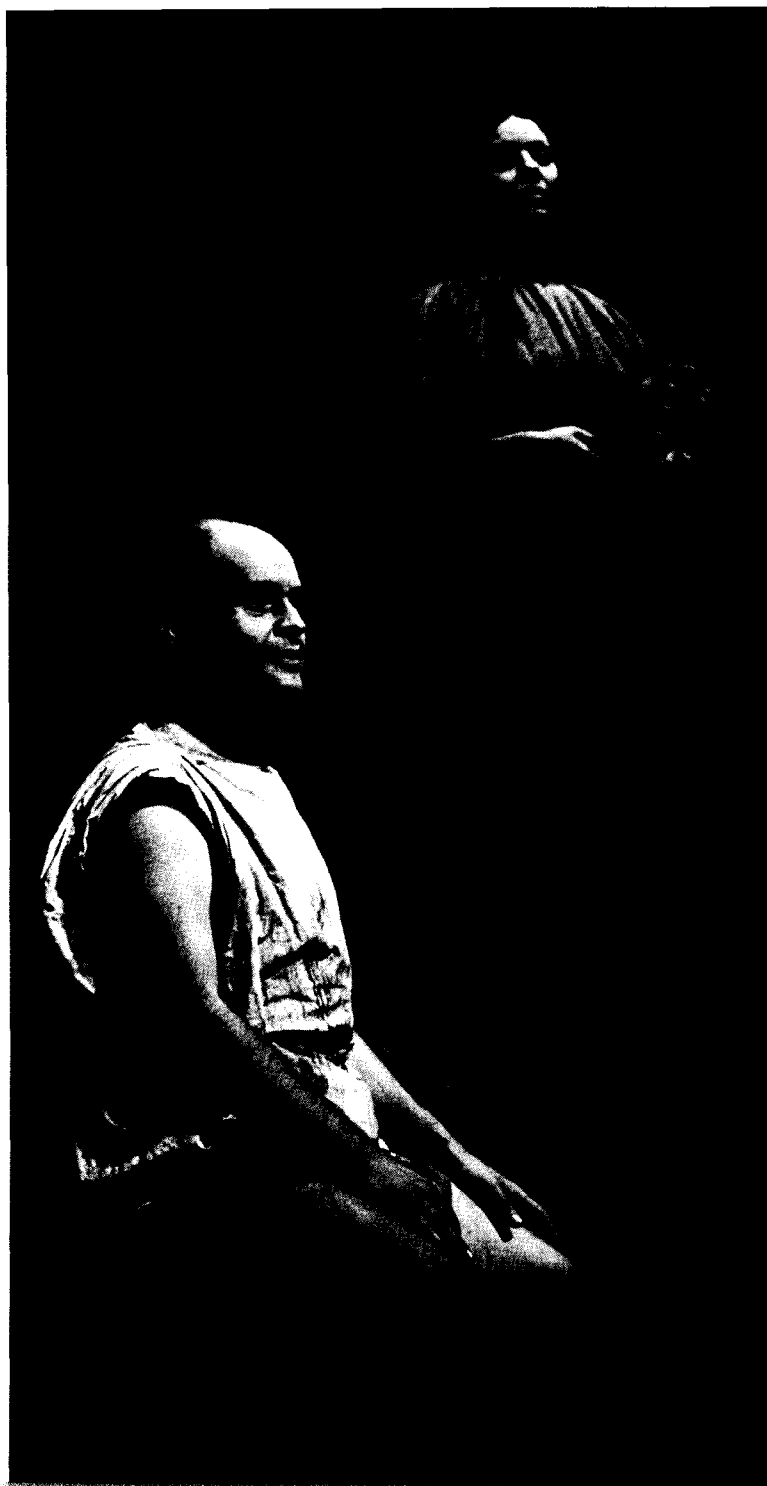
"A lot of interesting writing alienates the audience, but yet has to be seen. Some is deliberately outrageous to make us see it in a different way. Without it, theatre becomes stuck in a groove," says Dr. Ballet. "When everyone knows what he likes, theatre becomes dull."

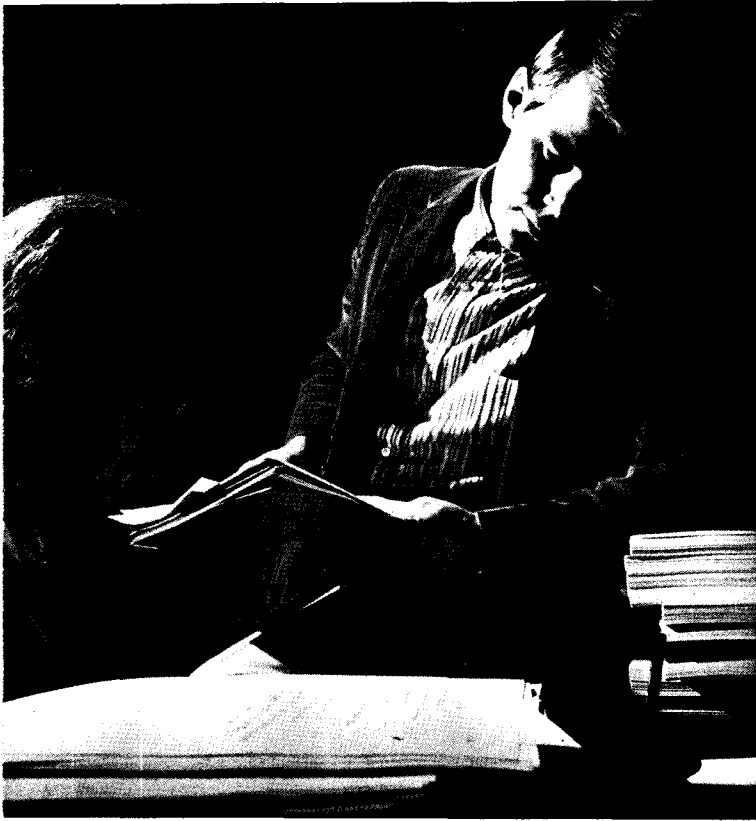
What does the OADR do for the playwrights it selects? First, it finances them while they are in the Twin Cities, providing living allowances and a modest honorarium. It also completely underwrites the rehearsal period so there is no financial risk to the theatres which work with the playwrights. In return, OADR receives the proceeds from the ticket sales.

However, OADR activity doesn't stop there. Although four or five other groups in the country handle such

Appearing in the OADR production, "Socrates Wounded," are Mr. Irwin J. Atkins, Instructor of Speech and Theatre Arts, and Miss Rachael A. Lindhart, Secretary for the University Theatre.

Experience through Experiment





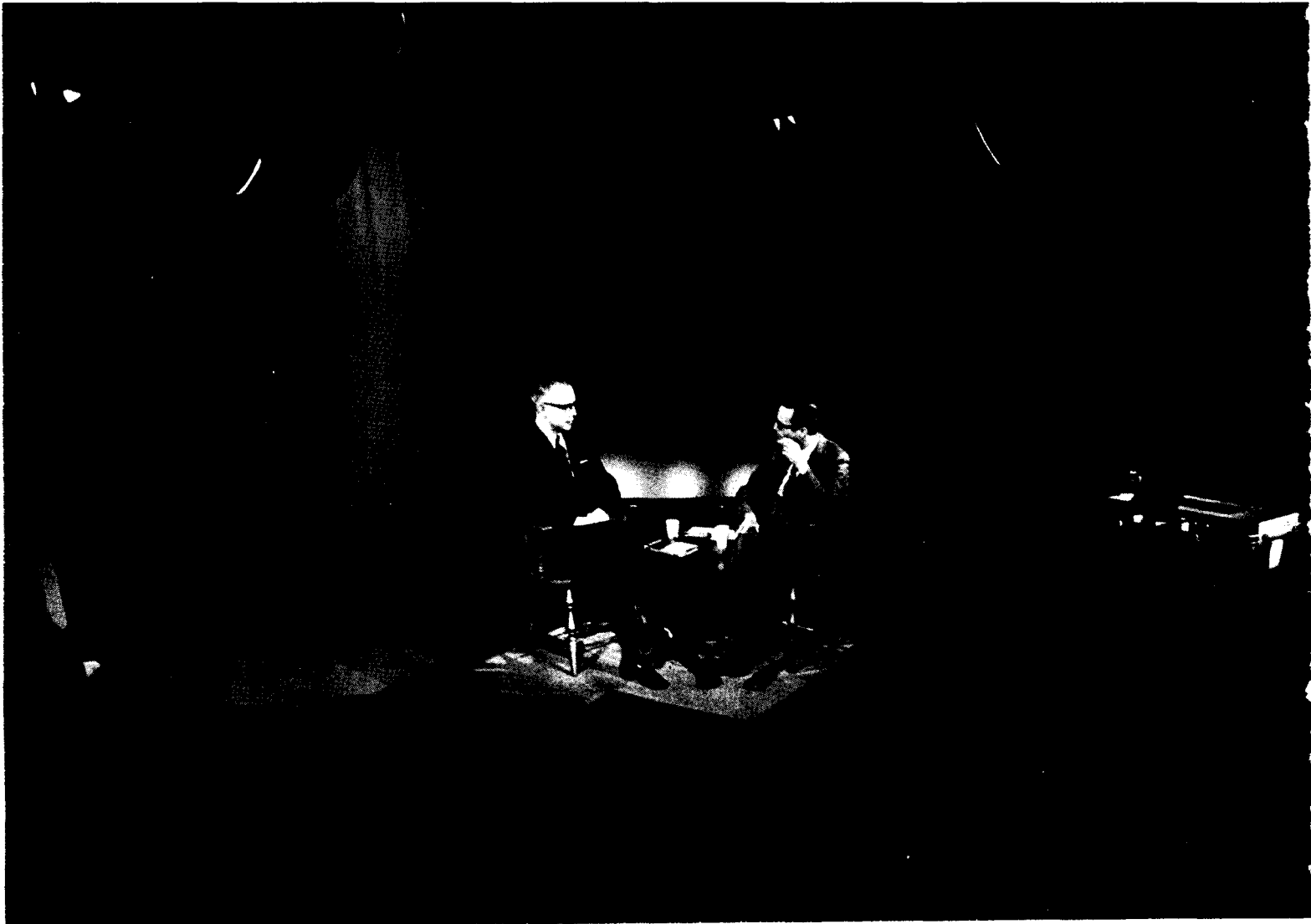
experimental theatre, no other organization "reads and feeds" new manuscripts. OADR makes these plays available to the many theatres which write in requesting new works for production. Publishing both hard and paperback editions of the plays is one of the best means OADR has used in its circulation efforts. Volumes 1 and 2 are already on the market; Volumes 3 and 4 should be off the press sometime this season.

Since the initial grant from the Rockefeller Foundation, the Office has received support and encouragement from the McKnight Foundation, local professional, community, and University theatre groups, and the Twin Cities audience.

Participating in OADR projects, which at present are limited to the Twin Cities area, are the Firehouse Theatre, the Tyrone Guthrie Theatre, the Theatre in the Round, the Centennial Showboat, and the University of Minnesota Campus Theatre. The Office for Advanced Drama Research hopes to grow within this local framework to include more community and collegiate theatre groups. Eventually, OADR leaders would like to expand their theatre activity

◆ *Pausing in the endless proofreading of scripts, OADR Administrative Assistant John K. Tammi checks a detail with Mrs. Linda P. Wallace, Senior Clerk Typist for OADR.*

In the KUOM studio, Associate Vice President Donald K. Smith, left, and Professor Arthur H. Ballet, right, talk over OADR plans and objectives in the first program of the television series, "Playwrights for Tomorrow."



Experience through Experiment

(continued)



Onstage in OADR play, "With Malice Aforethought," are Miss Paulette M. James and Mr. Richard R. Ramos, Teaching Assistants, Department of Speech and Theatre Arts.

Director of the Drama Advisory Office, Mr. Gordon S. Howard, discusses staging techniques with Professor Kenneth L. Graham, Chairman of the Department of Speech, Communication, and Theatre Arts.

to cities outside the Minneapolis-St. Paul area, such as Rochester and Duluth.

Several OADR-sponsored productions are slated to appear in Twin Cities theatres this fall. Playing at the Guthrie in late November and early December is Herbert Lieberman's "Tigers in Red Weather." During this time, the Guthrie will also perform two one-act plays by St. Paulite Mary Feldhaus-Weber, "The World Tipped Over and Laying on Its Side" and "The Virgin, the Lizard, and the Lamb."

Opening on December 1 in the Theatre in the Round is Philip Barber's "I, Elizabeth Otis, Being of Sound Mind."

On October 27, the Office opened a television series, "Playwrights for Tomorrow," on KTCA-TV. On these programs, Professor Ballet introduces playwrights brought to the Twin Cities by the Office for Advanced Drama Research for the experimental production of their plays.

In supporting such a program as that of OADR, "the University of Minnesota shows its awareness of the arts in general," reflects Professor Ballet. "One of the key responsibilities of a great university is to support experimentation in the arts as well as in the sciences."

He continues, "A student can thus experience young artists grappling with form, shape, and ideas on stage. When he graduates with this enriched background, he will want to see something new."

In addition to making an important contribution to the University's life beyond the classroom, the Office for Advanced Drama Research will work "to make the whole cultural background of the Twin Cities richer" with less predigested performance and more public curiosity and awareness of what is going on in the contemporary theatre scene.



We — The Regents' and Fa

Selecting the tenth president of the University of Minnesota → this is the task facing the Board of Regents in the months ahead. Invited to advise and assist the Regents are faculty, alumni, and student representatives.

Pictured to the immediate right are those members of the Board of Regents who were recently selected to serve on the Regents' Nominating Committee for the Presidency of the University. Dr. Charles W. Mayo, Chairman of the Board of Regents, heads this Committee.

On the far right appear those who are on the Faculty Consultative Committee. Upon request of the Regents, the University Senate designated this faculty group to meet and consult with the Regents' Committee in the selection process. Regents' Professor Alfred O. C. Nier is Chairman of this group.

Substituting on the Consultative Committee for Professor Walter W. Heller when his leave of absence takes him out of the country for a short time will be Professor Leonid Hurwicz. Professor Raymond J. Lammers, as a representative of the Morris Campus, will sit in on Committee proceedings, but is not an official member.

The Regents also invited the Alumni Association to constitute an advisory committee. Chairman of the Alumni Committee is Alumni Association President Waldo E. Hardell, who is also President of the Charles W. Sexton Company. Other Minnesota alumni serving on the Committee are Mr. Albert H. Heimbach, Vice President of the Farmers and Mechanics Savings Bank of Minneapolis; Mr. Kenneth C. Glaser, President of the Lend-Lease Transportation Company; Mr. Hibbert M. Hill, retired Vice President and Chief Engineer for Northern States Power Company; Mr. Dreng Bjornaraa, Midwest Public Relations Director for the United States Steel Corporation; Mr. Harry Heltzer, President of Minnesota Mining and Manufacturing Company; Mr. James A. Watson, President of Red Owl Stores; and Mr. Edwin L. Haislet, Executive Director of Alumni Relations.

Three student positions on this Committee will be filled by the Minnesota Student Association.

"The selection of President Wilson's successor will proceed in substantially the same manner as was employed in the selection of Dr. Wilson," Dr. Mayo has said.

The list of persons to be considered will, undoubtedly, be a long one. Dr. Mayo has invited all Minnesota citizens to submit names of prospects for the position. Compiling biographical material and getting references and recommendations will lead to evaluations and preliminary decisions. Next will come interviewing by a few, then interviewing by many, and, finally, recommendations and decision.

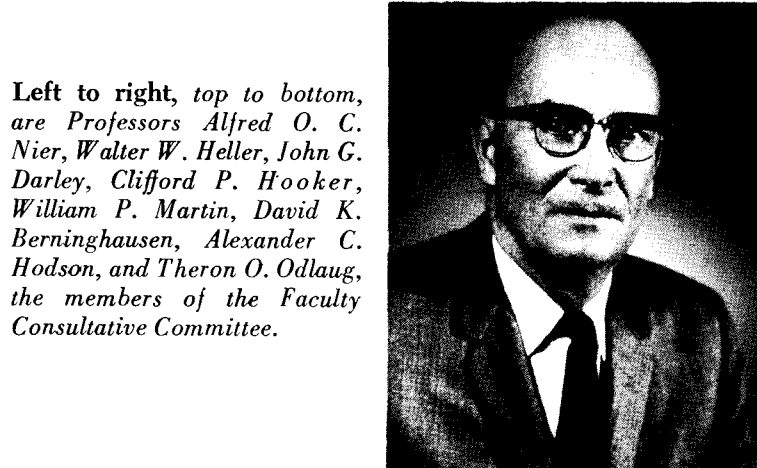
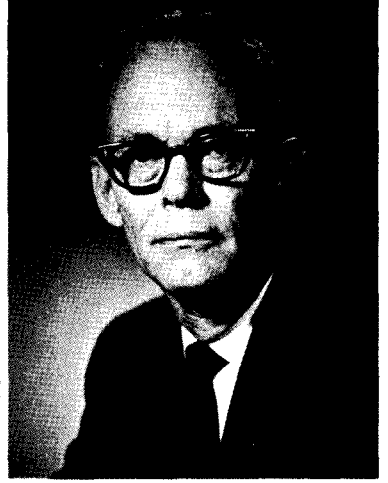
Much will be done by many before the Regents announce the name of the University's tenth president.



Left to right, top to bottom, are Regents Marjorie J. Howard, Robert E. Hess, Charles W. Mayo, Otto A. Silha, Daniel C. Gainey, Lester A. Malkerson, Herman F. Skyberg, and Fred J. Hughes. They will serve on the Regents' Nominating Committee for the Presidency of the University.



Faculty Consultative Committees



Left to right, top to bottom, are Professors Alfred O. C. Nier, Walter W. Heller, John G. Darley, Clifford P. Hooker, William P. Martin, David K. Berninghausen, Alexander C. Hodson, and Theron O. Odlaug, the members of the Faculty Consultative Committee.

A HEART FOR MANY HEARTS

Variety Club Adds Third Unit

The Variety Club has done it again. A new Heart Clinic has been opened at the Variety Club Heart Hospital which will give even more extensive and comprehensive patient care than before.

The Clinic is the third part of the Heart Hospital; all units have been built through the generous efforts of the Variety Club of the Northwest. The first patients were wheeled into the original four-story building on March 20, 1951. A fifth floor, devoted to heart research, was added in 1959. It was named after Mr. Arthur W. Anderson, who was the Chief Barker of the Variety Club of the Northwest when the idea for the hospital was born and again when the original unit was dedicated.

The new 21,000 square foot Clinic includes three heart catheterization laboratories, a pulmonary function area, and a phonocardiograph room.

Hospital officials say that the new equipment and laboratories, combined with more efficient use of already-existing facilities, will result in better research advantages and teaching opportunities, as well as improved patient care.

The new Clinic will help to make heart catheterization both safer and quicker, said Mr. Gerard W. Frawley, Associate Director of the University of Minnesota Hospitals and Director of the Variety Club Heart Hospital.

In heart catheterization, a tube is inserted into an artery in the leg and then is pushed up into the aorta and heart. Dye flowing through this tube helps doctors to measure the pressures and concentrations of oxygen and carbon dioxide in different chambers of the heart, which, in turn, give valuable information about the type of heart defect from which a patient is suffering.

Previously, insertion of the catheterization tube was done in one room and the examination was done in another, creating the danger that the tube could be dislodged or moved while the patient was being wheeled from place to place. New laboratories and equipment which allow doctors to do all the work in one room will give a greater degree of safety to the operation.

While the Hospital was only able to catheterize nine patients a week in the old facilities, the new Clinic will make it possible to catheterize four patients each day.

Investigation of several characteristics of the lungs and their relationship to such diseases as emphysema will be conducted in the pulmonary function area. The phonocardiograph room will be used to record and listen to sounds of the heart.

About four hundred persons — Variety Club members; University doctors, professors, and officials; and guests — attended a banquet honoring the Variety Club of the Northwest in Coffman Union on September 27. At this banquet the new Clinic was dedicated. This addition to the Variety Club Hospital now bears the name of Distinguished Service Director and Professor Emeritus Ray M. Amberg, who, since 1924, has been a staunch University staff member, first in the Health Service and later in the University Hospitals.

Among those paying tribute to Mr. Amberg's efforts as a hospital administrator was University President O. Meredith Wilson. He spoke highly of Mr. Amberg's devotion "to the idea that medicine could save lives and that hospitals were places in which to recover and not to die."

Special guest speaker at the dedication banquet was the President of Variety Clubs International, Colonel James Carreras of London. Colonel Carreras praised the members of the Variety Club of the Northwest for their "inspiring work" and presented a broad review of the care and concern which the Variety Clubs had extended to charities throughout the world during the past year.

Chairman of the Variety Club Heart Hospital Association, Mr. Donald Swartz, presented a gold key to the front door of the new Clinic to Dr. Charles W. Mayo, Chairman of the Board of Regents.

Chief Barker of Tent Number 12 of the Variety Club of the Northwest, Mr. Robert H. Karatz, gave gold Variety Club membership cards to Drs. Richard L. Varco and C. Walton Lillehei, Professors of Surgery at the University.

In accepting his membership card, Dr. Lillehei said, "In the future, the Heart Hospital will need more beds, more facilities for treating coronary artery disease, and more intensive care units." He reported that, at a recent medical meeting which he had attended, doctors agreed that intensive care units in "most of our larger major hospitals, as well as our community hospitals, could save an

Minnesotan



Above, Chief Barker Robert H. Karatz, right, presents Variety Club gold membership cards to Drs. C. Walton Lillehei and Richard L. Varco.

Upper right, Dr. Charles W. Mayo, Chairman of the Board of Regents, congratulates Distinguished Service Director and Professor Emeritus Ray M. Amberg, after whom the new clinic was named.

Right, admiring the gold key to the front door are, left to right, Colonel James Carreras, President of Variety Clubs International, Miss Pamela Schmidt, one of the first two patients to successfully undergo open heart surgery, and Mr. Donald Swartz, Chairman of the Variety Club Heart Hospital Association.



estimated 50,000 lives a year.”

Dr. Lillehei noted that the Variety Club Heart Hospital has been the scene of a number of important advances in the treatment of heart disease. He also praised Variety Club members for their foresight in building the first heart hospital in the United States at a time when opponents of the project contended that it made little sense to build a hospital for only one organ of the human body.

“But many of us in surgery know that you can’t supply logic to the solution of all problems,” he said, “and I can give you no better example than the success of the Variety Club Heart Hospital.”

November, 1966



LOOKING IN ON LEB DAY

On this page are pictures of staff members and guests at the University's annual Legislators', Editors', and Broadcasters' Day, which was held on October 1.

Above, Mr. Larry T. Morrisette, Radio and Television Program Supervisor, points out an exhibit to Governor Karl F. Rolvaag.

Left, former Regent and Mrs. Karl G. Neumeier stop to look at the information pamphlets handed to them by International Programs Editor Bonnie Brezinski.

Lower left, teaching Swedish on television, Mrs. Lillemor L. Saether, Instructor in the Scandinavian Department, participates in the exhibit which demonstrated closed circuit instruction.



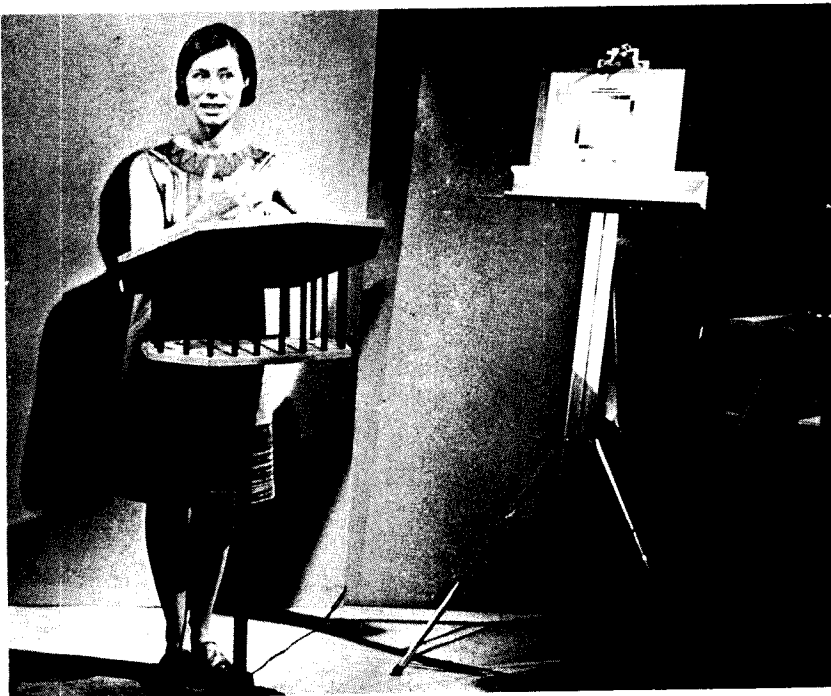
Recent Staff Publications

Dr. Cecil H. Meyers, Professor and Chairman of the UMD Department of Economics, *Elementary Business and Economic Statistics*, Wadsworth Publishing Company, Inc.

Dr. Burton M. Sapin, Associate Professor of Political Science and Coordinator of International Programs, *The Making of United States Foreign Policy*; hardback edition, Brookings Institution; paperback edition, Frederick Praeger.

Dr. Ephraim M. Sparrow, Professor of Mechanical Engineering (with Dr. R. D. Cess, Professor of Engineering at the State University of New York, Stony Brook), *Radiation Heat Transfer*, Brooks/Cole; this book is part of a series edited by Dr. Ernst R. G. Eckert, Regents' Professor of Mechanical Engineering.

Dr. Leonard H. Unger, Professor of English, *T. S. Eliot: Moments and Patterns*, University of Minnesota Press.



University of Minnesota Calendar of Events

November 1-15, 1966

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts
Stanislaw Skrowaczewski, Musical Director
Northrop Auditorium, 8:30 p.m.
 Friday, November 11 — Roberta Peters, soprano (Tickets \$3.00-\$6.00)

Sunday Afternoon Concerts
Northrop Auditorium, 4:00 p.m.
 Sunday, November 13 — Arthur Fiedler (Tickets \$2.00-\$4.00)

UNIVERSITY ARTISTS COURSE

Northrop Auditorium, 8:30 p.m.

Celebrity Series
 Wednesday, November 2 — The Mitchell Trio, Godfrey Cambridge, Carolyn Hester* (Tickets \$2.00-\$4.50)

Masterpiece Series
 Wednesday, November 9 — Rigoletto* (Tickets \$2.00-\$4.50)

Special Concerts
 Tuesday, November 15 — Martha Graham Dance Company* (Tickets \$2.00-\$5.00)

UNIVERSITY THEATRE PRODUCTIONS

Tickets \$2.00
Scott Hall Series
Scott Hall Auditorium
 Thursday, November 3, through Saturday, November 5, and Wednesday, November 9, through Saturday, November 12, 8:00 p.m.; Tuesday, November 8, and Sunday, November 13, 3:30 p.m. — *Revelation*, by Nada Pradonovic

Classic Series
Shevlin Hall Arena
 Tuesday, November 15, through Sunday, November 20, 8:00 p.m.; Friday, November 18, and Sunday, November 20, 3:30 p.m. — *The Braggart Soldier*, by Plautus

UNIVERSITY FILM SOCIETY

Showings at the Museum of Natural History Auditorium
 7:30 p.m.
 Friday, November 4 — *Nine Days of the Year* (U.S.S.R., 1965) and *The Cossacks Lament*
 Wednesday, November 9 — *Contempt* (France, 1964)

ART EXHIBITIONS

University Gallery
Northrop Memorial Auditorium
Sunday, 2:00-5:00 p.m.
Monday through Friday
8:30 a.m.-4:00 p.m.
 Monday, November 7, through Sunday, November 27 — Late works by Marsden Hartley, paintings, drawings, and prints
 Monday, November 7, through Friday, December 16 — M.F.A. Thesis Exhibitions of Donald Schule, sculpture, paintings, drawings; and Valerie Wentzel, paintings and drawings

St. Paul Campus Student Center Galleries
Sunday, 12:00 noon-11:00 p.m.
Monday through Thursday
8:00 a.m.-11:00 p.m.
Friday and Saturday
8:00 a.m.-12:00 a.m.
 Through Friday, November 4 — Bradley and Kilbride, contrast, modern, conservative
 Tuesday, November 1, through Friday, November 25 — Harvey Turner, water-color, oils, prints
 Monday, November 7, through Thursday, December 1 — Jack Denst, wallpaper and fabrics

MINNESOTA MUSEUM OF NATURAL HISTORY

Sunday Programs
Museum Auditorium, 3:00 p.m.
(Open to the public without charge)
 Sunday, November 6 — *The Wood Duck's World*, color sound film
 Sunday, November 13 — *Wildlife and Agriculture on Minnesota Prairies*, color film

ATHLETIC DEPARTMENT EVENTS

Home Football Game
Memorial Stadium, 1:30 p.m.
 Saturday, November 12 — Purdue
 (Single tickets, \$5.00. Over-the-counter sale opens Monday, the week of the game, in 109 Cooke Hall, at the Cargill Building in Minneapolis, and at Field-Schlick in St. Paul)

Hockey
Williams Arena, 8:00 p.m.
(Williams Scholarship Fund Benefit Games)
 Tuesday, November 8 — Intra-Squad Preview
 Thursday, November 10 — Alumni

LECTURES

(Open to the public without charge)
 Thursday, November 3 — "Moliere — the playwright, the actor and the man," John Wood, British translator and producer of Moliere, 3:15 p.m., 115 Shevlin Hall

SIGNIFICANT UNIVERSITY BROADCASTS

A Service of the General Extension Division
Radio
KUOM, 770 on the dial
 Mondays, Wednesdays, and Fridays, 11:00-11:50 a.m. — "Geography of Minnesota," classroom lecture series by Professor John R. Borchert
 Thursdays, 11:15 a.m. — "European Music Festivals"
 Saturdays, 10:30 a.m. — "How Do You Say Hello?" with Charles Winter, produced for UNICEF by the Canadian Broadcasting Corporation
 Saturday, November 5 — *The Floating Market: Words and Music*
 Saturday, November 12 — *Country in the Clouds*
 Saturdays, 12:00 noon — "The World in Twenty Years"
 Saturday, November 5 — *Newer and Richer Marine Harvests*
 Saturday, November 12 — *A Long View from the Beach*

University Television Hour

Channel 2, KTCA-TV

Mondays, 9:00 p.m. — "Choosing Your Career," with Leonard Bart, Assistant Professor of Speech and Theatre Arts
 Mondays, 9:30 p.m. — "Folio," with Arnold W. Walker Sr., of the Department of Radio and Television
 Tuesdays, 9:00 p.m. — "You Too Can Write!?" with Harold J. Alford, Associate Professor of English
 Tuesdays and Thursdays, 10:00 p.m. — "General Psychology 1 and 2," with Professor David L. LaBerge (ETV credit course)
 Wednesdays, 9:00 p.m. — "The Art of Teaching"
 Wednesdays and Fridays, 9:30 p.m. — "English 55 and 56: Shakespeare," Professor Sarah H. Youngblood (ETV credit course)
 Thursdays, 9:00 p.m. — "Playwrights for Tomorrow," with Professor Arthur Ballet of the Department of Speech and Theatre Arts
 Thursdays, 9:30 p.m. — "Town and Country," with Professor Ray Wolf of the Institute of Agriculture
 Fridays, 9:00 p.m. — "Metropolis," N.E.T. film series

* Reservations may be made at 105 Northrop Memorial Auditorium.
 Tickets for these events are also available at Dayton's (all stores) on Monday of the week prior to performance.

University of Minnesota Calendar of Events

November 16-30, 1966

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts

Stanislaw Skrowaczewski, Musical Director
Northrop Auditorium, 8:30 p.m.

Friday, November 18 — Daniel Barenboim, pianist (Tickets \$2.75-\$5.00)

Friday, November 25 — Isaac Stern, violinist; George Trautwein, conducting (Tickets \$2.75-\$5.00)

Sunday Afternoon Concerts

Northrop Auditorium, 4:00 p.m.

Sunday, November 27 — Robert Merrill (Tickets \$2.00-\$4.00)

UNIVERSITY ARTISTS COURSE

Northrop Auditorium, 8:30 p.m.

Celebrity Series

Wednesday, November 16 — Sabicas, flamenco guitarist* (Tickets \$2.00-\$4.00)

Special Concert

Saturday, November 19 — Fred Waring and the Pennsylvanians* (Tickets \$2.00-\$4.50)

Masterpiece Series

Tuesday, November 22 — The Vienna Johann Strauss Orchestra* (Tickets \$2.00-\$4.50)

Tuesday, November 29 — Emil Gilels, pianist* (Tickets \$2.00-\$5.00)

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge)

Sunday, November 20 — University Marching Band, Northrop Auditorium, 4:00 p.m.

Wednesday, November 23 — University Marching Band, Coffman Union, 11:30 a.m.

CONVOCATIONS

(Open to the public without charge)

Wednesday, November 23 — Student Assembly for Football Awards, Coffman Memorial Ballroom, 11:15 a.m.

UNIVERSITY THEATRE PRODUCTIONS

Tickets \$2.00

Scott Hall Series

Scott Hall Auditorium

Wednesday, November 23, Friday, November 25, Saturday, November 26, Wednesday, November 30, through Saturday, December 3, 8:00 p.m.; Tuesday, November 29, and Sunday, December 4, 3:30 p.m. — *The Little Clay Cart*, Indian folk drama

Classic Series

Shevlin Hall Arena

Tuesday, November 15, through Sunday, November 20, 8:00 p.m.; Friday, November 18, and Sunday, November 20, 3:30 p.m. — *The Braggart Soldier*, by Plautus

UNIVERSITY FILM SOCIETY

Showings at the Museum of

Natural History Auditorium

7:30 p.m.

Wednesday, November 16 — *Literature in Film: Robert Frost and Twelfth Night* (U.S.S.R., 1956)

Friday, November 18 — *Goldstein* (U.S.A., 1965)

Tuesday, November 22 — *Diary of a Chambermaid* (U.S.A., 1946) and *Spies* (Germany, 1928)

Wednesday, November 30 — *Faust* (Germany, 1963)

MINNESOTA MUSEUM OF NATURAL HISTORY

Sunday Programs

Museum Auditorium, 3:00 p.m.

(Open to the public without charge)

Sunday, November 20 — "An Ecologist Visits the South American Andes," Dr. Albert W. Erickson, Associate Professor of Biological Science

Sunday, November 27 — "Quest for Beauty," with Mr. Fred T. King, Chairman of the Hennepin County Park Reserve District

ART EXHIBITIONS

University Gallery

Northrop Memorial Auditorium

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

Monday through Friday

8:30 a.m.-4:00 p.m.

Monday, November 7, through Sunday, November 27 — Marsden Hartley

Monday, November 7, through Friday, December 16 — M.F.A. Thesis Exhibitions of

Donald Schule and Valerie Wentzel

St. Paul Campus

Student Center Galleries

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

Monday through Thursday

8:00 a.m.-11:00 p.m.

Friday and Saturday

8:00 a.m.-12:00 a.m.

Through Friday, November 25 — Harvey Turner

Through Thursday, December 1 — Jack Denst

ATHLETIC DEPARTMENT EVENTS

Basketball

Williams Arena, 8:00 p.m.

Tuesday, November 22 — Williams Scholarship Fund Benefit Game, Intra-Squad preview

SIGNIFICANT UNIVERSITY BROADCASTS

A Service of the General

Extension Division

Radio

KUOM, 770 on the dial

Saturdays, 10:30 a.m. — "How Do You Say Hello?"

Saturday, November 19 — *Kipling Country*

Saturday, November 26 — *Life in Landran*

Saturdays, 12:00 noon — "The World in Twenty Years"

Saturday, November 19 — *A Long View from the Beach*

Saturday, November 26 — *A New Balance Between Man and Nature*

*Reservations may be made at 105 Northrop Memorial Auditorium.

Tickets for these events are also available at Dayton's (all stores) on Monday of the week prior to performance.

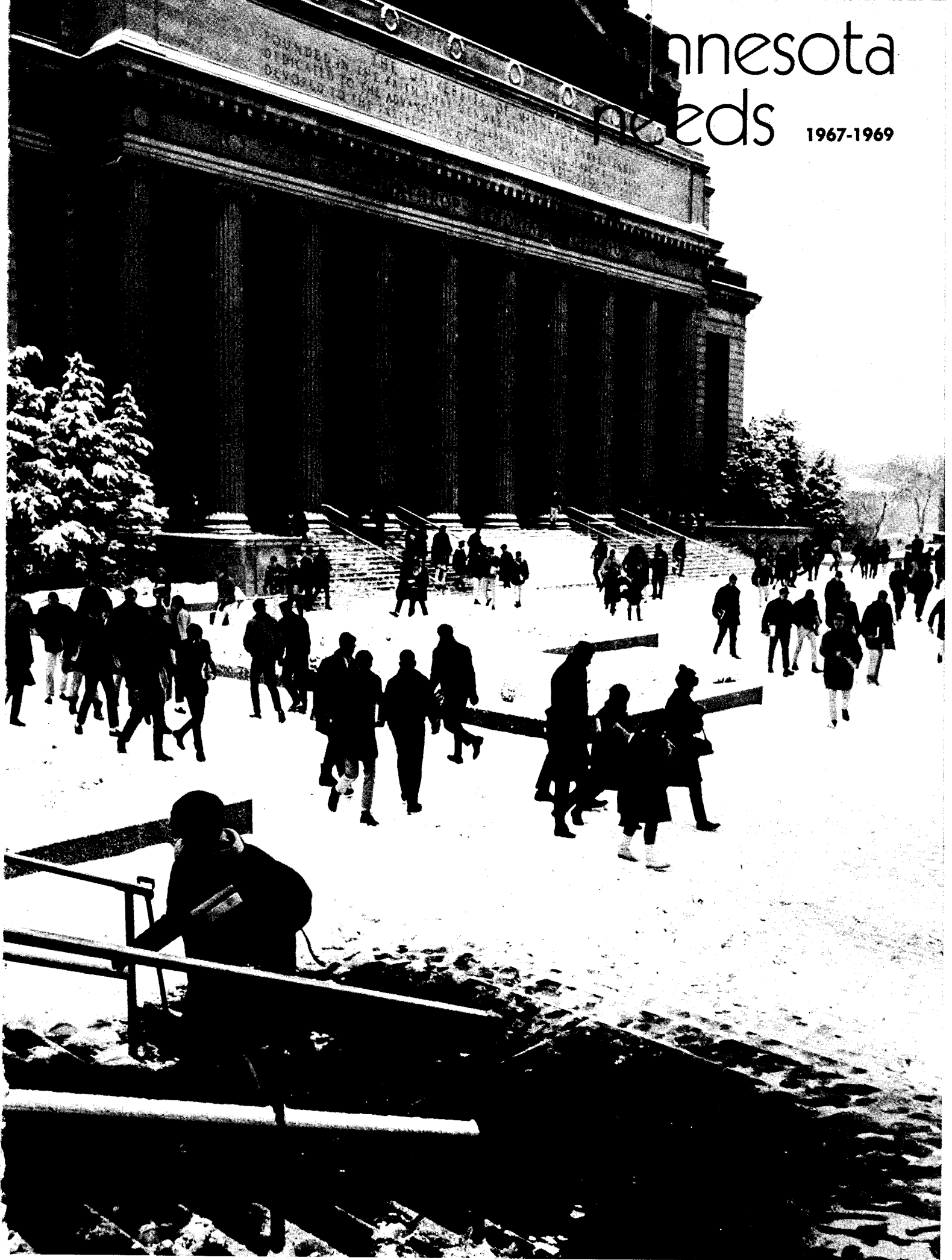
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217 Morrill Hall
University of Minnesota
Minneapolis, Minnesota 55455

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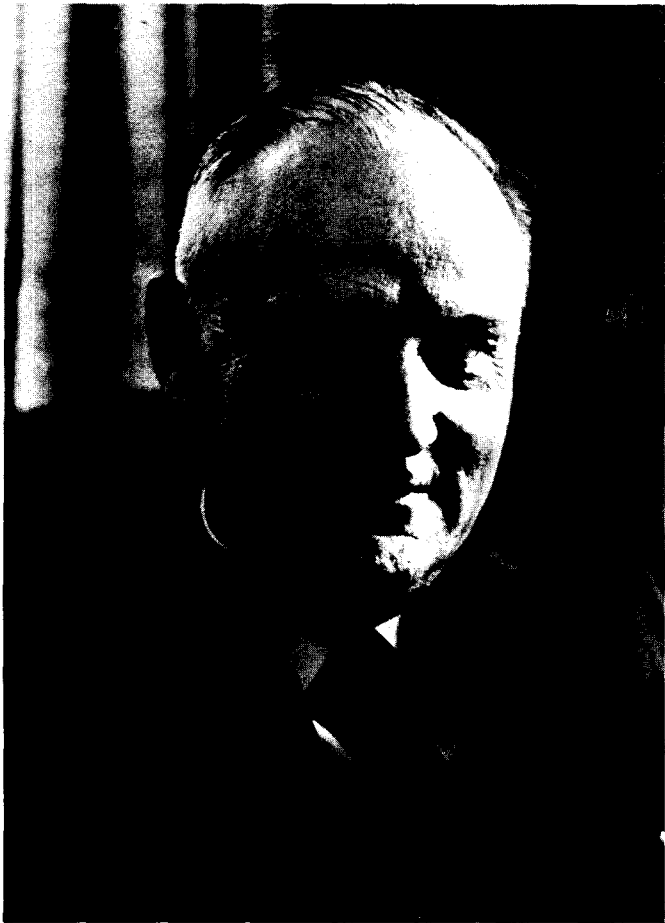
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Minnesota needs

1967-1969



The President's Page



This issue of *Minnesota Needs* presents the needs of the University of Minnesota that will be addressed to the 1967 session of the Minnesota State Legislature. Staff members of the University can readily appreciate the University's needs. We hope they stand ready to endorse and interpret these requests to all who inquire.

It is a privilege to work in concert with a dedicated faculty and staff to strengthen a great University. We have been warmed by your past support and we solicit your continued effort in the quest of excellence for the University.

Meredith Wilson

EDITOR'S NOTE

Replacing the December issue of the *Minnesotan*, the University staff magazine, is a statement which should be of vital interest and significance to all staff members. The regular publication date was delayed so that this important statement could be included.

Minnesota Needs seeks to acquaint its readers with the University's needs and the Regents' legislative request for the biennium 1967-69.

Others who will receive a copy of this statement include members of the State Legislature, parents of University students, winners of Outstanding Achievement Awards and Alumni Service Awards, and University alumni who reside in the state of Minnesota.

The Calendar of Events, usually found on the back cover of the staff magazine, was sent earlier as a separate mailing. In its place you will find a list of those who will serve in the 1967 State Legislature and three maps showing the Minnesota legislative districts as established by the 1966 Reapportionment Act.

ON THE COVER . . .

is the familiar Northrop Memorial Auditorium, with students hurrying to and from classes. Every two years the University prepares a statement to tell Minnesotans what it needs to meet the educational requirements of the ever-increasing number of students. Photo by John A. Ryan.



**THE
NEEDS
OF
THE
UNIVERSITY OF
MINNESOTA**

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 REGENTS' LEGISLATIVE REQUEST 1967-1969

The People of Minnesota and
Their Elected Representatives and Senators in
The State Legislature:

All Minnesotans have reason to be proud of the University they have built. By any measure, the University of Minnesota ranks with the best in the world. Through wise use of resources, the citizens of this State through their Legislature have nurtured a great State University.

It has been a privilege to serve Minnesotans as the President of their University and to cooperate with the University family in an effort to increase the quality of University offerings in every field and profession. In this quest for quality the University has enjoyed the support of a dedicated faculty, the wise counsel of an alert and inquiring Board of Regents, the sympathetic understanding of a responsible Legislature, and a fair hearing by the citizens of the State.

I applaud the manner in which all citizens of this State have worked to strengthen their University. To maintain any university is an arduous task. To maintain a great university requires walking the extra mile or adding the second effort. It is the extra step that assures dignity and quality, and that justifies our pride. And the second effort is part of the Minnesota tradition.

Sincerely,



O. Meredith Wilson
President

Board of Regents: CHARLES W. MAYO, M.D., *Chairman of the Board*, Rochester; MARGORIE J. HOWARD (Mrs. C. Edward), *Vice Chairman of the Board*, Excelsior; DANIEL C. GAINNEY, Owatonna; BJARNE E. GROTTUM, Jackson; ALBERT V. HARTL, Fergus Falls; ROBERT E. HESS, White Bear Lake; FRED J. HUGHES, St. Cloud; LESTER A. MALKERSON, Minneapolis; WILLIAM K. MONTAGUE, Duluth; GEORGE W. RAUENHORST, Olivia; OTTO A. SILHA, Minneapolis; HERMAN F. SKYBERG, Fisher.

A MESSAGE FROM THE REGENTS

Many agree that a list of the twenty greatest universities in the United States or of the thirty greatest universities in the world would include our University of Minnesota.

We, as Regents elected by the Minnesota Legislature, accept the responsibility of maintaining the greatness of the University – one of the State's greatest cultural and economic assets.

To our University come distinguished scientists, renowned artists, and leading officials and administrators of private and public agencies so that on our campuses we hear the greatest of what the world offers.

Our children who attend the University of Minnesota can study almost any field of knowledge, no matter how specialized – public health, veterinary medicine, forestry, social work, nuclear physics, space physiology, and education for retarded children, to mention only a few. The degrees earned indicate professional competence and are respected the world over.

Faculty and staff members at the University participate in all kinds of Minnesota community activities. They serve on boards and committees of great corporations and educational and cultural organizations. They teach Sunday school classes, lead Cub Scout packs, and speak at PTA meetings. They carry out their community responsibilities seriously. They are available as advisers, consultants, and members of commissions of inquiry. The State is much richer for their presence.

The State is richer, too, because of research in University laboratories and experiment stations. Certain varieties of fruits, grains, and dairy products are available because of a professor's idea and a Legislative appropriation. In the northern part of our State, a billion dollar taconite industry is developing at an accelerating rate because of the partnership between a University professor and his associates on the one hand and the Minnesota Legislature on the other.



Regent Gainney



Regent Grottum



Regent Hartl



Regent Hess



Regent Howard
Vice Chairman

The fastest growing industry in our State is the electronics industry, and the fastest growing unit of the University is electrical engineering. Leaders in the electronics industrial community say that their firms are located in Minnesota chiefly because of the University and its policies, which provide open doors for all aspects of the industry.

In its 116 years of service, the University has graduated 191,000 young men and women, many of whom are now working in Minnesota communities as doctors, dentists, nurses, physicists, teachers, lawyers, engineers, and in other essential positions. More than one half of the degrees have been granted since World War II.

The problems connected with this rapid development have been overcome by the leadership of University officials and staff members, Legislators, and prominent citizens all over the State.

The University stands at a more significant crossroads than ever before. The great costs of the University present a brave and challenging opportunity to all of us – Regents, Legislators, and citizens alike. Our requests for buildings, for special research support, and for general operations and maintenance, including faculty salary improvement, as set forth in this Statement of Needs are necessary for the kind of world we want to build and the kind of society we want to maintain.

We Minnesotans have received a priceless legacy built by those with vision and courage, and it is this legacy that we wish to pass on to those who will be the leaders of tomorrow.

C. W. Mayo
Maximilian J. Haugstad
Robert S. Hess
George W. Rauenhorst
Bjarné G. Prottem
Fred J. Hughes
Otto A. Silha
Herman J. Skyberg
Lester A. Malkerson
William K. Montague
Daniel J. Garing
Albert V. Hault



Regent Hughes



Regent Malkerson



**Regent Mayo
Chairman**



Regent Montague



Regent Skyberg



Regent Rauenhorst



Regent Silha

WE, THE REGENTS, NEED STATE MONEY To Maintain, Nourish, and Develop Our Great State University

The University of Minnesota is a State university, owned by the people of Minnesota. Although the University has other sources of income and generates some income of its own, it cannot exist without State money.

In all aspects of its operation as an educational institution, as a major research center, and as a public servant, it is dependent upon money appropriated by the State Legislature.

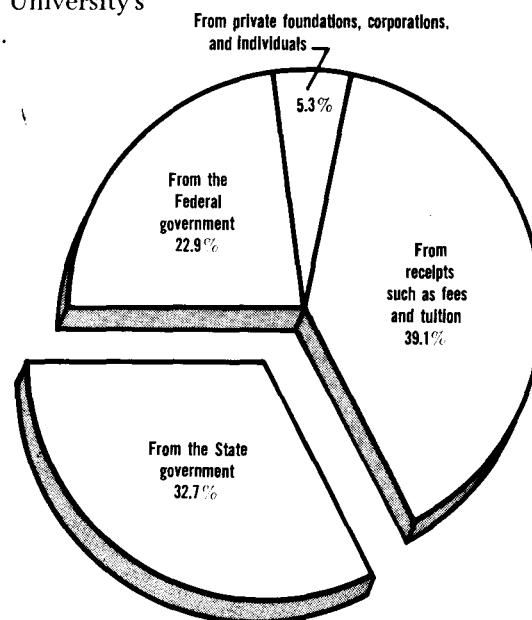
State money lets the University meet the payroll for the teachers who educate our sons and daughters and for the librarians, bookkeepers, custodians, clerks, secretaries, laboratory attendants, and all the other staff members required by a great university to carry out its dedicated purposes in education, research, and service.

State money also pays for the innumerable necessities of our University's physical operation and maintenance – for supplies and equipment, for heat and electricity, for repairs, and for a great variety of housekeeping tasks.

State money forms the magnet that attracts other funds – grants, gifts, endowments – to our University. The strength of the magnet is closely related to the financial support appropriated to the University by the State Legislature.

The significance of State money as a source of the University's operating income is shown in the chart on this page.

**SOURCES OF UNIVERSITY
OPERATING INCOME
1965-1966**



WE NEED STATE MONEY

To Support The University's

Three Inseparable Functions

TEACHING, RESEARCH, SERVICE

1966-1967 FALL QUARTER ATTENDANCE

43,997 students in
degree-granting
colleges

16,495 evening class
extension students

1,108 sub-collegiate
students *

TEACHING The principal purpose of our University is teaching, and teaching-related expenses exceed all other expense items in our 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 people of Minnesota. In meeting that obligation, it provides some form of instruction or service to almost every family of our State.

Through its centers of resident college-level instruction in Minneapolis, St. Paul, Duluth, Morris, Rochester, and Crookston, through its research centers and schools of agriculture in various parts of the State, through its correspondence study programs, through its educational radio and television presentations, and through the continuing education activities sponsored by the General Extension Division and by the Institute of Agriculture, which now reach into 84 of the State's 87 counties, the University carries on its teaching function on a truly state-wide basis.

The figures in the margin give a partial indication of the number of Minnesotans who are receiving some type of instruction from the University.

We Minnesotans for many years have ranked above the national average in our demand for education. Our University strives to meet these educational needs and demands, but its ability to do so, now and in the future, is determined largely by the amount of Legislative financial support it receives.

1966 SUMMER SESSION ATTENDANCE

14,618 1st session

10,628 2nd session

OTHER REGISTRATIONS DURING THE YEAR 1965-1966

67,443 in continuing
education courses,
general and agri-
cultural

11,325 in correspondence
courses

* Sub-collegiate schools: the Schools of Agriculture in Crookston and Waseca; the Laboratory School on the Duluth campus; the College of Education's laboratory schools, including University High School, 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 league with University teaching and service, it works toward the full employment of all Minnesota's natural resources – land, water, forest, air, minerals, and people.

Our University is one of the principal 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, grants, and contracts from outside sources are an economic stimulus to our State. They mean fuller employment, larger 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. A few examples appear in the margin.

Taconite process

**Improved nutrition,
both human and animal**

**Instruments and cameras
for space exploration**

Brucellosis control

Synthetic rubber

Open-heart surgery

**Heat transfer,
aerodynamics**

**New varieties of
grains and fruits**

Isolation of Uranium 235

Organ transplants

**Improved teaching
methods in mathematics
and reading**

Cancer chemotherapy

**Application of computers
to electric power industry**

Cosmic ray investigations

**Automobile safety
developments**

Discovery of stars

**Diet-heart disease
relationships**

**Proton accelerator
nuclear research**

**Erosion control
methods**

Cleft palate therapy

NuWorld cheese

**Optimal controls for space
flight vehicles**

Cancer Detection Center

Municipal Reference Bureau

Concerts and lectures

Dental clinic

Educational surveys

Soil testing

Iron ore estimates

Industrial Relations Center

Dairy herd improvement

Minnesota Geological Survey

**Identification of plants,
insects, minerals**

Technology Utilization Program

University Hospitals

Stuttering clinic

**Garden, orchard, and
landscape advice**

Veterinary clinics

Human genetics consultation

**Radio and television
broadcasts**

Faculty consultantships

**Farm management
advisory program**

**Veterinary Diagnostic
Laboratory**

SERVICE Minnesota agriculture, industry, business, education, governmental agencies, organizations of many types, and individual citizens long have benefited from the multitude of public services which our University provides.

Service to the public, which ranks along with teaching and research as the third major purpose of the University, ranges in variety from the diagnosis and treatment of human and animal diseases to the geologic mapping of the State which is an aid to the discovery of ore deposits, the location of water supplies, and the selection of suitable industrial sites.

We Minnesotans regularly look to our University for advice on improving our dairy herds, for expert studies of our schools and school systems, for cultural and educational radio and television programs, for help in managing our farms, for positive identification of plants, insects, and minerals, for consultation with faculty members on problems affecting our businesses and our industries, for testing samples of soil, and for scores of other essential services.

Broad as is the scope of our University's services to the people of the State, new and enlarging problems bring ever-increasing demands for new and more comprehensive services. Problems resulting from population shifts involving rural, urban, and suburban communities, problems of urban and rural renewal and of mass transportation and mass communication, problems of juvenile delinquency control, problems involving water and air pollution, problems arising from the development of new industries in rural areas, and many other challenges now present insistent demands on our University's service resources.

Our University is striving to provide the services which Minnesota needs, wants, and expects from it. We need State money to make these services possible.

LOOKING AT THE FUTURE

College-Age Population, Enrollment Trends, Demands On The University

Minnesota's demands for higher education are increasing steadily and rapidly, and the University of Minnesota must always be prepared to meet a large share of those demands.

The State's college-age (18 to 21 years) population is climbing fast, from 166,751 in 1954 to 246,690 in 1966, while the percentage of this population attending college in Minnesota also has been soaring, from 23 per cent in 1954 to 39.4 per cent in 1966.

Conservative estimates made by the colleges and universities of the State indicate that of the projected 316,930 college-age population in Minnesota in 1975, 52 per cent will be attending college in Minnesota. The following table shows the growth situation, actual and predicted.

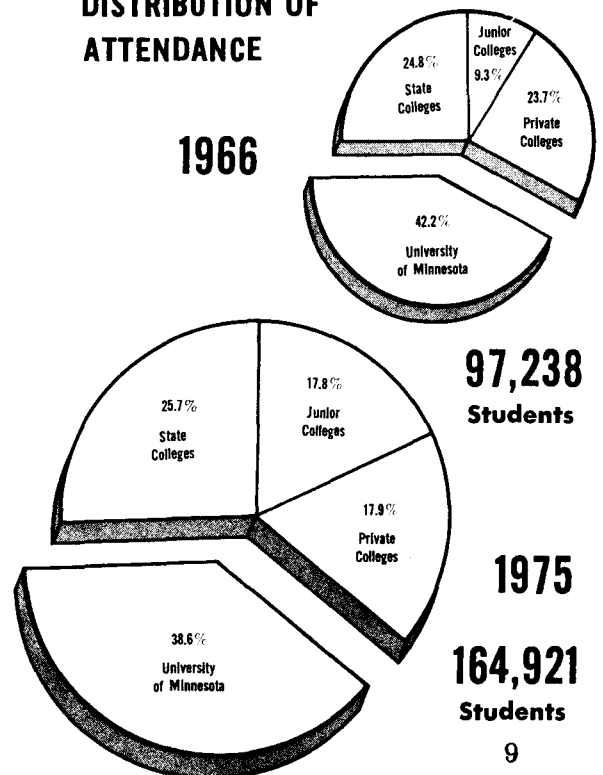
Year	College-Age Youth In Minnesota	Number Attending College In Minnesota	Per Cent Ratio of Attendance
1954	166,751	38,292	23.0
1964	217,706	78,858	36.2
1966	246,690	97,238	39.4
1970	287,740	132,777	46.1
1975	316,930	164,921	52.0

Forecasts indicate that, although the University of Minnesota will continue to enroll the largest segment of Minnesota's college students, lower division attendance in the University's major undergraduate colleges in St. Paul and Minneapolis will tend to level off as the University's further growth is concentrated in primarily upper division, professional, and graduate educational programs. Factors involved in this change include the controlled growth principle applied by the University to some of its lower division units and the increasing proportion of the State's lower division students who will be enrolled in the growing junior college system.

University of Minnesota enrollment is expected to total 63,650 by 1975 — 38.6 per cent of the estimated full-time attendance in Minnesota colleges and universities — as compared with the University's actual attendance of 43,997 in the fall quarter of 1966. University attendance estimated for the next two years, based on the controlled growth principle, are 48,400 for the fall quarter of 1967 and 51,200 for the fall quarter of 1968.

The accompanying charts show the actual distribution of attendance in Minnesota colleges and universities by type of institution in 1966 and the distribution of enrollment expectations for 1975.

DISTRIBUTION OF ATTENDANCE



WE NEED STATE MONEY

To Recruit And Retain An Outstanding Faculty

AVERAGE CASH SALARIES PLUS FRINGE BENEFITS

Where Minnesota stands in comparison with eleven other Big Ten and California universities.

1966-1967	
Nine-Month Staff	Twelve-Month Staff
PROFESSORS	
11th out of 12	12th out of 12
ASSOCIATE PROFESSORS	
12th out of 12	11th out of 12
ASSISTANT PROFESSORS	
12th out of 12	10th out of 12
INSTRUCTORS	
12th out of 12	10th out of 12

REGENTS' REQUEST FOR FACULTY SALARY IMPROVEMENT

1967-1968	1968-1969
"CATCH UP" FACTOR	
3½ per cent	3½ per cent
\$1,187,790	\$1,432,676
CURRENT INCREASE	
8 per cent	8 per cent
\$2,714,949	\$3,274,688

A genuinely great university is recognized by the superior quality of education which its students receive, and quality in education is primarily a matter of teachers and their abilities and standards.

Long known as a great educational institution, the University of Minnesota has derived its academic strength and prestige chiefly from the outstanding faculty which it has assembled.

The University must continue to recruit and keep superior teachers if it is to avoid serious deterioration in the quality of education it provides young Minnesotans. It must be enabled financially to compete realistically with other schools for the services of those teachers. Salaries and fringe benefits are determining factors in this competition.

Despite the substantial help of the Legislature in recent years, the University is continuing to drop further behind eleven other comparable educational institutions in the compensation of its faculty members. The other universities, with which the University of Minnesota regularly competes for staff, are California, Chicago, Illinois, Indiana, Iowa, Michigan, Michigan State, Northwestern, Ohio State, Purdue, and Wisconsin.

The tables in the margin show that for this school year, 1966-1967, the University's relative standing among the twelve institutions in average salaries and fringe benefits paid to nine-month appointees is eleventh out of twelve for professors and twelfth out of twelve for associate professors, assistant professors, and instructors. (Nine-month appointees make up about 67 per cent of the Minnesota faculty.) As an illustration of our University's disadvantage in the teacher market—the average salary of a full professor at Minnesota now is \$2,300 below that paid at the highest-paying public institution is the twelve-institution group.

We, as Regents of the University, are asking the Legislature to upgrade the University to a more favorable competitive position in the crucial effort to recruit and hold outstanding teachers. We are asking for a "current" increase of 8 per cent in the faculty payroll each year of the biennium 1967-1969, and a "catch up" salary improvement of 3½ per cent for each of the two years. These improvements, we believe, will allow the University to approach the median salary position among the twelve California and Big Ten universities by the close of the 1967-1969 biennium.

STUDENT-FACULTY RATIOS

We Need Additional Faculty Members For Effective Teaching

One gauge of any school's quality as an educational institution is its teachers and their standards. Equally significant is a second measurement, the student-faculty ratio – how many students to how many teachers. There is a close relationship between that ratio and effective teaching.

University requirements for faculty differ markedly from both state and private colleges. At the University, there are three distinct teaching jobs to be done – three distinct student groups to be taught. These are (1) undergraduate and non-professional students, (2) technical and professional students, and (3) medicine, veterinary medicine, dentistry, and graduate students. Instruction in the three groups differs greatly in the demands on the time and resources of faculty members. Undergraduate and non-professional teaching requires less faculty time than instruction in the technical and professional schools. In graduate education and in highly specialized fields such as medicine and dentistry, individualized instruction is absolutely essential.

The ratios shown in the margin represent the generally accepted standards for effective university teaching in the three categories – 19 to 1 for the first group, 12.7 to 1 for the second, and 6.3 to 1 for the third. The ratios are goals still to be reached by the University of Minnesota. Applied to estimates of enrollment increases, the ratios have been used to determine how many additional teachers the University will need in the next two years. We will need –

For 1967-1968	227 New Faculty Members
For 1968-1969	250 New Faculty Members
For 1967-1969	477 New Faculty Members

STUDENT-FACULTY RATIOS FOR EFFECTIVE TEACHING

Undergraduate and Non-professional

STUDENTS **19** / 1 TEACHER

- College of Liberal Arts
- General College
- College of Education
- University College
- University of Minnesota, Duluth
- University of Minnesota, Morris

Technical and Professional

STUDENTS **12.7** / 1 TEACHER

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

Medicine, Dentistry, Veterinary Medicine, Graduate School

STUDENTS **6.3** / 1 TEACHER

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

Additional Civil Service Staff

Civil Service staff members provide close support for the University's teaching program. They perform essential functions which can be done more economically and more effectively by University people without teaching responsibilities, and their efficient use frees the academic staff from routine non-teaching duties. Librarians, laboratory assistants, audio-visual technicians, counselors, admissions clerks, and other non-teaching staff members form an indispensable auxiliary to the teaching staff. As University enrollments continue upward, and as the faculty is increased to accommodate more and more students, additional Civil Service people are needed. Consistent with our request for increases in the academic staff and on the basis of anticipated increases in the number of students, we are asking the Legislature for an additional 171 Civil Service employees for 1967-1968 and for 133 more employees for 1968-1969.

Additional Civil Service staff needed	
1967-1968	1968-1969
171	133

Civil Service Salary Adjustments

To retain competent, trained employees and to maintain comparability with salaries of State Civil Service employees, the University is seeking to provide merit salary increases for each of the next two years. To meet the cost of these increases, we are asking that Civil Service salary funds be raised by \$619,254 for 1967-1968 and that an additional \$776,305 be appropriated for 1968-1969.

Civil Service merit increases requested	
1967-1968	1968-1969
\$619,254	\$776,305

**Cost of implementing
new State pay plan
\$2,270,598**

A new pay plan proposed for State employees, if approved by the Legislature, will become effective July 1, 1967. The plan provides for a minimum increase of 8 per cent for all State employees. Because the University is required by law to maintain comparability with State Civil Service pay schedules, we are asking \$2,270,598 for the first year of the biennium to meet the cost of moving University employees into the new pay ranges called for in the plan.

Teaching Supplies And Equipment

Instructional supplies and equipment are essential to the education of University students. Library books, microscopes, office supplies, examination books, calculators, and computers are teaching-related necessities. Expenditures for these necessities over the last three years have averaged \$85.55 per student annually. Increases in our supplies and equipment request — \$284,026 for the first year of the biennium and \$233,552 for the second year — are based on the estimated increase in students each year multiplied by the \$85.55 yearly per student cost.

**Average annual per
student cost for
supplies, equipment
\$85.55**

In addition, because of the 6 per cent gain in the United States Bureau of Labor Index of Wholesale Prices between July 1964 and July 1966, we are asking the Legislature for a "catch up" increase for supplies and equipment in the amount of \$661,029 for the year 1967-1968.

INDEX TO SUMMARY OF UNIVERSITY NEEDS AND REGENTS' REQUESTS

Pages 14-18 – BUILDINGS

Legislative Request 1967-1969

TWIN CITIES CAMPUS	
MINNEAPOLIS	
WEST BANK OF RIVER	\$16,462,897
EAST BANK OF RIVER	22,305,310
ST. PAUL	17,728,000
COMO SERVICE AND RESEARCH AREA	2,000,000
TOTAL TWIN CITIES CAMPUS	\$58,496,207
DULUTH CAMPUS	6,654,000
MORRIS CAMPUS	2,890,600
SCHOOLS OF AGRICULTURE AND EXPERIMENT STATIONS	2,201,760
TOTAL BUILDINGS	<u>\$70,242,567</u>

		<u>Legislative Appropriation 1966-1967</u>	<u>Legislative Request 1967-1968</u>	<u>Legislative Request 1968-1969</u>
Page 19	– SPECIAL STATE APPROPRIATIONS	\$ 3,318,012	\$ 6,613,953	\$ 7,659,456
Page 20	– TECHNICAL INSTITUTE, CROOKSTON	150,130	488,640	545,975
Page 21	– UNIVERSITY HOSPITALS	4,742,975*	5,007,455*	5,214,292*
Pages 22-23	– GENERAL OPERATIONS AND MAINTENANCE	43,886,071	55,806,589	66,208,997
	TOTAL	<u>\$52,097,188</u>	<u>\$67,916,637</u>	<u>\$79,628,720</u>

* Does not include Counties' share of the cost of indigent patients.

BUILDINGS AND LAND NEEDS

Summary by Campus

TWIN CITIES CAMPUS

Minneapolis – West Bank

NEW BUILDINGS

Auditorium Classroom Building	\$ 2,875,000
Humanities Division Office Building	4,208,000
Classroom and Laboratory Building for Performing Arts, Radio, and Television	5,808,000
Physical Education Building Planning Funds (4% of \$3,680,000)	147,000
Sub-Total	<u>\$13,038,000</u>

REMODELING AND REHABILITATION

Naegele Building (Completion of Studio Art Instructional Facility)	\$ 225,000
West Bank Classroom and Business Administration Buildings (3rd floors)	120,000
Air Conditioning of West Bank Buildings	767,600
Sub-Total	<u>\$ 1,112,600</u>

UTILITIES AND SERVICE FACILITIES

Develop Fields and Lighting for Outdoor Teaching Areas for Physical Education	\$ 236,000
--	------------

LAND NEEDS

Purchase of Remaining Private Property on West Bank	\$ 2,076,297
TOTAL 1967 REQUESTS, WEST BANK	<u><u>\$16,462,897</u></u>

Minneapolis – East Bank

NEW BUILDINGS

Education Laboratory and Office Building	\$ 5,489,000
Vincent-Murphy Addition for Mathematics and Statistics	2,400,000
Space Science Building Completion	200,000
Chemistry-Library Office Link (2 levels)	217,000
Laboratory-Classroom Building South of Chemistry, Phase II	3,740,000
Engineering Classroom Building (Planning Funds 4% of \$3,854,500)	154,000
Science Classroom Building, Phase II	1,962,000
Completion of Addition to Museum of Natural History (To match gifts)	140,000
Morrill Hall Addition	2,025,000
Health Sciences Facility (Planning Funds)*	500,000
Sub-Total	<u>\$16,827,000</u>

*(Supplement Request dated July 15, 1966)

REMODELING AND REHABILITATION

State Board of Health and Psychology Building (Includes rehabilitation)	\$ 1,745,000
Experimental Engineering	250,000
Shops and Storehouse (Vacated printing area)	350,000
Walter Library, Phase III	274,500
University Hospitals	300,000
Installation of Additional Elevator, Mayo Building	140,000
Installation of Elevator, Main Engineering	90,000
Nolte Center for Continuing Education	120,000
Jackson Hall – Completion of the Fourth Floor and Remodeling Laboratories	360,000
Sub-Total	<u>\$ 3,629,500</u>

UTILITIES AND SERVICE FACILITIES

Rehabilitation and Expansion of Campus Electrical Distribution System, Phase II	\$ 350,000
Campus Street Improvements	262,000
Sub-Total	<u>\$ 612,000</u>

LAND NEEDS

Land for Physical Facilities for Health Sciences	\$ 650,000
Land for Physical Education (South of Stadium)	125,000
Land on, Fourth St., S.E.	236,810
Land at Fourth and Oak St., S.E.	225,000
Sub-Total	<u>\$ 1,236,810</u>
TOTAL 1967 REQUESTS, EAST BANK	<u><u>\$22,305,310</u></u>

Saint Paul**NEW BUILDINGS**

Horticulture Science Facility	\$ 3,172,000
Basic Building	\$2,146,000
Research Greenhouses (3)	420,000
Teaching Greenhouse	140,000
Field Lab and Headhouse	546,000
Less Planning Funds	80,000
Animal Science Facility (Planning Funds 4% of \$6,132,000 and 1% of \$4,620,000)	29,1000
Classroom-Office Building, Agricultural Economics-Rural Sociology (Planning Funds 4% of \$3,706,000)	148,000
Housing Environmental Research Facility	325,000
Forest Products Laboratory Addition	447,000
Plant Pathology Greenhouse and Field Laboratory-Headhouse	333,000
Completion of Soils Facility	136,000
(A) Soils Science Building (3rd floor)	\$40,000
(B) Greenhouse and Headhouse	96,000
Farm Machines Service and Storage Building and Agricultural Engineering Storage Building	442,000
Crop Service Field Building	259,000
Biological Science Facility	7,945,000
Addition to Veterinary Diagnostic and Research Laboratory (2 floors)	720,000
Veterinary Medicine Building (Planning Funds)	97,000
Plant Services Shops and Storehouse Building	525,000
Sub-Total	<u>\$14,840,000</u>

REMODELING AND REHABILITATION

Coffey Hall	\$ 1,500,000
Snyder Hall	250,000
Sub-Total	<u>\$ 1,750,000</u>

UTILITIES AND SERVICE FACILITIES

New Boiler and Auxiliaries	\$ 730,000
Primary Electrical Distribution System Expansion	85,000
Tunnel Extension to Greenhouse	190,000
Road Repaving, Widening, Surfacing and Street Lighting	133,000
Sub-Total	<u>\$ 1,138,000</u>

TOTAL 1967 REQUESTS, ST. PAUL

\$17,728,000

Como Service and Research Area**NEW BUILDINGS**

Transportation Service Building	\$ 2,000,000
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TOTAL 1967 REQUESTS, COMO SERVICE AND
RESEARCH AREA

\$ 2,000,000

DULUTH CAMPUS**NEW BUILDINGS**

Administration Building	\$ 1,390,000
Classroom Building	990,000
Physical Plant Shops and Equipment	260,000
Lecture Hall	260,000
Theater	880,000
Health Service (25% of cost)	50,000
Sub-Total	<u>\$ 3,830,000</u>

REMODELING AND REHABILITATION

Convert Biology Space to Chemistry Laboratories	\$ 230,000
Develop Studio Space and Facilities for CCTV	110,000
Elevator, Science-Mathematics Building	27,000
Complete Planetarium, Observatory Complex	127,000
Sub-Total	<u>\$ 494,000</u>

UTILITIES AND SERVICE FACILITIES

Garage and General Storage	\$ 210,000
Heating Plant Addition, Including Boiler	540,000
General Landscaping and Campus Improvement	95,000
Sub-Total	<u>\$ 845,000</u>

HOUSING AND FOOD SERVICE

Service Center and Food Service for Residence Halls, Phase I (25% of Cost)	\$ 220,000
Single Student Housing, 404 Students (25% of Cost)	550,000
Sub-Total	<u>\$ 770,000</u>

LAND

Add 58.5 Acres to Campus (Includes 46 houses)	\$ 715,000
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TOTAL 1967 REQUESTS, DULUTH

\$ 6,654,000

**MORRIS CAMPUS
COLLEGIATE FACILITIES**

Residence Halls, 250 Units (25% of Cost)	\$ 300,000
Physical Education (62,712 square feet)	1,500,000
Heating Plant, Phase I	520,000
Central Heating Tunnel and Piping	84,900
Electrical Distribution System, Phase I	229,500
South Area Heating Tunnel and Piping	147,200
Science Complex Road with Drainage and Lighting	51,000
North Entrance Road with Drainage and Lighting	58,000
TOTAL 1967 REQUESTS, MORRIS	\$ 2,890,600

**SCHOOLS OF AGRICULTURE AND EXPERIMENT STATIONS
West Central School and Experiment Station, Morris**

Utilities	\$ 46,000
Drainage and Site Preparation	20,000
Feed Storage and Processing Center	50,000
Beef Research Facility	30,400
Swine Research Facilities	93,000
Sheep Research Facility	26,160
TOTAL 1967 REQUESTS	\$ 265,560

Northwest School and Experiment Station, Crookston

Addition and Renovation, Animal Science Building	\$ 192,000
Continuing Development of Livestock Research Facilities	40,000
Farm Machinery Maintenance Center	20,000
Maintenance Shop Addition to Heating Plant	35,000
Repair of Curbing, Catch Basins and Paving	80,000
Storm Sewer	50,000
Street Lighting System	15,000
New Dormitory (25% of Cost)	*
TOTAL 1967 REQUESTS	\$ 432,000

North Central School and Experiment Station, Grand Rapids

Research – Continuing Education Center	\$ 200,000
Potato Storage	30,000
Silos (Two 20' x 50')	14,000
Complete Road Surfacing	15,000
TOTAL 1967 REQUESTS	\$ 259,000

Southern School and Experiment Station, Waseca

Dairy Management Research Facility and Centralized Forage Storage	\$ 125,000
Land Acquisition	94,000
Centralized Grain Drying and Storage Facility	25,000
Agricultural Engineering Shop Addition	90,000
Campus Lighting, Parking Lot, and Roadway Development	30,000
TOTAL 1967 REQUESTS	\$ 364,000

*Estimated at \$325,000. Submitted to Legislative Building Commission as a supplemental request.

Fruit Breeding Farm, Excelsior

Replacement of Staff Housing	\$ 10,000
Screenhouse (40' x 60')	8,000
Chain-link Fencing (1¼ miles)	16,500
Tile Drainage	10,000
TOTAL 1967 REQUESTS	<u>\$ 44,500</u>

Landscape Arboretum, Excelsior

Install Tile Drains	\$ 6,000
Deep Well and Irrigation System for Nursery Area	10,000
TOTAL 1967 REQUESTS	<u>\$ 16,000</u>

Lake Itasca Forestry and Biological Station

Two Faculty Cabins	\$ 27,200
Student Cabin	8,500
Station Electrical System	51,000
TOTAL 1967 REQUESTS	<u>\$ 86,700</u>

Forest Research Center, Cloquet

Remodeling and Addition to Office-Laboratory Building	\$ 50,000
Superintendent's Residence	30,000
Machinery Storage Building	10,000
Student Cabin (1)	10,000
TOTAL 1967 REQUESTS	<u>\$ 100,000</u>

Cedar Creek Natural History Area

Peterson Tract (158 acres)	\$ 41,500
East Shore Fish Lake Tract (90 acres)	102,700
Hammernick Tract (20 acres)	29,800
TOTAL 1967 REQUESTS	<u>\$ 174,000</u>

Southwest Experiment Station, Lamberton

Office and Continuing Education Center	\$ 110,000
Scale House and Fertilizer Storage Building	15,000
Land Acquisition	60,000
TOTAL 1967 REQUESTS	<u>\$ 185,000</u>

Agricultural Experiment Station, Rosemount

Replacement of Swing Research Facility	\$ 120,000
Turkey Research Facility	120,000
Chicken Research Facility	35,000
TOTAL 1967 REQUESTS	<u>\$ 275,000</u>

TOTAL 1967 REQUESTS — SCHOOLS OF AGRICULTURE AND EXPERIMENT STATIONS

	<u>\$ 2,201,760</u>
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BUILDINGS GRAND TOTAL	<u><u>\$70,242,567</u></u>
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SPECIAL STATE APPROPRIATIONS

	Legislative Appropriation 1966-1967 *	Legislative Request 1967-1968	Legislative Request 1968-1969
Agricultural Extension	\$1,050,746	\$2,682,565	\$3,543,336
Experiments in the Beneficiation of Manganiferous and Low Grade Ores	80,627	94,579	99,106
General Agricultural Research	822,735	1,578,861	1,632,141
Medical and Cancer Research	120,162	150,000	150,000
Veterinary Diagnostic Laboratory	93,353	162,000	212,000
Institute of Child Development	55,270	60,811	65,837
General Research	130,065	160,000	160,000
Forest Research Center – Cloquet		55,500	59,202
Minnesota Institute of Research	40,022	50,000	50,000
Livestock Sanitary Board, Testing of Poultry**	(44,519)	(67,109)	(67,109)
Agricultural Research, Rosemount	155,789	215,880	221,046
Hybrid Corn Maturity Tests**	(18,076)	(22,000)	(22,000)
Tuition and Transportation Aid for Students of Agricultural Schools	40,000	34,400	29,400
Potato Processing Research Laboratory	21,086	26,060	26,444
Business and Economic Research	35,130	54,356	62,955
Wild Rice Research		104,051	111,873
Soybean Research	80,432	183,731	189,686
Geological Survey	60,357	125,000	135,000
Psychiatric Research Fund	116,616	138,701	148,726
Control of Aquatic Nuisance Organisms	14,050	40,000	40,000
Special Education Training and Research Program	53,308	109,937	125,853
Beneficiation of Industrial Minerals and Non- ferrous Deposits	50,270	55,673	58,415
Industrial Relations Education Program	50,248	99,309	111,318
Experiments in the Beneficiation of Mangani- ferous and Low Grade Ores and for Experi- ments in the Direct Process Beneficiation of Ores of the Cuyuna Range	100,854	118,192	123,618
Paleontology Program	7,000	16,000	17,000
Archeology Program – Minnesota	18,004	19,000	19,000
NDEA Loan, Matching	121,888	217,500	217,500
Study of Family Practice		50,000	50,000
Special Assessments, Duluth		1,294	
Special Assessments, St. Paul		10,553	
TOTAL	\$3,318,012	\$6,613,953	\$7,659,456

* 1966-1967 appropriation includes amounts added through an open-end appropriation to cover the costs of the employers' share of the increase in Social Security contributions on January 1, 1966 (Medicare).

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

UNIVERSITY OF MINNESOTA TECHNICAL INSTITUTE, CROOKSTON

The newly-established Technical Institute at Crookston enrolled 184 students in its first class, in the fall of 1966, on the campus which since 1906 has housed the University's Northwest School of Agriculture. Although still in operation, the Northwest School is being phased out to make way for the new Institute, which is designed to serve a growing need in higher education.

On the basis of intensive studies which began in 1957, the Regents of the University created the Institute to provide a two-year background of semi-professional education to prepare young men and women for careers primarily in the fields of agriculture and business. The State Legislature, in its 1965 session, appropriated funds to start the new educational venture.

The Technical Institute now offers programs in agricultural operations, agricultural technology, agricultural business and agricultural finance, accounting, marketing and merchandising, small business administration, and executive secretarial work. Incorporated in the Legislative request for 1967-1969 are provisions for adding two new areas to the Institute's curriculum — food service management technology and agricultural engineering technology. The 1,400-acre Northwest Agricultural Experiment Station, which will be maintained at Crookston, serves Institute students in agricultural study areas as a laboratory.

A student who successfully completes the prescribed course requirements during his two years at the Institute will receive the Associate degree.

With a sophomore class to be added during the coming school year, Technical Institute enrollment is expected to climb to an estimated 350 in the fall of 1967, and to 400 in the fall of 1968.

SUMMARIZED EXPLANATION OF REGENTS' REQUEST

SOURCE OF FUNDS	1966-1967	1967-1968	1968-1969
Estimated tuition and fees	\$ 34,300	\$ 96,130	\$109,956
Legislative appropriation, made in 1965	150,130		
Regents' Legislative request for 1967-1969		488,640	545,975
TOTAL BUDGET	\$184,430	\$584,770	\$655,931

UNIVERSITY HOSPITALS

Now the nucleus of one of the nation's outstanding medical centers, University Hospitals was established in 1909 to provide care for the patients needed in training future doctors and other medical personnel. It serves as the principal teaching hospital of the College of Medical Sciences.

During the year ending June 30, 1966, University Hospitals admitted 15,200 bed patients. The average length of stay was 14.8 days. In addition, the Hospitals treated many thousands of other patients who made almost 120,000 visits to its outpatient clinics, an average of about 460 per day. Patients are admitted to the 849-bed University Hospitals by referral of their private physicians.

Many Minnesota organizations, including the American Legion, the Veterans of Foreign Wars, the Variety Club of the Northwest, and the Masons, have contributed generously to the College of Medical Sciences and University Hospitals. But the basic operating needs of University Hospitals — as well as those of the entire University — must be met by all Minnesotans through their Legislature.

Reflected in the itemized Hospitals requests below are increases corresponding to those asked for the rest of the University for faculty and civil service salaries and for meeting the higher costs of supplies and equipment.

SUMMARY OF NEEDS

	Legislative Appropriation 1966-1967	Legislative Request 1967-1968	Legislative Request 1968-1969
University of Minnesota Hospitals			
From the State	\$2,575,036	\$2,372,060	\$2,454,134
From the Counties	2,523,374	2,372,060	2,454,134
TOTAL	\$5,098,410	\$4,744,120	\$4,908,268
Psychopathic Hospital	858,565	1,082,293	1,135,459
Child Psychiatric Hospital	329,783	389,373	408,245
Rehabilitation Center	863,256	1,021,524	1,060,747
Multiple Sclerosis Clinic	116,335	142,205	155,707
TOTAL	\$7,266,349	\$7,379,515	\$7,668,426
Summary by Source			
From the State	\$4,742,975	\$5,007,455	\$5,214,292
From the Counties	2,523,374	2,372,060	2,454,134
TOTAL	\$7,266,349	\$7,379,515	\$7,668,426

GENERAL OPERATIONS AND MAINTENANCE

University Needs And Requests For 1967-1969

The General Operations and Maintenance appropriation makes it possible for the University to meet the cost of its fundamental educational work. Part of the need is met by income from tuition and fees, general income, and departmental income, but the State money provided by the Legislature is crucial to the University's existence. In determining our General Operations and Maintenance request for the Legislature, we first determine the University's needs for the next two years and then subtract estimated income.

Major expenses to be met include the following:

- The instructional costs of all colleges, schools, and departments on the Minneapolis-St. Paul, Duluth, and Morris campuses.
- Part of the cost of the Summer Session and the General Extension Division – both primarily self-supporting from tuition and fees.
- The cost of the University Libraries.
- The cost of the sub-collegiate schools and research stations.
- The general and administrative costs of the University.
- The operation and maintenance of buildings and grounds.

EXPLANATION OF THE REGENTS' OPERATIONS AND MAINTENANCE REQUEST FOR 1967-1969

FOR –

Total Operations and Maintenance,
the University will need

**FOR
1967-1968**

\$83,085,550

**FOR
1968-1969**

\$95,028,763

BUT –

Income from tuition and fees, general
and departmental income will be

\$27,278,961

\$28,819,766

THEREFORE –

We are asking the Legislature for

\$55,806,589

\$66,208,997

ANALYSIS OF INCREASES

GENERAL OPERATIONS AND MAINTENANCE

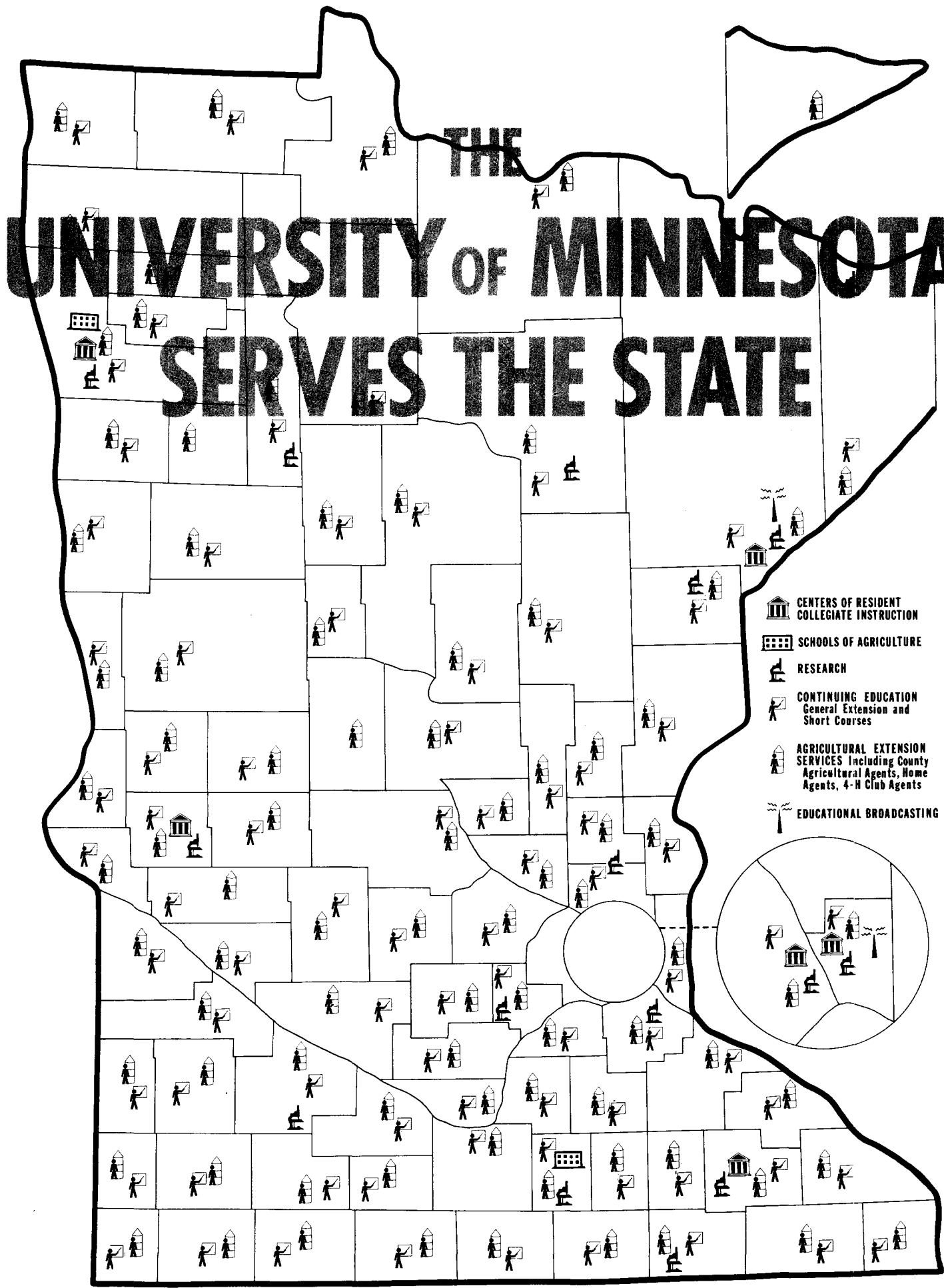
	Increase Each Year Over Previous Year	
	<u>1967-1968</u>	<u>1968-1969</u>
ACADEMIC STAFF		
Salary improvement	\$ 3,902,739	\$ 4,707,364
Additional staff	3,093,996	3,490,135
CIVIL SERVICE SALARIES		
Salary Adjustments		
Merit increases	619,254	776,305
Proposed State pay plan	2,270,598	
Additional staff	1,137,090	1,035,197
MECHANICS PAYROLL		
Salary adjustments	78,461	82,855
OTHER THAN SALARIES		
Departmental Supply and Expense Budgets		
Cost for Additional Students	284,026	233,552
Price Level Increase	661,029	
Physical Plant – Operating Costs of New Buildings	276,694	929,178
OASDI-SERA Increases	449,188	330,632
Civil Service Health Program	459,429	36,137
Mines Tax Commission	10,256	1,188
	<u> </u>	<u> </u>
TOTAL INCREASES	\$13,242,760	\$11,622,543
LESS INCREASE IN ESTIMATED INCOME *	<u>\$ 1,322,242</u>	<u>\$ 1,220,135</u>
NET INCREASE IN REQUEST	<u>\$11,920,518</u>	<u>\$10,402,408</u>







* Excluding Summer Session and General Extension Division increases.

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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THE UNIVERSITY OF MINNESOTA SERVES THE STATE



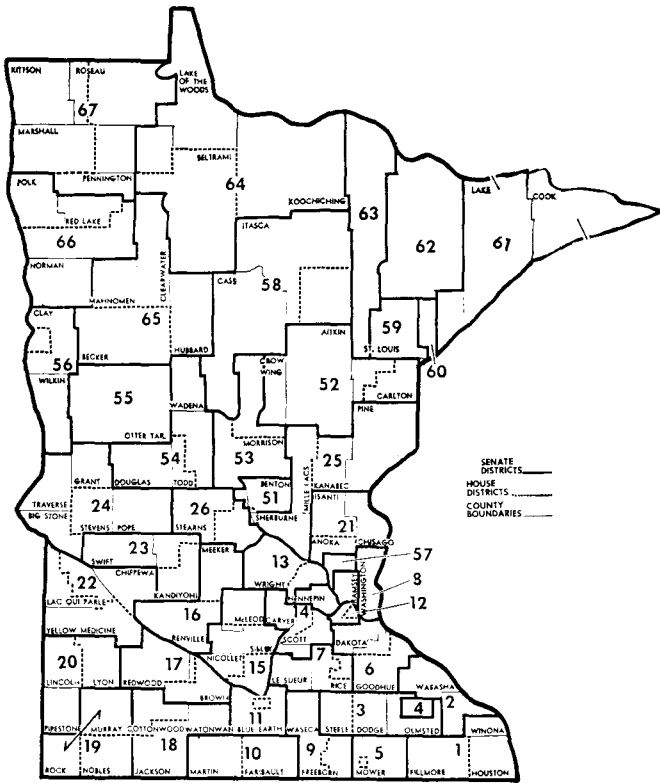
-  CENTERS OF RESIDENT COLLEGIATE INSTRUCTION
-  SCHOOLS OF AGRICULTURE
-  RESEARCH
-  CONTINUING EDUCATION
General Extension and Short Courses
-  AGRICULTURAL EXTENSION SERVICES
Including County Agricultural Agents, Home Agents, 4-H Club Agents
-  EDUCATIONAL BROADCASTING

House of Representatives

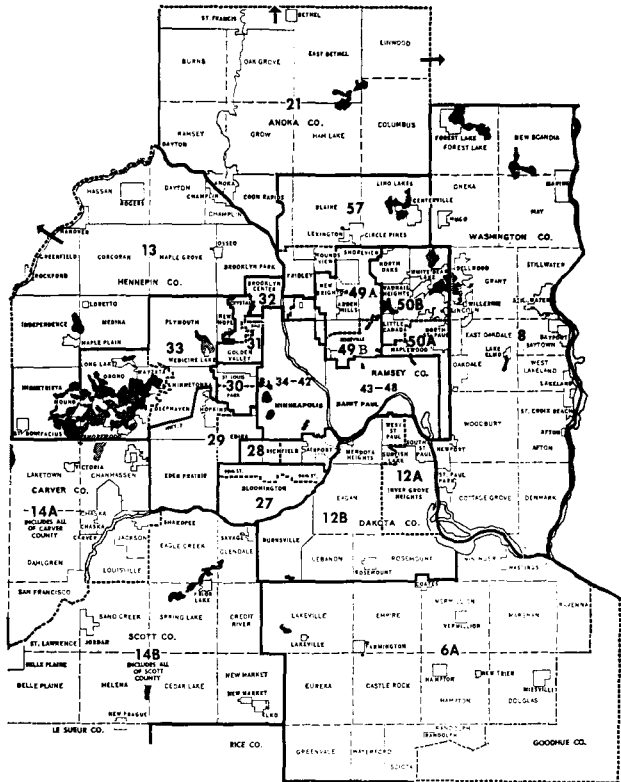
District	County	Name						
			36	Hennepin	Thor Anderson	7	Rice, LeSueur	A. O. Sundet
					F. Gordon Wright	8	Washington	Robert J. Brown
			37	Hennepin	Harold J. Anderson	9	Waseca	
					John W. Johnson		Freeborn	Rudolph Hanson
			38	Hennepin	George F. Humphrey	10	Faribault	
					Richard H. White	11	Blue Earth	Ernest J. Anderson
1A	Fillmore	Clinton Hall			Edward J. Gearty	12	Dakota	Kelly Gage
1B	Houston, Winona	L. L. Duxbury	39	Hennepin	John J. Salchert	13	Wright	Rollin B. Glewwe
2A	Winona	Frank Theis	40	Hennepin	Stanley J. Fudro		Hennepin	Victor N. Jude
2B	Wabasha, Winona	Charles H. Miller			Edward J. Tomczyk	14	Carver, Scott, LeSueur	John A. Metcalf
3A	Steele	John A. Hartle	41	Hennepin	John P. Skeate			
3B	Dodge, Olmsted	Al Falkenhagen	42	Hennepin	Alpha Smaby	15	Nicollet	
4	Olmsted	E. W. Quirin			James L. Adams		McLeod, Sibley	Harold R. Popp
		Alfred Schuman	43A	Ramsey	Martin Olav Sabo	16	Renville	
5A	Mower	Helen E. McMillan	43B	Ramsey	Robert L. Pavlak		Meeker, Wright	Stanley W. Holmquist
5B	Mower	Harvey B. Sathre	44A	Ramsey	Vern Sommerdorf			Carl A. Jensen
6A	Dakota, Goodhue	Walter W. Klaus	44B	Ramsey	Emery Barrette	17	Brown, Redwood	
6B	Goodhue	Roy L. Voxland	45A	Ramsey	Bruce Lindahl	18	Cottonwood,	
7A	Rice	Warren D. Warren	45B	Ramsey	Joseph Prifrel		Jackson,	
		Chamberlain	46A	Ramsey	Richard W. Richie		Watsonwan	Walter J. Franz
7B	Rice, LeSueur	George B. Krenik	46B	Ramsey	Fred C. Norton	19	Murray, Nobles,	
8	Washington	Howard R. Albertson	47A	Ramsey	Roy R. Ryan		Rock	John L. Olson
		Richard W. O'Dea	47B	Ramsey	Robert W. Johnson	20	Lincoln, Lyon,	J. A. Josefson
9A	Freeborn	Paul Overgaard	48A	Ramsey	Joseph T. O'Neill		Pipestone	
9B	Freeborn, Waseca	Rod Searle	48B	Ramsey	Jack Morris	21	Chisago, Isanti,	Howard Nelson
		Arlen I. Erdahl	49A	Ramsey	Robert F. Christensen	22	Anoka	
10A	Faribault	Newton A. Johnson			Richard A. Andersen		Chippewa,	
10B	Martin	C. A. Johnson	49B	Ramsey	Robert C. Bell	23	Yellow Medicine,	Vernon K. Jensen
11A	Blue Earth	Roy Schulz	50A	Ramsey	John B. Winter		Lac qui Parle	
11B	Blue Earth	Raymond Pavlak	50B	Ramsey	Tom Newcome		Swift	
12A	Dakota	Howard A. Knutson	51A	Stearns	Jack Kleinbaum	24	Kandiyohi	Robert G. Johnson
12B	Dakota	John P. Wingard	51B	Benton,	Marvin C. Schumann		Big Stone,	
13A	Hennepin	Arnold D. Gruys				25	Grant, Pope,	
13B	Wright	Ralph Jopp	52A	Sherburne,	Howard E. Smith		Traverse, Stevens	C. J. Benson
14A	Carver, Scott	Henry J. Morlock			Bernard Carlson	26	Pine, Kanabec,	George E. Grant
14B	LeSueur, Scott	Walter C. Jungclauss	52B	Aitkin, Carlton,	Jack Lemme	27	Mille Laes,	Henry M. Harren
15A	McLeod	August B. Mueller	53A	Crow Wing	John G. Laurian	28	Sherburne	Jerome V. Blatz
15B	McLeod,	Carl M. Johnson	53B	Carlton	Art Engelbrecht	29	Stearns	W. C. Kirchner
		Ernest Schafer	54A	Morrison	Ron Everson	30	Hennepin	Alf Bergerud
15C	Nicollet	Adolph Kvam	54B	Crow Wing	H. J. Henning	31	Hennepin	Kenneth Wolfe
16A	Nicollet	Aubrey W. Dirlam	55	Douglas, Todd	Calvin R. Larson	32	Hennepin,	Eugene F. Welter
16B	Renville	Ivan Stone	56A	Todd, Wadena	D. H. Sillers	33	Anoka, Ramsey	Dean A. Nyquist
		Gilbert D. Esau	56B	Otter Tail	Arlan Stangeland	34	Hennepin	Henry T. McKnight
17A	Meeker, Wright	M. K. Hegstrom	57A	Clay	Don Savelkoul	35	Hennepin	Mel Hansen
17B	Brown,	Don Mitchell	57B	Clay, Wilkin	Ray S. Johnston	36	Hennepin	Wayne C. Popham
18A	Redwood	Wendell O. Erickson	58A	Anoka, Ramsey	Robert G. Renner	37	Hennepin	Glenn D. McCarty
			58B	Anoka, Ramsey	Art Frick	38	Hennepin	Harmon T. Ogdahl
18B	Brown		59A	Cass, Itasca	Dwight A. Swanstrom	39	Hennepin	Donald O. Wright
				Itasca	Willard M. Munger	40	Hennepin	Leo D. Mosier
19A	Watsonwan		59B	St. Louis	Richard H. Hanson	41	Hennepin	Harold Kalina
19B	Nobles		60	St. Louis	Duane Rappana	42	Hennepin	Roy W. Holsten
			61A	St. Louis	William H. House	43	Hennepin	Jack Davies
20A	Murray, Rock		61B	Cook, Lake,	Alfred E. France	44	Ramsey	Karl F. Grittner
			62	St. Louis	Fred A. Cina		Ramsey	Wendell R. Anderson
20B	Lincoln,		63	St. Louis	J. William Trygg	45	Ramsey	Edward G. Novak
20B	Pipestone		64A	St. Louis	Jack Fena	46	Ramsey	Nicholas D. Coleman
21A	Lyon		64B	Beltrami,	Loren S. Rutter	47	Ramsey	Clifton Parks
21A	Anoka			Beltrami,	Leonard R. Dickinson	48	Ramsey	John Tracy Anderson
21B	Chisago, Isanti		65A	Koochiching,	Irvin N. Anderson	49	Ramsey	Robert O. Ashbach
22A	Chippewa,		65B	Lake of the Woods	Frank H. DeGroat	50	Ramsey	Jerome M. Hughes
	Lac qui Parle,			Becker		51	Benton,	
22B	Yellow Medicine			Clearwater,		52	Sherburne,	Keith Hughes
	Lac qui Parle,			Hubbard,			Stearns	
23A	Yellow Medicine			Mahnomen		53	Aitkin, Carlton,	Norman W. Hanson
	Kandiyohi,			Hubbard,			Crow Wing	
23B	Swift			Polk,		54	Morrison,	Gordon Rosenmeier
	Kandiyohi			Red Lake			Crow Wing	
24A	Pope, Stevens			Kittson,		55	Douglas, Todd,	M. W. Bursch
24B	Big Stone,			Marshall, Roseau		56	Wadena	Cliff Ukkelberg
	Grant, Traverse			Marshall, Roseau		57	Otter Tail	W. B. Dosland
25A	Kanabec, Pine			Marshall, Pennington, Roseau		58	Clay, Wilkin	Tom Greig
25B	Mille Laes,					59	Anoka, Ramsey	Norbert Arnold
	Sherburne					60	Cass, Itasca	Francis LaBrosse
26A	Stearns					61	St. Louis	Arne C. Wanvick
26B	Stearns						St. Louis	
27A	Hennepin					62	Cook, Lake,	Raymond J. Higgins
27B	Hennepin					63	St. Louis	A. J. Perpich
28A	Hennepin					64	St. Louis	Rudy Perpich
28B	Hennepin						Lake of the Woods,	
29A	Hennepin						Koochiching,	
29B	Hennepin						Beltrami	Gene Mammenga
30A	Hennepin						Becker, Hubbard,	
30B	Hennepin						Mahnomen,	
31A	Hennepin						Clearwater	Robert V. Leiseth
31B	Hennepin						Norman, Polk,	
32A	Hennepin						Red Lake	Norman Larson
32B	Anoka,						Pennington,	
	Hennepin, Ramsey						Kittson, Marshall,	Donald Sinclair
33A	Hennepin						Roseau	
33B	Hennepin							
34	Hennepin							
35	Hennepin							

Senate

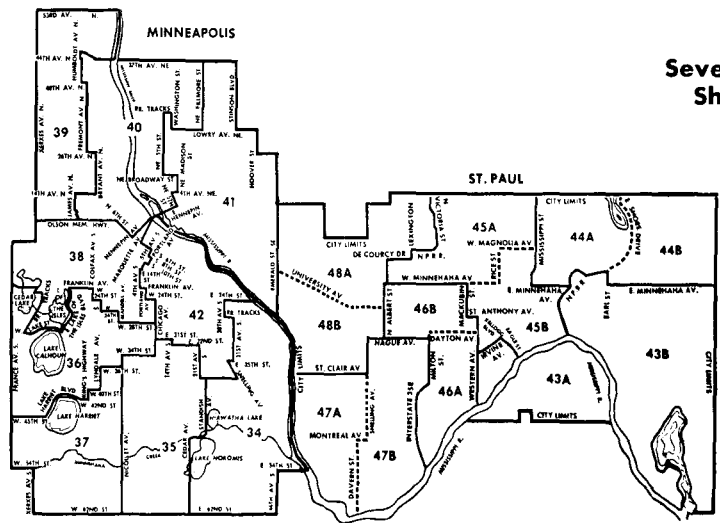
1	Fillmore,	
2	Houston, Winona	Lew W. Larson
3	Wabasha, Winona	Roger Laufenburger
4	Steele, Dodge,	
5	Olmsted	Cliff Sommer
6	Olmsted	Harold G. Krieger
	Mower	C. R. Hansen
	Goodhue,	
	Dakota	George R. Conzemius



County Outline Map of Minnesota Showing Legislative Districts



Seven-County Metropolitan Area Showing Legislative Districts



Cities of Minneapolis and St. Paul Showing Legislative Districts

Maps courtesy of Minnesota Railroads Association

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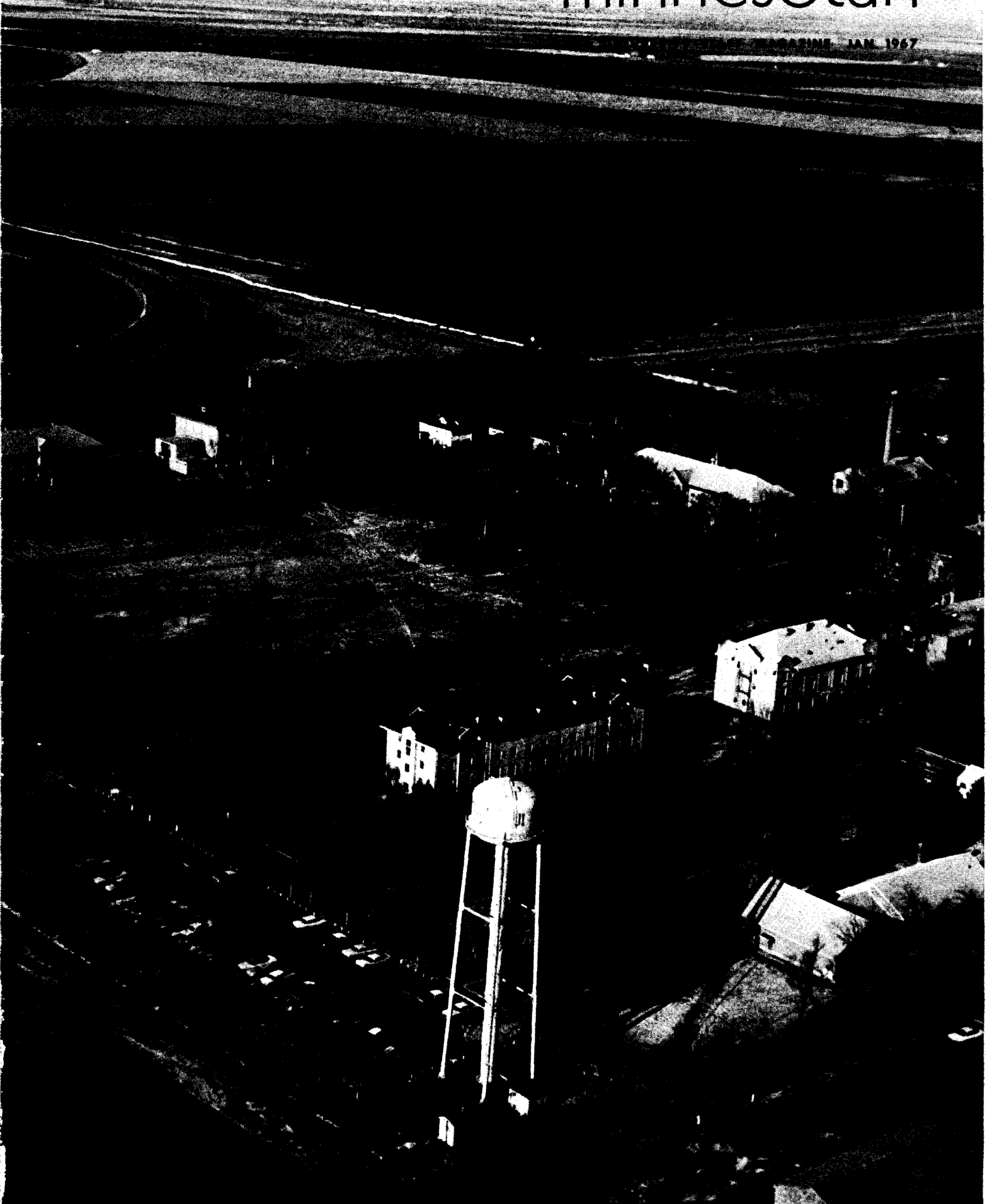




Photo by Ken R. Johnson

The President's Page

In the early history of the Red River Valley, transportation was difficult, populations were thin, and there was no guarantee that there would be secondary schools for the children of the Valley. Recognizing the problem, the University of Minnesota created an educational system designed to achieve two ends: to make sure that the people on the land could have formal education for their children, and to make sure that the education their children had would make it more possible for them to succeed on the land. Thus, the University of Minnesota School of Agriculture at Crookston was launched. For sixty years, that system contributed to better cultivation and better citizenship.

The transition now made does not suggest lack of value for the old system, but rather that new possibilities are presented to us by a changing world. Our move to a professional technical program on a collegiate level is an endorsement of the quality and value of public and private secondary education in the State of Minnesota. The University of Minnesota Technical Institute, Crookston, is a recognition that the citizens of the Valley have provided sound secondary education that operates successfully independent of the University's help.

Building upon the sound secondary education which exists, we can tap more directly the specialized technical

and professional understanding which has been developed by the Institute of Agriculture in St. Paul and by experiment stations throughout Minnesota. We believe that we can do more in the two years of post-high school programs in the Technical Institute than we could do now in four years of six-month residence secondary schools.

We are not moving into an unknown world when we move toward this Technical Institute. This program has been aided by the experience of agricultural colleges both here in the United States and abroad. Technical education particularly aimed at agriculture and business has had fruitful life elsewhere, and we believe, with our understanding of land-grant institutions, that such a plan can be improved here in Minnesota.

Launching something new is both exciting and potentially of great profit. Not often in the records of educational life is something new in mission added, something which will serve the vast requirements of education and the great increase in population. I am persuaded that those who engage in such a new mission have an exciting and important future.

The new University of Minnesota Technical Institute is a school dedicated to the creation of better citizens in the city and in the country, better technicians on land and in business, and better men and women in the home. The University is proud of this further extension of its activities. It will watch with care and solicitude every new step as the faculty provides for change as the needs of the state require such change.

Meredith Wilson

On the cover . . .

is an aerial view of the University of Minnesota Technical Institute at Crookston, the newest unit of the University. Photo by Ken R. Johnson.

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University Opens Technical Institute at Crookston

A familiar face is fading on the University of Minnesota scene. Literally replacing it is a lively youngster, the latest addition to the University family.

The Northwest School of Agriculture at Crookston, a sub-collegiate institution which has contributed much to agricultural education since it began in 1905, will graduate its last students in 1968. Located on its campus is the new University of Minnesota Technical Institute, which is just beginning its years of service to the people of Minnesota.

Utilizing the facilities — and some of the staff — of the Northwest School and Experiment Station, the new Institute will give its students semi-professional education in agriculture and agribusiness-related fields. "By 1970," said Dr. Stanley D. Sahlstrom, Director of the Technical Institute, "about 50 percent of the jobs in this country will require workers with this kind of preparation."

Meeting this job demand will be people trained at the Institute, including agricultural advisors and technicians, crop inspectors, merchandisers, credit managers, accountants, executive secretaries, salesmen and sales managers for farm products.

Speaking at the dedication of the school in late November, President O. Meredith Wilson said, "Improving the quality of technical services will help to improve agriculture. This school is intended to provide a genuine professional type of education for those interested in agriculture and agribusiness."

Dr. Bernard E. Youngquist, Chairman of the Division of Agriculture in the Institute, said, "It is prudent that the old school be phased out and another phased in, meeting the needs of the moment and looking ahead in history. As it remolds to fit new competencies, we can meet the

University Regent Herman F. Skyberg, right, an alumnus of the Northwest School of Agriculture, shows an old library volume to fellow Regent William K. Montague.

challenges of the next ten, twenty, thirty years."

About three years ago, Dr. Otto E. Domian, Director of the Bureau of Field Studies and Surveys in the College of Education, took a long, hard look at the Northwest School. He found its enrollment dropping as area schools improved and expanded their curriculum, particularly in the field of vocational agriculture. Also giving serious consideration to the problems and position of the agricultural high school was Dr. Youngquist, then Superintendent of the Northwest School.

Their studies indicated it was time for a change and, in 1965, a change came. The State Legislature, upon the recommendation of the University's Board of Regents, authorized the establishment of the Technical Institute at Crookston.

A lot of groundwork was necessary before the new

Photos by Ken R. Johnson





school could open its doors. Those who were planning the new school realized that people all over the state needed to find out what was happening. They knew that without students and active support, the new venture might not succeed.

Working with Dr. Sahlstrom on the project of telling people what kind of education this new school would offer were two staff members from the Northwest School, Mr. Herschel H. Lysaker, now Athletic Director at the Institute, and Mr. Conrad H. Kvamme, who heads the Institute's Public Information Office.

Dr. Sahlstrom himself was busy recruiting faculty members to teach in the new areas of business and general studies.

Virtually every building on campus was improved or adapted to meet the demands of the new Institute. Workmen turned Selvig Hall, an older dormitory, into an administration building. The size of the library was tripled; a new entrance to the auditorium was added. The facilities and activities of the experiment station, which provides a valuable laboratory for the agriculture curriculum, were expanded.

Watching these efforts and, from time to time, lending assistance, were top administrators from the University's Institute of Agriculture. Expressing pride in the new venture, Professor Keith N. McFarland, Assistant Dean of the College of Agriculture, Forestry, and Home Economics, said, "We are pleased with the wisdom, foresight, strength, and generosity of spirit shown by the educational community, all of which has enabled the start of the Technical Institute."

Everyone did his job well. When classes began last fall, 187 freshmen — many more than anticipated — had enrolled. Dr. Sahlstrom noted that "students here come from all over the state, although most of them are from the Red River Valley."

Special supporters of the new development are found among the alumni of the Northwest School, which include University Regent Herman F. Skyberg, and also among residents of the Crookston area.

Mayor Lloyd A. Hughes of Crookston said that the school is the pride of the people of the Northwest.

A tangible expression of Crookston interest in the Institute is the scholarship funds which individuals and businesses have donated. However, local enthusiasm shows in other ways. The Crookston radio station, KROX, sponsored a contest to name the mascot of the school; a local telephone worker submitted the winning entry, "Trojan."

Upper left, exchanging greetings on the Crookston mall are Institute Director Stanley D. Sahlstrom, left, and Dr. Bernard E. Youngquist, Superintendent of the Northwest School and now Chairman of the Institute's Division of Agriculture.

Lower left, Dr. Wayne G. Little, Chairman of the Division of Business, points out a marketing and merchandising laboratory to Dr. David A. Stoppel, Chairman of the Division of Education.





Discussing plans for acquainting Minnesotans with the Technical Institute, are left to right, Athletic Director Herschel H. Lysaker, Public Relations Director Conrad H. Kvanme, and Admissions Supervisor Richard D. Christenson.

Director Stanley D. Sahlstrom, left, introduces President O. Meredith Wilson to the Institute's first "Trojan," Jerome Hickman.

About 1500 people from the area attended the Dedication Week open house. To show appreciation for their support, the Institute will extend to them special invitations to attend its "Snow Week" in February.

Other schools in the Crookston area are giving their cooperation, working together to sponsor social events, lyceums, and convocations. Eventually, they may occasionally share the talents of particular staff members.

Although the school is located in Crookston, it serves the needs of the entire state. President Wilson said, "All institutions will have some immediate response to the regions in which they are located. Yet all are responsive to the same fundamental core of knowledge that helps them

to be better equipped."

What's in store for the future? Beginning winter quarter, evening extension courses in Marketing and Merchandising, American Institutions, and Agriculture, will be offered by popular request.

In addition to new courses in Agricultural Engineering, plans for next year include a program in Food Service Management, which will utilize existing home economics facilities. This course of study — plus a hoped-for nursing program — may attract more girls to the school, and school officials admit that the small percentage of girls is a bit of a problem at present.

This is a year of several "firsts" for the new Technical Institute. A new history is beginning; traditions are being made. The first 187 students and 26 staff members are working to make the school something of which Minnesotans will be proud. They are generating enthusiasm which will draw other students to the doors of this school to participate in the courses of study, the extracurricular activities, and the student life. They echo the words of President Wilson at the dedication of the Institute, "We are eager to make this a success."



All Aboard the Sunshine Coach

"All Aboard the Sunshine Coach!" Thanks to the Variety Club of the Northwest, this will become a familiar cry to children who are undergoing treatment at University of Minnesota Hospitals.

The Variety Club officially presented the "Sunshine Coach" to the University shortly before Thanksgiving. Although it was a brisk November day, members of the Variety Club of the Northwest and University Hospitals staff came to give an enthusiastic send-off to the first "Sunshine Coach" passengers.

Attention focused on the happy children who were being wheeled out of the hospital by staff nurses. Smiles wreathed their faces as they eagerly anticipated their first ride in the colorful bus.

Mr. Joseph Podoloff, President of the Variety Club Heart Hospital Association and Treasurer of the Variety Clubs International, made the official presentation.

Mr. Podoloff said that the idea for such a coach came out of a search for one project that could be adopted by Variety Clubs throughout the world.

"Now," he continued, "over two hundred such wonderful coaches provide transportation for kids in wheelchairs, on crutches, in braces—kids who are unable to get around."

Mr. John H. Westerman, Director-elect of University of Minnesota Hospitals, and Dr. Robert B. Howard, Dean of the College of Medical Sciences, accepted the coach for the University.

"Variety Club members have exemplified 'you've gotta have heart,'" said Dr. Howard. "They've had it and our patients have profited from it."

The custom-designed coach has room for twenty-two passengers. It is specially equipped with an extra-wide side door with an automatic hydraulic lift for wheel chairs, an intercom system, air-conditioning, adjustable seats, safety glass, and belts throughout.

Now the "Sunshine Coach" will take patients at the University's Variety Club Heart Hospital, Masonic Memorial Hospital, Division of Child Psychiatry, and Children's Rehabilitation Center out for fun, fresh air, and sunshine. Supervising the coach's use is Dr. Frederic J. Kottke, Head of the Department of Physical Medicine and Rehabilitation.

Many trips are now being planned for the patients, many of whom have had little chance to enjoy the outdoors. The "Sunshine Coach" will take them to many places, including circuses, parks, ball games, workshops, and clinics.



ach



Upper left, Dr. Frederic J. Kottke, Head of the Department of Physical Medicine and Rehabilitation, uses the automatic hydraulic lift to assist a young patient into the Sunshine Coach. Watching the procedure are Mr. Joseph Podoloff, President of the Variety Club Heart Hospital Association, Mr. John H. Westerman, Director-elect of University Hospitals, and Dr. Robert B. Howard, Dean of the College of Medical Sciences.

Lower left, the Variety Club Sunshine Coach is ready for its first trip.

Right, University Hospitals nurses Mrs. Lois E. Cary, left, and Miss Ann L. Feigal bring children out for a ride in the Sunshine Coach.



In the Lazan Library, Professor Robert Plunkett, left, and Associate Professor Daniel D. Joseph look over the page proofs for the late Professor Benjamin J. Lazan's book, DAMPING OF MATERIALS AND MEMBERS IN STRUCTURAL MECHANICS, which will soon be published by Pergamon Press, Ltd.

Lazan Library Named for Founder

A collection of valuable technical books now bears the name of the late Dr. Benjamin J. Lazan, Professor and Head of the Department of Aeronautics and Engineering Mechanics.

The Benjamin J. Lazan Memorial Library contains about 1,500 volumes; many of these are from Professor Lazan's personal library. It is officially a collection of books located in 107 Aeronautical Engineering, a room which serves the dual purpose of library and faculty conference room. Intended primarily for use by the department, it is under the direction of Dr. Daniel D. Joseph, Associate Professor of Aeronautics and Engineering Mechanics.

The University recently dedicated the Library at an informal ceremony, which was attended by Mrs. Lazan, Acting Dean Frank Verbrugge of the Institute of Technology, faculty colleagues, and friends.

The inscription on the bronze plaque

in the Library serves as a reminder of Dr. Lazan, the man who made its facilities a reality. A specialist on the properties of various materials, Professor Lazan received many honors for his research in the behavior of materials and structures under dynamic forces.

Under Professor Lazan's leadership, the department began to build the collection. Gradually it grew as books were purchased by department funds or contributed by individual staff members.

Professor Robert A. Plunkett of the Department of Aeronautics and Engineering Mechanics stated that one of the principal difficulties in building a useful technical library is that of choosing the most meaningful from the thousands of books available.

He observed, "The Lazan collection, which forms the nucleus of the Library, is particularly useful and valuable because it consists of those books which Professor Lazan chose for his own personal library."

Staff Members Give Generously to Fund Appeals

University of Minnesota staff members responded generously to the appeals made by volunteer workers in the local fund drives this fall.

Directing the Consolidated Fund Drive on the Minneapolis Campus were Mr. Alfred H. Cheese, Chief Accountant in the Business Office, and Dr. Gordon M. A. Mork, Professor and Director of Student Teaching. Assisting them were 40 captains and co-captains and 600 solicitors.

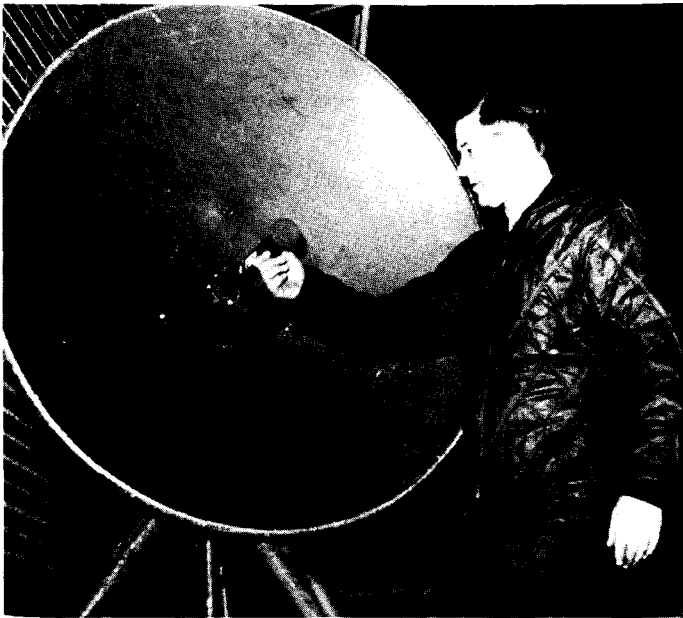
Among the 22 sections which gave more than 100 percent of their quotas was a newcomer, Biological Sciences, which collected 155.23 percent of its goal.

From the grand total of \$117,957.39, \$87,039.29 went to the United Fund of Hennepin County, \$16,966.77 went to the American Cancer Society, and \$13,959.33 went to the Minnesota Heart Association.

Staff members from departments on the St. Paul Campus and the North Central Forest Experiment Station collected \$18,925.95 or 110 percent of their quota. This money went to support the Ramsey County United Fund. Working with the St. Paul fund drive were Chairman Carl H. Reidel, Instructor in the School of Forestry, Assistant Chairman Wayne H. Hanson, Associate Professor and District Supervisor of County Extension Work, and about 40 volunteer solicitors.

The Duluth Campus contributed \$7,546.80 to the 41 agencies supported by the United Fund of Duluth. Handling the details of this year's United Fund Drive on the Duluth Campus were Mr. Robert W. Bridges, Business Manager, and Mrs. Lois N. Salo, Senior Account Clerk, in the Business Office.

Coordinating the local Allied Independent Drive on the Morris Campus was Mr. Richard J. Welsh, University Relations Representative. He reported a total of \$717.50 collected, with a 45 percent increase in individual contributions this year.



Checking the microwave equipment on the roof of Northrop Auditorium is KTCA-TV Engineer Everette Lindgren.



A New View of Commencement

Something new was added to University Commencement Exercises this December. For the first time, the entire event was televised live from Northrop Memorial Auditorium.

Microwave equipment, specially installed on the roof of Northrop Auditorium for the event, relayed the proceedings back to the KTCA-TV tower. This tower, in turn, brought the Commencement to television sets all over the Twin Cities area.

With a graduating class of nearly 1300 students, space for guests in Northrop Auditorium was very limited. However, relatives and friends of the graduates who were unable to secure guest tickets could watch the Commencement on television either at home or at specially designated viewing stations in the outer foyer of Northrop Auditorium and in the Coffman Union lounges.

January, 1967

Cameraman Carl Dixon, left, and Assistant Director of KTCA-TV Special Projects Larry T. Morrisette plan camera procedures for the televising of the December Commencement.

KTCA-TV Audio Engineer Arthur Johnson, right, and Mr. Leland H. Bauck, Senior Engineer in the Audio-Visual Education Service, test one of the microphones.





RECENT STAFF PUBLICATIONS

Dr. William F. Brown Jr., Professor of Electrical Engineering, *Magneto-elastic Interactions*, Springer-Verlag Publishing Company.

Dr. Bryng Bryngelson, Professor Emeritus of Speech and Pediatrics, *Clinical Group Therapy for Problem People*, T. S. Denison and Company, Inc.

Dr. Carlos P. Diaz, Associate Professor of Economics, *Exchange-Rate Devaluation in a Semi-Industrialized Country: The Experience of Argentina*, Massachusetts Institute of Technology Press.

Dr. Donald M. Gillmor, Associate Professor of Journalism and Mass Communication, *Free Press and Fair Trial*, Public Affairs Press.

Dr. Donald V. Harper, Professor of Management, Production, and Transportation, *Price Policy and Procedure*, Harcourt, Brace and World, Inc.

Dr. Walter W. Heller, Professor of Economics, *New Dimensions of Political Economy*, Harvard University Press.

Dr. George L. Perry, Associate Professor of Economics, *Unemployment, Money, Wage Rates, and Inflation*, Massachusetts Institute of Technology Press.

Dr. A. William Plumstead, Assistant Professor of English, co-editor and general editor, *The Journals and Miscellaneous Notebooks of Ralph Waldo Emerson, Volume 6*, Harvard University Press. Chief editor is Dr. William H. Gilman, Burrows Professor of English, University of Rochester.

Dr. Jacob Schmookler, Professor of Economics, *Invention and Economic Growth*, Harvard University Press.

Dr. Albert K. Wickesberg, Professor of Management, *Management Organization*, Appleton-Century-Crofts Division, Meredith Publishing Company.

Dr. E. G. Williamson, Dean of Students and Professor of Psychology, and Mr. John L. Cowan, Instructor in the Student Counseling Bureau, *The American Student's Freedom of Expression: A Research Appraisal*, University of Minnesota Press.

Officials Open Bridge

Taking a stroll across the new bridge to informally recognize its completion are, left to right, Associate Dean for Social Sciences Fred E. Lukermann, Vice President for Academic Administration William G. Shepherd, Assistant Vice President for Business Administration Roy V. Lund, President O. Meredith Wilson, Acting Dean of the School of Business Administration George Seltzer, and Assistant to the President Elmer Learn.

The glass-enclosed walkway, which is part of the new Washington Avenue

Bridge, recently opened — just in time to greet the cold weather.

University staff and students, who used to shudder at the prospect of facing the icy winter walk from west to east bank, now can hike to offices and classes in comfort.

However, there is more to come. Steam lines, which will heat the area to about 35 degrees, will soon be installed in the ceiling. Plans are being considered for ticket booths, art exhibits, bookstores, and other shops to be located on the 1,200-foot walkway.

"The student and the professor must live in an atmosphere where questioning is encouraged, where every alternative can be explored, where their free minds may be allowed to test the validity of each idea, and where they feel free to follow wherever truth may lead. Such a free atmosphere is not merely necessary to university freedom; it is also the way of life which we have a right to associate with America. To ask that the right of the University to this freedom be respected is not to ask for special privilege, but rather to ask for the opportunity to demonstrate the efficiency of the freedom in which we all believe and for which so many brave Americans have died. The most American activity of them all is to think, to speak, and to inquire freely. The un-American activity is to deny such freedom."

This quotation is taken from the statement on academic freedom, "Freedom and the University," issued by the University of Minnesota Board of Regents in 1963. Staff members wishing copies of this statement may obtain them at the Office of University Relations, 217 Morrill Hall.

University of Minnesota Calendar of Events

January 1-15, 1967

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts
Stanislaw Skrowaczewski, Musical Director
Northrop Auditorium, 8:30 p.m.
 Friday, January 6 — Aaron Copland, guest conductor (Tickets \$2.75-\$5.00)
 Friday, January 13 — Charles Munch, guest conductor (Tickets \$2.75-\$5.00)

Sunday Afternoon Concert
Northrop Auditorium, 4:00 p.m.
 Sunday, January 8 — Viennese and "Merry Widow" (Tickets \$2.00-\$4.00)

UNIVERSITY ARTISTS COURSE
Masterpiece Series
Northrop Auditorium, 8:30 p.m.
 Wednesday, January 11 — William Warfield, bass-baritone* (Tickets \$2.00-\$4.00)

Special Concert
Northrop Auditorium, 8:30 p.m.
 Saturday, January 14 — We Five, Greek Week Benefit* (Tickets \$2.00-\$4.00)

ART EXHIBITIONS

University Gallery
Northrop Memorial Auditorium
Sunday, 2:00-5:00 p.m.
Monday through Friday
8:30 a.m.-4:00 p.m.
 Through January — Selections from the University Gallery Collections

St. Paul Student Center Galleries
Sunday, 12:00 noon-11:00 p.m.
Monday through Thursday
7:30 a.m.-11:00 p.m.
Friday and Saturday
7:30 a.m.-12:00 a.m.
 Through Sunday, January 15 — Eastman Kodak exhibit of 27th Annual Newspaper National Snapshot Awards, first floor

MUSIC DEPARTMENT PRODUCTIONS

(Open to the public without charge)
 Saturday, January 7, 8:30 p.m. — All-Star Band and Concert Ensemble, Northrop Auditorium
 Sunday, January 15, 8:00 p.m. — Philip Brunelle, percussionist, Scott Hall Auditorium

UNIVERSITY FILM SOCIETY

Shown at the Museum of Natural History Auditorium
Tickets \$0.75-\$1.00, varying with film
 Friday, January 6 — *Winter Kept Us Warm* (Canada, 1965)
 Friday, January 13 — *Children of Paradise* (France, 1944)

MINNESOTA MUSEUM OF NATURAL HISTORY

Sunday Programs

Museum Auditorium, 3:00 p.m.
(Open to the public without charge)
 Sunday, January 8 — "Research Efforts to Halt the Decline of Alaskan Salmon," with Dr. Charles W. Huver, Associate Professor, Zoology Department; Curator of Fishes, Minnesota Museum of Natural History
 Sunday, January 15 — "Geologic History of Great Salt Lake, Utah," with Dr. Robert C. Bright, Curator of Pleistocene Paleontology, Minnesota Museum of Natural History

ATHLETIC DEPARTMENT EVENTS

Home Basketball Games

Williams Arena

Tuesday, January 3, 8:00 p.m. — Loyola University
 Saturday, January 7, 3:05 p.m. — Ohio State University
 Saturday, January 14, 8:00 p.m. — Purdue University
 (Reserved seats \$2.00; General admission \$1.50. Over-the-counter sale opens Monday before each game at Cooke Hall, Downtown Ticket Office, 158 Cargill Building, Minneapolis, and Field Schlick's, St. Paul)

Home Hockey Games

Williams Arena, 8:00 p.m.

Friday and Saturday, January 6 and 7 — University of North Dakota (Reserved seats \$2.00; General admission \$1.50. Over-the-counter sale opens Monday before each game at Cooke Hall, Downtown Ticket Office, 158 Cargill Building, Minneapolis, and Field Schlick's, St. Paul)

Home Swimming Meets

Cooke Hall

Friday, January 6, 7:30 p.m. — Ohio State University
 Saturday, January 7 — Big Ten Relays: Diving, 12:00 noon; Swimming, 1:00 p.m. (Reserved seats on sale at Cooke Hall the week of the game — \$1.50; General admission on sale at gate only — \$1.00)

Home Gymnastics Meet

Cooke Hall, 1:30 p.m.
 Saturday, January 7 — Michigan State University (General admission \$1.00, sold at gate only)

SIGNIFICANT UNIVERSITY BROADCASTS

A Service of the General Extension Division

Radio

KUOM, 770 on the dial
 Mondays, Wednesdays, and Fridays, 11:00 a.m. — "Conservation of Natural Resources," classroom lecture series by Forestry Instructor Carl H. Reidel
 Wednesdays, 2:30-3:55 p.m. — "The Afternoon Concert," featuring Ross Lee Finney, American composer
 Thursdays, 4:00-4:30 p.m. — "About Science," discussion series by Dr. Albert Hibbs, Dr. Robert Meghreblian, and Dr. Peter Lissaman from the California Institute of Technology
 Saturdays, 12:00 noon-12:15 p.m. — "Rural America: Change and Challenge," series from Kansas State University

University Television Hour

Channel 2, KTCA-TV

Mondays, 9:30 p.m. — "Folio," with Arnold W. Walker of the Department of Radio and Television
 Tuesdays and Thursdays, 10:00 p.m. — "Skiing," with Cyrus F. Smythe, Associate Professor of Industrial Relations
 Wednesdays, 9:00 p.m. — "To Make Meaning," with Professor Gerhard Neubeck, Chairman of the Family Studies Program and Director of the Marriage Counseling Program
 Thursdays, 9:30 p.m. — "Town and Country," with Ray Wolfe, Associate Professor in the Institute of Agriculture
 Fridays, 9:00 p.m. — "The Art of Teaching," with George Shapiro, Associate Professor of Speech and Theatre Arts

Television College

Channel 2, KTCA-TV

Tuesdays and Thursdays, 10:00 p.m. — "General Psychology 2," with Professor David LaBerge of the Department of Psychology
 Wednesdays and Fridays, 9:30 p.m. — "English 56: Shakespeare," with Professor Sarah Youngblood of the Department of English

* Reservations may be made at 105 Northrop Memorial Auditorium.
 Tickets for these events are also available at Dayton's (all stores) on Monday of the week prior to performance.

University of Minnesota Calendar of Events

January 16-31, 1967

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts

Stanislaw Skrowaczewski, Musical Director
Northrop Auditorium, 8:30 p.m.

Friday, January 20 — Thomas Schippers, guest conductor; Leonard Rose, violinist (Tickets \$2.75-\$5.00)

Friday, January 27 — Ida Haendel, violinist; Hermann Herz, guest conductor (Tickets \$2.75-\$5.00)

Sunday Afternoon Concert

Northrop Auditorium, 4:00 p.m.

Sunday, January 29 — Laurindo Almeida, guitarist (Tickets \$2.00-\$4.00)

UNIVERSITY ARTISTS COURSE

Masterpiece Series

Northrop Auditorium, 8:30 p.m.

Saturday, January 21 — Ruth Page's International Ballet* (Tickets \$2.00-\$4.50)

ART EXHIBITIONS

University Gallery

Northrop Memorial Auditorium

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

Monday through Friday

8:30 a.m.-4:00 p.m.

Through January — Selections from the University Gallery Collections

St. Paul

Student Center Galleries

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

Monday through Thursday

7:30 a.m.-11:00 p.m.

Friday and Saturday

7:30 a.m.-12:00 a.m.

Monday, January 16, through Saturday, February 4 — James Kielkops, drawings from the *Apocalypse* sketchbook, first floor

MINNESOTA MUSEUM OF NATURAL HISTORY

Sunday Programs

Museum Auditorium, 3:00 p.m.

(Open to the public without charge)

Sunday, January 22 — "Cedar Creek Wildlife," with Mr. Alan Sargeant, Biologist, U.S. Fish and Wildlife Service and Minnesota Museum of Natural History

Sunday, January 29 — Slides from the International Color Photo Salon, sponsored by the Twin City Council of Camera Clubs

UNIVERSITY THEATRE PRODUCTIONS

Classic Series

Shevlin Hall Arena

Tickets \$2.00

Tuesday, January 24, through Saturday, January 28, 8:00 p.m.; Friday, January 27, and Sunday, January 29, 3:30 p.m. — *Ladies Day* by Aristophanes

UNIVERSITY FILM SOCIETY

Shown at the Museum of Natural History Auditorium

Tickets \$.75-\$1.00, varying with film

Friday, January 20 — *Memorandum* (Canada, 1966) and *Koumiko Mystery* (France, 1965)

Friday, January 27 — *Cat in the Bag* (Canada, 1965)

MUSIC DEPARTMENT PRODUCTIONS

(Open to the public without charge)

Thursday, January 19, 8:30 p.m. — Ona Morton, clarinetist, Scott Hall Auditorium

Sunday, January 29, 8:00 p.m. — Student-Faculty Chamber Recital, Mayo Auditorium

ATHLETIC DEPARTMENT EVENTS

Home Hockey Games

Williams Arena, 8:00 p.m.

Friday and Saturday, January 20 and 21 — UMD

Friday and Saturday, January 27 and 28 — Michigan Tech

(Reserved seats \$2.00; General admission \$1.50. Over-the-counter sale opens Monday before each game at Cooke Hall, Downtown Ticket Office, 158 Cargill Building, Minneapolis, and Field Schlick's, St. Paul)

Home Track Meet

Field House, 1:00 p.m.

Saturday, January 28 — Iowa State University (General admission \$1.00, sold at gate only)

Home Wrestling Meets

Williams Arena, 2:00 p.m.

Saturday, January 21 — University of North Dakota

Saturday, January 28 — University of Michigan (General admission \$1.00, sold at gate only)

Home Swimming Meets

Cooke Hall

Saturday, January 21, 2:00 p.m. — Iowa State University

Saturday, January 28, 4:00 p.m. — Northwestern (Reserved seats on sale at Cooke Hall the week of the game — \$1.50; General admission at gate only — \$1.00)

SIGNIFICANT UNIVERSITY BROADCASTS

A Service of the General Extension Division

University Television Hour

Channel 2, KTCA-TV

Mondays, 9:00 p.m. (Begins January 23)

— "Going to College," with Professor Leonard Bart of the Department of Speech and Theatre Arts

* Reservations may be made at 105 Northrop Memorial Auditorium.

Tickets for these events are also available at Dayton's (all stores) on Monday of the week prior to performance.

THE MINNESOTAN

Department of University Relations

217 Morrill Hall

University of Minnesota

Minneapolis, Minnesota 55455

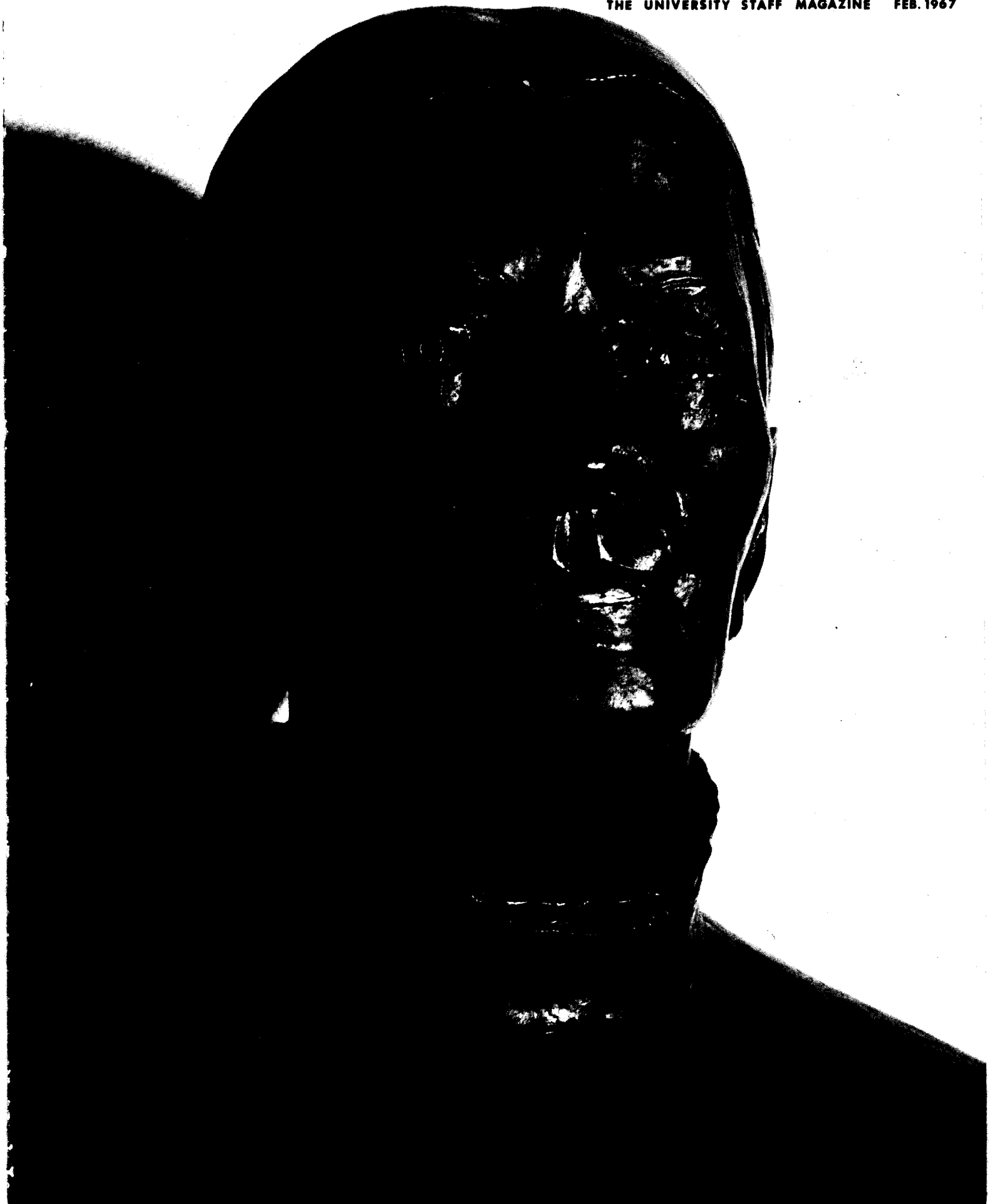
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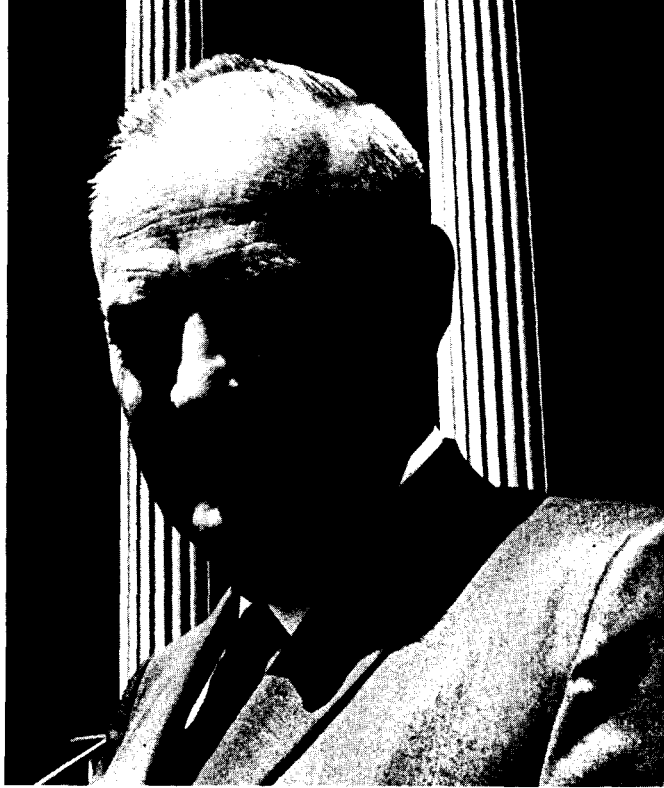
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THE UNIVERSITY STAFF MAGAZINE FEB. 1967





The President's Page

The American Council on Education's rating of graduate schools, *An Assessment of Quality in Graduate Education* by Allan Cartter, is for the University of Minnesota both an endorsement and a warning. The report pays many tributes to the University of Minnesota. Rated by scholars in 28 disciplines as fifth in the nation among public institutions and twelfth among comprehensive universities, the University community may take special pride in the laurels accorded more than a half dozen of its departments.

Minnesota has been wise in concentrating its graduate support in one graduate facility. That Minnesota's university ranks fifth when the state is 26th in per capita income reflects a willingness to commit a large portion of its resources to higher education as well as wise management of the resources made available. Only one of the top 25 universities staffs its faculty more economically and there is no institution with a rating above Minnesota that expends fewer dollars educating the individual student. Minnesotans are getting a bargain in graduate education.

Pride in economical operation must not obscure the University's more important objectives of high quality teaching, research, and service. There are inherent dangers in dollar efficiency. To say that the University of Minnesota staffs economically is also to say that its level of faculty compensation is 24th among the top 25 universities, and next to last in the Big Ten. At a time when the Cartter report has increased the visibility of our excellence and when newly-emerging centers of scholarship are tempting our most qualified faculty by combining very attractive salaries with stimulating work assignments, there is a new urgency for salary comparability. To our continuing con-

cern that loyal faculty earn a just compensation must be added the real threat that top-notch faculty will leave the University and the state will be left without one of its richest and most productive resources.

Minnesota's rather unique low salary and high stature situation, coupled with the observation that 76% of the variations in Cartter ratings are associated with salary differentials, should cause every member of the academic community to reflect upon the long-term viability of our position.

Another aspect of the Cartter report that deserves reflection is the location of our strengths and weaknesses. The University ranked higher than 15th in four of six departments in the social scientific disciplines, in six of twelve sciences, and in two of the four engineering fields rated. But in the humanities, only one of the six departments ranked above 15th. Although the fact that many pockets of strength known to us here at the University went unrecognized by the Cartter report suggests the danger of resting all judgments upon ratings of this type, the A.C.E. study should alert us to the possibility of an imbalance. It also suggests that, while fostering our areas of recognized excellence, we need to find new ways to strengthen the not-so-strong areas, especially in the humanities.

The A.C.E. study indicates that ours is a stately mansion with several small cracks in the plaster. It is our responsibility to insure that sufficient resources are made available and managed so that the cracks may be mended and the stately mansion may be strengthened.

Meredith Wilson

On the cover . . .

is the bronze bust of Maria L. Sanford, which occupies a place of distinction in Sanford Hall, the University women's residence which bears her name.

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MARIA L. SANFORD: STURDY AND RESILIENT PURITAN, WHOSE PERCEPTIVE MIND AND REVERENCE FOR CLASSIC TRUTH AND BEAUTY QUICKENED INTELLECTUAL LIFE WITHIN THE PIONEER STATE OF MINNESOTA AND BEYOND ITS FRONTIERS. EDUCATOR, ORATOR, CIVIC LEADER, THE BEST-KNOWN AND BEST-LOVED WOMAN IN MINNESOTA.

Though the famous woman educator, Maria L. Sanford, has been dead for more than four decades, she will long be remembered for her generous humanity, her uncompromising idealism, and an austerity of character which lent her dignity and strength throughout her lifetime.

It was in New England—in Saybrook, Connecticut—that Maria Sanford was born on December 19, 1836. In that climate of stern and self-reliant Puritanism her early character was shaped.

Graduating with honors from New Britain Normal School at the age of 19, Miss Sanford began her teaching career in several small-town schoolhouses. In 1869, she was engaged as an instructor of history of literature at the newly established Swarthmore College in Pennsylvania. The following year, she was made professor of history—one of the first woman professors in the United States.

She had already assumed the style of dress which was to become almost a legend. She wore plain black gowns, with long sleeves and high-necked collars edged with immaculate white. Loosely fitted, simply buttoned, her costumes allowed the fullest freedom—for Maria Sanford strode rather than walked.

Miss Sanford resigned her position at Swarthmore in 1879 and embarked upon the most productive period of her life. For a year after leaving Swarthmore, she busied herself lecturing, for her true *métier* was public address. In the summer of 1880, William Watts Folwell, the University of Minnesota's first president, went East to secure additional faculty members for the growing young "western" institution. He met Miss Sanford and a half hour's conversation with her convinced him that he wanted her on his faculty. President Folwell later said, "The greatest thing I ever did for the University was to bring Maria Sanford here."

When Miss Sanford came to the University, it was housed in one building, Old Main, with a faculty of 18 and a student body of 300. She came when the University was still small and gave the best part of a long life to it.

She entered upon her duties with such energy and enthusiasm that her classes were soon large. She gave her time, interest, and encouragement from early morning until late at night. Beginning as an assistant professor of rhetoric and elocution—the only woman of that rank on the faculty, she became a full professor in her second year at the University.

In addition to her teaching, Maria Sanford was constantly in demand for lectures. Sometimes she lectured four or five nights a week during the winter, traveling from 50 to 100 miles. Yet she never missed a class at the University.

When she lectured for the Liberty Bond drives in the Far West, she always rode the day coach; it saved money, she said, and besides, she would not have been able to sleep in the luxury of a Pullman "while so many of our boys were in the trenches."

Throughout her teaching career at the University, Miss Sanford possessed only her normal school graduation certificate. However, in June, 1917, Carleton College presented her with the honorary degree of Doctor of Humane Letters. Miss Sanford was no longer in the curious position of a college professor without a degree.

The highlight of Maria Sanford's academic career came in June, 1909, her last year as a faculty member, when

she was asked to deliver the commencement address at the University. It was the first time that a woman had been asked to deliver a commencement address at a major university. Deeply complimented, she delivered one of her best and most characteristic orations. The following are a few of the memorable words she spoke at this occasion:

"It is not some special genius conferred upon the few, but the wise use of the gifts common to all, that makes life rich and valuable . . .

"The moral of this for the University is plain. It may, it can, it should, give to the youth of this State this awakening impulse; breathe into them this breath of life; rouse them not to mere physical courage, but to the courage of high conviction; give to them aims, ambitions, purposes, which shall transform, transfigure their whole lives."

After her retirement from the University, Miss Sanford was often described as a retired woman who did not know she was retired. She threw herself into patriotic work as America entered World War I, though she was 80 years old.

Early in the spring of 1920, she was invited to attend the national convention of the Daughters of the American Revolution in Washington, D. C. At the opening session, Miss Sanford presented a rousing patriotic poem she had written, "Apostrophe to the Flag." As she approached the stand, the audience saw a little, frail old lady of 83. They expected to hear a small, weak voice, but as her first words rang out, the great audience was hushed to attention. Her famous voice retained all of its compelling beauty and its penetrating power. At the close of this address, she was given a prolonged ovation.

The next day she attended the convention briefly, then a luncheon in her honor. The following morning, Wednesday, April 21, 1920, her hosts found that Maria Sanford had passed away peacefully in her sleep. Her death was mourned throughout the nation.

Perhaps the best memorial to Maria Sanford is her spirit which will live long after her in the minds of those who knew her and have heard about her. The next best memorial is her statue, displayed in the hall connecting the Senate Chamber with the Rotunda in the United States Capitol Building in Washington, D. C. Inscribed on this statue is the tribute which heads this page.

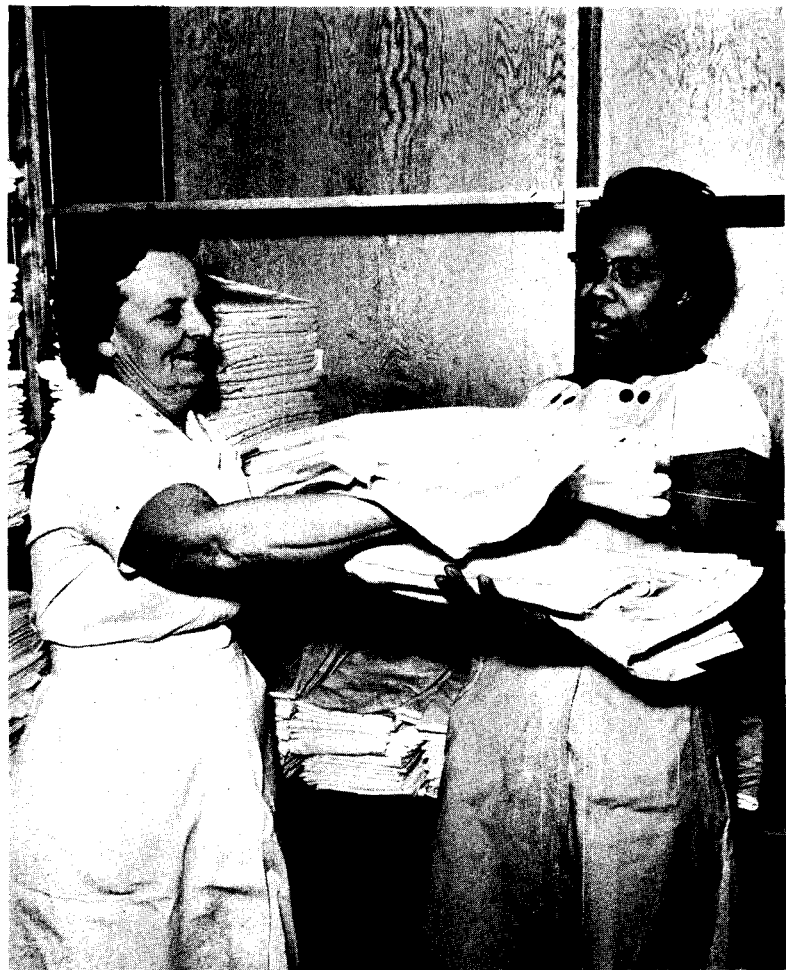
Much of the material in this article came from the speech given by former University of Minnesota President James Lewis Morrill at the dedication of the Maria L. Sanford statue in the United States Capitol Building, November 12, 1958.



Staff Members Set the Scene at Sanford Hall

On the scene at University residence halls are staff members who do everything from cooking to interior decorating. On these pages are pictured some of those who helped to make Sanford Hall, the oldest women's residence, a "home away from home" for the students.

A nine-story addition to Sanford Hall opened its doors this fall. Among the features of the new tower are a kitchenette and lounge on each floor, fully carpeted rooms, walk-in closets, and elevator service.



Far left, Plant Services workers complete the Sanford Hall recreation room decor. Engineering Assistant Susan Graffunder watches University Painters Erick Larson, left, and Robert S. Pearson separate sections of travel posters.

Left, General Mechanic Marvin Dahl unpacks a new lamp for one of the Sanford Hall lounges.

Lower left, Mrs. Alice Schellbach, Housekeeper, supplies fresh linens to Mrs. Adline Miller, Custodial Worker.

Right, Mrs. Alice Gafkjen, Senior Food Service Worker, left, and Miss Louise Eng, Cook, finish a special treat, strawberry parfait pie, in the Sanford Hall pastry kitchen.

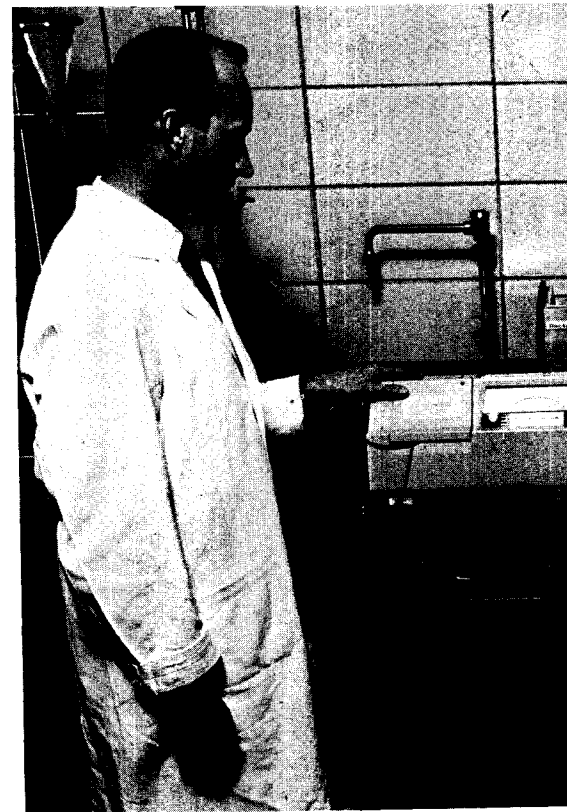
Lower right, Senior Food Service Workers Mrs. Austrid Edstrom, left, and Mrs. Alice Nelson finish fixing the salad.

Center, Mrs. Therese Zertuche, Food Service Worker; Mrs. Ruth C. Wirth, Food Service Manager; Mrs. Agnes L. Selke, Senior Food Service Worker; and Mrs. Helga Vetsch, Assistant Cook, cut and weigh steaks for dinner.

Below, Mrs. Sydney MacDonald, Sanford Hall Director, and Miss Betty L. Schriver, Head Counselor, stop for a chat by the Sanford Hall mailboxes.



Upper right, pipetting bacteriophage, parasites of bacteria which cause problems in cheese-making, is Research Assistant Yeterian Massis. Lower left, Dairy Product Supervisor Francis J. Cobian takes lowfat Swiss cheeses from the cheese press.



Science Steps into the Food Business

Food has always been vitally important to man. Now the needs of an exploding population are challenging him to make better use of food supplies and sources than ever before.

Aiding him is a relatively new science, food technology. Through the application of modern science and engineering, he is developing new improved food products and processes.

Food processing is an important business in Minnesota, as well as in the world. Dairy and poultry products, processed fruits and vegetables, and confections are some of the food items which add \$600,000,000 annually to the state's economy.

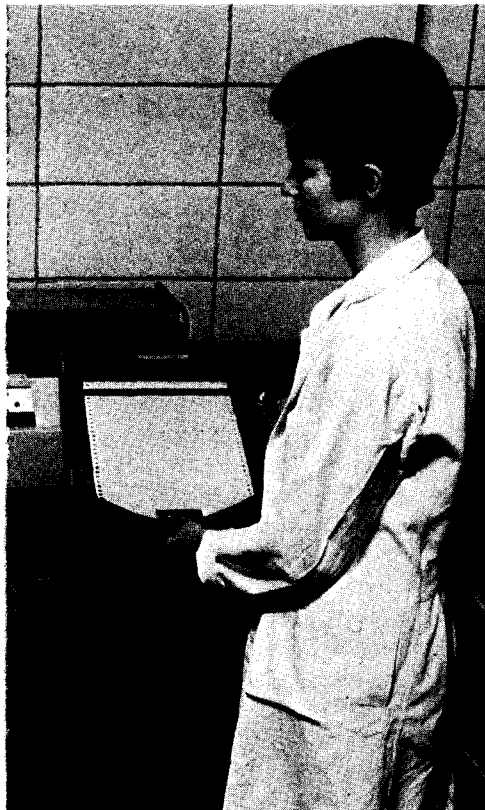
Yet in the past, much of Minnesota's agricultural produce has gone out of the state as raw material to be processed elsewhere. By making it possible for more of this produce to be processed here in Minnesota, the food industry can create more jobs and contribute an even greater boost to the state's income.

Other programs in food processing were carried out in such departments as Dairy Industries, Biochemistry, Animal Husbandry, Poultry Husbandry, and Horticulture.

The University of Minnesota's interest and involvement in food research is not new. In 1937, it began an inter-departmental program in food technology, which offered courses on both the graduate and undergraduate levels. This program was discontinued in 1960 because of a lack of student interest.

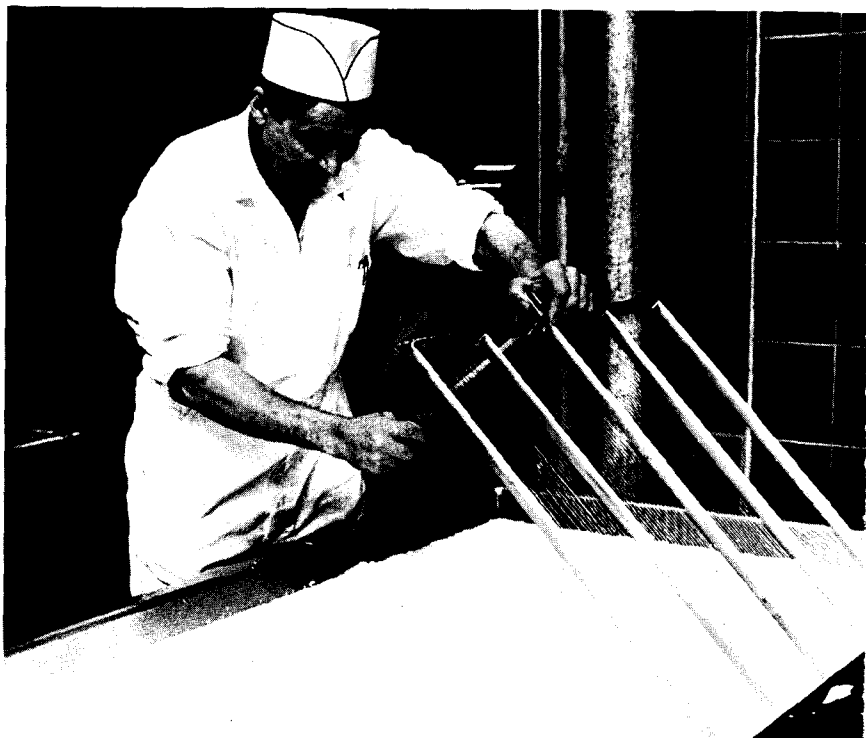
Now the University is attempting to consolidate the food processing work into one unit, the newly-established Department of Food Sciences and Industries. Through this merging of efforts, it hopes to do better, more efficient jobs of teaching and research in food technology and better serve the needs of the food industry in Minnesota.

Lower left, measuring protein fractions in milk are Associate Professor Charles V. Morr and Junior Scientist Maryann Eliason. Lower right, Professor James J. Jezeski, left, and Research Assistant Sita R. Tatini study a prepared slide for possible traces of enterotoxin, a substance which causes food poisoning in custards.



Food Science

Left, Professor Samuel T. Coulter, left, observes Assistant Professor William M. Breene determine the head-space gas in nitrogen-packed, spray-dried pumpkin. Below, harping the curds for a new lowfat Swiss cheese is Principal Laboratory Technician Adolph R. Miller.



The University is not a pioneer in making such a move. In the past ten years, there has been a growing trend in colleges throughout the country to consolidate all work with food processing into one department.

"Products themselves are not our chief goals," said Professor Samuel T. Coulter, Chairman of the Department. Rather the Department of Food Sciences and Industries is functionally oriented, attempting to pinpoint and solve food industry problems through thoughtful application of scientific, engineering, and business principles.

Dr. Coulter stated that the operation of the new Department would make more economical and efficient use of the expensive equipment which is necessary in food technology.

"Most foods require similar types of processing — heat transfer, pasteurization, homogenization, freezing, mixing, canning. All use the same basic principles which are based on the chemical and physical properties of food; all pose similar engineering and processing problems," he said.

Food science research will attempt to anticipate problems, as well as provide new possibilities for the food industry.

Through studies of poisoning agents in such foods as

dry milk, cheese, and custards, the Department has developed means of controlling the harmful microorganisms. Among those working on such control measures is microbiologist, Professor James J. Jezeski. Curbing the power of these tiny trouble-makers increases the shelf life of certain food products. More important, these studies help to develop public health knowledge which the food industry can use to regulate its processes so that its products are safe.

Working together to develop new techniques of spray drying vegetables and fruits with powdered skim milk are Professor Coulter and Assistant Professor William M. Breene. In testing, they have found new methods to promote good flavor retention and storage stability.

Research has also attacked problems involved in making low-fat cheese, which tends to lack flavor and have a hard, tough texture. Altering the treatment of milk used in cheese-making and also the timing of the process itself has resulted in softer cheese with better flavor.

Among those working with milk marketing, pricing, and sanitation studies has been bacteriologist, Professor Joseph C. Olson, Jr.

(continued on page 10)



Mr. Lauren E. Ekroth, Instructor of Speech, Communication, and Theatre Arts, responds enthusiastically to questioning from the audience following his discussion of art as a means of communication.

Each year, many groups of people interested in furthering their education come to the Nolte Center for Continuing Education for a variety of courses, conferences, and institutes. Among those returning to the classroom recently was a group of dentists and their wives who took a short course in "Perception in the Arts."

Mr. Frederick E. Berger, Director of the General Extension Division's Department of Conferences and Institutes, said that this is a rather unusual type of program for the Center.

"We tend to offer 'bread and butter' courses which have almost direct relevance to the work of those who attend," he explained. "However, occasionally we have the pleasure of studying such a topic as 'Perception in the Arts.'"

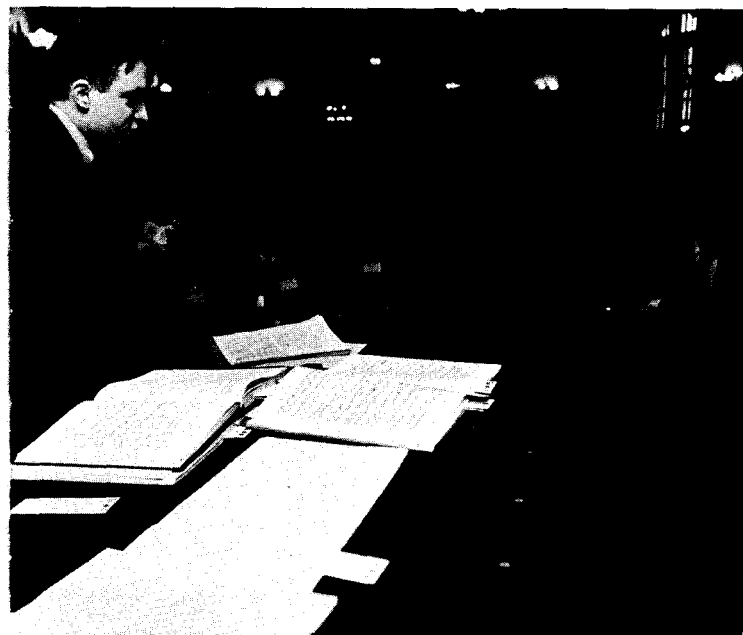
Plans for the institute came from popular request. Working together with Mr. Berger to handle the details was Dr. Mellor R. Holland, Assistant Dean of the School of Dentistry.

Dr. Holland said that this program is part of the new approach to dental education at the University. While maintaining its high standards of academic performance, the School of Dentistry is trying to present more opportunities and experience in the humanities to its students in both pre-professional and professional levels of training. In this way, it hopes to place greater emphasis on the role of its graduates as contributing citizens in the community, as well as in the profession itself.

The program was planned to scan the arts in general, centering on the importance of art as a means of communication.

Opening the day, Mr. Lauren E. Ekroth, Instructor of Speech, Communication, and Theatre Arts, stressed the

Nolte Center Offers Dentists Short Course in the Arts



difference between art and conversation as means of communication. He indicated that people often fail to understand art because they seek "verbal labels" or "verbal expressions" rather than an understanding on art's own terms.

Later the group gathered about the piano to hear Dr. Burton Dudding, Resident Pediatrician at University Hospitals, discuss music from the Baroque era. He emphasized the Baroque contributions to musical change and the relationship of this period to the entire realm of music history.

Featured speaker in the afternoon was Mr. Michael Church, Assistant Director of Cultural Activities in the University of Michigan Extension Division. He opened with a lively presentation of how newlyweds might go about purchasing their first picture and then presented a discussion on "Living in a Fourth Dimension."

◆ *Presenting Baroque music to the dentists and their wives is Dr. Burton Dudding, Resident Pediatrician in University Hospitals.*

U of M Week Features Speakers, Exhibits

Minnesotans will have a chance to get better acquainted with the University during University of Minnesota Week, which will be observed from February 19 through February 25.

University departments and staff members are volunteering their efforts to help focus public attention on University activities and programs.

In windows, on counters, walls, and floors in banks, department stores, shopping centers, and other business establishments throughout the Twin Cities, suburban areas, Morris, and Duluth, exhibits will display various facets of University life.

Planned exhibits include everything from works of art and mechanical models to connecting panels which describe the work of a particular department.

Also on display will be colorful maroon and gold "U of M Week" posters. These posters have been designed by University Artist Lawrence H. Catron.

More than one hundred civic groups in the State, most of them in the metropolitan area, have been offered University speakers for their February meet-

ings. Fulfilling these speaking engagements will be over fifty staff members, who have volunteered to present such topics as educational television, drugs, problems of the aged, United States foreign policy, nursing education, and nuclear medicine.

All these activities are designed to mark the 116th anniversary of the University in ways that will make its wide range of teaching, research, and service efforts more meaningful to the people of Minnesota.

Food Science

(continued from page 8)

Directly involved in bringing ideas from the classrooms and laboratories to farmers, industries, and others interested in food technology is Associate Professor Vernal S. Packard, Jr., extension specialist in dairy products. Results of departmental studies go out to the public in several ways.

Of course, the public benefits directly from the improved food processing methods and food products developed in such research. In addition, those working and studying in the Department will be better trained to meet the challenges of food technology occupations. For those interested in specific, technical information about recent research developments, there are short courses, pamphlets, and articles in scientific journals.

Developing new food products and processes, regulating public health standards, managing industrial food plants—these are but a few of the careers open to those trained in food technology. They will meet the challenges of the future in food research, bringing to the public new convenience foods for home and travel, specially

prepared foods for space feeding, more food to meet the demands of a rapidly expanding population.

Recruiting staff members for the new Department has presented several difficulties. The shortage of qualified people in the field of food technology has hampered efforts to get the larger, more diverse staff necessary for the new organization.

"We are aiming to get staff members who know the food industries and are familiar with the problems involved," said Professor Coulter. All staff members have research responsibilities in their areas of particular interest, although much of the research is done by graduate students.

Adding to this problem has been the shortage of the necessary funds to allow an adequate expansion of staff and facilities. Up to this point, the new Department has continued to concentrate heavily on its dairy products program—because most of their equipment at present is geared for this type of work.

The Department is eager to begin extensive work in such areas as poultry and horticultural product research—but must wait until facilities for such projects exist.

Despite these difficulties, staff members in the new Department are optimistic about its future. Already it has

noted a significant increase in enrollment over that of the old programs. Contributing to this growth have been expanded courses of study and an increase in the number of majors offered.

Professor Coulter pointed out another reason for this optimism. "For many years, food has been a surplus item. In a world of such abundance, students in science have turned to more glamorous fields.

"However," he continued, "this situation no longer exists. With food no longer a surplus item, there has been tremendous development in food processing all over the world."

Recent Staff Publications

Dr. Everett T. Keach Jr., Associate Professor of Education, *Elementary School Student Teaching: A Casebook*, John Wiley and Sons, Inc.

Mr. Samuel H. Popper, Associate Professor of Educational Administration, *The American Middle School: An Organized Analysis*, Blaisdell Publishing Company, Division of Ginn and Company.

Dr. William E. Wright, Associate Professor of History, *Serf, Seigneur and Sovereign: Agrarian Reform in Eighteenth Century Bohemia*, University of Minnesota Press.

Minnesotan

University of Minnesota Calendar of Events

February 1-15, 1967

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts
Stanislaw Skrowaczewski, Musical Director
Northrop Auditorium, 8:30 p.m.
Friday, February 3—Artur Schnabel,
pianist (Tickets \$3.00-\$6.00)

UNIVERSITY ARTISTS COURSE Celebrity Series

Northrop Auditorium, 8:30 p.m.
Saturday, February 4—"Porgy and Bess"
(Tickets \$2.00-\$5.00)

Special Concerts

Northrop Auditorium
Sunday, February 5, 3:30 p.m.—"Porgy
and Bess"* (Tickets \$2.00-\$5.00)
Friday and Saturday, February 10 and 11,
8:00 p.m.—Parade of Quartets, "Har-
mony Circus-Go-Round"* (Tickets \$2.00-
\$4.00)

Masterpiece Series

Northrop Auditorium, 8:30 p.m.
Wednesday, February 15—Byron Janis,
pianist* (Tickets \$2.00-\$4.00)

ART EXHIBITIONS

University Gallery
Northrop Memorial Auditorium
Sunday, 2:00-5:00 p.m.
Monday through Friday
8:30 a.m.-4:00 p.m.

Thursday, February 2, through Thursday,
February 23—Balthus: "La Toilette de
Cathy"
Thursday, February 2, through Tuesday,
February 28—M.F.A. Thesis Exhibition
of Donald Schule, paintings and drawings

St. Paul

Student Center Galleries

Sunday, 12:00 noon-11:00 p.m.
Monday through Thursday
7:30 a.m.-11:00 p.m.

Friday and Saturday
7:30 a.m.-12:00 midnight

Through Sunday, February 19—University
School of Architecture, student works,
second floor

Monday, February 6, through Sunday, Feb-
ruary 26—Milton Howard, oils and
acrylic, first floor

UNIVERSITY THEATRE PRODUCTIONS

Scott Hall Auditorium Series

Scott Hall Auditorium
Tickets \$2.00

Thursday, February 2, through Saturday,
February 4, Wednesday, February 8,
through Saturday, February 11, 8:00
p.m.; Tuesday, February 7, and Sunday,
February 12, 3:30 p.m.—*And People
All Around* by George Sklar

Playwright's Premiere Series

Shevlin Hall Arena Theatre
Tickets \$2.00

Tuesday and Wednesday, February 14 and
15, 8:00 p.m.—*A Handy Girl to Have
Around* by Bernard Sabath

UNIVERSITY FILM SOCIETY

Showings at the Museum of Natural
History Auditorium, 7:30 p.m.
Tickets \$.75-\$1.00, varying with film
Friday, February 3—*Man with a Movie
Camera* (USSR, 1929) and *Joli Mai*
(France, 1963)
Friday, February 10—*How to Be Loved*
(Poland, 1964)
Sunday, February 12—*The Last Chapter*
(USA, 1965) and *Memorandum* (Canada,
1966)

Classic Series

Showings at the Museum of Natural
History Auditorium, 3:15 p.m.
Wednesday, February 1—*Triumph of the
Will* (Germany, 1934-36)
Wednesday, February 8—*Bicycle Thief*
(Italy, 1950)
Wednesday, February 15—*Entracte* and
Smiling Madame Beudet

MINNESOTA MUSEUM OF NATURAL HISTORY

Sunday Programs

Museum Auditorium, 3:00 p.m.
(Open to the public without charge)
Sunday, February 5—*Island Treasure*,
color film
Sunday, February 12—"A First-Hand Re-
port on Eskimo Culture and Language,"
with Mr. Thomas Correll, graduate stu-
dent, Anthropology Department

ATHLETIC DEPARTMENT EVENTS

Home Basketball Games

Williams Arena, 8:00 p.m.
Saturday, February 4—Indiana University
Saturday, February 11—University of Illi-
nois (Reserved seats \$2.00; General ad-
mission \$1.50. Over-the-counter sale opens
Monday before each game at Cooke
Hall, Downtown Ticket Office, 158 Car-
gill Building, Minneapolis, and Field
Schlick's, St. Paul)

Home Swimming Meet

Cooke Hall, 4:00 p.m.
Saturday, February 4—University of Illi-
nois and Mankato State College (Re-
served seats \$1.50; General admission
\$1.00)

Home Track Meets

Field House
Saturday, February 4, 1:30 p.m.—Univer-
sity of Illinois
Saturday, February 11, 1:00 p.m.—Uni-
versity of Wisconsin (General admission
\$1.00, sold at gate only)

Home Wrestling Meets

Williams Arena
Saturday, February 4, 12:30 p.m.—Michi-
gan State, University of Illinois, State
College of Iowa
Thursday, February 9, 7:30 p.m.—Okla-
homa University
Saturday, February 11, 12:30 p.m.—Pur-
due University, Indiana University, Uni-
versity of Wisconsin (General admission
\$1.00, sold at gate only)

Home Gymnastics Meet

Cooke Hall, 1:30 p.m.
Saturday, February 11—University of Illi-
nois (General admission \$1.00, sold at
gate only)

CONVOCATION

(Open to the public without charge)
Tuesday, February 14, 2:15 p.m.—Jose
Molinas Dance Company, Northrop Audi-
torium

SIGNIFICANT UNIVERSITY BROADCASTS

*A Service of the General
Extension Division*

Radio

KUOM, 770 on the dial
Mondays, Wednesdays, and Fridays, 11:00
a.m.—"Conservation of Natural Re-
sources," classroom lecture series by
Forestry Instructor Carl H. Reidel
Tuesdays, 11:30 a.m.—"Ad Libitum,"
music-related program with KUOM Music
Director Russell Walsh
Saturdays, 12:00 noon—"Rural America:
Change and Challenge," series from
Kansas State University

KUOM at the Legislature

During the 1967 session of the Min-
nesota Legislature, KUOM will pre-
sent numerous broadcasts dealing
with issues such as Taxes, Educa-
tion, Urban Affairs, and Conserva-
tion. In February, many of the
programs concerned with the Legis-
lature will be heard on "Public
Affairs Forum" at 1:30 p.m., Monday
through Friday.

University Television Hour

Channel 2, KTCATV

Mondays, 9:00 p.m.—"Going to College,"
with Professor Leonard Bart of the De-
partment of Speech and Theatre Arts
Mondays, 9:30 p.m.—"Folio," with Arnold
B. Walker of the Department of Radio
and Television
Tuesdays, 9:30 p.m.—"Skiing," with Cyrus
F. Smythe, Associate Professor of Indus-
trial Relations
Wednesdays, 9:00 p.m.—"You Cannot . . .
Not Communicate," with Professor Ger-
hard Neubeck, Chairman of the Family
Studies Program and Director of the
Marriage Counselling Program
Thursdays, 9:30 p.m.—"Town and Coun-
try," with Ray Wolfe, Associate Professor
in the Institute of Agriculture
Fridays, 9:00 p.m.—"The Art of Teach-
ing," with George Shapiro, Associate
Professor of Speech and Theatre Arts
Television College
Channel 2, KTCATV
Tuesdays and Thursdays, 9:00 p.m. (Begins
February 14)—"Child Psychology 80,"
with Professor William R. Charlesworth
of the Institute of Child Development
Tuesdays and Thursdays, 10:00 p.m.—
"General Psychology 2," with Professor
David LaBerge of the Department of
Psychology
Wednesdays and Fridays, 9:30 p.m.—
"English 56: Shakespeare," with Profes-
sor Sarah Youngblood of the Department
of English

* Reservations may be made at 105 Northrop Memorial Auditorium.

Tickets for these events are also available at Dayton's (all stores) on Monday of the week prior to performance.

University of Minnesota Calendar of Events

February 16-28, 1967

MINNEAPOLIS SYMPHONY ORCHESTRA

Adventures in Music Series
Northrop Auditorium, 8:00 p.m.
 Saturday, February 25—Jose Greco Dancers (Tickets \$2.00-\$4.00)

UNIVERSITY ARTISTS COURSE Masterpiece Series

Northrop Auditorium, 8:30 p.m.
 Tuesday, February 21—Vienna Choir Boys* (Tickets \$2.00-\$4.50)

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge)

Friday, February 17—Concert Band Ensemble, Northrop Auditorium, 8:30 p.m.
 Sunday, February 19—Symphony Bands, Northrop Auditorium, 4:00 p.m.
 Sunday, February 26—Chamber Singers, Grace Lutheran Church, 4:00 p.m.; Gary Sipes, pianist, Scott Hall Auditorium, 8:00 p.m.

ART EXHIBITIONS

University Gallery
Northrop Memorial Auditorium
 Sunday, 2:00-5:00 p.m.
 Monday through Friday
 8:30 a.m.-4:00 p.m.

Through Thursday, February 23—Balthus: "La Toilette de Cathy"
 Through Tuesday, February 28—M.F.A. Thesis Exhibition of Donald Schule, paintings and drawings

St. Paul Student Center Galleries
 Sunday, 12:00 noon-11:00 p.m.
 Monday through Thursday
 7:30 a.m.-11:00 p.m.
 Friday and Saturday
 7:30 a.m.-12:00 midnight

Through Sunday, February 19—University School of Architecture, student works, second floor

Monday, February 6, through Sunday, February 26—Milton Howard, oils and acrylic, first floor

Monday, February 20, through Tuesday, March 7—College of St. Benedict, student works, second floor

UNIVERSITY THEATRE PRODUCTIONS

Playwright's Premiere Series
Shevlin Hall Arena Theatre
 Tickets \$2.00

Thursday, February 16, through Saturday, February 18, 8:00 p.m.; Friday, February 17, and Sunday, February 19, 3:30 p.m.—*A Handy Girl to Have Around* by Bernard Sabath

Scott Hall Auditorium Series
Scott Hall Auditorium, 8:00 p.m.
 Tickets \$2.00

Thursday, February 23, through Saturday, February 25—*Macbeth* by William Shakespeare

UNIVERSITY FILM SOCIETY

Showings at the Museum of Natural History Auditorium, 7:30 p.m.
 Tickets \$.75-\$1.00, varying with film

Friday, February 17—*Lotna* (Poland, 1959) and *Lady Vanishes* (Great Britain, 1938)

Friday, February 24—*Italian Straw Hat* (France, 1927)

MINNESOTA MUSEUM OF NATURAL HISTORY

Sunday Programs
Museum Auditorium, 3:00 p.m.
(Open to the public without charge)

Sunday, February 19—"The World's Quest for Water," with Dr. Theodore Olson of the School of Public Health

Sunday, February 26—*The Black Duck*, color sound film

ATHLETIC DEPARTMENT EVENTS

Home Basketball Games

Williams Arena, 8:00 p.m.
 Tuesday, February 21—University of Iowa
 Saturday, February 25—University of Michigan (Reserved seats \$2.00; General admission \$1.50. Over-the-counter sale opens Monday before each game at Cooke Hall, Downtown Ticket Office, 158 Cargill Building, Minneapolis, and Field Schlick's, St. Paul)

Home Hockey Games

Williams Arena, 8:00 p.m.

Friday and Saturday, February 17 and 18—Colorado College (Reserved seats \$2.00; General admission \$1.50. Over-the-counter sale begins Monday before each game at Cooke Hall, Downtown Ticket Office, 158 Cargill Building, Minneapolis, and Field Schlick's, St. Paul)

Home Swimming Meet

Cooke Hall, 7:00 p.m.

Thursday, February 23—Varsity vs. Freshmen (Reserved seats \$1.50; General admission \$1.00)

Home Track Meet

Field House, 9:30 a.m.

Saturday, February 18—Northwest Open Meet (General admission \$1.00, sold at gate only)

Home Wrestling Meet

Williams Arena, 2:00 p.m.

Saturday, February 25—University of Utah (General admission \$1.00, sold at gate only)

Home Gymnastics Meets

Cooke Hall, 2:00 p.m.

Saturday, February 18—Michigan and Wisconsin Universities

Saturday, February 25—University of Illinois (General admission \$1.00, sold at gate only)

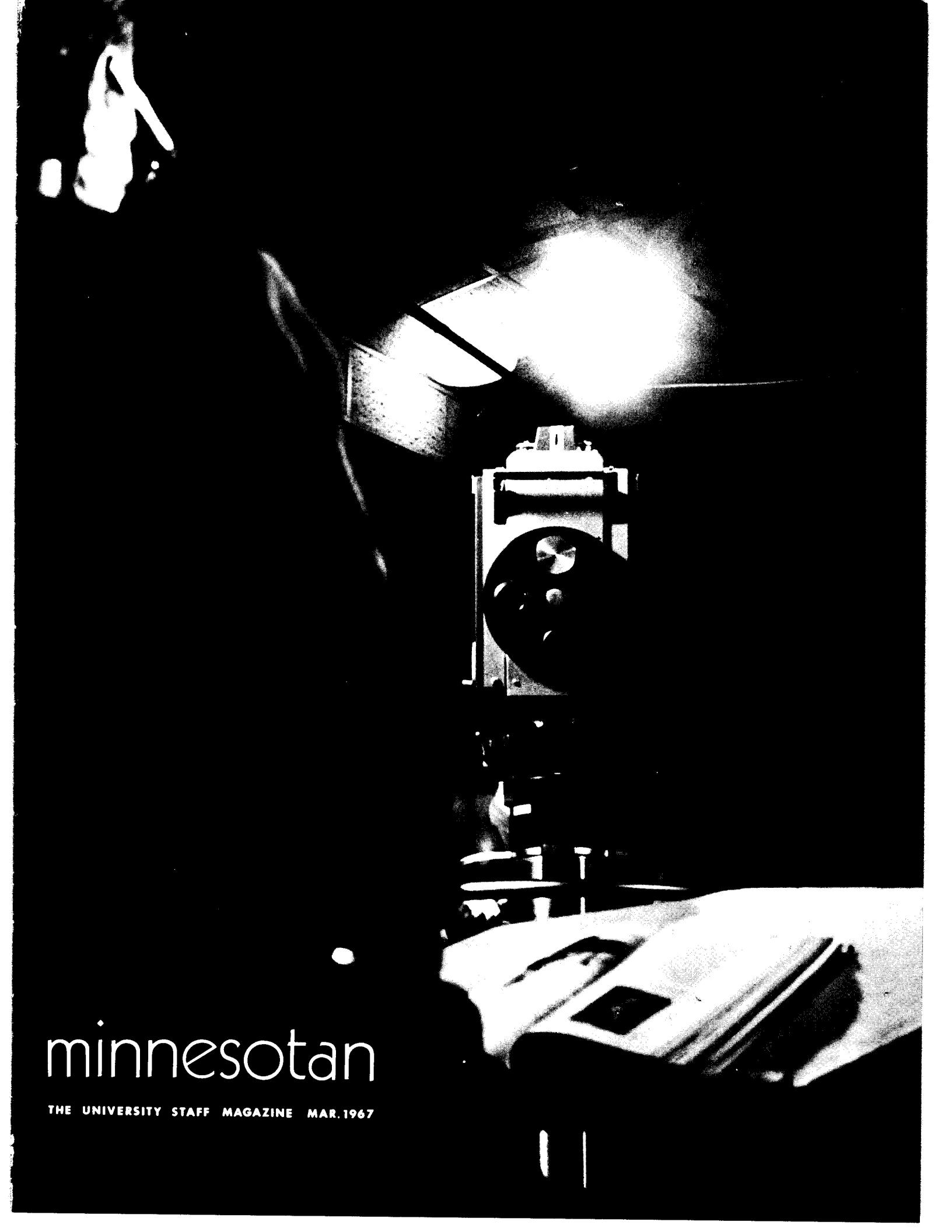
*Reservations may be made at 105 Northrop Memorial Auditorium.

Tickets for these events are also available at Dayton's (all stores) 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 UNIVERSITY STAFF MAGAZINE MAR. 1967



The President's Page

In February the University celebrated its 116th birthday. At such a time it is well to reflect on the success of the University in fulfilling our mission as expressed on the facade of Northrop Auditorium: "Founded in the faith that men are ennobled by understanding, dedicated to the advancement of learning and the search for truth and devoted to the instruction of youth and the welfare of the State"—or more succinctly, to teach, to do research, to serve.

There are almost two hundred thousand graduates from the University of Minnesota whose careers are testimony to the fact that the University has taught well. We presently have among us distinguished scholars whose names would be high on the tablet of honor for their research, who also spend their hours of time plus their emotion, their eagerness and their whole spirit teaching under circumstances that are sometimes difficult because of our great size. These people are epitomized by Regents' Professors Ernst R. G. Eckert, E. Adamson Hoebel, Alfred O. C. Nier, Allen Tate, and Owen H. Wangensteen, who were singled out by their peers for these qualities. These men, together with Professor David Cooperman, Associate Professor Kenneth E. Winsness, and Professor William A. Rosenthal, who received the Outstanding Teacher Awards last year, are symbolic of the energies of the University dedicated to instruction.

It is hard to limit examples of outstanding research at

Minnesota and it is difficult to separate research from service in the way it has been done here.

For example, the late Professor Lorenz G. Straub did magnificent research on hydraulics for our Civil Engineering Department, and probably helped with the building of many of the major dams the world around.

We have Regents' Professor Nier, whose fundamental research helped to discover ways to use uranium and ushered us into the nuclear age. Professor Alrik Gustafson's research in Scandinavian literature has made this area not only more lively and more appreciative of its traditions, but has also reminded the people of Sweden that those who left their native fjords could continue to be Swedish and continue to contribute to the culture though this far from home. In the midst of desperate circumstances during the war, Professor Izaak Kolthoff gave us a formula for artificial rubber.

Are these contributions research or are they service? I leave it to you to decide. We have been served well by their consequences, but they were fundamental research when they were undertaken.

In addition there are the constant service roles that our people play—the agricultural extension agents in each county; the people in our Colleges of Medicine and Veterinary Medicine; the people in every office in every building of the University who are just waiting to hear that somebody in the State needs help.

The charge over Northrop has been answered well, and all Minnesotans should be proud.

Meredith Wilson

On the cover . . .

is the new television studio in Eddy Hall, which is just beginning operations for the Department of Radio and Television.

VOL. XVII THE MINNESOTAN No. 5

Published by the Department of University Relations, 217 Morrill Hall, University of Minnesota, Minneapolis, Minnesota 55455.

William L. Nunn, Director

William T. Harris, Jr., Assistant Director

Flora Fifield, Publications Editor

Carol E. Fyrand Editor

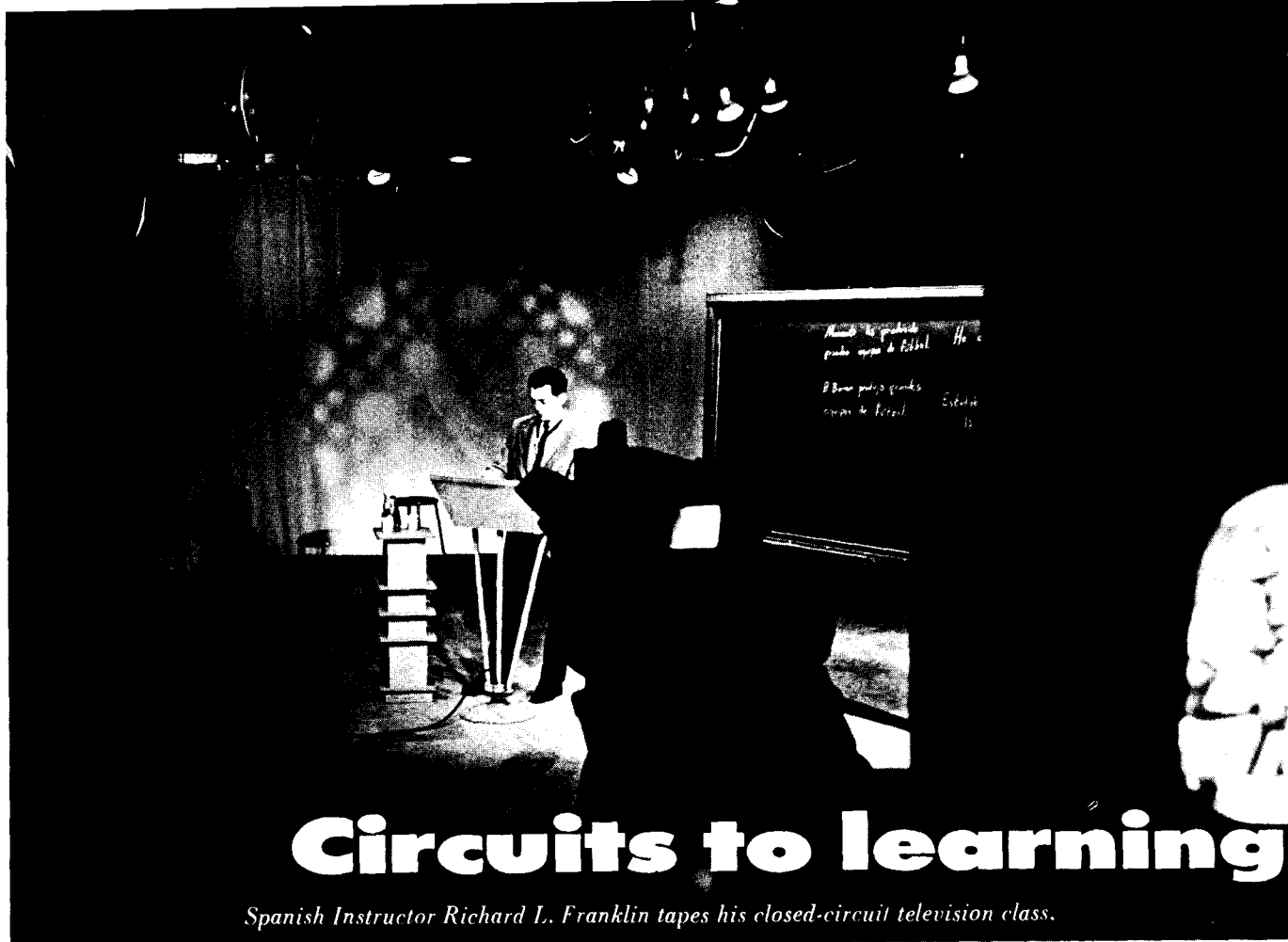
Joan E. Strommer Layout and Art Work

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Circuits to learning

Spanish Instructor Richard L. Franklin tapes his closed-circuit television class.

FADE OUT THE MUSIC OF A LIVELY SPANISH DANCE. ZOOM IN FOR A CLOSE-UP OF THE PROFESSOR.

The cameras are rolling on another television adventure in Spanish 2. But Spanish 2 isn't alone on the television screen.

The circuits of the largest television venture in Minnesota are working overtime to bring University students everything from accounting to theatre. Dr. Burton Paulu, Director of the Department of Radio and Television, said that during last year 32,227 students participated in 805,675 class hours via closed-circuit television.

Although both are geared to high-level learning, television teaching differs considerably from classroom teaching.

Mr. Arnold W. Walker, TV Producer-Director, said, "In a classroom, the instructor controls everything himself. Television is a highly integrated activity in which the director must coordinate the activity, and camera men must know when things are to happen."

Each television instructor is assigned a producer-director to help him adapt subject material and develop stage techniques for the medium. They work together — hunting up a sequence from a film shown the week before, getting acquainted with the visuals to be used, thinking up cover remarks to fill time lapses between film clips, suggesting staging innovations. Then — let 'er roll for a slick one-shot production.

Fitting the pieces together can be a tough task from both sides of the camera. A newcomer to the closed-circuit classroom, Dr. R. Smith Schuneman, Assistant Professor of Journalism, said that at first he felt as if he were "dragging an elephant" along with him. However, he found television teaching progressively easier the more he did it.

Many professors spend considerably more time preparing for a television lecture than they would a classroom lecture, especially in working with presentation of visual materials.

How to turn the pages of a magazine would be of little concern to most classroom lecturers, because most of the students in the class wouldn't be able to see it anyway. On television, however, an effective page-turning job can help viewers in a journalism class to get the feel of the publication as well as to notice details on its pages.

Dr. Schuneman said that a television teacher must always be very much aware of the imaginary class before him. Since he video-tapes his lectures before they are to be shown, he has a chance to attend his own class to see how students react to him on the screen.

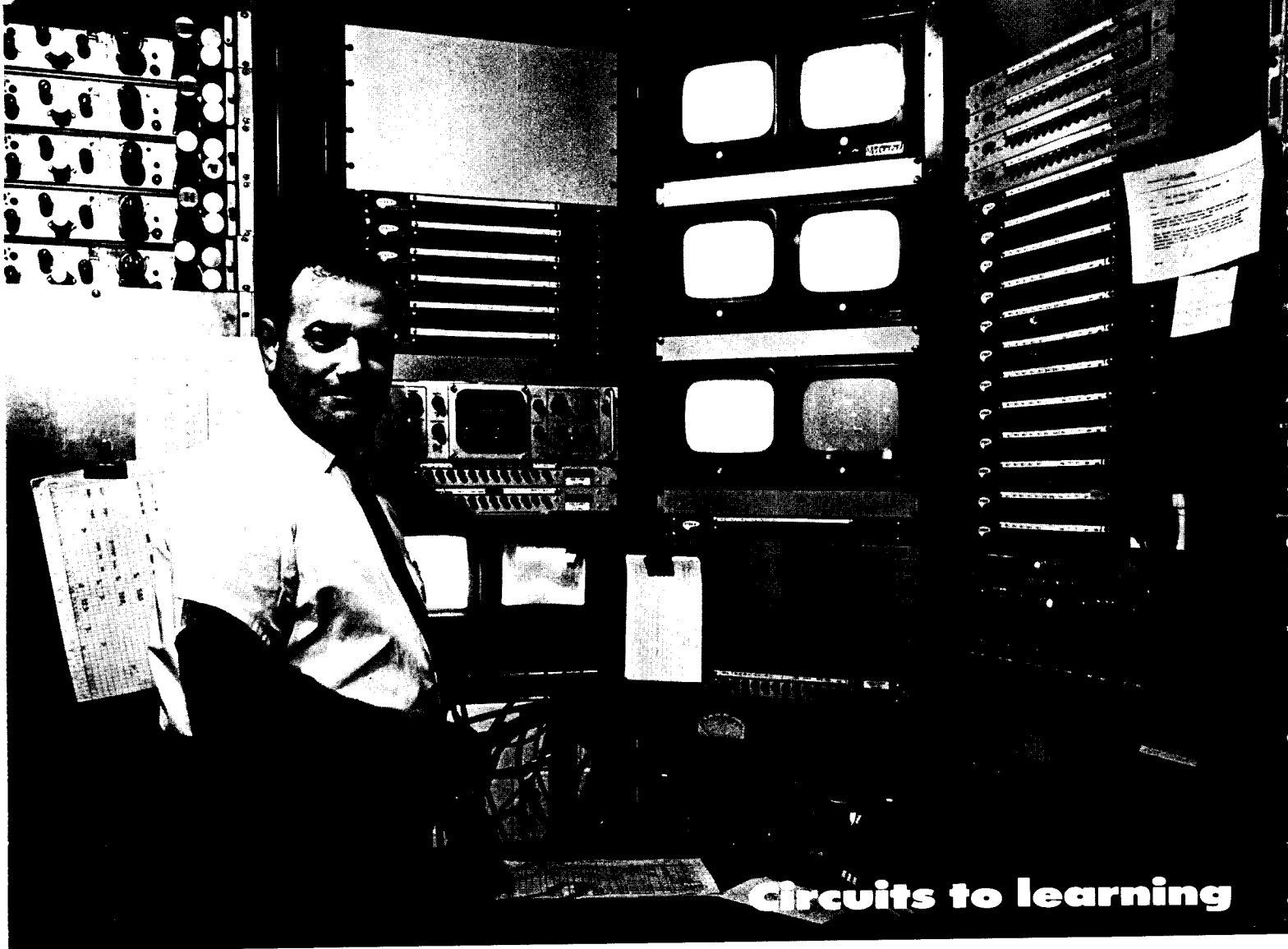
A few television teachers, like French Instructor Mireille G. Rydell, have a small class to work with right in the studio. Most, however, do a solo performance for the cameras.

Commenting on television teaching, Mr. Walker said, "The best instructors are those who are most experienced in and have greatest interest in the medium."

Use of television in the classroom is flexible. Generally, television instruction doesn't occupy the total class time. Sometimes the class hours per week are divided between television and discussion; in other cases, the class hours themselves are divided each day.

Dr. Paulu said, "The University doesn't force a teacher to use closed-circuit television instruction. Use of the medium is entirely optional with the department and with the teacher."

Each department decides for itself how it wants to use television. Although it has complete control over the choice



Circuits to learning

of instructors and courses for television use, the Department of Radio and Television is often consulted.

There has been no pressure on departments to use television, but their requests keep University television facilities going at top speed.

The Department of Radio and Television tapes some of the series during the summer, when activity is a little less hectic. Many others are taped during the quarter they are to be shown.

Videotaping lectures ahead of time can be a real asset to both the instructor and the University. Classes can go on while the instructor is on a leave of absence or out-of-town for a few days to attend a special conference. If the instructor grants permission, tapes may even be used after he leaves the University. Such is the case with Sociology Professor Roy Francis, whose Sociology 45 class is being shown this year.

Although videotape makes it possible to save lectures indefinitely, most lectures are constantly revised to keep



them up-to-date. "The aim is to perfect and enrich the lectures, to bring them to a high level and keep them there," said Mr. Walker.

Sometimes instructors fear that they themselves will become excess baggage once their lecture series is taped.

Dr. Paulu said that such a concern is based on misunderstanding and misinformation and has always been resolved most satisfactorily once an instructor has worked with television.

What can television do for education? Dr. Paulu pointed out that television can provide a real saving in instructor effort. Instead of several teachers preparing similar lectures to present again and again, one instructor can concentrate his efforts for one presentation, which might be carried to fifteen rooms at once. This means that the University can make better use of its outstanding teachers, Dr. Paulu said.

Television teaching also helps to solve other problems that come from rapidly-expanding enrollment, such as space shortage, teacher shortage, scheduling, and geographical separation.

Mr. Walker said that television gives "every student a front row seat" so that four or five hundred can see as well as one. A front row seat not only helps students get better acquainted with the instructor, but it also helps them to see fine details on visual materials which otherwise might be missed.

A front row seat is especially useful in the College of Medical Sciences and University Hospitals where closed-

circuit television is used both for improved treatment and as a teaching device.

Television adds a new dimension to the heart catheterization procedure at the Variety Club Heart Hospital. Formerly the medical staff working in heart catheterization had to wear red goggles to help their eyes adjust more readily to the fluorescence.

"Now," explained Dr. Yang Wang, Associate Professor of Medicine, "we can see more clearly with less X-ray exposure."

The photo amplifier is used to energize the image to a higher level and then project it on the television screen. What is on the screen is what shows on the fluoroscope machine.

This gives everyone in the room — or in nearby rooms where monitors have been installed — a chance to see what is happening. Patients find it quite exciting to see themselves live on the screen; medical students find it a valuable teaching experience as well as a useful medical procedure.

In the Department of Psychiatry and Neurology, Professor Richard W. Anderson and Associate Professor Titus Bellville use videotapes for observation, individual and group therapy, diagnostic interviews, and recording rare cases.

Dr. Anderson said, "This is a lot better than putting students in a stuffy room behind a one-way glass. Instructors can point out details for special observation and students are free to discuss what is happening."

Their equipment, which is completely portable, is the

Left, at the controls in the distribution center is Radio and Television Broadcast Technician Clarence R. Colby. Lower left, in the control room are Producer-Director Paul Swenson, left, and Radio-TV Broadcast Technician Ronald E. Ginsberg. Below, Professor Robert F. Spencer, left, and Program Supervisor John C. Marr discuss production details before taping the lecture.



Circuits to learning

same used by Dr. Richard M. Magraw, Director of the Comprehensive Clinic and Professor of Psychiatry and Internal Medicine. He finds that closed-circuit television helps young medical students improve their bedside manner with patients. Viewing the videotapes of their procedures enables them to make a careful, comprehensive analysis of their skills and weaknesses.

Closed-circuit television is by no means a new phenomenon at the University. The College of Education began using it for demonstration teaching in 1953 under grants from the Ford Foundation, and has continued to use it under funds regulated by the National Defense Education Act.

Since 1958, the School of Dentistry has focused television cameras on the molars and bicuspid of its classroom patients. Dental students, seated before television sets around the lecture hall, can see close-up views of the work their instructors are doing.

The Institute of Technology also pioneered in the use

of closed-circuit instruction. Dr. Allan A. Blatherwick, Professor of Aeronautics and Engineering Mechanics, helped to adapt demonstration-lecture classes in aeronautical engineering to the new medium.

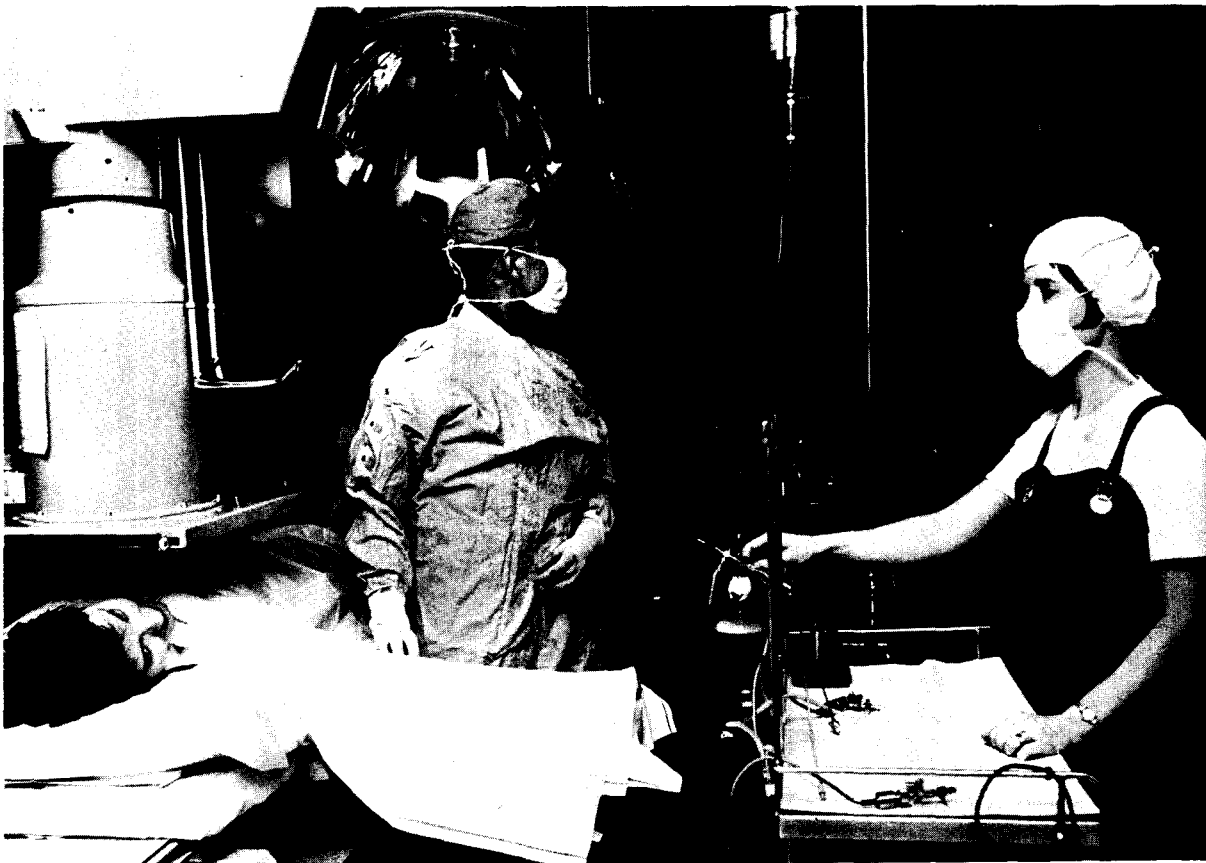
These early efforts helped start the University thinking about greatly expanding the use of closed-circuit instruction. Since they didn't know much about it, they could not fully appreciate its possibilities for improving teaching and solving the problems of size.

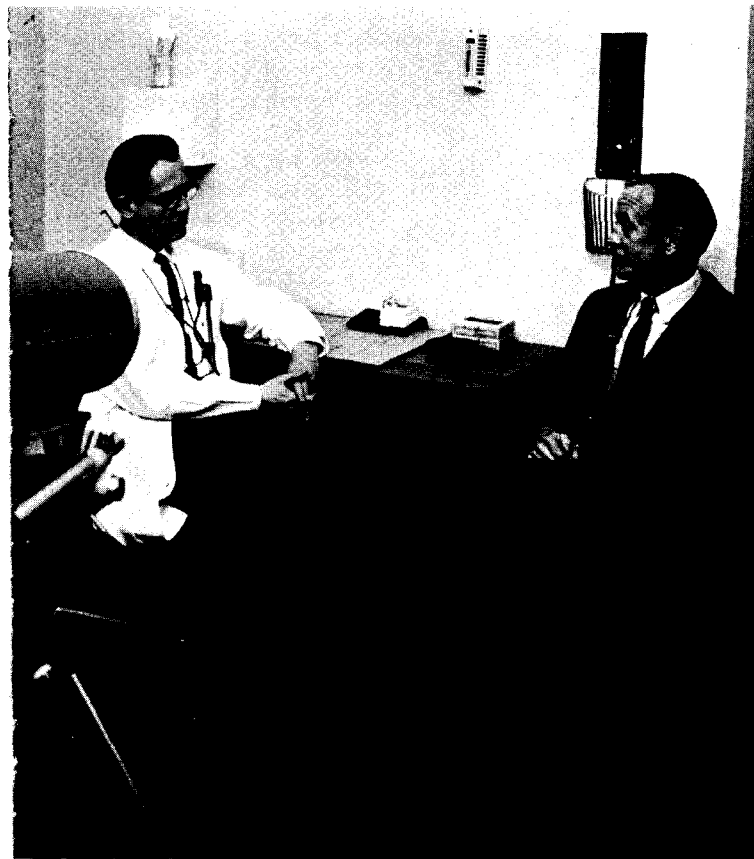
Nevertheless, interest grew: and, early in 1962, plans for expansion were officially announced by President O. Meredith Wilson, who said at the time, "The expanded use of closed-circuit television will be an effort to make more effective the teaching programs at the University and to help meet the problems of numbers."

During the spring of 1962, Dr. Paulu and Mr. Sheldon Goldstein, Assistant Director of the Department of Radio and Television, met with departments which might benefit from closed-circuit television in their classrooms.

Extensive studies preceded a final decision to give the medium a try. Once the decision was made, a department began by using television on a small scale. Appraisal fol-

Lower left, Dr. Yang Wang, Associate Professor of Medicine, watches the image on the television monitor as Julie A. Schweitzer, Senior Clinical Nurse, assists him in heart catheterization. Center, demonstrating the use of closed-circuit television in simulated patient-doctor situation are, left, Dr. Titus Bellville and Dr. Richard M. Anderson of the Department of Psychiatry and Neurology. Right, inspecting equipment in the new videotape truck are, left to right, TV Producer-Director Arnold W. Walker, Director Burton Paulu, and Chief Engineer Lawrence Brogger of the Department of Radio and Television.





lowed, both by the Bureau of Institutional Research and by the department itself.

In this way, the modest beginnings of closed-circuit instruction at the University mushroomed into the present complex operations.

A special sub-committee of the University Radio and Television Policy Committee was appointed by President Wilson to help advise the Department of Radio and Television. The first chairman of this committee was Dean E. W. Ziebarth. This group was asked to make continuing studies of what instructional needs could be met with closed-circuit television and of how the program should be applied.

Present chairman of the committee is Dr. James R. Jensen, Professor in the School of Dentistry. Serving with him are Dr. Allan A. Blatherwick, Associate Professor and Associate Head of Aeronautics and Engineering Mechanics; Dr. Paul H. Cashman, Assistant Vice President for Educational Relationships and Development and Project Director of the TV Feasibility Study;

Dr. Wendell J. DeBoer, Assistant Professor in the College of Agriculture, Forestry, and Home Economics; Dr. Carl E. Heggstad, Associate Professor of Anatomy; Dr. Robert L. Heller, Professor and Head of Geology and Assistant to the Provost, Duluth; Dr. Eric Klinger, Associate Professor of Social Sciences, Morris;

Dr. Elmer W. Learn, Assistant to the President; Dr. Jeanne C. Lupton, Associate Professor and Assistant to

Circuits to learning

(continued from page 7)

the Dean in the College of Biological Sciences; Dr. Daniel C. Neale, Associate Professor of Educational Psychology;

Dr. Burton Paulu, Director of Radio and Television Broadcasting; Dr. Donald K. Smith, Associate Vice President for Academic Administration; Dr. Willard L. Thompson, Dean of the Summer Session and the General Extension Division; Dr. E. W. Ziebarth, Dean of the College of Liberal Arts; Miss Marlene L. Ayers, student member, senior in the College of Liberal Arts.

Evaluating closed-circuit instruction is not easy. Experiments do indicate that, from an economic point of view, such operations are beneficial when more than 250 students are involved, said Mr. Goldstein.

Dr. Paulu pointed out that some of the values of the medium are not cost-accountable. These include the chance to use better teachers for more students, the improved utilization of time, and the improved efficiency of facilities.

Perhaps the best measure of closed-circuit television's success is its tremendous growth. Minneapolis and St. Paul campuses have had television connections for some time. This quarter, the Department of Radio and Television began mailing videotapes to Duluth; spring quarter, Morris will also receive closed-circuit instruction. Although no live interconnection exists to Morris and Duluth, each has a closed-circuit playback and distribution center which send classes to several rooms at once.

Closed-circuit television is also beamed to Rochester. This program developed from the interest of IBM employees who wanted to do graduate work. At first, these students traveled to the Minneapolis Campus one day a week by bus and then crammed in as much learning activity as they could in such a short time. Television connection, financed by IBM, now makes it much easier for them to continue their graduate studies.

These classes are televised from 309 Aeronautical Engineering, which is set up as a studio classroom with cameras permanently attached to the ceiling. In this case, the instructor is his own director.

Courses are also available by closed-circuit television from the University at Rochester Junior College. These courses are administered through the General Extension Division.

Constant requests for more closed-circuit television from University departments has pushed existing facilities to the limit of their capacity. A new studio, just beginning operation, will help to relieve this pressure.

Another addition is a remote truck which will serve various departments by taping material which cannot be brought into the studio.

A proposal currently before the legislature requests funds for a new theatre-radio-television building to be constructed on the West Bank Campus. Such facilities could quadruple the University's television production potential.

*DISSOLVE TO "THE END," FADE IN THE
LAST BARS OF THE SPANISH DANCE . . .*

And Spanish 2 is taped for the day. But stay tuned in — there's a lot to learn on closed-circuit educational television.

All set for a "Folio" show featuring the College Bowl team are Program Director Arnold W. Walker, left, and Professor Robert L. Scott of the Department of Speech, Communication, and Theatre Arts.

"For what English lord in the 19th century is the President of the University of Minnesota named?" The answer, of course, is Owen Meredith,

Universi

the pseudonym of Edward Bulwer-Lytton.

This is one of many practice questions being used to test and sharpen the wits of the University's College Bowl team. Four of the five finalists will be chosen to appear on NBC-TV at 4:30 p.m., CST, Sunday, March 26.

Three members are students in the College of Liberal Arts: Clarence Anderson, a senior in psychology; Richard Cox, a senior in history and Russian; and Keith Nier, a junior in sociology and physics. Mr. Nier is the son of Regents' Professor of Physics Alfred O. C. Nier.

Rounding out the team are Craig Joines, an economics sophomore in the School of Business Administration, and Phoebe Seilin, an architecture junior in the Institute of Technology.

They are coached by Professor Robert L. Scott of the Department of Speech, Communication, and Theatre Arts.

The original field of 103 applicants was narrowed to a squad of nine in late January.

Professor Scott said that the selection of the team of four regulars and one alternate was difficult because of the evenly-matched scores on the oral and written tests and their quick reactions to the "Monster," a light-buzzer machine similar to the one used on the national College Bowl program.

Designed by Charles Vail, a grad-

Minnesotan



Seventy-eight Years of Pillsbury Orators

For seventy-eight years, the polished phrases of Pillsbury orators have been heard at the University of Minnesota.

One of the oldest traditions on the University campus, the Pillsbury Oratorical Contest began in 1889, when the late Governor John Sargent Pillsbury donated prize money to establish it.

Recognizing the importance of training for public speaking, he encouraged aspiring business, political, and social leaders to learn to express their ideas in public. The success stories of many winners of the Pillsbury Oratorical Contest support Mr. Pillsbury's thinking.

Thomas D. Schall, who won first prize in both 1901 and 1902, became a United States Senator. Roy Wilkins, former President and now Executive Director of the National Association for the Advancement of Colored People, won third place in 1922.

Two former Minnesota governors, Theodore Christianson and Harold Stassen, were first-place winners in the contest. The 1966 winner was Miss Jean LeVander, daughter of Governor Harold LeVander.

Encouragement and guidance from the speech department faculty members have helped to maintain interest in the contest for more than half a century.

Among these staunch supporters have been Department Chairmen Frank M. Rarig, E. W. Ziebarth, William S. Howell, Donald K. Smith, and Kenneth L. Graham. Professor Howell conducted the contests from 1948 to 1963; present coordinator of the contest is Professor Robert L. Scott.

The 1967 Pillsbury Oratorical Contest was held in January in Murphy Hall Auditorium.

Judging the contest were Associate Professor Leonard D. Bart, Professor Ernest G. Borman, and Assistant Professor Bernard L. Brock of the Department of Speech, Communication and Theatre Arts.

Competes in College Bowl

uate student in the communication science laboratories, the machine depends on split-second timing; the first person to press the button lights up bulbs on the master board and cuts contact for the opposing team.

Professor Scott said that the team members "may not be the sharpest and brightest youngsters at the University, but we are delighted with them, and will back them against any other group in the country."

According to the rules of this year's contest, a team may appear only five times in a row, once as challenger and four times as a champion. Each winning appearance gives the team \$1,500 in scholarship money. A losing effort nets \$500.

In preparation for their New York encounter, the team has had private practice sessions with the "Monster." Team members have also appeared on local television programs with it; among these have been three appearances on the University's "Folio," over Channel 2, KTCA-TV.

Professor Scott said that the team members are busy cramming facts in their spare time. They are using flash cards in history, literature, and science, March, 1967

and reading general reviews of such subjects as art and music history.

Team members are working together about four hours a week at present, so their studies aren't suffering at all, Professor Scott said. They will give up practicing during winter quarter finals and then prepare intensively the week before the contest.

The University of Minnesota has rolled up an impressive record in its participation in these brain-tickling contests.

In 1954, the College Quiz Bowl team, coached by the late Dean J. W. Buchta, won eight straight games in radio competition. Their success prompted the team's return in 1955, when, coached by History Professor John B. Wolf, it established a record of twelve consecutive wins.

The University team won four consecutive games on the televised General Electric College Bowl in 1959. Head coach of this team was Dr. Donald K. Smith, then Professor of Speech and now Associate Vice President at the University; assisting him was Associate Professor of Disciplinary Studies Robert J. Ames.

These winnings piled up \$15,000 in scholarship money plus considerable national prestige for the University.

University Televises Two March Events

ABOUT EIGHTY PERCENT of the people in Minnesota will be able to attend two significant University events in March the easy-chair way. The University's Charter Day Convocation and March Commencement Exercises will be televised live from Northrop Memorial Auditorium over Channel 2, KTCA-TV, Minneapolis-St. Paul; Channel 8, WDSE-TV, Duluth; and Channel 10, KWCM-TV, Appleton.

Microwave equipment on the roof of Northrop Auditorium will relay the proceedings to the KTCA-TV tower. This tower, in turn, will send them across the state.

The telecast of Charter Day Convocation will begin at 11:20 a.m. on Friday, March 10. Presiding at this event, which commemorates the 116th anniversary of the University, will be President O. Meredith Wilson. Representatives of the Board of Regents, the Minnesota Student Association, The University Alumni Association, the Faculty, and the Legislature will be present.

Music will be provided by the University Concert Band Ensemble under the direction of Dr. Frank Bencriscutto. This group recently returned from a concert tour through Midwestern states. Highlighting the trip were appearances at Orchestral Hall in Chicago and at the annual convention of the College Band Directors National Association at the University of Michigan in Ann Arbor.

Dr. James Gray, a University alumnus who later served his alma mater as Professor of English, will be the principal speaker. Dr. Gray has been a literary and dramatic editor for the *St. Paul Dispatch* and *Pioneer Press* and literary editor for the *Chicago Daily News*. In addition to his history of the University of Minnesota, Dr. Gray has published many works, both fiction and non-fiction. He received the University's Outstanding Achievement Award in 1964.

Following the Convocation, the 1966 Homecoming Queen, Miss Jan Jacobson, assisted by R.O.T.C. cadets and student leaders, will serve birthday cake to everyone.

THE MARCH COMMENCEMENT will be televised on Saturday, March 18, at 7:30 p.m. over Channel 2, KTCA-TV, Minneapolis-St. Paul; Channel 8, WDSE-TV, Duluth; and Channel 10, KWCM-TV, Appleton.

At the March Commencement, the 1967 Regents' Professors will be named. This honor is the highest recognition that the University can give to a member of its faculty. It is conferred only upon University faculty who have achieved distinction in the eyes of the University, the nation, and the world.

Dr. Allen Tate, one of the first five to be so honored, will



Allen Tate

James Gray

deliver the Commencement Address. Dr. Tate, Regents' Professor of English, is a noted poet, critic, novelist, and teacher, who holds membership in the American Academy of Arts and Letters and the American Academy of Arts and Sciences. He is currently on leave, serving as Visiting Professor of English at Vanderbilt University.

Recent Staff Publications

Dr. Joan Aldous, Assistant Professor in the Family Study Center, and Dr. Reuben L. Hill Jr., Professor of Sociology, *International Bibliography of Research in Marriage and the Family, 1900-1964*, University of Minnesota Press.

Dr. Ernest Gellhorn, Professor Emeritus of Neurophysiology, *Principles of Autonomic-Somatic Integrations: Physiological Basis and Psychological and Clinical Implications*, University of Minnesota Press.

Dr. Katsuhiko Ogata, Professor of Mechanical and Aerospace Engineering, *State Space Analysis of Control Systems*, Prentice-Hall, Inc.

Dr. Samuel H. Popper, Associate Professor of Educational Administration, *The American Middle School: An Organizational Analysis*, Blaisdell Publishing Company.

Dr. Leonard H. Unger, Professor of English, editor, *Seven Modern American Poets: An Introduction*, University of Minnesota Press.

University of Minnesota Calendar of Events

March 1-15, 1967

MINNEAPOLIS SYMPHONY ORCHESTRA

Sunday Afternoon Concerts

Stanislaw Skrowaczewski, Musical Director
Northrop Auditorium, 4:00 p.m.

Sunday, March 5—"The Little Match Girl," Loyce Houlton's Contemporary Dance Playhouse (Tickets \$2.00-\$4.00)

UNIVERSITY ARTISTS COURSE

Masterpiece Series

Northrop Auditorium, 8:30 p.m.

Wednesday, March 1—Mary Costa, soprano * (Tickets \$2.00-\$4.00)

Special Concert

Northrop Auditorium, 8:30 p.m.

Friday, March 3—Belshazzar's Feast and Oedipus Rex, University musical groups * (Tickets \$2.00-\$4.00)

MUSIC DEPARTMENT PROGRAMS

(Open to the public without charge)

Monday, March 6—William Oden, pianist, Scott Hall Auditorium, 8:00 p.m.

Tuesday, March 7—Nancy Whipkey, pianist, Scott Hall Auditorium, 8:00 p.m.

Thursday, March 9—University Women's Chorus, St. Paul Chorus, and Resident Oratorio Choir, Coffman Union, 8:00 p.m.

UNIVERSITY THEATRE PRODUCTIONS

Scott Hall Auditorium Series

Scott Hall Auditorium
Tickets \$2.00

Wednesday, March 1, through Saturday, March 4, 8:00 p.m., Sunday, March 5, 3:30 p.m.—*Macbeth* by William Shakespeare

UNIVERSITY FILM SOCIETY

Shown at the Museum of Natural History Auditorium

Tickets \$.75-\$1.00, varying with film

Wednesday, March 1, 3:15 p.m., 7:00 p.m., and 9:15 p.m.—*Faust* (Germany, 1963)
Friday and Saturday, March 3 and 4, 7:30 p.m.—*Band of Outsiders* (France, 1964)
Friday and Saturday, March 31 and April 1—*The Shadows of Forgotten Ancestors* (USSR, 1965)

CHARTER DAY CONVOCATION

(Open to the public without charge)

Northrop Auditorium, 11:15 a.m.

Friday, March 10—University's 116th Anniversary. Concert Band, Birthday Cake for all. President Wilson presiding. Speaker: James Gray, historian of the University, editor, critic

ART EXHIBITIONS

University Gallery

Northrop Memorial Auditorium

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

Monday through Friday

8:30 a.m.-4:00 p.m.

Thursday, March 2, through Tuesday, March 21—Show in memory of Alvin Langdon Coburn

St. Paul Student Center Galleries

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

Monday through Thursday

7:30 a.m.-11:00 p.m.

Friday and Saturday

7:30 a.m.-12:00 midnight

Through Tuesday, March 7—Student works from the College of St. Benedict, second floor

Through Saturday, March 18—Australis, oil, intaglio, drawings, first floor
Sunday, March 12, through Friday, March 31—Town and Country Art Show, second floor

MINNESOTA MUSEUM OF NATURAL HISTORY

Sunday Programs

Museum Auditorium, 3:00 p.m.

(Open to the public without charge)

Sunday, March 5—*Mark Catesby Colonial Naturalist*, color sound film

Sunday, March 12—*Migration Mysteries*, color sound film

ATHLETIC DEPARTMENT EVENTS

Home Basketball Game

Williams Arena, 8:00 p.m.

Monday, March 6—Michigan State University (Reserved seats \$2.00; General admission \$1.50. Over-the-counter sale opens Monday before each game at Cooke Hall, Downtown Ticket Office, 158 Cargill Building, Minneapolis, and Field Schlick's, St. Paul)

Home Hockey Games

Williams Arena, 8:00 p.m.

Friday and Saturday, March 3 and 4—University of Michigan

Tuesday, March 7—W.C.H.A. Play-off (Reserved seats \$2.00; General admission \$1.50. Over-the-counter sale opens Monday before each game at Cooke Hall, Downtown Ticket Office, 158 Cargill Building, Minneapolis, and Field Schlick's, St. Paul)

SIGNIFICANT UNIVERSITY BROADCASTS

A Service of the General Extension Division

Radio

KUOM, 770 on the dial

Mondays, Wednesdays, and Fridays, 11:00 a.m.—"Conservation of Natural Resources," classroom lecture series by Forestry Instructor Carl H. Reidel
Tuesdays, 11:30 a.m.—"Ad Libitum," music-related program with KUOM Music Director Russell Walsh
Saturdays, 12:00 noon—"Rural America: Change and Challenge," series from Kansas State University

KUOM at the Legislature

During the 1967 session of the Minnesota Legislature, KUOM will present numerous broadcasts dealing with such issues as Taxes, Education, Urban Affairs, and Conservation.

University Television Hour

Channel 2, KTCA-TV

Mondays, 9:00 p.m.—"Going to College," with Professor Leonard Bart of the Department of Speech and Theatre Arts
Mondays, 9:30 p.m.—"Folio," with Arnold B. Walker of the Department of Radio and Television
Tuesdays, 9:30 p.m.—"Great Decisions," N.E.T. Public Affairs Series presented in cooperation with University of Minnesota World Affairs Center
Wednesdays, 9:00 p.m.—"Adventures in Research," with Professor Robert Lindsay of the School of Journalism and Mass Communication
Thursdays, 9:30 p.m.—"Town and Country," with Ray Wolfe, Associate Professor in the Institute of Agriculture
Fridays, 9:00 p.m.—"Landscape Ideas," with Professor C. Gustav Hard, Extension Horticulturist

Television College

Channel 2, KTCA-TV

Tuesdays and Thursdays, 9:00 p.m.—"Child Psychology 80," with Professor William R. Charlesworth of the Institute of Child Development
Tuesdays and Thursdays, 10:00 p.m., through March 16—"General Psychology 2," with Professor David LaBerge of the Department of Psychology
Wednesdays and Fridays, 9:30 p.m., through March 17—"English 56: Shakespeare," with Professor Sarah Youngblood of the Department of English

* Reservations may be made at 105 Northrop Memorial Auditorium.

Tickets for these events are also available at Dayton's (all stores) 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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University of Minnesota Calendar of Events March 16-31, 1967

MINNEAPOLIS SYMPHONY ORCHESTRA

Friday Evening Concerts
Stanislaw Skrowaczewski, Musical Director
Northrop Auditorium, 8:30 p.m.
Friday, March 17 — Berlioz' "Damnation
of Faust." Macalester Chorus, soloists
(Tickets \$3.00-\$6.00)
Friday, March 24 — Mstislav Rostropovitch,
violinist (Tickets \$3.00-\$6.00)
Friday, March 31 — Minneapolis Symphony
Orchestra Artists (Tickets \$2.75-\$5.00)

UNIVERSITY ARTISTS COURSE Masterpiece Series

Northrop Auditorium, 8:30 p.m.
Tuesday, March 28 — Ballet Folklorico of
Mexico* (Tickets \$2.00-\$5.00)

Special Concert

Northrop Auditorium, 8:30 p.m.
Wednesday, March 29 — Ballet Folklorico
of Mexico* (Tickets \$2.00-\$5.00)

ART EXHIBITIONS University Gallery

Northrop Memorial Auditorium
Sunday, 2:00-5:00 p.m.
Monday through Friday
8:30 a.m.-4:00 p.m.

Monday, March 27, through Friday, March
31 — M.F.A. Thesis Exhibitions of Don-
ald Schule, sculpture; Janna Dory, pho-
tographs; and James Sahlstrand, photo-
graphs

St. Paul Student Center Galleries

Sunday, 12:00 noon-11:00 p.m.
Monday through Thursday
7:30 a.m.-11:00 p.m.
Friday and Saturday
7:30 a.m.-12:00 midnight
Through Saturday, March 18 — Austra
Ogulis, oil, intaglio, drawings, first floor
Through Friday, March 31 — Town and
Country Art Show, second floor

CONVOCATION

Thursday, March 30 — William Clauson,
singer of folk songs and ballads, Coffman
Union, Main Ballroom, 2:15 p.m.

MINNESOTA MUSEUM OF NATURAL HISTORY Sunday Programs

Museum Auditorium, 3:00 p.m.
(Open to the public without charge)
Sunday, March 19 — "Natural Controls vs.
Pesticides," with Professor Edwin Cook
of the Entomology, Fisheries and Wild-
life Department

1967 SPRING LECTURE SERIES A Service of the General Extension Division

Mayo Memorial Auditorium, 8:30 p.m.
Wednesdays, March 29 through May 3 —
"American Antiques," a series of six lec-
tures
Wednesday, March 29 — "American Deco-
rative Arts — A General Definition,"
Marvin D. Schwartz, Curator, Depart-
ment of Decorative Arts, Brooklyn Mu-
seum
(General admission for the series is \$12.50;
University staff and students \$7.50. Sin-
gle tickets \$3.00, sold at door only)

SIGNIFICANT UNIVERSITY BROADCASTS

*A Service of the General
Extension Division*
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a.m. — "Conservation of Natural Re-
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minnetotan

UNIVERSITY STATE MAGAZINE

A Tribute to President Wilson by

Once when I was doing a field study of Comanche tribal law and government, I asked a wise, old Indian, "Just what did the chiefs have to do?"

He pondered it a bit and gave me my answer. "I hardly know how to tell about them. They didn't have anything to do except hold the band together."

There in a nutshell was compacted the kernel of a great truth. The finest type of leadership holds the band together and keeps it going as a group. Its effects are clear and solid. But its skills are so subtle that they almost defy identification — say nothing of description.

A Comanche headman dealt with a band of individuals — not unlike university faculty and today's student protesters. But he kept the band together. Yet he was a non-boss. No threats, no punishment, no coercion, no directives.

He was a magnet at the core of the band. His quiet influence was constantly at work through precept, advice, and good humor, expressing his wisdom through well-chosen words and persuasive good sense.

That was the Comanche chief of old. That *is* President O. Meredith Wilson today; he epitomizes the essence of democratic executive leadership at its very best.

His is a style of leadership that is marked by a deep understanding of human relations and of the central purpose of a democratic society. It is a style that develops naturally from a bred-in-the-marrow conviction that concerted democratic involvement in decision and action is the healthiest and most

effective way to make a university and a nation sound.

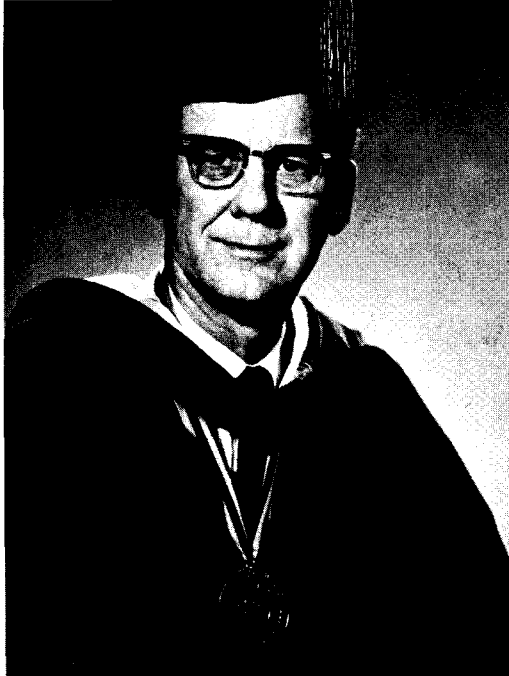
The conviction expressed itself very early in the choice of a field of history which Dr. Wilson set for his area of scholarly specialization: America in the decades immediately following Independence.

His concern was with the central question: How did the people of a fledgling democracy cope with the problems of building a democratic state? How did they achieve unity in diversity? What was the reasoning that made possible the Federation through which necessary common purposes could be realized without unnecessary impairment of individual liberties and the rights of the people?

At the University of Chicago, where he taught from 1944 to 1947, this led to the publication of a collection of fundamental historic American documents for use in the introductory Social Science course. Significantly, it was called, *The People Shall Judge*. Professor Wilson had a large hand in this book, in which it stated at the outset:

If the United States is to be a democracy, its citizens must be free. If citizens are to be free, they must be their own judges. If they are to judge well, they must be wise. Citizens may be born free; they are not born wise. Therefore, the business of liberal education in a democracy is to make free men wise.

On the road from professor to president, he never lost sight of, nor forgot, those basic precepts. His practice has translated these principles into prevailing action. This has been his great gift to the Uni-



DR. E. ADAMSON HOEBEL

Regents' Professor of Anthropology

versity of Minnesota. President Wilson did not create the tradition of academic democracy here; it has always been strong in Minnesota. But, with great skill he has intensified and broadened its development within the university.

When President Wilson arrived here seven years ago, the internal structure of the university presented severe problems. Old forms of collegiate organization had been outmoded by a new type of growth of knowledge and numbers. New buildings were to rise across the river to provide more living space for the numbers. But what of the living organism that is the university itself?

President Wilson's response was the purest expression of his style. He gave no formulas. He hinted at no set solutions. Rather, he made it clear that he expected faculty intelligence to find the new ways forward. He stimulated and evoked the widest possible dialogue in a series of conversations with groups of representatives from all areas and campuses of the university. Through the questions he asked, he focused thinking on the issues of greatest relevance.

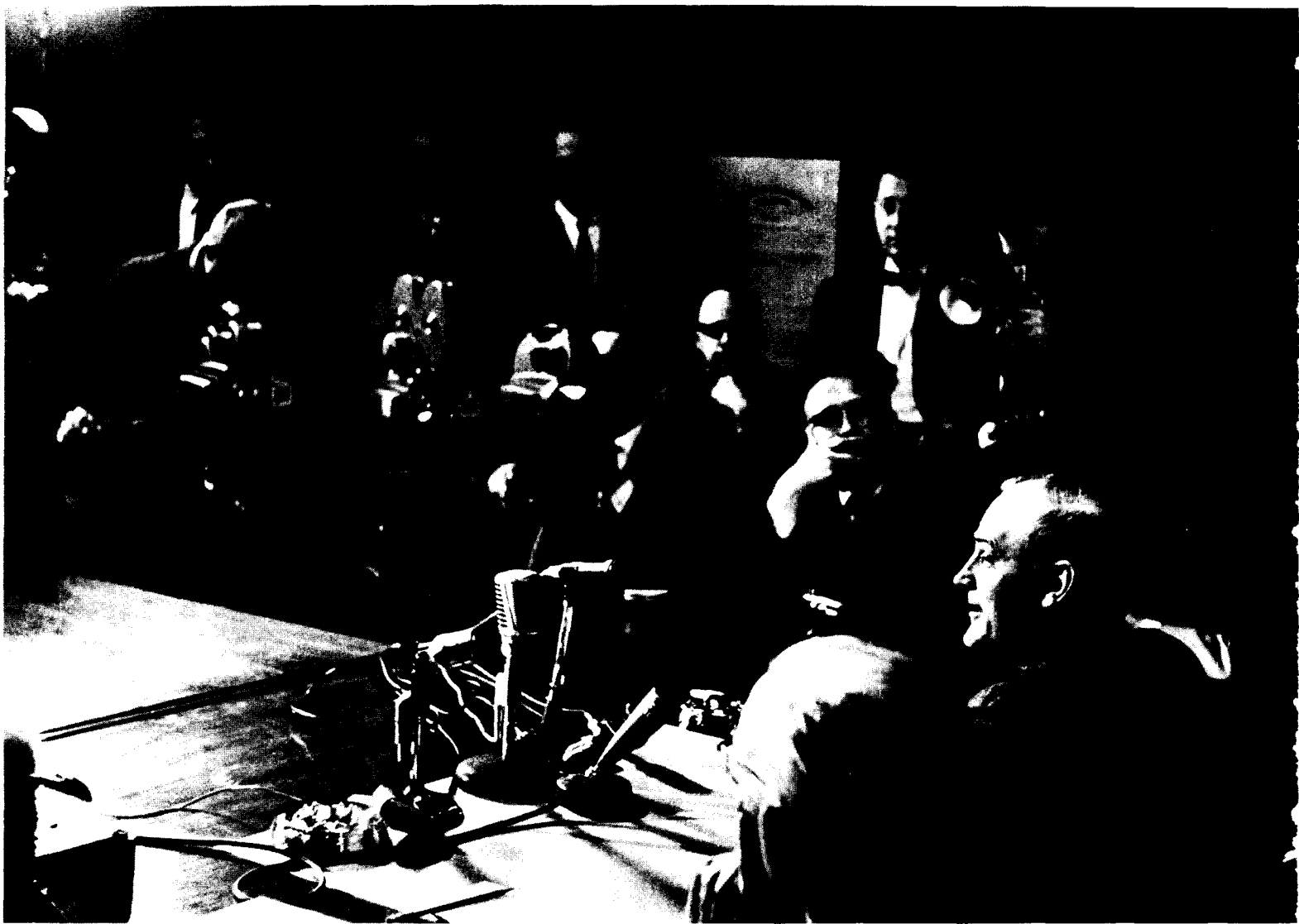
The outcome has been wide consensus upon a series of adaptations that have modernized the internal structure of the university. All units have been strengthened for their professional tasks and a new concern for liberal education has been spread throughout the institution.

In innumerable ways, on a multitude of fronts, the university has moved forward under his guidance. By this ability to communicate with the people, by his feel for the anxieties and aspirations of the students, with his scholarly understanding and

respect for the teacher, by his balanced judgment and refusal ever to panic when emotions and tensions run high, and by his capacity to act when the need for action falls directly on him, he has lent this university directive intelligence of the highest order. We have been fortunate and we are very grateful. His imprint, he may rest assured, will long endure.

As President Wilson's working skill has increased our satisfaction in our academic tasks, so also have his delightful wife and family enhanced our fuller association in the pleasure of his company. We wish them all happiness!

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Members of the Press meet Dr. Wilson, ninth President of the University of Minnesota.

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. 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.

The Wilson Years . . .

**President O. Meredith Wilson
Minnesotan March, 1965**

Emphasis on academic quality and progress has been the hallmark of the administration of Dr. O. Meredith Wilson, who became the ninth President of the University of Minnesota in 1960.

How the University, under President Wilson's direction, has met the challenge of the quest for academic excellence is the story of the past seven years — years of academic reorganization, of expansion of facilities, and of efforts to define clearly the University's position and purpose.

The Wilson years have been marked by the development of very close relationships among the faculties of the several campuses, between the faculty and the administration, and between the faculty and the Regents. Through the strength of these relationships, academic development and qualitative growth have been maintained, despite the tremendous increase in enrollment (from 28,277 in 1960 to 43,997 in 1967).

Academic reorganization, particularly in the College of Liberal Arts, the Institute of Technology, and the College of Education, was instituted to help the University do its job more effectively.

One product of this reorganization was the birth of the new College of Biological Sciences in 1964. Another was the new School of Physical Education in the College of Education, which was formed when the old Department of Physical Education and Athletics was divided.

In addition to reorganizing, the University also expanded with new campuses, new concerns, new policies, new teaching tools, and new facilities.



Retiring President James Lewis Morrill gives a warm welcome to his successor.

Continued . . .

Regents' meetings are a first priority on the President's time.



Instructor in Business
Adolph E. Beich introduces the
President to some of the students
at the Technical Institute in Crookston,
the University's newest campus.

Photo by Ken R. Johnson



On the Morris Campus mall,
President Wilson chats with
former Governor Karl F. Rolvaag
and Dean Rodney A. Briggs.

West Bank construction begins as the
President turns the first shovel of dirt.



Walking across the new bridge connecting the East and West Banks
Dean for Social Sciences Fred E. Lukermann, Vice President for
Administration William G. Shepherd, Assistant Vice President for
Administration Roy V. Lund, President Wilson, Associate Dean of
Business Administration George Seltzer, and Assistant to the Pres



The Wilson Years . . .

In June, 1964, the University liberal arts campus at Morris held its first Commencement. The Technical Institute at Crookston, which will replace the old Northwest School of Agriculture, held its first classes in the fall of 1966.

The Office of International Programs, under the direction of a Dean of International Programs, was created in 1963. In 1964, an All-University Council on International Programs was named to advise and assist the Dean in coordinating, strengthening, and developing the teaching, research, and service activities of University staff members in other countries.

Both moves were credited with bringing to the University community, as well as to the State it serves, a new awareness of the role that the University now plays in the affairs of the world.

The All-University Council on Liberal Education also had its beginning in 1963. In an effort to assure a University-wide approach to the liberal education of all undergraduate students — including those in the professional colleges — it has established minimum requirements for all undergraduates in several basic fields of knowledge.

In 1964-65, the University estab-

lished a controlled-growth policy to help maintain quality education for the individual student in the face of the enrollment and knowledge explosion. As a means of limiting total enrollment, this policy has raised admission requirements for the College of Liberal Arts and has placed a ceiling on General College enrollment.

Technological advances, including instruction by closed-circuit television, programmed learning, and computerization of University records, have become part of education at Minnesota under President Wilson's leadership. Side-by-side with these innovations has been the development of small undergraduate seminars, and modified tutorials particularly related to the honors program.

Improved facilities are part of the solution to the problem of providing higher quality education for ever-increasing enrollments. Even though he will not be remembered as a "bricks-and-mortar" president, Dr. Wilson played a major role in expanding the large post-war building program already in progress when he took office.

Among the significant specifics of the building boom, which today finds more than two-score buildings and additions completed or close to completion, is the realization of the West Bank area of the Minneapolis Campus.

(Continued on page 12)

Ribbon-cutting ceremonies marked the opening of the Tweed Gallery on the Duluth Campus. Associate Professor of Art William G. Boyce, President Wilson, Mrs. Alice Tweed Tuohy, Provost Raymond W. Darland, and Professor Arthur E. Smith, Chairman of the Art Department at Duluth, did the job.



Associate
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It's a busy life . . .

Many tasks make up the day of a university president. Big ones . . . little ones. Conferences. A meeting with the Board of Regents. Plans for a new library. A visit to a classroom. Phone calls. Conferences.

Greeting guests at receptions. Breaking ground for new buildings. Dedications. Conferences. Big tasks or little ones, they're all part of a university president's day . . . part of what it takes to make a university great.



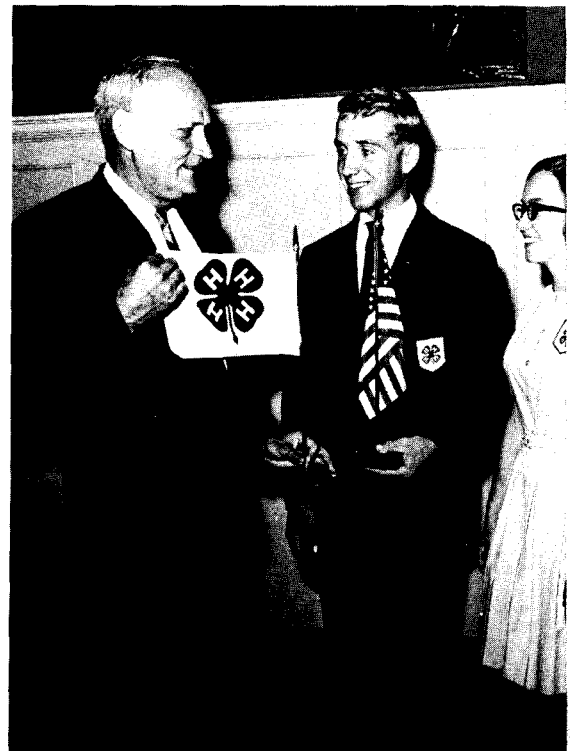
President Wilson serves a piece of birthday cake to Governor Harold LeVander on Charter Day, 1967. Assisting him is Homecoming Queen Jan Jacobson.

The Reverend Theodore M. Hesburgh, President of the University of Notre Dame, confers an honorary Doctor of Laws degree upon President Wilson — one of eleven honorary degrees the President received while at the University of Minnesota.



First Lady of the University Mrs. Wilson joins her husband at special functions of the University.

Representatives from Minnesota 4-H Clubs, part of the University's service activity in the State, present a set of flags to President Wilson.



Welcome Week, 1960, on the St. Paul Campus featured a special welcome-to-Minnesota birthday party for the new President, complete with cake and freshman beanies!



Photo by Minneapolis Star and Tribune



We live in a world where the ability to grow in dignity is dependent upon having the right of choice. And the process of learning which of two alternatives is best requires us to take the risk of occasionally choosing wrong — not deliberately, mind you, and not wrong for wrong's sake — but people don't grow up unless they learn the consequences of error. One of the important things, therefore, for us adults to recognize is that our concept of freedom, the idea with which we face the world, is one that has matured through living 20, 25, 30, 35 years of adult life. We cannot expect a young person's concept of freedom to be as mature. Our job is to help it become mature.

**Speech at 1966 Governor's Conference on Children and Youth
Northrop Auditorium, April 16, 1966**

.. and in his own words

When one says that man is the only great thing in nature, he also must say that all men share that greatness. When he discovers in the mind of man the one real secret of his greatness, he also acknowledges that mind is a characteristic of men — all men and not just some; and that good minds are not the monopoly of a limited class of people, but occur among all, as witness the Abraham Lincolns and the George Washington Carvers of our own America.

**Charge to the Graduating Class
Commencement — June 9, 1962**

I would like to remind . . . young people that the government we have, the peace which is ours, the developed society we enjoy, and the strength of our economy are really dependent upon free men. I want [them] to remember that Thomas Jefferson was able to argue that man is born free. He could not argue that man is born wise. It is necessary for man to become wise if he is to remain free.

**Speech at 1966 Governor's Conference on Children and Youth
Northrop Auditorium, April 16, 1966**

Why cannot a university which can show the way to split atoms or send tons of steel hurtling around the sun find a way to draw men's hearts together or make human sympathy as universal as the human mind? The purpose of the university is to help men escape from barbarism into civilization.

**Charge to the Graduating Class
Commencement — June 10, 1961**

I hope that you [Minnesota students] early discover that a university is more a place to learn, more a place to study, than it is a place to listen; that the primary activity is learning, and that's your job.

**Opening Convocation
September 30, 1965**





I hope the first role of the University of Minnesota is to serve as a touchstone for cultural strength and for intellectual integrity, for the opportunity of independent thought, and clarity of thought, so that there will be some people who are always alert to the difficulties of our society and are willing to speak in judgment on it. I think, in the absence of some sort of engine of intellectual integrity in the core of a great growing culture like our own, we might lose our sense of purpose.

**The Henry Wolf Show, KSTP-Radio
November 10, 1966**



In the University of Minnesota our duty is to keep the discussion open; our purpose for being and our ability to serve our state and nation would be crippled if we could not search every cranny for truth, and examine every institution for error. Protection of this freedom is our only proper cause.

**Charge to the Graduating Class
Commencement — June 12, 1965**

Nobody calls the University of Minnesota a small college. Often it's berated for being too large. . . . But it is a place that can get near to your heart in spite of its size, and it has come very close to our hearts [Mrs. Wilson's and mine].

**Speech at Fergus Falls, Minnesota
November 28, 1966**



The Wilson Years...

(Continued from page 6)

The Social Science Building, the School of Business Administration Building, and a general-purpose classroom building now named Blegen Hall for Dean Emeritus and Historian Theodore C. Blegen, began operation in 1963. A two-level bridge connecting the East and West Bank areas opened in 1965; a glass-enclosed walkway for pedestrians was completed a year later.

Now under construction is a new library, which will bear the name and preserve the memory of President Wilson for all time.

Also under construction on the West Bank is a new classroom building, William Anderson Hall, named for Professor Emeritus William Anderson, University political scientist.

A leader in the age of space science with its focus on atomic energy and radioactive materials, the University dedicated the Space Physics Laboratories in 1965 and the John H. Williams Laboratory of Nuclear Physics in 1966. In the near future lies the completion of the six and a half million dollar NASA Space Science Center.

In 1965, the University joined Augsburg College, St. Mary's Junior College, Luther Theological Seminary, Fairview Hospital, and St. Mary's Hospital to form the University Community Development Corporation.

The object of their concern is a common geographic area comprised of several Minneapolis and St. Paul neighborhoods. Meshing efforts to promote community conservation, rehabilitation, and improvement, they hope to make this area a better place to work and live.

Through the Planning Office, President Wilson has also stressed the importance of University cooperation with community planning agencies in the Twin Cities, Duluth, and Morris.

Under President Wilson's guidance, the quest for academic excellence took still another direction. In 1966, the University Board of Regents established the distinguished

position of Regents' Professor in order to honor outstanding members of the faculty. The first five Regents' Professors were named at Commencement in June, 1966; a second five were named at Commencement in March, 1967.

President Wilson said, "The establishment of the Regents' Professorship is both a recognition of the attained excellence of the faculty and a challenge to further achievement."

Recommending that expansion be made to eventually include about twenty such honored positions, he believes that such recognition will help to "attract bellwether professors of national prestige and strengthen and enhance the academic life of the University."

"Freedom and the University," a statement issued to the public by the Board of Regents in 1963, clarified and strengthened the University's position on academic freedom and academic responsibility. Emphasizing that "the only atmosphere in which a university can fulfill its assigned role is the atmosphere of freedom," the statement, printed in booklet form, was distributed throughout Minnesota.

Dr. Wilson lauded the responsible interpretation of academic freedom by students, faculty, and citizens of the State. He said, "The nature of the university is to be inquiring and abrasive to its society. Minnesota has reacted very well to this [challenge]."

At the same time, he credited healthy dialogue between administration and students for the absence of "extravagances of protest" at the University.

In addition to guiding the complex internal affairs of the University, President Wilson has also been its chief spokesman to the public, particularly to the people of Minnesota. In this role, one of his major responsibilities has been to bring the needs of the University to the attention of lawmakers, both on the state and federal levels.

Representative Rodney Searle, Chairman of the House University Committee, commented that "Wilson's rapport, his open-book policy, has brought the University closer to the Legislature than at any time in its recent history. He had to educate the legislators to the problems of the University — and he has been able to do it."

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