



STATE
GOVERNMENT
ISSUE



GOPHER GRAD

MARCH 1957

GOPHER GRAD

(Our 56th Year)

Continuing the Minnesota Alumni Weekly which was established in 1901, and the Minnesota Alumni Voice. Published monthly from October through June by the Minnesota Alumni Association, 205 Coffman Union, University of Minnesota, Minneapolis 14. Member of the American Alumni Council.

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In This Issue

	Page
NEW A-SMASHER	5
ALUMNI AMONG LAWMAKERS	6
FOUR REGENTS RE-ELECTED	11
LAW AND LIBERTY	13
SON OF TWO NATIONS	16
106 YEARS YOUNG	18
MATMEN TOP WINTER ATHLETES	28

NEWS SECTION

Associations-Clubs	22	Sports	28
On the Campus	24	Alumni	31

DEPARTMENTS

Back Talk	3	Summa Cum Laude	20
Editorial	12	Books	34

Cover Story

March, as a crucial month in the University year, will tell whether or not the University will be in a position to meet the rising tide of enrollment. For each legislative request, there are many and various reasons but, to see the situation at a single glance, Cartoonist Harry Wirkkunen created this month's cover. He compiled the sober statistics and turned them into lively symbols declaring, meantime, that he could not find the inspiration to highlight anyone of the appropriation requests because each was worthy of emphasis. What he did not show on the cover was that all of the appropriations are aimed toward another figure - 47,000 students by 1970.

Views of authors appearing in Gopher Grad in no way reflect the opinions of the MAA or the Gopher Grad.

GOPHER GRAD

BACK TALK

Paperweights for Grads

Ed:

May I suggest that you are really on the right track when you offer the tray, record and other items for sale to alumni. If you would send out a little catalog of the items designed to sell to undergraduates, we older and older grads can occasionally pick up some item that we might half-sheepishly use to add a touch to our den, home or office. Had your last mailing included such things as a set of paperweights made of heavy metal in the figure of a gopher or an ashtray or bookends, I might have succumbed to your blandishments.

Finally, you do have a really difficult job. The University is an educational plant of student factory to many of us. The brew of nostalgia is thin indeed. Some of us remember too well the too-busy pros and the only occasionally manifested institutionalized interest in us as humans. So now, when I make a donation . . . , it is towards scholarships (and) with a feeling for the young chap who needs 'a leg up.' Those five-dollar texts that cost me 15 hours of work are still vivid in my mind.

Karl Olson '40BA
Alberta, Canada

Hands Across the Ocean

Ed:

As an alumnus, I shall be keen to keep in touch with the doings of the University and I should like you to continue to send me the publication at my new permanent address in England.

P. F. Atherton '56MA
Lancashire, England

To Renew Friendships

Ed:

Just a line to let you know that my husband and I enjoyed the re-

cent meeting of the Northern California Club. We had a nice turnout and we had a good dinner.

My husband especially, enjoyed the movies of the football season highlights. I, of course, was proud of the showing of the Minnesota team.

Mrs. Eileen Fuste '41BSED
San Francisco

A Lifetime in Verse

Ed:

I am sending you a little book, *Biography in Poetry*, with the expectation that you will read it and enjoy it.

Edmund Gale Jewett '97BA
Clinton, Mass.

(We not only read and enjoyed

Writer Jewett's book, but we reviewed it. See section on books—Editor.)

News of '88

Ed:

Enclosed is a clipping announcing the death of Anna F. Shillock who, as far as I can learn, is the last of the girls in my class of 1888. I am the last of the "boys" in that class. Thirty-eight persons in all graduated that year, 10 of them women.

Albert Graber '88
Minneapolis

(We should like to take time out to salute the last member of the Class of '88 and, on behalf of the MAA, to wish good luck and good health.)

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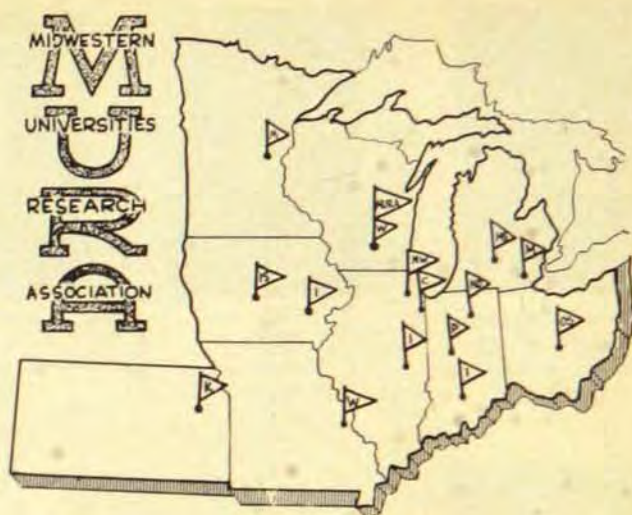
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Million ton, \$125 million
atomic project -

'U' Possible Site for New A-Smasher



(Drawing courtesy of the Wisconsin Alumni Ass'n.)

A University physicist says that Minnesota is being considered as the site of the world's largest atom smasher.

Prof. Lawrence H. Johnston, one of the 24 scientists working on the project between 15 universities and the Atomic Energy Commission, adds that the purpose of the \$125 million smasher is to explore the heart of the atom.

Other places under consideration for the equipment now being designed by the Midwestern Universities Research Association (MURA) are near Purdue, Wisconsin and Chicago universities.

Present plans call for construction to begin by the middle of 1959 and to be completed five years later.

According to Prof. Johnston, the decision of the site will be guided by three factors:

- (1) that the soil underneath the equipment is strong enough to stand firm under the massive weight of the atom smasher;
- (2) that the equipment is as close as possible to a major university;
- (3) that large tracts of land relative to the university are available.

The condition of the bedrock beneath soil is the most important of all considerations. In this, Minnesota ranks high. Under the state's top soil is a sandstone composition which has settled firmly during centuries of pressure from glaciers. This hardened base is capable of supporting the one million tons of the atom smasher.

A foundation which will not shift is an absolute necessity to maintain the perfect balance of the precision-built machinery.

The atom smasher will be constructed in a circle nearly one-half mile around. A heavy concrete wall will surround it.

In a garage in Madison, Wis., scientists are now

designing the equipment which will hurl atoms against each other at more than 99% the speed of light. (Light travels at 186,000 miles per second). Imagine the impact produced when two particles combining 30 billion volts of energy collide!

Even more exciting to the scientists is the possibility of what will be in the chips given off by the particles. Scientists guardedly believe that these chips may possibly open a world of energy even more impressive than atomic energy.

Present designs and tests are to find the best way to build the new atom smasher. The scientists are testing pilot models to determine the most efficient type of magnets, or the best means of producing a vacuum in a tube 500 feet in diameter, or a practical way to cool the accelerator which will generate as much heat as 10,000 electric stoves.

Out of the planning has come a new idea - instead of building one machine, why not build two? The new creation will be called a "Clashatron" and, according to physicists, a definite advantage is realized in having particles bombard each other like lead bullets from two machine guns facing one another.

Through the efforts of the MURA scientists, also, the building of accelerators is being perfected through completely original approaches to the problem.

MURA, incorporated in 1954 after scientists from several institutions realized their need for joint research facilities, currently is spending about \$110,000 a month in this planning phase.

On the MURA board of directors are two University men - Prof. John H. Williams and Mr. Larry R. Lunden (treasurer).

The nuclear physicists have made no specific prediction as to the ultimate value of their work. But similar research helped produce our present age of atomic energy.



Orville Freeman
'40 BA '47LLB
Governor
Minneapolis



Val Bjornson
'30BA
Treasurer
Minneapolis



Miles Lord
'48LLB
Att. General
Excelsior



R. R. Dunlap
'41LLB
Dist. 3 Sen.
Plainview



P. J. Holand
'24-25
Dist. 5 Sen.
Austin



W. J. Franz
'31BBA
Dist. 10 Sen.
Mountain Lake



Joseph Vadheim
'13-15
Dist. 12 Sen.
Tyler

Eighty-two Alumni

Minnesota state leadership has gained the services of 12 University alumni during the past two years.

Eighty-two members of the current legislature, including the Governor and two other executives, are former Gophers. Of these, 28 are among the 67 in the senate and 51 are among the 131 in the house of representatives.

Every alumnus who ran for reelection to the senate won his seat while 22 alumni gained seats in the house. Ten other representatives were defeated.

University graduates who are intimately concerned with directing state government

are Gov. Orville L. Freeman, '40BA '47LLB, Minneapolis; State Treasurer Val Bjornson '30BA, Minneapolis; and Attorney General Miles Lord '48LLB, Excelsior.

Freeman and Lord were reelected to a second term in office and Bjornson, a member of a well-known Minnesota newspaper family, was elected to his first term. He defeated the incumbent, Arthur Hansen. Hansen is a Ulen farmer.

Professional studies of legislators most frequently were taken in the law school, with 24 holding degrees from that college. The school of education ranked second with seven degrees and the schools of agri-



G. C. George
'11-12SchAg
Dist 19 Sen.
Goodhue



J. M. Zwach
'33BSEd
Dist. 14 Sen.
Walnut Grove



H. S. Nelson
'11LLB
Dist. 16 Sen.
Owatonna



Arthur Gillen
'41BSL '43LLB
Dist. 20 Sen.
South St. Paul



John A. Metcalf
'27BS
Dist. 21 Sen.
Shakopee



S. W. Holmquist
'36BBS
Dist. 26 Sen.
Grove City



Rudolph Hanson
'35BA '37LLB
Dist. 6 Sen.
Albert Lea



C. C. Mitchell
'15-18
Dist. 55 Sen.
Princeton



Henry Nycklemoe
'25LLB
Dist. 50 Sen.
Fergus Falls



Fred W. Behmler
'18BS '20MD
Dist. 48 Sen.
Morris



E. L. Andersen
'31BBA
Dist. 42 Sen.
St. Paul



Leslie E. Westin
'38AA '40BSEd
Dist. 41 Sen.
St. Paul

Among Lawmakers

culture (both on and off campus) ranked third.

The alumni now considering the University's future growth with other legislative problems are among the 435,000 persons who attended the University since it first opened the doors 106 years ago.

The acts of previous legislators have assisted in making Minnesota probably the most significant state university in the country. National and international recognition has gone to the University's medical school (one of the four greatest in the country) for the battle waged against both disease and destruction by aging.

The Variety Club Heart Hospital is the only one of its kind while, behind the doors of Technology, scientists have pioneered much in giving understanding and purpose to atomic energy.

The campus of the University literally is the map of the State.

The University has three campuses and eight agricultural stations comprising some 16,000 acres of land with over 176 major buildings. The Minneapolis campus has 199 acres; St. Paul, 711 acres; Duluth, 174 acres. Branch stations are located at Crookston, Morris, Grand Rapids, Duluth, Cloquet, Excelsior, Lake Itasca, Waseca and Rose



H. J. O'Loughlin
'23LLB
Dist. 40 Sen.
St. Paul



E. T. Swenson
'53-54Ext.
Dist. 43 Rep.
Stillwater



S. J. Fudro
'40-43
Dist. 28 Rep.
Minneapolis



Donald Fraser
'44BA '48LLB
Dist. 29 Sen.
Minneapolis



D. O. Wright
'12-14
Dist. 30 Sen.
Minneapolis



R. L. Mayhood
'35-36
Dist. 31 Sen.
Minneapolis



Charles W. Root
'34LLB
Dist. 33 Sen.
Minneapolis



Daniel S. Feidt
'32LLB
Dist. 34 Sen.
Minneapolis



C. E. Johnson
'14SchAg
Dist. 56 Sen.
Almelund



John H. McKee
'36-37
Dist. 62 Sen.
Bemidji



Donald Sinclair
'24BA
Dist. 67 Sen.
Stephen



Dewey Reed
'34BSEd
Dist. 45 Rep.
St. Cloud



R. W. O'Dea
'44
Dist. 43 Rep.
Mahtomedi



J. T. Anderson
'49ALA
Dist. 42 Rep.
St. Paul



D. T. Franke
'46BA '52LLB
Dist. 4 Rep.
Rochester



C. G. Olson
'48AA '51BSEd
Dist. 9 Rep.
St. James

Their Support Makes

mount. The Hormel Institute is in Austin and the Mayo Foundation is in Rochester.

The University has thirteen colleges plus Duluth, and 136 departments. The Institute of Agriculture is the largest with 32 departments, followed by Science, Literature and the Arts with 31 departments.

With a total of 25,307 students, the University is one of the largest in the country. (The University by the mandate of the people has always been large. In 1910, student enrollment was over 5,000).

Actually, more than 31,000 different students matriculate during the course of a school year. Added to this is the non-collegiate enrollment of over 27,406 and the enrollment of the Extension Division of

26,741 studying throughout the state.

The total adds up to over 80,000 people of the State of Minnesota who have had their educational needs met by the University of Minnesota.

The University takes care of about 50% of those going on to higher education. The other 50% go to other State schools and private colleges. However, indications are that the private colleges intend to become even more selective. In such case, the public colleges and the University must bear the brunt.

Since the nation's birth rate has increased 100% in the past 20 years, the University, big now, is going to get a lot bigger.

Figures of the past and estimates of the



A. H. Ogle
'40LLB
Dist. 8 Rep.
Mankato



Sam Franz
'32Ag
Dist. 10 Rep.
Mountain Lake



Don Mitchell
'28SchAg
Dist. 11 Rep.
Round Lake



L. Cunningham
'47BSAg
Dist. 12 Rep.
Pipestone



C. B. Warnke
'53-56
Dist. 13 Rep.
Wood Lake



C. A. Jensen
'48BSL '49LLB
Dist. 14 Rep.
Sleepy Eye



P. S. Popovich
'42BA
Dist. 40 Rep.
St. Paul



D. D. Wozniak
'48LLB
Dist. 39 Rep.
St. Paul



L. E. Lindquist
'39BSL '39LLB
Dist. 36 Rep.
Minneapolis



Alf Bergerud
'27LLB
Dist. 36 Rep.
Edina



H. J. Anderson
'38-39 Ext.
Dist. 33 Rep.
Minneapolis



G. A. French
'25LLB
Dist. 33 Rep.
Minneapolis

'U' World Leader



H. J. Kording
'24-40
Dist. 32 Rep.
Minneapolis

future show 23,399 students in the fall of 1955; this fall, 25,307; by 1960; 31,800; by 1965, 38,900; and 47,000 by 1970.

It takes a lot of faculty to serve that number of students. On the faculty are 3,250. On the staff are 4,729. This is a total of 7,979 in teaching and service positions.

The greatest percentage by far of University income is spent for instruction and, also, for research.

From the point of view of dollars and cents, the University already is big business, all of whose expenditures are made within the state.

For the year ending June 30, 1956, University expenditures were over sixty-one million dollars — over five million dollars a

month for each of 12 months.

Because the University is a state-supported institution, it is commonly believed that all the money to run the University comes from state funds. In fact, the amount of State support varies each year. In 1955 it was 40.3%. In 1956 it was 39.1%.

Up until now, State funds accounted for about 2/5ths of the University's budget in any one year.

Other sources of University income are: Trust Funds 19.7%; University Services and Revolving Funds 17.4%; Fees and Receipts 16.8%; Federal government 3.1%; Intercollegiate Athletics 2.0%.

The money received from the legislature, however, is essential to the on-going



T. N. Christie
'25Ext.
Dist. 30 Rep.
Minneapolis



H. R. Anderson
'35-36 AgEd
Dist. 15 Rep.
North Mankato



M. E. McGuire
'52LLB
Dist. 17 Rep.
Montgomery



R. L. Voxland
'22SchAg
Dist. 19 Rep.
Kenyon



J. M. Fitzgerald
'41LLB
Dist. 21 Rep.
New Prague



O. Enestvedt
'25-27WCenSch
Dist. 23 Rep.
Sacred Heart



G. W. Swenson
'35LLB
Dist. 27 Rep.
Buffalo



D. F. Anderson
'23WCenSch
Dist. 47 Rep.
Starbuck



H. A. Wilder
'30-31NWSch
Dist. 66 Rep.
Crookston



B. J. Bergeson
'36 NWSch
Dist. 64 Rep.
Twin Valley



F. A. Cina
'30LLB
Dist. 61 Rep.
Aurora



C. M. Iverson
'15-16
Dist. 48 Rep.
Ashby

of the University. It supports instruction, research, public service, administration, maintenance of buildings and grounds, including the Institute of Agriculture, and the Duluth branch; also the University Hospitals, special projects, including agricultural extension work, the rehabilitation of and additions to old buildings, and construction of the new buildings.

Once before the University experienced a student bulge. That was after World War II. From the spring of 1947 to fall of 1947 the University doubled its enrollment—from 14,000 to 28,000 students. The University somehow took care of the unex-

pected flood of students but the all out effort extended was a spurt to meet emergency conditions.

This new flood of students is different. It's foreseeable and it's permanent. While the appeal to legislators has indicated that this expanding era of education for an ever-increasing population is a "problem of the University," observers say the situation shows this reasoning to be somewhat inaccurate. The problem belongs to the people of the state and, even more immediately, it belongs to legislators meeting to decide the course of higher education for Minnesota's youth.



V. Shipka
'46BAUC
Dist. 52 Rep.
Grand Rapids

Alumni in the Senate whose pictures were unavailable at the time of publication are Harold Kalina '51BSL '53LLB, of Minneapolis, Dist. 28; John L. Richardson '51BA '53BSEd MED of St. Cloud, Dist. 45; and Gordon Rosenmeier '28BSEd of Little Falls, Dist. 53.

Alumni in the House whose pictures are missing include Roy H. Cummings '47BSAg of Luverne, Dist. 11; Emil C. Ernst '22-23 of Lester Prairie, Dist. 22; Karl F. Grittner '48-50 of St. Paul, Dist. 39; H. P. (Pat) Goodin '35Ext. of

Minneapolis, Dist. 35; August B. Mueller '35-36 of Arlington, Dist. 15;

Donald McLeod '49-52 of Lewiston, Dist. 2; A. F. Oberg '38Ext. of Lindstrom, Dist. 56; Cliff Ukkelberg '27SchAg of Clitherall, Dist. 50; Edmund C. Tiemann '48-50 of Sauk Center, Dist. '46; Roger Noreen '44BSL '48LLB of Duluth, Dist. 57; E. J. Tomczyk '41-48Ext. of Minneapolis, Dist. 28; M. C. Schumaun '29-30 SchAg, of Rice, Dist. 45; Walter K. Klaus '35-36 of Farmington, Dist. 20; and George P. Wetzel '43BSL '48LLB of Little Falls, Dist. 53.



G. Gerling
'44-45
Dist. 53 Rep.
Little Falls



Lawrence Yetka
'47BSL '48LLB
Dist. 54 Rep.
Cloquet



O. L. Johnson
'44-45MortSc
Dist. 54 Rep.
McGregor



C. E. Campton
'13BAEd
Dist. 57 Rep.
Two Harbors

Four Regents Reelected

Four Minnesota leaders have been reelected to the Board of Regents by a joint session of the state senate and house of representatives.

The four are Richard L. Griggs '07BA, Duluth; Ray J. Quinlivan, St. Cloud; George W. Lawson, St. Paul; and James Ford Bell '01BS, Lake Minnetonka.

The Regents are elected for six year terms — four of the 12 are elected at each session of the state legislature. The Board is responsible to the legislature.

Before the roll call vote was taken during the elective session, Rep. Vladimir Shipka, chairman of the house University committee, told the legislators it "would be wasting time to speak for these men — they are so well known to all the members."

The Regents, by a rule in the state constitution, "provide the inhabitants of this state with the means of

acquiring a thorough knowledge of the . . . branches of literature, science and the arts."

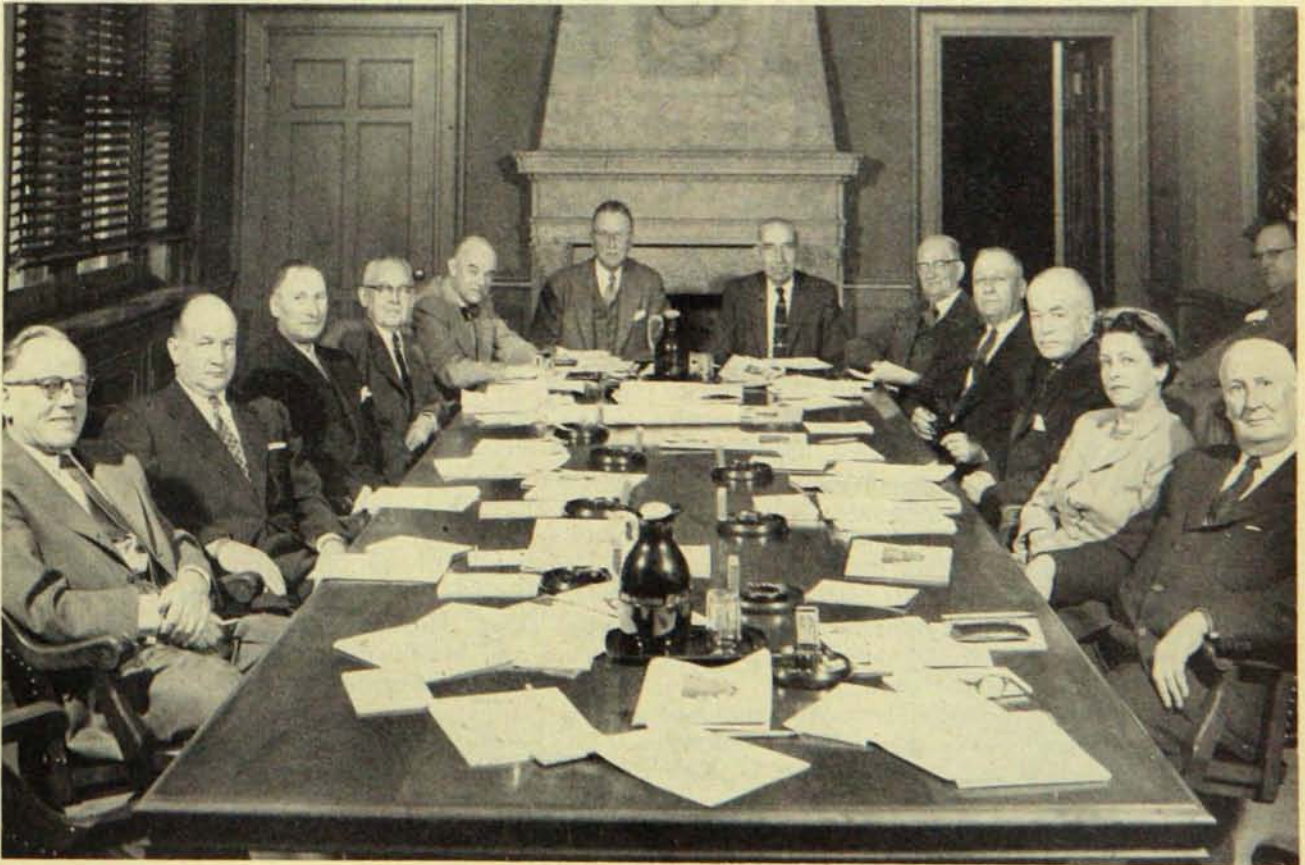
Beginning with no land — only the directive to purchase land in the region of St. Anthony Falls —, the first 12 Regents and their successors built an institution ranking among the best in the nation.

To accomplish this, the Regents were given almost autonomous authority. They have had the right to make all the laws, rules and regulations relating to the organization and administration of the University.

They hire and, if necessary, fire the administrative officers, supervise the conduct and methods of the teaching staff and act as a disciplinary body.

They may also determine the amount of respective salaries, provided that the salaries thus determined shall be submitted to the legislature for its approval.

Left to right: Regents Gaïney, Malkerson, Skyberg; Business Vice Pres. Middlebrook; and Academic Vice Pres. Willey; Pres. Morrill; Regents Quinlivan, Lawson, Olson, Mayo, Howard, Griggs. In the background (right) is Pres. Assistant Stan Wenberg. — (Minneapolis Star photo).



Where do students come from
and, after graduation, where
do they go? —

facts and opinions from
the alumni secretary

The Questions Asked Most Often

Dear Gopher Grad:

As enrollments rise a question often asked is, "Where do the students attending the University come from and, upon graduation, where do they go?" The taxpayer seems to want assurance that most of the students come from the state itself—and that the majority will remain in the state after graduation.

In this day and age when the world is fast-shrinking, when Maine is less than four hours from Paris (military-wise), and the people of the world are constantly on the move, this somewhat provincial attitude is curious indeed. Naturally, it is important to know how well the University serves our youth. However, one cannot expect all graduates to stay in the state.

The University beyond any question should first serve the youth of Minnesota. It should not under any circumstances keep out able students who want to matriculate at the University for training in special fields. In fact the University should do everything in its power to entice the most able students to enroll. Such a policy would directly benefit not only the University but the whole economy of the state.

Where do the students come from and where do they go after graduation? Here are the facts:

Of the total student enrollment, 87% are from the state; 11% from other states and territories; 2% from foreign lands (1955-56 figures). Of state students, 56% are from the metropolitan area (that is, 40% from Hennepin County and 16% from Ramsey). The other 44% come from the rest of the 85 counties of the state.

St. Louis County had 2,625 students. (This is, of course, because of the Duluth Branch of the University.) Olmsted County had 452 students, Dakota County 274, Carlton 249, Washington 224, Goodhue 218, Stearns 214, and Itasca County 208 students. Two of the remaining counties had more than 175 students; four more than 150 students; four others had more than 125 students; fourteen counties had more than 100 students; twelve more than 75 students each; twenty-four counties had 50 or more students each; thirteen had more than 25 students each; three counties had less than 25 students each.

Of the 11% out-of-state students, Wisconsin had the largest number—17%. Iowa, North Dakota, and Illinois had 8% each; South Dakota 7%; New

York 6%; California 4%; Michigan and Pennsylvania 3% each; Montana, Ohio and Texas 2% each.

A goodly number of students come from our own natural trade area—from Wisconsin, Iowa, North Dakota, South Dakota, Michigan, and Montana. All the 48 states were represented as well as the territories of Alaska, Panama Canal, Hawaii, Puerto Rico, and the Virgin Islands.

Some 43% of the out-of-state students were in the graduate school. The rest are in SLA (16%), Education and Technology (7% each), and 4% each in Agriculture and Nursing; 3% in Dentistry; 2% in Public Health and Business; 1% in Veterinary Medicine. The remaining 10% were spread among the various colleges. Here one should note that many out-of-state students are in fields where a particular shortage exists.

Foreign students come from sixty different countries. The greatest number are from the British Commonwealth in Europe, Asia, Africa, and North Africa. Korea has the next greatest number. (This is due to the University's close relationship to the University of Seoul). Other countries with over 20 students at the University are Chile, Japan, West Germany, and Egypt.

Sixty-four percent of the University graduates stay in the State—26% in Minneapolis and 11% in St. Paul. Some 27% are scattered throughout the rest of the state. While the greatest number of graduates are to be found in the larger communities of the state, actually there is not a single one of the 786 incorporated units of Minnesota where there is not a Minnesota graduate. They are to be found in numbers, too, in the unincorporated units such as the farms and open country.

The 36% who eventually leave Minnesota scatter throughout the 48 states. Of this group 2% reside in places other than the continental United States. States that seem to draw Minnesota graduates are, in order of greatest number: California, Wisconsin, Illinois, New York, Washington, Iowa, Michigan, Ohio, South Dakota, Pennsylvania, Texas, Montana, District of Columbia, Virginia and Missouri. Maine and Vermont are the two states that seem least attractive to Minnesota graduates.

Two percent of Minnesota graduates reside in some 60 foreign countries, with the largest num-

(Continued on page 14)

*The good tomorrow depends today
on those educated to safeguard
the vital social combination of—*

Law and Liberty

Dr. J. Roscoe Miller

The making of new and the breaking of old rules is the story of a calculated risk as well as of the progress of mankind.

To unleash men that they may exercise the God-given capacity to inquire, to examine and to speculate is noble indeed. But, at the same time, it is a gamble that we can inculcate in each individual certain standards to enable him to distinguish between the good and the evil. We risk further that he will be able to choose between the significant and the insignificant and between that which ennobles and that which debases.

In short, we place our trust in each individual to act upon his knowledge.

Through our educational process we take the risk that these things can be accomplished. However, the process I refer to is not only classroom education but also education of the home, the church, and other institutions whose responsibility is as great or greater than that of the schools. True, to educate is to attempt to establish direction, but that is one thing and dictation is another. The critical question is this: is there a choice?

On one side of our path is the rut of conformity and autocracy; and the other side is the swamp of license and anarchy. You and I have been able to participate in a great and free university because, by and large, our society has successfully combined law and liberty as it traversed the road from the past to the present.

Never forget that the educational opportunities and freedoms you have enjoyed, and the opportunities before you in adult life, are a direct result of the fact that the people of this nation have been able to effectively combine law and liberty.

Your obligation to both the past and to the future is to accept and to carry your full measure of responsibility for the preservation of that delicate combination.

Our nation has been blessed with plenty. Because of this and because of a judicious combination of law

and liberty, we have developed a society whose unparalleled material prosperity is the envy of all peoples. We have actual freedoms that are but the aspirations of most. We have aesthetic accomplishments that can no longer be haughtily dismissed.

Under these conditions, it is easy to conclude that our progress is inevitable, that the future is certain to be rosier than the past, that this is "the American century."

How many times have you seen the facts of our progress paraded before you with the optimistic assumption that there is no direction to go but forward.

But we are a little lower than the angels. We are human. We can fail.

It is said that "what is past is prologue." To those of us who wish to be realistic about the possibilities of the future, this certainly is no great comfort. There was a lot of history recorded before the United States of America came into existence.

History's lesson is that progress, whether of an individual or a nation, is neither inevitable nor the re-

Dr. Miller, a medical doctor who has been president of Northwestern University since 1949, presented these remarks as part of a recent speech in Northrop auditorium.





Upward Through Learning

sult of happenstance. Rather, progress comes through effort of the human will. The archives of history are strewn with the wreckage of societies whose citizens—rich, powerful, and filled with pride—neglected not the condition of their armaments but of their hearts and spirits.

The men and women who built this nation—the colonists, the men and women who broke the sod of Minnesota and other prairie states, those who pushed on to the Pacific shores, and the leaders in science, in industry, in the arts—none of them assumed that progress was inevitable. They knew they had to work for it and when need be fight to protect what they had achieved.

What upheld them was not an easy—indeed, a cheap and deceptive—belief in the inevitability of progress. No, rather it was the faith in their ability to work out their own destiny in a bountiful land where law and liberty reign together in harmony.

The opportunities you have enjoyed through this university are opportunities enjoyed by a precious few in the world's population. These opportunities were extended as part of your inheritance as an American. Treasure the knowledge of the fact as your richest possession. Treasure it not with the bumptious display of the professional flag-waver but with a true and humble spirit of thanksgiving.

Such opportunities will not belong to generations to come if the path into the future is lighted just by optimism. Optimism will be justified only if the path is lighted in equal measure by faith, courage, and the will to work unceasingly through whatever means are available to you in your professional careers and in your careers as citizens to protect and to extend the achievements of those who have gone before.

Questions Asked Most

(Continued from page 12)

ber living in Canada, India, Philippines, Norway, Sweden, West Africa, Mexico, Germany, and Egypt.

Obviously some professions such as engineering cause people to move about more than others. Likewise some of the professions (especially the Medical Sciences) seemingly are more affected by military service than others. Many in Medical Sciences seem to leave the State because of military call, never to return afterwards. A breakdown of graduates by college, indicating the percentage that remains in Minnesota, is as follows:

Architecture	63%
Nursing & Ocp. Therapy	59%
Civil Engineering	59%
Mechanical Engineering	59%
Medicine	58%
Ag. Engineering	58%
Forestry	56%
Electrical Eng.	51%
Chemical Eng.	43%
Mining & Met. Eng.	40%
Aeronautical Eng.	38%
Grad. School	36%
General College	87%
Duluth Branch	87%
Pharmacy	83%
Law	71%
Veterinary Med.	71%
Business Adm.	70%
Dentistry	69%
Agriculture	68%
Education	68%
SLA	66%
Home Ec.	65%
Med. Technology	64%

While in some cases the losses seem large, we must not forget that people go where opportunity or circumstance calls. This, of course, works to the state's advantage as well as its disadvantage. While we lose some of our graduates, we seem to gain (in almost the same proportion) graduates from other colleges who move into Minnesota for business or other reasons.

Ours is a most distinguished University. Yet, it is what might be termed (and not to our glory) a home grown, provincial University—87% of the students coming from the State itself, and with 64% of the graduates remaining in the State.

Alumni can feel good to know, though, that we don't completely shut the doors to students of ability who desire to study at our University.

Sincerely,

Ed Huselet

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SON OF TWO NATIONS

A 1933 graduate in medicine who gave up sociology to fight infectious diseases has become an "adopted son" of a Filipino city.

Dr. Horace DeLien, since 1951 the chief of health and sanitation of the U.S. Operations Mission to the Philippines, was given the title in recognition of his services to the islanders by the Municipal Council of Gapan, hometown of Dr. P. J. Garcia, the nation's secretary of health.

For the square-shouldered, athletic-loving Dr. DeLien, whose mission is over this spring, the honor was the type of gesture he had hoped most to receive. He had gone to the Philippines to see what contribution a DeLien could make in time of peace because three members of his family served there in time of war.

DeLien, in planning ways to improve health service to the Philippines, traveled some 45,000 miles over some of the roughest terrain outside of Korea. Together with Health Secretary Garcia, he had taken boat, plane, car and just plain legmobile into almost all of the provinces. From these travels and meetings, the two doctors completed the health reorganization plan which the president of the Philippines asked congress to accept last year.

One of the epoch-making trips the two doctors made was to the Babuyan Islands (a small group on the northern tip of Luzon) where the incidence of malaria was found to be as high as 85% in some communities. For the 3,000 inhabitants, the visitors were their first since the second world war. However, the rough and ragged coastline which kept out visitors also had kept out medicines and professional care for the malaria-ridden population. To combat the difficulties of getting outside aid, the doctors set up clinics on the islands. In addition, they worked out a plan to try to give health service on a continuing basis.

In the wilds of this jungle territory, Dr. "Pete" (as

the Filipinos called him) found that home was never far away. One day while in the Babuyans, he stopped by a creek to treat an injury to his leg and was surprised by a young barefoot mother and child coming out of the jungle.

"Hello," he said, "it's quite a warm day, isn't it?"

"Oh, she answered," it just as hot as I remember the summers in Michigan."

DeLien's immediate objectives during his tour were to guide the reorganization of the national health program and to establish regional training centers. However, he has also inspired the creation of programs for malaria control, health education of the public, hospital rehabilitation, personnel training and for sanitary water supplies.

Several times he participated in regional World Health Organization meetings in Japan and India and, at the end of last year, he and Dr. J. C. Orendain '18-'20 were special envoys of Filipino President Mag-saysay to assist the Republic of Vietnam in basic organization. DeLien advised President Ngo Dinh Diem in health matters and Orendain, now a Manila attorney, assisted in the writing of the Vietnam constitution.

The doctor's history before the tropics reads like a Jack London story. Before and during college, he worked on the railroad, split rails in the north woods, and took turns in a boiler factory, on a farm, as a baker, as a waiter and on a police detail.

Under the guidance of Dr. J. Arthur Myers of the University, he turned to medicine and, after graduation, combined his interest in sociology with his profession and moved to the dust bowl area to serve as health officer. The Winnebago Indians named him "Chief Flying Sky Eagle" before he went to study and treat tuberculosis among some 18,000 Alaskans living on 13 islands off the coast of Southeast Alaska. His next health outpost was the Philippines.



“Telephones are ubiquitous?”

“Yes, telephones are ubiquitous”

Robert Day, the well-known cartoonist who drew this picture, was a little afraid there might be some people who wouldn't know what we meant by ubiquitous. “It's a pretty big word,” he said.

“Don't worry,” we told him. “We'll just put in a little reminder that the dictionary says ubiquitous means 'existing or being everywhere at the same time.'”

There's surely no better way to describe telephones! They're not only in millions of homes and offices but just about everywhere you go. In stores and at gas stations! At airports, bus depots and railroad stations! Out-of-doors!

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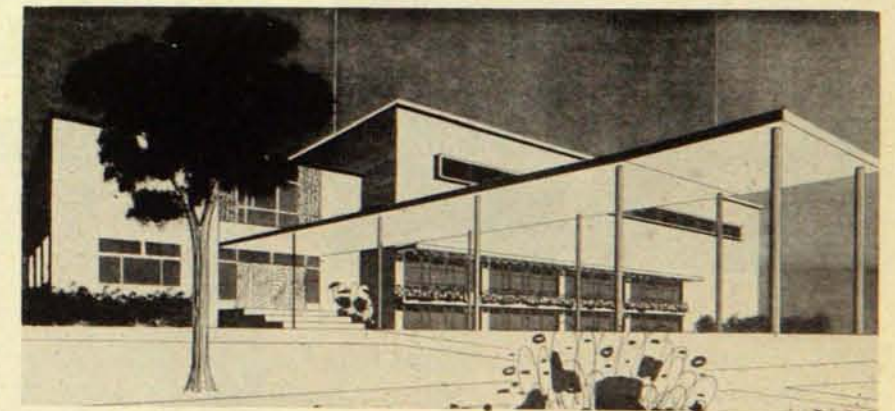
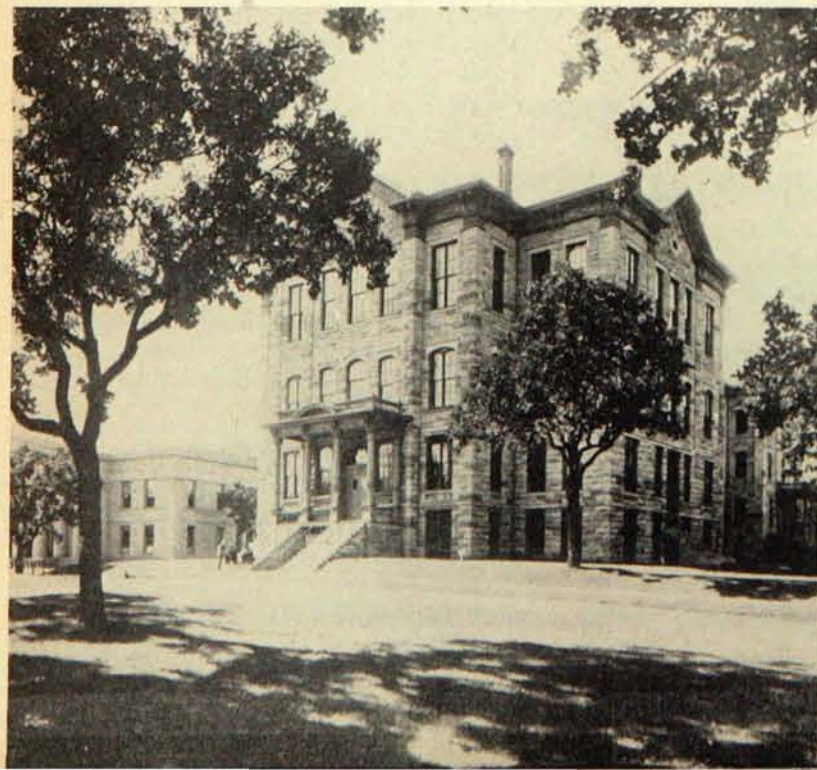




106 Years Young

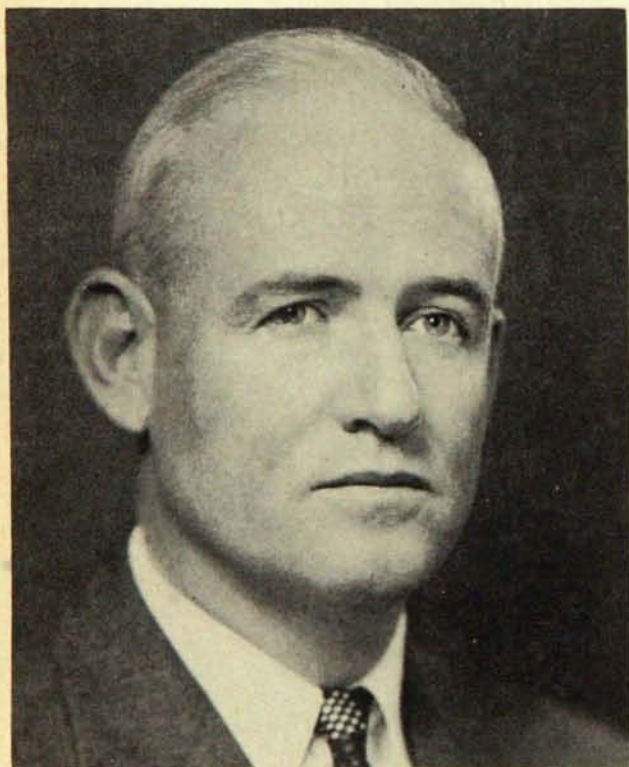
Charter Day—Feb. 28—this year commemorated the 106th birthday of the University. During these years, the University granted more than 135,000 degrees. As is often the case, the measure of growth and the contribution to progress must be relegated to statistics such as these—to figures which do not tell of the benefits to people themselves, or to a community, a state or to a nation. By the same token, development is often more easily seen in the obvious changes. Some of the buildings pictured here reflect the passing of time but hardly begin to encompass the real change which has made the University one of the world's ten greatest during a century of progress.

Counterclockwise: Early landmark of the campus, Old Main, destroyed by fire (after surviving a fire) around the turn of the century; Folwell Hall, named after the first president (1868-1884), is still a hive of activity; Eddy Hall first did duty as the Mechanic Arts building when, in about 1886, the Legislature was persuaded to give that department a home of its own; Variety Heart Hospital was completed in 1950 and the Mayo Memorial building was ready four years later; no memories for the Farm Campus Union yet because it is not complete; plenty of memories as Regent Ray Quinlivan (left) and Academic Vice President M. Willey cut the birthday cake with the help of the newest additions to the campus each year, the students.



SUMMA CUM LAUDE

To



. . . *Research Executive*

Dr. Frank W. Hurd on being appointed Director of Research of Union Carbide Nuclear Company, a Division of Union Carbide and Carbon Corporation. Dr. Hurd has been identified with Union Carbide's activities in the atomic energy field since 1943 when he joined the Manhattan Engineering District as a senior research scientist. The following year he moved to Oak Ridge where, in 1949, he became Superintendent of the Gaseous Diffusion Plant Laboratory. In 1954, he transferred to Niagara Falls to become Group Manager of the Metals Research Laboratories, later coming to New York to the Research Administration of Union Carbide and Carbon Corporation. Hurd received a PhD degree from the University of Minnesota in 1939. He is the author of several classified articles related to atomic energy.



. . . *Distinguished Citizen*

Major General Leif J. Sverdrup on being honored as the *St. Louis Globe-Democrat's* "Man of the Year." An engineer heading the St. Louis firm of Sverdrup and Parcel (a former U professor), he has gained renown as a builder of bridges, a soldier of two world wars (the second of which he served under Gen. Douglas MacArthur in the Pacific), and as a consultant to the U.S. government. After receiving nine citations for Pacific military duty, he was invited to be present at the signing of Japan's capitulation. He is a boy scout leader, a road planner and a farmer. The University awarded him a BSCE in 1921 and an outstanding achievement award in 1950.

The Real Mac GUF

Robert P. Provost
Director of the Greater University
Fund (GUF)

The dictionary describes "scholarship" as knowledge acquired by study. A scholar is further defined as one who attends a school — a student. In 1957, the word scholarship is used predominantly by all of us to define financial assistance given to a student.

What is a scholarship? A scholarship is student financial aid designed to assist, encourage, and advance anyone who is trying to better himself or his community through education. Briefly, this objective is accomplished by using scholarships:

1. To encourage the capable but financially needy student to attend college;

2. To enable the capable student already enrolled in college to continue his studies; and,

3. To recognize distinguished scholastic achievement.

The University of Minnesota gives primary emphasis to encourage the capable but financially needy high school senior to go on to college. This is the platform on which the Minnesota Alumni Scholarship Program is based. Somewhere between six and seven hundred applications will be received from the high schools of Minnesota this year for the limited freshman scholarships that the University has available.

George B. Risty, Director of the Bureau of Student Loans and Scholarships, has said that once the student is helped over financial hurdles of the first year or two of college, his chances of continuing are greatly improved.

Are scholarships important in a tax-supported institution? Yes, they are. They complement the investment that each of us has in our University and give proof to the statement, "a sound investment in the future."

MARCH, 1957



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Scholarship Winner



E. Contance Balcom, a graduate student in Library Science at the University, is the first winner of the Irene Fraser Jackson memorial scholarship. Mrs. Jackson '24BSEd, '29BSLibEd, lectured at the University in the division of library science in 1939, '40 and '41. She was employed in the Minneapolis public libraries until 1945. The scholarship was established by her husband, Raymond, shortly after Mrs. Jackson's death in 1955.

Ag School Alum To Meet Mar. 10

The school of agriculture alumni meeting will be held at the St. Paul campus on Mar. 10, according to an announcement from the short course office of the institute of agriculture.

Business Alums Extend Term of '56 Officers

The length of service for present officials on the school of business alumni association was extended by a half year through a vote at the third annual alumni institute in January.

The membership took action to avoid the possibility of being without officers between June 31 (when the present term of service expires) and next October or November, the expected time of the next general election.

The date of this year's meeting, however, was six months before the officers' terms expired and about one year before the next meeting.

IT Alumni Plan May Faculty Dinner

A dinner meeting to which institute of technology faculty would be invited was tentatively set for May 8 at the February board meeting of the IT alumni.

The meeting, held in Coffman union, was conducted by Milton S.

Wunderlich '19BSEng '20ME, St. Paul.

Otto Pfeifer, Jr. '29BME '35MSME reported on the work of the scholarship committee, indicating that each division chairman had received a folder of instruction on the scholarship solicitation and procedure information. Also, the committee had made available a complete list of IT scholarships presently being handled by the Bureau of Loans and Scholarships. Pfeifer also requested that small firms and individuals be contacted.

The membership agreed that each group should set a goal of five scholarships.

In other business, the topic of "Engineering Training" was suggested as a possible panel subject for the next annual institute.

Petitions Welcome

MAA ExSecy Ed Haislet has announced that the Board of Directors will accept nominations for MAA board members by petition.

All nominations by petition must be in the alumni office by March 20.

Association members will have the opportunity to vote for their candidates by means of the ballot which will appear in the April and May issues of *Gopher Grad*.

Phoenix MAA Holds First Dinner Meeting

Sixty four Phoenix-area alumni and friends attended their first local MAA dinner meeting recently and set March as the date of their next session.

Movies of the football season were shown as a part of the program arranged with the assistance of Royal J. Ziemer '31BSEd.

Northern California Honors Business Leader Poole

Arthur B. Poole '17BA, vice president of American President Lines, was named for the honor of the 1957 achievement award given by the Northern California MAA at the Belmont Casino near San Francisco, Feb. 21.

Cocktails, dinner and dancing were also on the evening program.

Hugh Morrison '27-30, secretary of the club, was in charge of reservations.

Cronin Wins 2nd Term as Dads' Head

Carlton R. Cronin of Minneapolis was re-elected president of the University of Minnesota Dads association for a second one-year term at a meeting of the organization's board of directors on the campus Thursday evening (Feb. 14).

L. W. Bathke of Waseca was named vice president, and Lee B. Primus of Maple Plain was elected secretary. The association is made up of fathers of University students.

In the business session, a special committee reported that plans to buy blazers for the Men's Glee Club were at a stalemate due to unforeseen complications as a result of an earlier attempt by a student

group to raise money. The committee indicated that a meeting with Prof. Richard Paige, head of the Glee Club, has been arranged and, after this session, the group would decide on a course of action.

A report on the Emergency Fund indicated that an additional sum of \$100 had been turned over to the Bureau of Loans and Scholarships for small loans to students.

Quackenbush Named '07 Reunion Leader

Harry C. Quackenbush, Minneapolis, was unanimously voted to head the six-alumni committee planning a Class of 1907 reunion on Cap and Gown Day, May 23.

The group met with Ray Chisholm, acting secretary, in mid-January at Coffman union. Present were class members Mrs. Montreville J. Brown, St. Paul; Dr. Earl A. Loomis, Minneapolis; Walter B. Hobert, Minneapolis; Dr. Clarence Maland, Minneapolis; Harry C. Quackenbush and Frank C. Hodgson, St. Paul. Another member, Mrs. Frederick T. Paul, Minneapolis; telephoned the alumni offices after the meeting.

Two hundred eleven addresses

College of Education Sets Mar. 8 Meet

A meeting to consider the spring membership drive and a possible May coffee hour for education seniors will be held by board members of the college of education alumni association in Coffman union, Mar. 8.

Date of the annual meeting of the constituent group was set in February for this coming July 10 on campus.

At the February meeting, also, Gordon Mork '42MA '53PhD was named chairman of the nominating committee which will present a slate of officers at the July meeting. Others on the nominating committee are L. S. Harbo '32MA and Semore Gordon Nelson '48MA.

of 1907 graduates are known and 90 are unknown, according to Mr. Chisholm. Among the alumni of this class is the newly-reelected University regent, Richard L. Griggs of Duluth.

Herbert Bolsta Elected Ortonville President

Herbert Bolsta '18LLB was elected to succeed Elwood Thronrud '47BSAg as president during the second annual Charter Day meeting of the Ortonville MAA held late in January.

Other officers named at the meeting attended by 40 alumni were Dr. Roger R. Nolop '36DDS, vice president; Semore G. Nelson '48MA, secretary-treasurer; and Bob Pflueger '47BSUC '49LLB, member of the board of directors.

New York Plans March Banquet

Lloyd J. Westin '30BEE of New York, chairman of the alumni group in the New York area, has announced that a March banquet meeting is being planned around a nationally-known personality, as yet unnamed.

The March event closely follows the meeting at the Scandinavian Club in mid-February. This affair was an "all free" party in which various alumni donated the party fixings.

Backfield Coach To Address Philadelphians Mar. 15

Billy Murphy, backfield coach for the Gophers, will be the main speaker at the Philadelphia alumni club meeting on Mar. 15.

The meeting will be held in the Viking Inn at Ardmore, Pa.

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Minneapolis, Minnesota
Margaret Jeane Sullivan '55BSEd
Grand Rapids, Minnesota
Dawn E. Tornquist '52BSEd
Aurora, Minnesota

MARCH, 1957

Library Gets Memorial Volume from Women's Club

The Women's Faculty club has presented the library with a book listing the names of all deceased faculty and staff members in whose memory gifts have been made to the Greater University Fund.

Among the university names familiar to many former students are Dr. Walter C. Coffey, former president; Dr. James T. Hillhouse, professor of English; Dr. William A. Schaper, professor and chairman of the political science department; Dr. Andrew T. Rasmussen, professor of anatomy. The first entry in the book—dated 1953—is the name of William Jenkins, instructor in clinical psychology.

The GUF fund will be used for such projects as rare books for the

library, freshman scholarships and cancer research. To date, \$3,107 has been contributed to the fund, established by the university Faculty Women's club in cooperation with Dean Theodore Blegen of the graduate school and the GUF.

Family Life Program To Be Expanded

Forthcoming expansion of the University of Minnesota's family life program was disclosed with the naming of Reuben L. Hill, Jr., as professor of sociology and child welfare. His appointment, effective next September, was approved recently by the University Board of Regents.

Under the proposed expansion plan, Hill will teach new family life courses, direct and carry on research and, with the aid of others, provide leadership in effecting more cooperation among the University's family life activities.

Noted for his work on "the family," he has written many research articles and a number of books including "Families Under Stress," "Family, Marriage and Parenthood" and "The Family."

In explaining the family life expansion, Dean E. W. McDiarmid

Casey Nominated as Broun Award Judge

Dr. Ralph D. Casey, director of the school of journalism was one of three judges who selected William Turner and William Lambert of the Portland *Oregonian* for the Heywood Broun award.

The annual citation, sponsored by the American Newspaper Guild, is given for outstanding journalistic achievement.

Dr. Casey's associates on the jury were Martin Agronsky, Washington correspondent for the American Broadcasting Corporation, and Thomas Griffith, senior editor of *Time Magazine*.

of the college of science, literature and arts said:

"It is proposed to offer additional courses in the family so that we may provide a greater range of knowledge to our students and to professional personnel who treat marriage and family problems, to provide personnel and facilities for more fundamental research in family problems and the evaluation of therapeutic and preventive procedures and programs, and to provide leadership in stimulating more cooperation in and coordination of the University's activities in the family life area."

Three Commencements on March Farm Calendar

Commencements at North Central School, Grand Rapids, and at West Central School, Morris, are slated this month in addition to the regular Mar. 20 commencement of the School of Agriculture, St. Paul.

Ceremonies at Grand Rapids will be held on Mar. 28; at Morris on Mar. 29.

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Regents OK New Korean Contract

The University of Minnesota Board of Regents Friday approved a two-year extension of the University's contract with the International Cooperative Administration (ICA) which provides for University aid to Seoul National university in Korea.

The Regents also amended the contract to include organization of a new public administration program to be added to the areas of agriculture, engineering, medicine and nursing already established. Essentially, the new program would be designed to train men for government service.

A preliminary survey crew of five University faculty members will be sent to Seoul to determine the type of public administration program most suitable to the Korean university's needs.

The original contract, signed in 1954 to help reconstruct the bomb-damaged Korean university, would expire in September 1957 but now will run for two more years. The contract provides for an exchange of faculties in which the University of Minnesota staff members teach in Seoul and Korean men study at Minnesota.

Profs Win Fellowships

Fellowships have been awarded recently to five University of Minnesota professors.

Ned A. Flanders, associate professor of educational psychology, has been awarded a fellowship to study in New Zealand. He will conduct research in education at the New Zealand Council for Educational Research.

C. Arthur Williams and John S. Chipman, professors in the School of Business Administration, were awarded fellowships by the Ford Foundation for research in economics and business administration.

Harold H. Kelley, associate professor of social relations, was awarded a fellowship at the Center for Advanced Study in the Behavioral Sciences. The Center,

Scholarships Offered to Civil Service Workers

Sixty scholarships are presented to University civil service employees each year in an on-the-job schooling program to attract white collar workers to the campus.

The scholarship program, a sort of turnabout to industry's on-the-job training, is designed for all civil service employees, including recent high school graduates.

"Holders of these Regents' scholarships are given time off from work, to take up to six hours of credit each quarter without loss of pay. They also are exempted from customary tuition and incidental fees," said Walfred L. Pedersen, senior civil service personnel representative at the University. (See *job benefits, page 3 - Editor.*)

Suez Problem May Cause "Drop In Ag Exports"

The Suez crisis could result in a loss of some agricultural exports for farmers in Minnesota and the rest of the nation, according to three extension agricultural economists at the University of Minnesota.

First, though, there may be a temporary increase in U. S. farm exports.

In a special report on national and world situations—and their effect on Minnesota farm people—Economists W. H. Dankers and Luther Pickrel and Mrs. Eleanor Loomis, consumer marketing specialist, point out that with the Suez canal closed, Western Europe could substitute agricultural supplies from the west.

at Stanford University, California, is operated on Ford Foundation funds.

Arthur John Madden, Jr., associate professor of chemical engineering, is now studying in the Netherlands under a Fulbright scholarship. He is conducting research in chemical engineering at Delft Technological Institute.

'U' Village Saluted For 'Brotherhood'

University Village and Grove East Village have been saluted as "outstanding examples of brotherhood in practice" by the National Conference of Christians and Jews.

The recognition came to the married student housing areas during University Brotherhood Week held in mid-February.

Brotherhood Week featured speakers of many different faiths from all over the nation.

As a part of the activities, foreign students prepared their national foods as well as their local dances.

Mayo Doctor to England

Dr. Edward D. Henderson '44MD member of a section of orthopedic surgery in the Mayo Clinic, Rochester, and instructor in orthopedic surgery in the Mayo Foundation, has been awarded an exchange fellowship sponsored jointly by the American Orthopaedic association and the British Orthopaedic association.

City Folks Pay—Through the Mouth

City families spend on the average of \$32 a week for food.

A nationwide survey by the United States Department of Agriculture in 1955 showed that the average city family paid out \$26 for foods used at home and about \$6 for restaurant meals and snacks.

Mrs. Eleanor Loomis, extension consumer marketing agent at the University of Minnesota, reports that the weekly family food bill has gone up \$6.50 since 1948, when the average expenditure for city families of two or more persons was \$25.50.

In 1955, city families averaged 3.5 persons; in 1948, 3.3 persons.

According to Mrs. Loomis, half of the food budget of the average city family is spent for meats, poultry, fish, eggs and milk products. Fruits and vegetables take nearly a fifth of the city family's food dollar, or almost \$5 a week.

Teaching 'Rithmetic To Be Institute Topic

Improvement of elementary school arithmetic instruction will be the subject of a week-long institute at the University Aug. 12-16. Enrollment for the institute, sponsored by the Center for Continuation Study, will be limited to elementary school administrators and supervisors and college or university instructors.

Class sessions, which will include research seminars and talks and demonstrations of teaching techniques, will be in Peik hall on the Minneapolis campus.

Courses sponsored this quarter by the Continuation Center have brought man groups to campus.

Diagnosis and management of cardiovascular disorders was discussed by general physicians at a session Feb. 7-9. In conjunction

with the course, the annual George E. Fahr lecture was delivered by Dr. Richard V. Ebert, professor and head of the University of Arkansas Medical Center department of medicine.

Another course for general physicians—the study of emergency surgery—was also held on campus. Also, nurses in the maternity departments of metropolitan hospitals studied hospital care of a new mother at a two-day University session.

Tranquilizing drugs was the main topic of discussion at an institute on pharmaceutical problems attended by state pharmacists Feb. 4 and 5. Other topics considered were ethical drug store advertising, prescription pricing, professional appearance and public and professional relations.

Scholarships Readied for High School Seniors

Minnesota high-school seniors may apply now for University of Minnesota freshman scholarships for the 1957-58 academic year.

Eligibility depends on graduation from an accredited secondary school in the upper one-third of the class, being admissible to the University, a resident of Minnesota and a United States citizen.

Primary considerations are high academic performance, financial need and qualities of industry, leadership, vocational promise and good community citizenship.

The scholarships are sponsored by alumni, industry, foundations and special bequests.

Applications will be mailed on request to secondary school superintendents, principals or counselors.

"Now for your final question, Mr. Hinde...
How do you pronounce D-a-u-c-h?"

"..... Dowk."

ISOLATION BOOTH

Right! Everybody wins, when they say Hinde (rhymes with find) and Dauch (pronounced dowk). Try it: "Hinde & Dauch for corrugated boxes."

HINDE & DAUCH

Subsidiary of West Virginia Pulp and Paper Company

14 FACTORIES AND 42 SALES OFFICES IN THE EAST, MIDWEST AND SOUTH

NORTHROP GRINDS OPTICAL SAPPHIRE

Perfect lens achieved
for the first time

(PASADENA, CALIF.) For many years, optical scientists have attempted to develop a means of polishing gem sapphires to a necessary optical perfection. These precious stones, since they have a higher refractive index than either glass or quartz, are more desirable than the latter as optical lenses. Yet, because of their

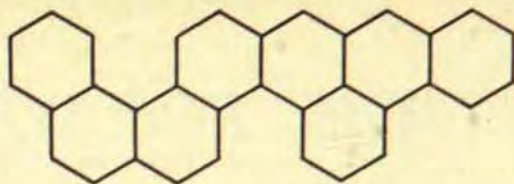


seeming insusceptibility to a grinding process, the use of gem sapphires has been considered unfeasible. Recently, however, scientists at Northrop Aircraft's engineering optical laboratory in Pasadena have developed a new type of polishing tool which successfully generates an optical finish on them.

The new tooling, made from a master mold of plaster, can be made more readily than ordinary optical lapping tools and can be reshaped very easily if necessary. The development of this tool can lead to completely new tooling systems for the shaping of optical products, and to further improve the method, work is continuing at the Northrop Pasadena laboratories.

The first item manufactured under the new Northrop concept was a concave-convex lens, two inches in diameter, to be used in advanced guided missile research. The outer and inner surfaces were ground spherical to one-half a light fringe, or 5.5 millionths of an inch per inch. A 600 carat synthetic sapphire was used in the grinding process. The jewel weighed 390 carats when completed, and is said to be the largest sapphire lens ever made as well as the first to be polished to this high optical standard.

Advanced projects such as this are a constant challenge to engineering ingenuity and skill at Northrop Aircraft which has extensive optical laboratories and research facilities at Northrop Anaheim Division, as well as in Pasadena. General headquarters for Northrop's research and development work are at the main plant in Hawthorne, California, where a new multi-million-dollar science and engineering center, finest in the industry, is nearing completion. At Hawthorne, Northrop currently is producing the Snark SM-62, world's first intercontinental guided missile, for the U.S. Air Force.



ANALYTICAL ENGINEERS

At Hawthorne, in Southern California, Northrop Aircraft has a continuing need for experienced engineers seeking new opportunities. There are attractive positions open in the following fields: Aerodynamics, Dynamics, Thermodynamics, Stress, Loads, Performance Analysis.

In Northrop's superbly equipped multi-million-dollar engineering and science center, now nearing completion, you will be given constantly fresh and challenging assignments. Present programs include Northrop's new supersonic trainer airplane, the Snark SM-62 intercontinental guided missile, plus advanced aircraft and missile projects yet to be revealed.

You'll be associated with a high-calibre engineering team that has established an outstanding record in aeronautical design and development. Your initiative and ideas will be recognized, encouraged and rewarded, for at Northrop Aircraft the progress of personnel is as important as the progress of projects.

Besides attractive remuneration, you will enjoy other benefits unexcelled in the entire industry—retirement plans, health and life insurance, college educational reimbursement plan, regular vacations plus extra year-end vacations with pay. Easily-reached mountain, desert and beach resorts in sunny Southern California offer year 'round attractions for you and your family.

You will find the career opportunity you are seeking at Northrop, pioneer in the design and production of all weather and pilotless aircraft. If you qualify for one of these attractive positions, contact the Manager of Engineering Industrial Relations, Northrop Aircraft, Inc., Oregon 8-9111, Extension 1893, or write to: 1015 East Broadway, Department 4600-BB, Hawthorne, California.



NORTHROP

NORTHROP AIRCRAFT, INC., HAWTHORNE, CALIFORNIA

Producers of Scorpion F-89 Interceptors and Snark SM-62 Intercontinental Missiles

MATMEN TOP WINTER ATHLETES

Will Shapira
Minnesota Daily Sports Editor

While the Minnesota basketball and hockey teams vie for the top University winter sports limelight position, Coach Wally Johnson's wrestlers are currently leading the parade of Gopher sports teams in the victory column.

Through Feb. 20, the matmen had won 11, tied one and lost one overall, and were undefeated in Big Ten play.

Indiana did better than other loop foes through that date by earning itself a tie against the Gopher grapplers.

Along with the team winning skein went an individual mark, that of Don Meyers who works at the 147-

pound class. Meyers' win streak, started at the outset of the season during Winter quarter, was finally snapped in the Indiana match.

Still, the squad's captain refused to let this throw him permanently and vowed to get even in the Big Ten meet later in the season, an occurrence which, if realized, would certainly cap Meyers' fine collegiate career.

The Minnesota wrestlers will wind up their dual meet season with matches against Michigan State at East Lansing on March 1, and with Michigan at Ann Arbor on March 2.

Also in the so-called "minor sports" vein, the swimming and gym teams met with less success than the wrestlers but several individual performances were heartening to respective coaches Niels Thorpe and Bob Johnson (the latter filling in for Ralph Piper who is on a fellowship in Rangoon, Burma).

The tankers achieved a dual-meet win over Northwestern, their first in several seasons while waiting futilely for more candidates to turn out for the sport.

On the gym front, the most encouraging news to emerge from the otherwise gloomy scene (caused by several injuries to key performers) came during the Northwest Open meet which was held at Cooke Hall.

Coach Bob Johnson found several frosh who showed enough ability to cop first place in the meet, thus indicating that Minnesota gymnastics may take a turn for the better after this season, which has been hampered by injuries.

Jim Kelly, who recently coached the US team to victory in the Olympics at Melbourne, Australia, had his indoor track squad going strong in the first two meets.

The thinclads dropped their first meet against Northwestern here but came back the following week to beat Iowa State. After that, they met Iowa in their first road trip of the indoor season.

Outstanding trackmen for the squad included Capt. Bill Garner, Arnie Beck, Jim Engfer, Bob Mittelstadt and Bill Martin.

The younger elements of the squad, especially the freshmen, have looked promising in recent outings.

The team held an intra-squad meet the week before its first meet with Northwestern, and the freshmen won it.



Wrestling Captain Don Meyers

Thomas Named. Baseball Captain

Jerry Thomas, Minnesota's All-American baseball pitching star in the NCAA title drive last season, was named captain of the 1957 baseball team. Thomas was the unanimous choice.

Thomas' hurling in the NCAA tournament finals against Arizona assured Minnesota its first national title. He also won an earlier round game against Arizona. For his performance in that meet, he was chosen the outstanding player in the tourney.

During the regular Big Ten season, Jerry compiled a record of five wins without a defeat and an earned run average of under two per game. His over-all record was 12-2. Thomas succeeds outfielder Bill Horning as the Gopher captain.

"I'm greatly honored to have been elected captain and hope I can do as good a job as Horning did last year," said Thomas.

Sports Events

Basketball

Mar. 4 - Ohio State*

Hockey

Mar. 8-9 - Denver*

* Both home games

National Pucksters Will Train Here in '58

The campus has been selected as the training spot for the U.S. National hockey squad next season.

The honor given the Gopher ice came on the heels of the announcement that Cal Marvin of Warroad, Minn., will be coach of the 1958 squad. U.S. officials Bob Ridder and Don Clark say that all is set for the training here except actual dates.

They will depend on the definite scheduling of the World tournament which goes to Vienna next year.

Marvin succeeds Bill Stewart, currently heading the American squad in Europe.

Hockey, Basketball Ride See-Saw

Interesting things came about in February for both the hockey and basketball teams: the former, though resting in the WIHL cellar, still put on a fine display of enjoyable hockey for Minnesota fans. And at the same time, the cagers see-sawed through several hectic Big Ten games and through Feb. 20, were tied for third in the league.

Hockey-wise, the performance of goalies Jack McCartan and Don Vaia continued to dominate the Gopher puck scene. Both boys had their hands full as the Gophers tangled with such league powers as Colorado College and Michigan, though earning but one win, that over the Wolverines, 7 to 3.

The following night found Minnesota and Michigan again squaring off in Williams Arena and a full house turned out to see if the Gophers could do it again.

As it turned out, they didn't, bowing to the Wolves of Vic Heyliger by a close 4 to 3 count. But that didn't dismay Gopher fans—they got more than their money's worth just by watching Vaia on one of his great nights in the nets.

In basketball, Minnesota did better on the hardwood court than on ice against the Ann Arbor school.

Coach Ozzie Cowles' cagers slapped down the Wolves at home

one Monday, then journeyed back to Ann Arbor for a return engagement on the Michiganders' home grounds.

Everything pointed to a Michigan win for the Wolves looked bad here and lost several key men early in the second half on fouls. In addition, they felt they could whip the Gophers. So what happened? Why, the Gophers just took it all in stride and won going away by 20 points.

Unfortunately, things didn't continue in that manner for the cagers. Two nights later, they met Indiana at Bloomington and took a licking at the hands of the Hoosiers, thus impairing their slim title chances. But the next weekend, things took a turn for the better as the Gophers romped all over Wisconsin and Purdue. And as things headed into the latter part of February, the Gophers faced another tough task: playing Michigan State.

Will Shapira (Hammerstein)—

Songs of the Time

The Big Ten's athletic aid program, soon to be voted upon—
"Brother, Can You Spare a Dime?"

Colorado College in the WIHL race—"Running Wild."

George Kline—"Tippin' In."

Don Vaia and Jack McCartan—"I'm Only a Bird in a Gilded Cage."

Minnesota's cagers and the Big Ten title—"Goodbye."

The Big Ten basketball race—"Circus."

Duluth Branch hockey fans—"Dream."

The University ski team—"Stompin' at the Woodside."

Any losing coach—"Don't be Cruel."

Big Ten basketball refs—"There's No Place Like Home."

Colorado College's pucksters—"Canadian Sunset" or "South of the Border."

Indiana to the rest of the league—"Don't Rock the Boat."

Minnesota and a cage title—"Long Ago and Far Away."

The Gopher baseball team—"The Things We Did Last Summer."

University's wrestlers—"Squeeze Me."

The gym team—"Dancing on the Ceiling."

Jerry Thomas, ace Minnesota pitcher—"Man with the Golden Arm."

ACTION SHOT OF FOUR
NEW ENGLAND LIFE AGENTS



It was contagious at Stanford (and we couldn't be happier!)

Seven years ago, a Stanford graduate joined New England Life at our branch office in Palo Alto, California. Six months later, another Stanford man arrived. Then, within three years, two other Stanford stalwarts were saying, "Move over, fellows."

We're all in favor of this kind of "contagion." Especially when New England Life ends up with a congenial quartet like this: (left to right, in photo) Jack Martinelli ('48), Earle Patten ('49), Joe Pickering (Bus. School '50), Dave Hoffman (Bus. School '51). These men have made fine progress together, too. All have qualified for membership in our Leaders Association — the company's top production club.

What made them decide on New England Life? Jack: "... looked into other life companies, but liked what New England Life had to sell." Earle: "... like the comprehensive and personalized training." Joe: "... impressed by the company's outstanding reputation in the business and financial community." Dave:

"... a quality company and I wanted to be in business for myself."

There's room in the New England Life picture for other ambitious college men who meet our requirements. You get income while you're learning. You can work almost anywhere in the U. S. A. Your future is full of sizable rewards.

You can get more information about this career opportunity by writing Vice President L. M. Huppeler, 501 Boylston Street, Boston 17, Mass.

A BETTER LIFE FOR YOU

NEW ENGLAND

Mutual LIFE Insurance Company
BOSTON, MASSACHUSETTS

THE COMPANY THAT FOUNDED MUTUAL LIFE INSURANCE IN AMERICA — 1853

These University of Minnesota men are New England Life representatives:

Irwin C. Kaiser, '17 Topeka
Bruce J. Robinson, '27, Indianapolis
A. Irving Birnberg, '22, St. Paul
Louis M. Schaller, '29, Minneapolis
Mailand E. Lane, Sr., '32, Minneapolis
Hubert D. Wheeler, '34, Gen. Agt. Duluth

Francis L. Lund, CLU, '35, Gen. Agt.,
Minneapolis
Howard D. Burdick, '39, Dallas
Morton C. Mosiman, '40, Minneapolis
Lloyd V. Shold, '42, Duluth
Robert R. Abroahams, '44, Minneapolis
Earl H. Mosiman, '47, Minneapolis

Ariel H. Oberg, '48, Los Angeles
Robert D. Myhr, '48, Chicago
Richard S. Taylor, '48, Minneapolis
Theodore J. Lee, '49, Duluth
Ben F. Day, '51, Milwaukee
H. Harry Wilson, Jr., '52, Minneapolis
John B. Heimkes, '54, Minneapolis

Ask one of these competent men to tell you about the advantages of insuring in the New England Life.

Around and About with the Alumni

'17

Edwin Sweetman '17EM in Geol. of Green Bay, Wis., and Mrs. Sweetman were recent visitors to the property of Steep Rock Iron Mines, Ltd., of Ontario, Canada. In 1942 Mr. Sweetman recommended to the Reconstruction Finance Corporation the initial \$5,000,000 loan received by the Steep Rock organization.

'29

Carl E. Berzelius '29BArchE has been appointed general sales manager for Certain-teed Products corporation, building materials manufacturer, Ardmore, Pa. Mr. Berzelius, who joined the firm in 1947, will direct national sales of Certain-teed's asphalt roofing, insulation and paint products to building and industrial fields. Mr. Berzelius has been in sales since he became associated with the company. Most recently he was Western Division sales manager.



Carl E. Berzelius

Louis M. Schaller '29BCE is marking his 25th anniversary year with the new England Life Insurance Company. Mr. Schaller is a former member of the MAA Board of Directors.

Dr. Edward N. Cook '29MD, a member of the Section of Urology of the Mayo Clinic at Rochester, has been advanced to the grade of professor of urology in the Mayo Foundation, Graduate School, University of Minnesota.

'30

Harold P. Morris '25BSAg, '30PhD recently received a superior service award from the Department of Health, Education and Welfare for a series of scientific investigations of the mechanism of cancer causation.

'33

Ray S. Dunham '33MS, agronomy professor at the University, has been honored by an international organization for his work in weed control. The award, an honorary membership from North Central Weed Control conference, cited Dunham for "outstanding contributions and progress in weed control; for a lifetime of devotion to weed control research and education; and for providing leadership and inspiration for others in this field."

'34

Russell W. Laxson '34BBA recently was named treasurer of Minneapolis Honewell.

Dr. F. E. Colien '28BSEd, '30MS, '34PhD has been elected to membership in the Royal Society of Health (MRSH) Great Britain. He recently returned to Madison, Wis., from Baltimore, Md., where he had been with the Division of Laboratories, State Health Department.

'35

Herbert F. Scobie '35 BChem '44MS was named ex. secy. of the Non-Ferrous Founders' society, national trade and management organization of non-ferrous castings producers. Formerly editor of Modern Castings, Scobie started his foundry career about a year after graduation from the University. After two years with Hoist & Derrick Co., St. Paul, he returned to the University to teach foundry practice, to earn an advanced degree in metallography and act as consultant for a number of Twin City metal processing firms. He is a former executive secretary of Triangle, the national engineering fraternity, and editor of Triangle Review.



Herbert F. Scobie

C.W. Britzius '33BCE, '38MSCE has been elected to the position of Grand Vice Regent of Theta Tau professional engineering fraternity at its recent biennial convention at Columbus, Ohio.

'38

Andrew M. Lundberg '39BBA, who has served as an officer in the Army since 1948, has been named assistant professor of military science and tactics with the Army ROTC unit at Washington University, St. Louis.

'42

Dr. Robert S. Marvin '39BCHE '42MS has been named chief of the newly formed Rheology (the study of the deformation and flow of matter) Section at the National Bureau of Standards. Before joining the bureau in 1949, Dr. Marvin was a Project Associate at the University of Wisconsin. From 1941-46 he served in the U.S. Army. Dr. Marvin received the Thomas Andrews prize of the Minnesota chapter of Sigma Xi for undergraduate research.

Arthur L. Janura '42BSFor, a director of the American Institute of Park Executives, was in Minneapolis recently for the Institute's Mid-Winter Executive Board meeting. Mr. Janura is superintendent of Maintenance, Cook County Forest Preserve district, Illinois.

R. C. Robinson '42BArchE has been appointed manager of operations for U.S. Steel's American Bridge division. Mr. Robinson, who joined American Bridge at its Minneapolis plant in 1925, will reside in Pittsburgh, Pa.

'44

A. F. Savage '44BA has been named superintendent of Plummer mine of the U.S. Steel's Oliver Iron Mining division. Mr. Savage, formerly assistant superintendent at the mine, joined Oliver in 1946 as a mining engineer trainee.

'45

Dr. William P. McKinnell, Jr. '45BChE has joined the staff of the engineering section of the Ohio Oil Company's Research center. McKinnell was previously employed at Chrysler corporation and as an assistant professor of metallurgy at Virginia Polytechnic Institute.

'47

Capt. Robert E. Carlson '47BSEcon, of the Montana State College Army ROTC detachment, has been selected to attend the 1957-58 regular course of the Command and General Staff school at Fort Leavenworth Kan., Carlson is one of only eight Military Police officers in the Army being assigned to the school this year.

'48

William C. Faust '48BCE has been named manager of the reinforcing bar department of the U.S. Steel Supply warehouse, St. Paul. Mr. Faust, who served with the Navy during World War II, joined the U.S. Steel Supply division as an engineering draftsman. For the last four years he has been sales engineer.

'49

Eugene Sylvestre '49, account executive at Olmsted & Foley, Minneapolis advertising and public relations agency, has been named an associate partner and member of the firm's Board of Directors. Sylvestre, with Olmsted & Foley three years, formerly worked in sales and advertising capacities for Proctor & Gamble and Minneapolis-Moline.

'50

Dr. John O. Punderson '50PhD, a research chemist in the Polychemicals department at the Du Pont Company's experimental station, Wilmington, Del., has recently been promoted to research supervisor. Dr. Punderson, who joined Du Pont in 1950, will be directing the research on "Delrin" acetal resin, Du Pont's new plastic. Dr. Punderson is a member of Phi Beta Kappa, Phi Lambda Upsilon and Sigma Xi, honorary societies, and since 1953 has been the deputy radio officer in the communications branch of the New Castle County Civil Defense.

50

Barbara May McIntyre '47BA, '50MA received a Doctor of Philosophy degree in speech at the University of Pittsburgh commencement exercises Feb. 1.

K. J. Mahoney '59BEE has been promoted to IBM manager of Customer Engineering in Bismarck. Mr. Mahoney joined IBM in 1950 as a member of EAM Customer Engineering in St. Paul.

'51

Donald H. Turner '51BME, a specialist in the melting of refractory metals, has been appointed supervisor of melting and heat treating services at Armour Research foundation of Illinois Institute of Technology, Chicago. Mr. Turner joined Armour Research foundation in 1953 and until 1954 served as project engineer. He returned to the foundation after serving two years as research engineer for Titanium Metals Corp. of America, Henderson, Nev.

'52

Dr. H. Mead Cavert '42 BS, '51MD, '52PhD, an assistant professor in the University department of physiology since 1952, has been named assistant dean of the College of Medical Sciences. He succeeds Dr. William Maloney who became dean of the Medical College of Virginia. Dr. Cavert will continue his teaching and research activities in the department of physiology on a part-time basis.

Kathleen Antonsen '52BA is currently living in Hyattsville, Md., near Fort Meade where she has been employed by the National Security Agency since 1953.

'55

Fred C. Norton '55LLB recently was appointed a Special Assistant Attorney General by Minnesota's Attorney General Miles Lord.

The Rev. Loren E. Parker '55BA has been installed as pastor of The First Presbyterian church in Malcom, Ia., which he had previously served as a student pastor.

Barbara Ann Skaug '55BSHE has completed a year's dietetic internship in the Nutrition department of the New York hospital.

Dr. Paul E. Lacy '55PhD has been named instructor in pathology in Washington University's School of Medicine, St. Louis.

Second Lt. Richard G. Hunegs '55BSL recently completed the chemical, biological and radiological officer course at the Army's Chemical Corps school, Fort McClellan, Ala.

First Lt. James M. Evensen '55BA is assigned to the 649th Quartermaster Company at Fort Polk, La.

'56

Second Lt. Harold L. Stevens '56BS-ForMgt. recently was graduated from the Army's Antiaircraft Artillery and Guided Missile School at Fort Bliss, Tex.

NW Banco Cites Law Grad

J. B. (Bart) Faegre '11BA, '13-LLB, chairman of the board of Minnesota and Ontario Paper Co., to whom business and the legal profession "are both his vocation and avocation" was honored recently for his quarter of a century of service to Northwest Bancorporation.

Faegre, described as a "forthright, tenacious man of action" always ready to listen to other people's problems, was "spotlighted" in the Banco Yearly Times which highlighted the annual luncheon of Banco directors and officers.

Not only was Faegre honored for his 16 years service as a director of Banco, but for his great interest in the corporation's general welfare since the "troubled '30s."

The story traces Faegre's life from his birth at Flandreau, S.D., through his high schools days at old East high school in Minneapolis to his graduation from the University of Minnesota.

While at Minnesota he played end on the famed 1909 team sparked by Johnny McGovern that won the Big Ten championship.

"Not one to make an issue out of this, he doesn't wear his small gold football, and has been known to wear his 'M' sweater inside-out," the article says.

Faegre started practicing law in 1913, the same year his present partner John C. Benson '12LLB started. Benson first met Bart when he came from Wisconsin for his senior year at Minnesota.

Faegre and fellow law students banded together in a group called the Assizes.

First Lt. Joseph T. O'Neill '56LLB has recently been assigned to the Eastern Ocean district, 1605th Air Base Wing, U.S. Air Force, and has been sent to his post of duty in the Azores Islands. Lt. O'Neill entered the service in 1956. He passed the bar examination and left the states Oct. 8 to become Legal Officer in the Azores.

Army Second Lt. Eugene Fahlbusch '56BSEd recently was assigned to the 128th Signal Company at Fort Polk, La.

Georgia College Honors Alum

Dr. Carl Mauelshagen '35PhD, retired chairman of the department of history at Georgia State College, has been honored for his "devotion and interest in Georgia State."

A plaque, presented by the faculty members of the college, was hung in the history section of the library which Dr. Mauelshagen helped establish.

The plaque bears Dr. Mauelshagen's name and likeness and the words "Scholar, Teacher and Author."

In the dedicatory address, Dr. John A. Alexander, head of the history department, said the plaque was presented by the faculty as a "testimony to work well done." He said the plaque was also a first step in establishing a greater tradition for the college to which Dr. Mauelshagen was so devoted.

In accepting the plaque on behalf of the faculty of the college, Dr. John B. Oliver called Dr. Mauelshagen a "driving force behind the library's history collection." He credited the professor with the balance and completeness of the collection.

Dr. Mauelshagen, a small man with a big voice and a sharp wit, received his B.S. degree at the University of Tennessee and his M.A. at the University of Chicago.

He first became associated with Georgia State College in 1935 and when he retired in 1955, was chairman of the department of history.

Dr. Mauelshagen said in accepting the honor that credit for anything that he might have achieved should go to those who have had faith in him. His big voice quavered as he thanked the some 25 faculty members present for the presentation.

Engineer to Berlin Studies

Ralph Donald Pollard '56 BEE, Minneapolis, is currently studying physics at the Free University of Berlin in Germany under a Fulbright scholarship.

Honors, Fellowships Awarded to Alumni

Honors and fellowships recently have been given to a number of University of Minnesota graduates.

Two former St. Paulites, a young doctor and his physician uncle, were honored by the International College of Surgeons. Dr. Eugene V. Meyerding '47MD was elected a member of the United States section of the International group.

His uncle, Dr. Henry W. Meyerding '09MD, '18MS, professor emeritus of orthopedic surgery at the Mayo foundation and University of Minnesota, was chosen president-elect of the International College of Surgeons.

Dr. Arthur B. Hunt, '29MD, head of a section of obstetrics and gynecology in the Mayo Clinic, Rochester, and professor of obstetrics and gynecology in the Mayo Foundation, Graduate School, University of Minnesota, recently was installed as president of the Central Association of Obstetricians and Gynecologists at the meeting of that organization in New Orleans, Louisiana.

Harris Byers '53FS, and Erland Carlson are currently in Central America as International Farm Youth Exchange delegates.

The two young men spent a week in Washington, D.C. in orientation before leaving the country as "grass roots ambassadors."

Byers will live and work with farm families in Panama until April, 1957; Carlson is living with farm people in El Salvador.

Alumnae St. Pat's Meet

Members of the Minnesota Alumnae club will celebrate St. Patrick's Day at a Mar. 16 luncheon meeting on the St. Paul campus under the auspices of Dr. J. O. Christianson.

Special features are being planned by members of the Home Economics Department and the School of Agriculture.

MARCH, 1957

Guardian of 200,000-Acre Forest Retires from Service

Rudolph H. Grabow '20BSFor, whose childhood curiosity about the woodlands led him into a career in forestry, recently retired as supervisor of Hossier National Forest, U.S. Forest service, Bedford, Ind.

Mr. Grabow assumed this position in 1939, only four years after Congress authorized the forest. The forest then contained 34,600 acres, but only 3,500 acres had been reforested.

Today, under Mr. Grabow's supervision, the forest has grown to 115,000 acres and has 16,000 acres in plantations. In addition, in 1949 the Wayne National forest in Ohio was added to Mr. Grabow's jurisdiction and that forest contains 102,000 acres and 8,000 acres of plantations.

During his career, Mr. Grabow has made many contributions to research. He played an important part in determining the pulping characteristics of wood by the soda and sulphite processes—a study of great value to the paper industry.

After World War I there was a shortage of linen stock for paper currency. Mr. Grabow was instrumental in developing a process to use flax tow as a substitute for linen rags in production of paper equal in strength to the linen paper rag.

Mr. Grabow, whose interest in forests began when he was a student in a country school room at



Rudolph H. Grabow

Morgan, Minn., joined the research branch of the Forest Products laboratory, Madison, Wis. after his graduation from the University. In 1927 he joined the Brunswick Balke Collendar Co., Marquette, Mich., and then moved on to California where he did work for the Los Angeles County Forestry service. In 1934 he was called to the Nicolet National forest, Rhinelander, Wis. Two years later he became assistant chief of the Division of Information and Education in Milwaukee.

During World War II Mr. Grabow was assigned to the Timber Production War project and was also a member of the Indiana War Production board representing the Forest service.

Mr. Grabow is currently with the Francis I. DuPont Co. at Indianapolis as an account executive.

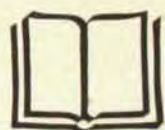
Alumni-Varsity Grid Game Set May 18

The third annual University of Minnesota Alumni-Varsity football game will be played in Memorial Stadium on Saturday, May 18. This was jointly announced today by Athletic Director Ike Armstrong and Murray Warmath, head football coach.

The selection of the coaching staff for the alumni team will be made at a later date. Wayne Robinson and Bud Grant who served as head coach and first assistant, re-

spectively, for the alumni team participating in the 1956 game won by the grads, 38 to 24, recently signed as the line coach and head coach of the Winnipeg Blue Bombers.

The football coaching clinic, held the past two years in conjunction with the Alumni-Varsity game, will be staged on Friday and Saturday, May 10 and 11 this spring. The final intra-squad game of the spring practice season will be the highlight of this clinic.



Books

Biography in Poetry by Edmund Gale Jewett '97BA, privately published in Port Murray, New Jersey, 1956.

Biography in Poetry is a handsomely bound 54-page collection of sketches "compounded of memory and imagination." While the title of the booklet implies strictly a personal account, the poems recapture the feelings that attend life's phases in such a way as to give the work universal significance.

The unique theme — from youth to maturity — is developed sometimes in expressive lyrical prose and sometimes in the conventional manner of poetry. Either style is skillfully adapted always to fall second to the thought. Thus, when a passage is complete, the reader has a fleeting impression of the beauty in perceptive intelligence.

Mr. Jewett lives in Clinton, Conn.

The Visa Circuit, by James Baker Woodson '98-99, Pagean Press, Inc., \$3.00.

The Visa Circuit is a treasure trove of information gathered by the author, James B. Woodson, while traveling around the globe. Unlike most, "I Was There" travel books, *The Visa Circuit* presents a wealth of tips and "what-nots" which will be of invaluable aid to the tourist planning to cross the oceans. In his accurate, humorous anecdotes gleaned from the many adventures he had in the most romantic capitals of the world, Mr. Woodson offers the reader an informal ticket to accompany him.

Written in a light, chatty style and leavened by a running commentary of quizzical humor, this fascinating book presents a refreshing contrast to the usually ponder-

ous tabulations that pass for travel literature. The book is attractively illustrated.

James Baker Woodson is a native of San Francisco. He was born in Columbia, Missouri, and for thirty-eight years worked as a Highway Civil Engineer with the U.S. Government and the State of California.

Valiant Woman, by Peg Boland '27BA, Grail Press, 1956. \$2.50.

This book is a collection of 15 inspiring stories told by women who describe how they met crisis, large and small, in their lives.

Eleven of the 15 short accounts are written by the women themselves. Three are written in the first person "as told to" Mrs. Joseph M. (Peg) Boland, South Bend, Ind. Mrs. Boland also wrote a story of her own experience and edited the accounts of the other women.

Mrs. Boland said that the book



represents a "cross section of human troubles and illustrates how people can surmount these troubles by accepting the will of God."

Mrs. Boland explained that she took the title of the book from Proverbs 31, 10-31, which starts "Who shall find a valiant woman? The price of her is as of things brought from afar off."

Most of the stories were written by local South Bend women and first published elsewhere. Some have had wide professional experience, others are amateurs.

"Valiant Woman" is particularly dedicated to the late Mrs. Mary Agnes Boyle, wife of Prof. Andrew Boyle of the University of Notre

Dame. Mrs. Boyle finished her story just before succumbing to a fatal illness.

In the story, Mrs. Boyle describes how she faced the knowledge that she was fatally ill. The lines of the story are strong and clear. There is no sickly sweet piety or sentimentality. Each selection has an integral place in a well-written, well-edited whole.

Mrs. Boland received her degree in journalism in 1927, the first year a degree in journalism was given at the University of Minnesota. While at the University, Mrs. Boland wrote feature stories for the *Minnesota Daily*.

She has written articles for the *South Bend Tribune* magazine and a number of national magazines while keeping house for her husband, sports director for South Bend radio and TV stations, and their two children.

St. Louis, A Fond Look Back, text by Martin Quigley, '38BA, \$1.00.

A fine collection of pictures and history telling the story of St. Louis makes up this magazine-type edition prepared "in appreciation to its community" by a bank in St. Louis.

For those interested in history which reads like fiction, this edition is a reservoir of facts. Residents of St. Louis will also enjoy the background story of a storied city.

Copies can be obtained from the Missouri Historical Society, Forest Park, St. Louis.

Quigley is the author of a war novel, "Tent Over Corsica" and is, at present, vice president of Fleishman-Hillard, Inc., a public relations firm reportedly operated almost exclusively by Minnesotans in Missouri.

Deaths

Mrs. Mary F. Coffman, wife of the fifth president of the University, recently at University hospitals where she had been a patient for 17 months. For 18 years, from 1920 to 1938, she was a gracious hostess at the home of the president, Lotus D. Coffman, 1005 S.E. Fifth Street, where she presided at such large University functions as the annual faculty reception and freshman tea every fall and the reception for seniors in June. Until her illness the past few years forced a semi-retirement upon her, she kept close contact with the university through friends, the Faculty Women's club and the Dame's club. She married Dr. Coffman in 1899 when he was a high school principal in Paoli, Ind. He became a professor of education at the University of Illinois, then the couple moved to Minneapolis when he was appointed dean of the University college of education. Dr. Coffman died in 1938. Survivors include a son, a daughter, a sister and two half-sisters.

Anna F. Shillock '88 recently in Minneapolis. Miss Shillock came to Minneapolis in 1881 and taught school here for 35 years. She is survived by a nephew.

Jacob A. Rickert '02LLB, former vice president of Federal Land Bank and Federal Intermediate Credit bank. St. Paul, recently. Survivors include his wife and a son.

Herbert U. Nelson '10BA, retired executive vice president of the National Association of Real Estate boards and once active in Minneapolis real estate circles, recently in Evanston, Ill. Mr. Nelson was secretary of the Minneapolis Real Estate board from 1917 to 1921. Active in the formation of the Minneapolis Planning commission, he served as its secretary in 1919 and 1920. He took the post with the national association in 1922. He is survived by his wife and three sons.

Dr. Emanuel Earl Zimmerman '18DDS, a former St. Paul dentist, in Lindsay, Calif. where he had lived for the past several years. Dr. Zimmerman had practiced dentistry in St. Paul, Alliance, Ohio, and Excelsior prior to moving to California. He is survived by his wife and two daughters.

Dr. Raymond H. Barnard '23BSEd, a Denver University English professor, of a heart attack. Before joining the Denver University staff, Dr. Barnard had taught in colleges in South Dakota, Wisconsin, Indiana and Illinois. He was a member of Pi Kappa Delta, Sigma Tau Delta. Surviving are his wife, a daughter and a son.

Rollin C. Andrews '12LLB, Minneapolis investment banker and civic leader, in Minneapolis in January. Mr. Andrews was vice president of J. M. Dain & Co., investment banking firm. He formerly had been vice president and member of the board of Wells-Dickey Co. Mr. Andrews served three terms as president of the Hennepin county Red Cross chapter and had been president of the First Universalist church congregation. He entered the investment business following World War I army service. Survivors include his wife, a son and a daughter.

Faculty

Dr. Charles Bird, professor of psychology at the University in January, of a heart attack while walking across campus. Dr. Bird, who had taught at the University for nearly 37 years, was known to thousands of students whose interest in psychology was stimulated by his lectures. He had been a professor since 1934. Dr. Bird was also the author of numerous professional works, including a textbook on "Learning More by Effective Study," which he wrote in collaboration with his wife, Dorothy. He was born in Birkenhead, England. He took his college work in Springfield college and Clare university, both in Massachusetts. He was a member of the American Psychology association and the Minnesota and Midwestern Psychology associations. In addition to his wife, he is survived by a daughter and a son.

Ezra R. Edwards '27MA, a former St. Paul resident, in Springfield Gardens, N.Y. A native of Chatfield, Minn., Mr. Edwards served as superintendent of schools at Fertile and Sauk Center, Minn., Tower City, Minto and Jamestown, N.D. and Yankton, S.D. He came to St. Paul in 1921 and served as a teacher and principal in junior high schools prior to his retirement in 1944. He was a past president of the Education association of North Dakota. Survivors include his wife, one daughter and two grandchildren.

Nels Johnson '23BSCE, district engineer at Mankato for the Minnesota Highway department since April, 1950, in the Variety Club Heart hospital at the University. Mr. Johnson joined the highway department in 1925. Survivors include his wife, a brother and two sisters.

Helen A. McGuire '38BSEd, in St. Paul after a long illness. Miss McGuire was born in St. Paul and lived there all her life. She is survived by a sister, a nephew and five nieces.

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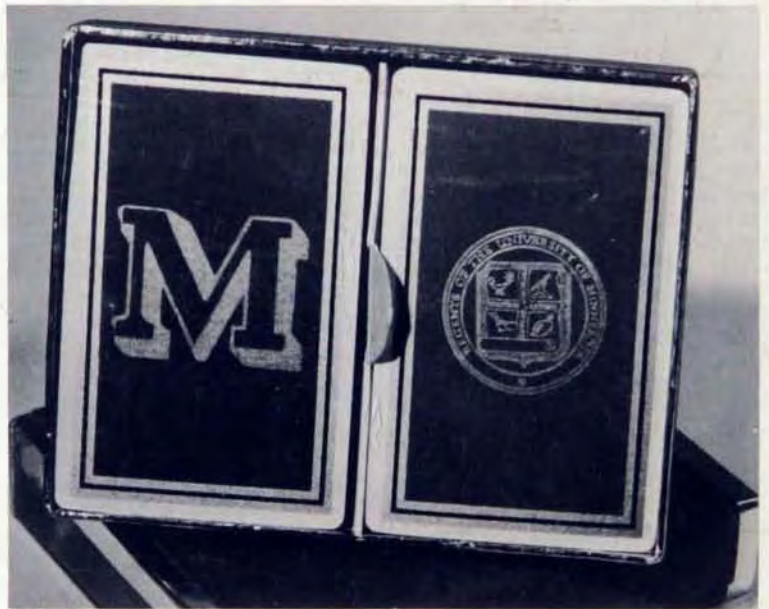
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ELECTION ISSUE



GOPHER GRAD

APRIL 1957

GOPHER GRAD

(Our 56th Year)

Continuing the Minnesota Alumni Weekly which was established in 1901, and the Minnesota Alumni Voice. Published monthly from October through June by the Minnesota Alumni Association, 205 Coffman Union, University of Minnesota, Minneapolis 14. Member of the American Alumni Council.

Vol. 56 APRIL, 1957 No. 7

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In This Issue

	Page
ATHLETIC AID BASED ON NEED.....	5
U-235 CLUB.....	7
SCHOLARSHIPS BARNUM & BAILEY.....	9
BOARD CANDIDATES READIED.....	11
WHAT PUTS THE SING IN SPRING?.....	18
BATTER UP FOR NCAA CHAMPS.....	28

NEWS SECTIONS

Association-Clubs.....	20	Sports.....	28
On the Campus.....	23	Alumni.....	31

DEPARTMENTS

Back Talk.....	3	Summa Cum Laude.....	14
Editorial.....	4	Books.....	27

Cover Story

Two clowns and a coed take the spotlight this month to symbolize the big and benevolent April Campus Carnival. Two thousand students work and twelve thousand play to make this the single biggest event of the year. All proceeds go to help the needy or to honor the accomplished through the Bureau of Loans and Scholarships thus making the carnival a benevolent enterprise.

For the past two years, outstanding alumni have participated by lending their names as the 'mystery person' of the carnival. Guessing the name of the alumnus through clues in the *Minnesota Daily* has won some lucky student a brand new Plymouth. But everyone is a winner at Carnival time - there is plenty of fun as you can guess by the cover. (See p. 9) for story; photo by Frank Briese).

Views of authors appearing in Gopher Grad in no way reflect the opinions of the MAA or the Gopher Grad.

GOPHER GRAD

BACK TALK

Editor:

I have started dreaming of getting back in 1959 for the 50th anniversary reunion of my class. My wife will have her 40th class anniversary at the U of North Dakota that same year.

I have been back to but one reunion since getting my Master's degree in 1910. Yet had so many pleasant associations which I now hope to renew. I appreciate much more than my financial contributions would indicate what the University has done for me.

William W. Norton '09BA '10MA
College of The Pacific
Stockton, Calif.

(Among Alumnus Norton's "associations" are activities as well as people. The list includes—president of his senior class, of the University music federation and of Phi Kappa Psi; president and charter member of Grey Friars; member of Acacia fraternity and Phi Delta Kappa; director of the glee club as well as of the Choral Union and U orchestra for "Messiah," student director of the band; an assistant in the psychology department and editor and publisher of the first U songbook in 1911—Editor.)

Addition and Correction

Editor:

Just a note to add to the Howard Lambert pentathlon story that appeared in your December issue:

Pentathlon events are not like football or other such sporting events because injury does not permit a fellow to be taken out and replaced by a substitute.

After starting, a pentathlon contestant must go through to the end or lose all points for events he misses because of his injury.

In going through the blazed trail in the woods, Howard's really "wild" horse brushed the trees, one of them catching his left foot, twisting it outward and back and injur-

APRIL, 1957

ing the knee so badly he had to wear a bandage and brace for the remaining four events.

He just couldn't quit. It is a team event as well as an individual event—the idea of a "military courier"—the theory that the (person) must get through with his message some-way.

Incidentally, my old class mates ('13BA '16LLB '16MA) and those of Mrs. Lambert (Adaline Train '15BA) would never guess we were as young as you indicated.

Howard Lambert
'13BA '16LLB '16MA
1903 Ross
Sioux City, Ia.

(Alumnus Lambert had been listed as '25BSBus. His is the oldest family degree. The two Lamberts have two other sons who are also graduates—John and Bob. John '41EE is with International General Electric in Rio de Janiero and Bob '56BA is continuing studies at the U. Son Jim is a student here, also—Editor).

From the Folks

Editor:

I am writing these few lines for my son, Raymond Holz, a graduate in 1954. He also graduated in ROTC of which fact he is mighty proud. He is at present an officer in Wyoming and plans on getting out in May of this year. His hope is to be able to return to school for one more year.

Mrs. Herman Holz
St. Paul, Minn.

A Friendly Word

Editor:

I certainly enjoy the contact with the University that the *Gopher Grad* brings me each month.

James B. Bell '55BA
St. Paul, Minn.

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The Free Ride

Dear Gopher Grad:

You have many reasons to be proud of your University. Especially you can be proud of the leadership exerted by President Morrill in the field of intercollegiate athletics.

President Morrill stands for all that is good in intercollegiate athletics. He believes it to be an integral part of the program of higher education, believes in the values intrinsic to the sport itself. He has fought a valiant battle to keep intercollegiate athletics on a sane and reasonable basis where values can accrue to those who participate as a part of the educational process. His has been a lone voice — and over the years, unfortunately, misunderstood.

His most recent stand was to try and prevent the Western Athletic Conference (or Big Ten, as it is known) from adopting a new and drastic athletic aid plan. He lost. In his defeat, the Western Conference lost too — lost its last vestige of athletic leadership and prestige that has characterized the Conference since its beginning over fifty years ago.

The new athletic program, which I invite you to read about in another part of this magazine (*see page opposite*), was adopted by a 6-4 vote — Northwestern, Ohio State and Iowa voting with Minnesota against the plan.

No attempt will be made here to outline the program in detail but rather to bring to you some of the meaning involved in the change.

In order to understand the new plan, you should know the pertinent points of the athletic scholarship program under which the Conference has been acting. In brief, it allowed a boy in the upper one-half of his high school graduating class to receive tuition scholarships — that is, tuition and fees. The student in the upper one-third of his high school graduating class was eligible to receive unearned aid in excess of tuition and fees equal to the cost of attending the University for one year — that is, room and board in addition to tuition and fees. The athlete could work and still receive athletic scholarships as long as the total amount did not exceed the cost of a year's schooling.

As can be seen, the program was liberal in the aid given, and almost any boy of college aptitude (and football ability) could qualify. The cost of

the program, while high, was helped by reason of the job provision.

The plan didn't work for one reason — the scholastic requirement was too high. Too many of the football players recruited were in the *lower* one-half of their high school graduating class. This made them ineligible for aid of any kind, yet most of these same boys appeared on the football teams. This means, of course, that they received illegal, under-the-table help.

As a result, the Conference rules were broken merely by being ignored. All schools were guilty to some degree. Nothing was done about the situation although what was going on was common knowledge to all parties concerned, including the Western Conference Office.

So what happened? A new plan of athletic aid was drawn up which encompassed all the current illegal practices and, *because it made everyone honest and happy*, the plan was voted in.

The new code eliminates the scholarship requirement and substitutes the need as its primary consideration. The only scholastic requirement is that the athlete must be able to meet University entrance requirements. The philosophy behind the program is that, through financial assistance provided, an athlete has the opportunity to receive a college education in return for playing football.

Most football players, it seems, come from families which might find difficulty in supporting a boy in college.

The athlete would receive financial assistance equal to the cost of attending the University of his choice for one year *minus* any and all financial aid that he might receive from any source, including that assistance which his family can reasonably provide. He would receive the equivalent of room, board, tuition, books and fees but not personal or incidental expense money.

The amount of aid for each athlete would be determined by the Conference Office on the basis of a confidential report of income and assets received from the family. Should the athlete work during the school year, monies received would be subtracted from the amount of his total aid. The athlete would be allowed to keep money earned during the summer so as to help

(Continued on page 6)

Based On Need

The Western Conference has ruled that financial aid to college athletes of the future will be based on need and not on scholastic standing.

The legislation, scheduled to become effective June 15, provides for students participating in athletics to receive money for room and board, tuition, fees and books. How much an athlete will get to defray these expenses (estimated at Minnesota to be about \$1000 a year for residents) depends on the interpretation of regulations which the Conference has set up to determine "need."

Minnesota was one of the four universities voting against the resolution passed at a Western Conference meeting held in Chicago last December. Also opposed were Ohio State and Northwestern as well as Iowa, football conference champion and Rose Bowl victor.

According to Bill Reed, assistant Big Ten commissioner, the new plan will "stop" all bidding among conference schools since all athletes will receive the same aid at every school in the Big Ten."

The overall plan calls for an elimination of Minnesota's job program which paid athletes up to \$100 a month, a deduction from the initial grant of any money earned off-campus during the school year, and a deduction from the initial grant of any money awarded for scholastic ability. (In past years, the Williams Scholarship fund has provided up to \$750 a year to athletes who met scholastic requirements specified by the Western Conference).

The new plan also provides the following:

- A student athlete must apply for aid between June 15 and Aug. 1. He may make application at more than one Big Ten school but, once he is committed, he may not receive aid from any other conference school. No aid will be given after Aug. 1 in order to avoid the last-minute rush in recruiting.

- Each applicant must submit an accurate statement of his personal and parental financial situation. A board similar to the College Scholarship service of New York (an independent company now serving the Ivy league) will determine the athlete's basis of need from that statement.

- A limit of 100 athletic grants can be given by each Big Ten school. After four years, a school may have 400 athletes on tenders.

- Money earned by students on summer jobs will not cut down the amount of aid to an athlete. How-

ever, neither summer nor winter jobs can be secured through any member of the athletic staff.

- Money made on the sale of football tickets by athletes is to be considered as personal income during the school year and subsequently deducted from the total unearned aid.

- An entering freshman will have no scholastic requirements beyond entrance requirements. He must, however, remain eligible for athletic competition during succeeding years in order to continue to receive his unearned aid.

- Tenders will be issued for a year at a time and will be examined each year to determine any change in the financial status of the student.

The formula to determine need is adjustable to whatever family income is under consideration, according to a spokesman for the Big Ten.

In practice, a state student from an average Minnesota family (\$4500 income per year and containing
(Continued on page 6)

Regents Disapprove Ruling

University Regents, following a meeting to study the new conference ruling, issued the following statement:

"The Regents of the University, believing that the athletic aid program recently adopted by the Western Conference is not conducive to the sound and defensible development of the Minnesota athletic program (or of Conference intercollegiate athletics generally), deplore the adoption of the plan. Accordingly, we instruct the President to enter promptly into urgent discussions with the presidents of other Conference institutions to the end that the present plan may be vacated, and the problem of athletic aid reexamined."

The Regents' statement continued:

"We further instruct the Chairman of the Board to inform the chairmen of the boards of other Conference institutions of our attitude and to transmit to them a copy of this action."

Pres. Morrill has announced that he will present the Regents' position at the conference of Big Ten presidents to be held in Columbus, Ohio, on April 30.

The Free Ride

(Continued from page 4)

him with his personal and incidental expenses during the school year.

Athletic department employees, including coaches, cannot assist in finding jobs either on or off campus during the school year or during summer vacation.

Each University is allowed 100 accepted initial athletic grants or tenders (as they are called) each year. For the four years of college, this means 400 tenders. Tenders cannot be offered before a specified date and, once offered, must be accepted in writing within twenty-one days. Once a school is selected and a tender accepted, the athlete cannot accept a tender from another school. Tenders are offered for one year and are renewable.

What does this add up to? In plain words, it means that the Western Conference, unable to live within the liberal program of their own creation, changed those rules to conform to the present under-the-table practices.

The scholarship requirement has been all but eliminated. *Now instead of college boys playing football as a sport, we have football players coming to college so that they can play professional football.* This is a temporary step before all-out professionalism of college football—that is, *pay for play.* It means, too, a real financial burden for most schools of the Western Conference. While no cost estimates have yet appeared, they can easily be figured. Roughly, it costs about \$900 to \$1000 a year for room, board, tuition, books and fees at most Big Ten schools and *these are minimum figures. Without applying the factor of need, one hundred tenders add up to between ninety and one hundred thousand dollars.* With four hundred tenders possible under the new plan, *the total cost of the program will be between three to four hundred thousand dollars.*

The plan, however, is based upon the need factor, that is, how much the family and the boy can furnish toward the total cost of the year's education. This amount is subtracted from the total aid the athlete can receive. How much will that be? Football players come from families in the medium or low income groups. So, arbitrarily set the amount of help that the family can give at 25% of the year's cost (about \$250.00). Even with this figure (which you can be sure is high), *the total cost of administering the new athletic aid plan will be between two hundred seventy to three hundred thousand dollars a year—every year!*

Where will the money come from? It can come from any source. No restrictions are imposed. The guess is that it will come mainly from gate receipts. However, the use of gate receipts could

Athletic Aid Based on Need

(Continued from page 5)

three children) would be required to pay \$50 a year toward room, board, tuition, fees and books. All incidental fees or travel costs must be provided by the student himself.

The new plan places no restriction on the source of funds to implement the program. Money can come from gate receipts or public subscription. Ass't Commissioner Reed, during a recent visit on campus, reported that schools may also utilize a work program to provide an athlete with aid to pay expenses.

While restricting conditions of employment, the Conference ruling permits a student to receive loans, from an agency of the University which makes loans to students generally, or from an established lending agency. However, such loans must carry "an enforceable liability for repayment within a fixed term."

Member institutions will report annually to Commissioner Kenneth L. (Tug) Wilson on the total expenditures for financial assistance to athletes. This report will be itemized to indicate expenditures for unearned aid and for employment wages. In addition, the report will indicate the source of funds for these expenditures.

Both individual athletes and members of the Big Ten conference will be penalized for violations. According to the ruling, any student who is the recipient of financial assistance other than what is authorized will forfeit all eligibility for intercollegiate athletics at any Big Ten school.

Any member university that employs or retains on its athletic staff anyone who has directly or indirectly violated the new ruling shall be required to show why its membership in the Conference should not be suspended or terminated.

so reduce athletic income that the result would be the curtailment of the entire intercollegiate program of athletics. Also, use of gate receipts may well eliminate the possibility of additional athletic areas and facilities, or their proper maintenance or rehabilitation. Either this alternative or the use of general University support funds to pay the cost of intercollegiate athletics. You can be sure it means higher-priced football tickets in order to help support football players.

It is an impossible plan, ill-conceived, unworkable, leading to outright professionalism. The only hope is that somehow a limit on the number of tenders and the amount that can be spent for athletic aid will be put into effect and then enforced. Be sure to read the full report on the new Conference plan of financial aid to athletes. It's a sad story.

Sincerely,

Ed Huselet

GOPHER GRAD

*Brains, not bombs, are represented
in the Outstanding Achievement
Award Winners who form the*

U-235 CLUB



Four alumni of the University joined the group of 231 past winners of the Outstanding Achievement Award during a festive honors luncheon on Charter Day, Feb. 28.

Pres. J. L. Morrill, introduced by MAA President Glenn Seidel, conferred the University's highest honor on Cecilia H. Hauge '29 BS RN, director of the Veterans Administration's far-flung nursing service, Washington, D.C.; James Dennis Boyle '17BS, retired rear admiral of the U.S. Navy, Alexandria, Virginia; Dr. James W. Papez '11MD, director of Ohio's department of public welfare and a research anatomist, Columbus; and Jack Lamont Van Volkenburg 1923-27, member of the board of directors at CBS, Inc., and former president of CBS-TV color television, Florida.

The occasion, which also commemorated the 106th birthday of the University, marked the first time that the Alumni Honors Luncheon had been held and the first time that all previous award winners had been invited to participate as a group in the Charter Day ceremonies.

Among the 33 award winners present to honor the

new recipients was the oldest alumnus with this distinction—Charles L. Sommers, a member of the 1890 class from St. Paul. Sommers, a sprightly 87 years, has taken a keen interest in alumni activities. His award for exceptional professional attainment was made three years after the program was activated under ExSecy Ed Haislet in 1948. (At that time, also, the Association was renamed from General Alumni Association, by which it was known since its organization in 1904, to Minnesota Alumni Association).

From a two-man award program launched at an alumni dinner (June 11, 1948) with recognition of William W. Will '05MD of Bertha, Minn., and the late Halsey W. Wilson '90-91A '91-92E of New York, the awards increased to 20 in 1950 and then jumped to 101 in 1951. On the average, however, about 20 alumni per year have been honored. Their addresses, today, range from Minneapolis to Australia.

Minnesota leads the states with 74 award winners now in residence and New York is second with 34. California has 14; Washington has 11 and Illinois and Pennsylvania have nine each. Areas represented (in



Cecilia Hauge
(left) and James
Boyle



Jack Lamont Van
Volkenburg (left)
and Dr. James
Papez





Senior OAA holder Charles Sommers '90BL (second from right) at Feb. 28 alumni luncheon with Max E. Ernst '09DDS, St. Paul; Elmer Englebert, Sr., '20BSB, St. Paul; and Miss Bernice Gestie '37MA, Minneapolis.

addition to Australia): Canada, England, Hawaii.

Sommers, as the senior alumnus to hold the award (and one of the oldest living alumni of the University along with Alfred Graber '88 of Minneapolis), represents the oldest University class (1890) with a recipient.

At least one graduate of every class from 1890 to 1936 has been since honored. The rest of the awards are distributed to class members of the next ten years; however, no graduate beyond 1946 has yet been considered by the University Honors and Administration Committee since prolonged exceptional performance is a requirement for the OAA.

In every case of recommendation, the Board of Regents must make final approval. According to a recent survey, the 10 years from 1921 through 1930 produced the greatest number of OAA winners—90 alumni in all, with the class of 1924 leading all others with 15 recipients. In the same length of time but for the classes from 1890 and 1901, 22 graduates have been honored; from 1901 through 1920, 98 graduates have been honored; from 1931 to 1946, 25 graduates have been honored.

Of all recipients, the institute of technology claims the most, having graduated 54 of the distinguished winners, and SLA is second with 53 representatives.

Among alumni of other schools are 26 from agriculture, 28 from education, 19 from medical school, 12 from dentistry, and 11 from law.

Medicine, law, publishing, business, journalism, politics, engineering, education and scientific research are only a few of the professions to which these alumni have made outstanding contributions.

Well-known among educators are Fred L. Hovde, '29BChemE, president of Purdue University in Lafayette, Indiana, and Raymond B. Allen, '24BS '25MA '28MD '34PhD, chancellor at the University of California in Los Angeles.

Prominent in national political circles are such figures as Harold Stassen '27BA '29LLB, disarmament

advisor to Pres. Eisenhower, and Bradshaw Mintener '29LLB, Washington, D.C., lawyer.

In business are leaders such as Henry Donald Campbell '02BA '04LLB, director of Chase National Bank in New York; S. Clark Beise '23BAA, president of the Bank of America in San Francisco, and Fred R. Kappel '24BEE, president of the world's largest utility—American Telegraph and Telephone Co.

Well-known in military circles are Maj. Gen. Richard C. Lindsay '26-28 of Washington and Maj. Gen. Leif J. Sverdrup '21BSCE, now president of Sverdrup and Parcel Engineering firm in St. Louis.

In government are Victor Christgau '24BS, director in the Department of Health, Education, Welfare & Social Security in Washington, and Miss Pearl McIver '19GN, chief of the Division of Public Health Nursing in Washington.

Outstanding among scientists is Dr. Paul E. Klopsteg '11BS '13MA '16PhD, professor of applied science at Northwestern.

Scientists include two chief project engineers for aircraft companies—Walter A. Spivak '33BAE of North American Aviation in Los Angeles, and Robert H. Jewett '31BAE, in the Pilotless Aircraft of Boeing Airplane Company, Seattle.

Two persons of prominence in the publishing world are Howard Haycraft '28BA, president of the H. W. Wilson Company in New York, and Arthur "Red" Motley '22BA, head of *Parade* publications.

In the field of journalism are such personalities as Eric Severeid '35BA, chief of the Washington staff for CBS, and Harrison Salisbury '30BA, Moscow correspondent for the New York Times.

Of the many presidents, vice presidents and board chairman for nationally known companies, Fred A. Davies '16EM appears to have the longest distance over which he must coordinate his business. Davies is chairman of the board for Arabian-American Oil Company, Dhahran, Saudi Arabia, and operates out of New York.

Figuring strongly in the development of the Northwest are Industrialists James Ford Bell '01BS and John S. Pillsbury '00BS.

Other alumni widely known for their public service are George Selke '16BA, Commissioner of Conservation, St. Paul, and Samuel C. Gale '17BA, consultant for General Mills, and Dean M. Schweickhard '27MA, state commissioner of education, St. Paul.

Three of the alumni currently on the MAA executive committee or on the board of director hold the OAA. This group includes Hibbert M. Hill '23BSCE, past president of MAA and chief engineer in charge of engineering and design activities for Northern States Power Co. in Minneapolis; and Directors Elmer E. Englebert, Sr., '20BSB, president and manager of the St. Paul Book and Stationery Company; and George W. Morgan '05BA, St. Paul.

Both past treasurers and the majority of past presidents of the MAA are recipients of the award for exceptional professional contribution.

Happy Campus Carnival

goers convert fun

and frolic into —



Scholarships

Barnum & Bailey Style

An All-University student project which started for fun now nets more than \$5,000 a year for loans and scholarships.

Campus Carnival — *Carni* to the 2,000 students who mix fuss with frolic to stage this junior Barnum & Bailey show — has come to rank second only to graduation as the single greatest event on the student calendar.

In the past seven years, \$72,738.52 has been grossed from carnival activities and, after expenses, the net turned over to the Social Service Council for administration.

"Whatever the carnivals have done is a cooperative victory," said Bill Youngquist, 1957 General Chairman of the Campus Carnival executive committee.

Youngquist, IT senior and member of Alpha Phi Omega which has directed six of the past seven carnivals, added:

"Many never realize that every single organization on campus pitches in to make this the most-worked-at project we students sponsor."

April 26-27, the date this year's carnival will be staged in the Fieldhouse, marks the 37th birthday of the event. But, according to Dick Gabriel, Alpha Phi Omega president and SLA junior from Milwaukee, the carnival was held intermittently up to 1949 when it

was revived by the Grey Friars to become an annual event.

Two-day carnivals were only one-night stands when the first carnival was held in 1920 and, according to Gabriel, even as late as 1949. That year, the Grey Friars (working closely with the Social Service Council which is responsible for all money-collecting drives on campus) accumulated the interest and labor for about 35 shows and concessions. At that time, also, campus organizations laid down the pattern which now governs every year's planning:

Preparations begin in the fall;

Responsibility is divided between the general chairman and the office, promotions, campus relations, business and arrangements committees;

By the end of January, there is a daily round of meetings, correspondence, personal contacts and publicity releases;

By opening night, the carnival scene is a jungle of canvas, poles, sawdust, noise, hawkers and high spirits.

The 1949 carnival, bucking up against the fact that it was an upstart on campus, skidded past being in debt and turned in just under \$1,400 for student use.

Four times that much was netted through each of the carnivals in 1950, '51 and '54. In 1955, the student-promoters were jubilant when they made \$1,300 more



Cotton Candy,
a carnival necessity, is enjoyed by a Carni performer taking a break between shows. Background sign advertises the popular "ugliest man on campus" contest. (Photos courtesy of MINNESOTA GOPHER)

than any previous year by netting \$5,662.58. But, last year, carnival proceeds were even greater, netting \$5,782.72.

A look at last year's book showed that students who made money for the fun of it offered a sum divided up this way:

Social Service Contingency Fund (to back campus drives)—\$466.62; Dean Johnson Scholarship Fund—\$200; SPAN—\$706.10; Social Service Council Scholarship Fund—\$3,810; and Exchange Student Scholarship—\$600.

According to the Alpha Phi Omega president, the past six carnivals have earned more than \$25,000 for scholarships alone.

The scholarship money as well as carnival proceeds which go to service funds is earned practically ten cents at a time. Faculty advisors Edith Stedman and Hal Strom, senior personnel workers, said that, while everything sells to net up to 100% profit, each ticket costs a dime and will admit one to see almost any show or try any food under the big top.

A 50¢ admission charge is made to supplement the low cost of 40-45 competitive events expected this year. The 70-campus organizations plan these events to include everything from comedy under the canvas to hot dog stands and the 'leaning tower of pizza.'

In previous years, students also set up smelt-fry stands and organized and stocked a cake walk.

Imaginations ran rampant in the concoctions of games for last year's carnival.

For example, the Delta Tau Delta created a Rube Goldberg-type device which went into action when a target was hit. The device was named "Dunka Delt" which implied what a patron could expect in the end. On the last arm of the contraption, some hapless volunteer would end up being dumped into the water.

Or, to accommodate the person with pent-up frustrations, one enterprising organization dragged an old car into the area and charged a fee to anyone wishing to take a swing at the car with a sledge hammer.

Another group set up a jail where, for the purchase of a ticket, one could choose his victim (as well as his abode) for an hour or so. Another ticket would bail the victim out. However, to eliminate the possibility of objection from any potential prisoner, the group used only the prettiest and sweetest 'jailers' to be found among campus coeds.

Climaxing the carnival each year is a 'mystery person' contest in which the student who guesses the mystery person's identity wins a prize. In the past, the prize has been an automobile but committee officials have intimated that this year's prize may be an all-expense vacation trip for two. Clues to the person's identity are printed in the *Minnesota Daily* before the carnival begins.

The mystery personality in 1955 was Bronko Nagurski 1926-33 and, in 1956, Pug Lund 1931-35, former president of the MAA. The two alumni personalities were apparently in the best of company. In 1954, the committee chose another almost-equally famous person—Actress Liz Taylor.

Annual MAA election time—

Board Candidates Readied for Voters

Ten candidates for the five positions being vacated on the MAA board of directors have been announced by Hibbert M. Hill '23BSCE, Minneapolis, chairman of the nominating committee.

ExSecy Ed Haislet indicated that the voting period officially opens as soon as members receive the April *Gopher Grad*. Ballots must be in by May 28 and results will be announced at the Board of Directors meeting on June 2.

The nominating committee, appointed by MAA president Glenn Seidel '36BME, Minneapolis, includes Rev. Wilbur Korfhage '23BSAg, Minneapolis; Clifton French '48BSEd '49MED, Minneapolis; Gordon I. Swanson '42BS '47MS, '54PhD, St. Paul; and Russell E. Backstrom '25BSME '27MSME, Minneapolis, president of the school of business administration alumni association; and Hibbert M. Hill '23BSCE, Minneapolis, who is the chairman.



Mrs. Chope



Wendell Burns

ings and Mortgage Division, American Bankers Ass'n. Treasurer of the MAA for the past three years; holder of the University's Outstanding Achievement Award.

CHARLOTTE WINGET CHOPE '27BA, incumbent from Wayzata. Associated with Dewey Newcombe, Appraisal Research. Became first woman to hold elective position in Minnetonka township when voted town clerk, occupying office for six years. Homemaker. Was an incorporator of Republican Workshop of Hennepin County and is a member of state board of Minnesota Republican Workshops. Formerly committee member of Women's Club of Minneapolis and active in Minneapolis PTA. Church worker. Luncheon chairman of her class silver anniversary reunion. At University, was on Women's Student Government Association board for four years, first Frosh Week woman's division chairman, on All-U Council, and member of Maskers, National Collegiate Plays and Phi Beta Phi. Graduated cum laude.

LAWRENCE S. CLARK, SR. '22BS-(BUS) of Minneapolis. Vice president of the Twin City Hardwood Lumber Co.,



R. E. Backstrom



L. S. Clark, Sr.

St. Paul. Secretary of Youngblood Lumber Co., Minneapolis. Member of National Wholesale Hardwood Distributing Yard Ass'n, (president in 1951-52); Masons (K. T. Shriner), Minneapolis Athletic Club and Business Men's Ass'n; Twin City Purchasing Agents Ass'n; Photographic Society of America; American Philatelic Society; president of the Collectors Club of Minneapolis. Trustee of Northwest Benefit Ass'n; board member of the Concatenated Order of Hoo Hoo. Belongs to Alpha Sigma Phi, Alpha Kappa Psi, Phi Beta Kappa, Beta Gamma Sigma, Pi Kappa Epsilon, Sigma Delta Chi, Delta Beta Chi, Delta Beta Xi. Contributes articles to trade journals. Past president of the school of business

WENDELL T. BURNS '16BA, incumbent from Minneapolis. Since 1951, senior vice president of Northwestern National Bank, Minneapolis. Director of Title Insurance Company of Minnesota; vice president of Minnesota Orchestral Ass'n, Twin City Area Educational Television Corp., United Hospital Fund of Minneapolis and Hennepin County; treasurer of Minneapolis and Hennepin County American Red Cross Chapter, Minnesota Historical Society; member of the Ass'n of Reserve City Bankers, Governmental Securities Committee (Investment Bankers Ass'n), Minneapolis Club and of Phi Beta Kappa, Delta Sigma Rho and Delta Upsilon. In 1952, elected to a one-year term as president of the Sav-

ASSOCIATION

administration alumni ass'n and recipient of the University's Outstanding Achievement Award.

RUSSELL E. BACKSTROM '25BSME '27MSME of Minneapolis. Manager Western Industrial District, Wood Conversion Company in St. Paul. Associated with Wood Conversion since 1927 in research, sales engineering and sales management. Member of St. Paul YMCA management committee and of Tau Beta Pi, Pi Tau Sigma, Sigma Zi, Triangle Fraternity. Formerly president of Minnesota chapter, American Society of Heating and Air Conditioning engineers; Twin City Chapter, American Society of Refrigerating Engineers; and the alumni association of the institute of technology. From 1940-43, member of the MAA board of directors. Recipient of the University's Outstanding Achievement Award.

WALTER G. BENJAMIN '18BS '20BM '21MD of Pipestone. Physician and surgeon at Pipestone since 1924. Member and former president of the Pipestone Civic Commerce Ass'n, of the



Dr. Benjamin



R. W. Hanson

Kiwanis and of the Southwestern Minnesota Medical Society. Member of American Medical Ass'n, Minnesota State Medical Ass'n and Surgical Society; belongs to Public Policy Committee, Physician's Assistance Committee of the State Medical Ass'n, Alpha Omega Alpha and Alpha Kappa Kappa, medical fraternity. Interned at Minneapolis General Hospital, surgical residency at Mayo Clinic; member of the alumni association of the Mayo Foundation. Son Robert B. at present in surgical residency at Ancker Hospital and Son Roger J. is freshman in medical school. Likes color photography, travel, big and small fishing and hunting.



C. J. Hemming



H. L. Rosenblatt

RUFUS W. HANSON '22-24, of Minneapolis. Since 1955, executive vice president and member of the board of directors at First National Bank in Minneapolis. After working with firm of Minneapolis certified public accountants, joined First National Bank in 1928. Vice president of First Banccredit Corporation, St. Paul, from 1936-42; elected senior vice president of present organization in 1933. In 1954, named to regional committee to appraise the Reconstruction Finance Corporation loans in connection with liquidating operations of RFC. Director of First Bank Stock Corp., First Service Corp., First Banccredit Corp. Member of Ass'n of Reserve City Bankers; past president of Minnesota chapter of Robert Morris Associates.

CLARENCE J. HEMMING '37BS '41MS of Alexandria. Since 1948, chairman of vocational agriculture dept. at Alexandria high school. Chairman of University Relations committee and State Policies committee for Minnesota Vocational Agriculture Instructors Ass'n., Ass'n president in 1954; board member of Minnesota Vocational Ass'n and Douglas County Education Ass'n; president, Alexandria School Employee's Credit Union; member of National, Minnesota, Alexandria Educational Ass'ns, and Minnesota Citizens Committee for Public Education; secretary of Kiwanis Club, West Central Circuit of County Fairs; treasurer of Douglas County Fair; past president of Douglas County Council of Cooperatives; past president, secretary and treasurer of the Douglas County MAA. Member Alpha Gamma Rho, Alpha Zeta, Gamma Sigma Delta, Alpha Sigma Pi, Agricultural Education Club. Graduated with distinction.

HERMAN L. ROSENBLATT '33BA of Minneapolis. Vice president of D. B. Rosenblatt, Inc., garment manufacturer; former editor and publicity director for Wetzel Publishing Co., book publishers,

Los Angeles; former copywriter and researcher for Hanff-Metzger Advertising Agency, Los Angeles. Member of Khurum Masonic Lodge, Scottish Rite and Shrine, Minnesota Apparel Industries, Standard club and Minneapolis Chamber of Commerce; active interest in Metropolitan Stadium, Stadium club member and Williams Scholarship (University athletics) Fund. On class committees for Five-year, Ten-Year and Fifteen-Year reunions, speaker for class at Fifteen-Year gathering. Former executive committeeman for Southern California MAA and former member of Los Angeles Big Ten club.

JANET HART WIDSETH '39BS of Minneapolis. Homemaker. Chairman of Local Gov. committee for League of Women Voters, Minneapolis; member of schools' task force of capital long-range improvements committee and chairman of its schools' cost sub-committee; on Citizens' League of Minneapolis and Hennepin County, and Citizens' Committee on Public Education; active in Edison high school PTA and legislative chairman for Northeast junior high PTA; member of Alpha Chi Omega sorority and Omicron Nu, honorary society. Chairman of class reunion in 1954. Graduated with distinction.

HARTWELL WILKERSON '28BS of St. Paul. Partner in firm of Hines and Wilkerson, certified public accountants of St. Paul. Active in civic affairs as member



Mrs. Widseth



H. Wilkerson

of board of directors for St. Paul Community Chest and former finance officer of member agencies—International Institute and YMCA. Member of Zeta Psi fraternity, American Institute of Certified Public Accountants, St. Paul Athletic Club and St. Paul Chamber of Commerce. Vice president of school of business administration alumni association.

The Minnesota Alumni Association

The accompanying list of 10 candidates is hereby certified as correct. Each association member will vote for five directors to serve for four-year terms.

Signed:

Rev. Wilbur Korfhage, '23BSAg
Gordon I. Swanson, '42BS '47MS '54PhD

Clifton French '48BSEd '49MED
Russell E. Backstrom '25BSME '27MSME

Hibbert M. Hill '23BSCE
Chairman, Nominating Committee

OFFICIAL BALLOT

(Five to be elected for four-year terms)

- WENDELL BURNS '16BA (Incumbent).....
Minneapolis
- CHARLOTTE WINGET CHOPE '27BA (Incumbent).....
Wayzata
- RUSSELL E. BACKSTROM '25BSME '27MSME.....
Minneapolis
- WALTER G. BENJAMIN '21MD.....
Pipestone
- LAWRENCE S. CLARK, SR. '22BS(B).....
Minneapolis
- RUFUS W. HANSON 1922-24.....
Wayzata
- CLARENCE J. HEMMING '37BS(Ag) '41MS.....
Alexandria
- HERMAN L. ROSENBLATT '33BA.....
Minneapolis
- JANET HART WIDSETH '39BS(HE).....
Minneapolis
- HARTWELL WILKERSON '28BS.....
St. Paul

I certify that I am a member of the Minnesota Alumni Association and entitled to vote.

Signature _____
 Address _____
 Print Name _____
 Graduation year or years attended _____

INSTRUCTIONS

1. Place an X opposite each person for whom you wish to vote. Do not vote for more than five or ballot will not be counted.

2. Sign ballot with full name and initial. Print same, as all ballots will be checked against official membership list and it is important that your name is legible.

3. Clip ballot and send to Executive Secretary, The Minnesota Alumni Association, 205 Coffman Memorial Union, University of Minnesota, Minneapolis 14, Minnesota. No ballot will be accepted on any other form.

For assured secrecy in submitting ballots, the mailing envelopes may be marked "Ballot" or enclosed within the mailing envelopes in a separate envelope so marked. All envelopes so labeled will be opened only by the election tellers.

4. Ballot must be in the office of the Executive Secretary by May 28th in order to be counted.



CLIP AND MAIL TODAY

SUMMA CUM LAUDE

To



Public Relations Man . . .

Ward B. Stevenson on being named president of General Public Relations, Inc., the public relations subsidiary of Benton & Bowles, Inc., New York. Mr. Stevenson has been with Benton & Bowles as vice-president and public relations director since August, 1955. For 12 years previously, he was with Pillsbury Mills in Minneapolis, serving in the industrial relations department and subsequently as director of management development and director of public relations. Before going to Pillsbury he was on the staff of Associated Industries of Minneapolis. He served for the last two years as treasurer of the Public Relations Society of America, and is a member of the Advisory Board of the Air Training Command, U.S. Air Force. Stevenson attended the University from 1937-39.

Lady of Mercy . . .

Col. Inez Haynes '55BS who, this year, celebrates her third anniversary as chief of the Army nurse corps. Col. Haynes, a graduate with distinction in nursing education, has been with the army nurse corps since 1933. After service both in the U.S. and overseas, she was assigned to Minnesota to continue studies during which she was probably one of the few lieutenant colonels in the country working for a BS degree. She became deputy chief prior to assuming the top job. She completed her first training in 1931 at Scott White Memorial Hospital, School of Nursing, Temple. Her home is in Muleshoe, Texas.



A Top ChemEngineer . . .

D. F. Jurgensen on being named vice president in charge of development and research of Blaw-Knox Company, Pittsburgh.

Dr. Jurgensen will head activities to broaden the scope and intensify the scientific impetus of the company's activities in product improvement and new product development.

A reserve officer, he served on active duty during the war as chief engineer at the Chemical Warfare Service Development Laboratory at M.I.T. His background also includes research experience with a building materials manufacturer and a petroleum refiner.

A native Minnesotan, Dr. Jurgensen received a '31BChem '32MS '34PhD. He has 11 patents and patent applications filed in his name and has participated in other patented product developments.



The Real Mac GUF

Robert P. Provost
Director of the Greater University
Fund (GUF)

The new Western Conference Aid Program explained in this issue (see page 5) will bring to an end a successful special GUF project—the Williams Fund to encourage the participation of young men in intercollegiate athletics. Continuing support by interested alumni and friends in Minnesota athletics will still be possible. However, since over-all financial implications of the new aid program are the responsibility of the Regents, the extent the Williams Fund will participate has not yet been determined.

The Henry L. Williams Scholarship Fund was approved by the Board of Trustees of the Greater University Fund on June 22, 1949. It was the 17th special project undertaken by the Fund.

Since 1949, a total of 444 scholarships have been granted. Last year, 82 young men representing seven sports received an average grant of \$242.00.

According to Athletic Director Ike Armstrong, the Williams Scholarship Program (in cooperation with the job work program in the Twin City area) has enabled the University to compete favorably in the past with those institutions operating on the "free-ride" basis. Of course, the new conference aid plan precludes using the job program and thus places greater responsibility on the Williams Fund.

Each year since 1949, an active campaign in behalf of the Williams Fund has been conducted under the chairmanship of Roy Larsen, President of Twin City Federal Savings and Loan Association. A great deal of credit for the financial success of the Williams Fund through the years must go to Mr. Larsen and his personal interest in seeing the University's athletic program rise again to a place in the sun.

APRIL, 1957



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Sample swatches and catalogue upon request.

* Du Pont's fiber

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“Western Electric is
helping me get
my master’s
degree”



JOHN MORAN, who joined Western Electric's engineering staff at the Kearny Works recently, is now studying for his M.S.M.E. under the new Tuition Refund Plan. Western Electric expects to refund the tuition for John's graduate study at the Newark College of Engineering this year.

Western Electric's new TUITION REFUND PLAN can help you continue your studies while launching an exciting career

Under the new plan, Western Electric will refund tuition costs for after-hours study at graduate or undergraduate level, up to a maximum of \$250 for each school year.

Say, for example, that you decide on a career at Western Electric in one of many rewarding phases of telephony—electronics, development engineering, design, manufacturing production, plant engineering, or some other. You may be eligible for financial assistance to help defray the cost of graduate or other study from the very first day. Choose engineering, science or any course that is appropriate to your job or that adds to your ability to accept greater responsibility, and the Company will refund to you up to \$250 a year for tuition. (You'll note from the map on this page that Western Electric's work locations are well situated in terms of major population areas. That means that many of the nation's best schools are close by.)

Plus values, like the new Tuition Refund Plan, give Western Electric engineers many opportunities that others never have. There's specialized training both in the classroom and on the job... a formal program of advanced engineering study that includes full-time, off-job courses of up to 10 weeks' duration... a retirement and benefit program that's one of the best known and most liberal in industry... low-cost life insurance that would appeal to any man with his eye on the future. And of paramount importance is the chance to work alongside top men in the field of communications.

There's a good deal more for which there isn't space here. Why not write us or contact your placement office to schedule an interview when Bell System representatives visit your campus.

As one of us, you'd help engineer the manufacture, distribution or installation of the equipment needed for the nation-wide communications network of 49 million Bell telephones.

Here—where transistors were first developed for production; where repeaters for the new transatlantic telephone cable were tailor-made—there's a constant need for new products and new processes. Two-thirds of the equipment we make today for the Bell telephone companies is of types developed since World War II.

Besides telephone work, Western Electric—over the years—has been responsible for a continuous flow of defense jobs for the government such as the Nike guided missile system and the DEW Line.

There's plenty of room for advancement... whatever your field of specialization. So—whether you'd be helping with our telephone job, or working on a major defense project like guided missile systems—with Western Electric you can expect to grow!

For our College Tuition Refund Plan booklet and additional information about Western Electric write: College Relations, Room 1034, Western Electric Company, 195 Broadway, New York 7, N. Y.



Western Electric has major manufacturing plants located at Chicago, Ill., Kearny, N. J., Baltimore, Md., Indianapolis, Ind., Allentown, Pa., Winston-Salem, N. C., Buffalo, N. Y., North Andover, Mass. Distribution Centers in 30 cities. Installation headquarters in 16 cities. General headquarters: 195 Broadway, New York, N. Y. Also Teletype Corporation, Chicago 14, Illinois.



What Puts The Sing In Spring?

The spirit of spring which touches everything on campus brings general significance to some and special meaning to others. Spring means (pictured here, counterclockwise): carnival time when the campus cop emerges from hibernation to direct traffic in the streets, direct traffic on the lawns and to maintain disorder generally; no more climbing of slushy, mushy stairs in that daily trek from the parking lot on the river flats; a strong battle at hand for Baseball Coach Dick Siebert who defends a mittful of titles and, for his team, firm ground underfoot and clear air overhead for overdue practice sessions.

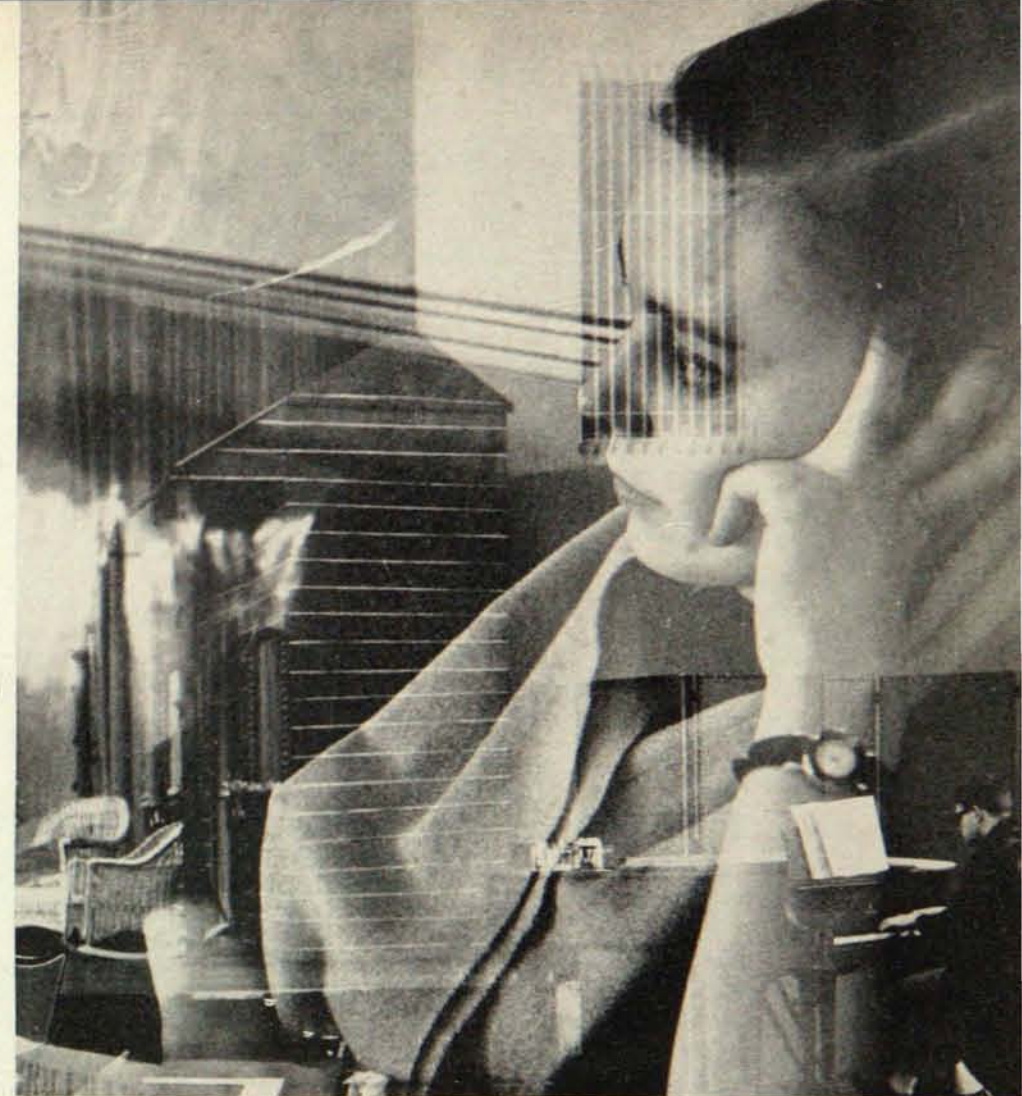
To all students, it's a struggle to forget you're still tired from exams and to remember you have to begin all over again in the labs and on the books; to Journalism Prof Raymond B. Nixon '42PhD, it means he and his wife are headed for a first-hand, six-month survey of the press in Asia and Europe, courtesy of a Ford Foundation grant. These days, too, mean a bout with spring fever - brief, in the case of this man, but almost hopeless, in the case of this pretty coed.



cops



same old fever . . .



Spring in heart

. . . Nixon

stairs



Siebert



. . . and his men



(Photos courtesy of Minnesota Gopher)

study



Postage Forces Playing Cards Price Up

An unforeseen postage development in the mailing of the new monogrammed playing cards to association members has forced the alumni office to increase the price of the item to \$2.50 postpaid.

MAA ExSecy Ed Haislet said that the increase in price was necessary in order to keep the association from losing money in the mailing of the newly-added alumni memento.

The new price of the twin-decked monogrammed cards for non-members is \$3.50 postpaid.

Morrill Addresses Southern Cal Alumni

Pres. J. L. Morrill gave alumni in Southern California a first hand report of the University's increasing responsibilities and the proposed expansion during an address in Los Angeles on March 29.

The president was accompanied by Mrs. Morrill.

Among those assisting in program arrangements were Bob Swenson '29BBA, club president of Pasadena, and Harland Benike '48BEE of Santa Ana, Calif.

Bodien Chosen To Head Class '32 Planning

Gordon E. Bodien '32BCE, Minneapolis, has been selected chairman of the Class of '32 reunion committee according to an announcement by Ray Chisholm, acting secretary.

The reunion date, marking the silver anniversary of the group, will be on May 23. Activities will be held in Coffman union on campus.

Letters to classmates will be mailed out after April 1, Chairman Bodien indicated. He added that the letter will ask each reader to encourage a classmate to attend.

Suggestions for a program during the reunion luncheon are also being sought, Bodien said.

Education Membership Drive Brings In 52

The new membership drive in the college of education alumni association has garnered 52 memberships to date and produced 13 individual contributions to the Peik fund.

Acting Secretary Ray Chisholm, reporting to the board on the two-week-old drive, said he was "cheered by the initial response" which brings the total membership in the constituent group up to 1467.

In a report from Arnold Woestehoff '48MAEd, the directors were informed that about 80 alumni in the Atlantic City area attended a recent Gopher gathering.

To promote the annual meeting of the education alumni association,

Austin Club Names Dr. Leck President

One hundred seventeen alumni and guests of the Austin area attended a recent dinner meeting at which P. C. Leck '27BA '29MS '31MB MD PhD was elected president.

Other officers elected were Rev. Wm. J. Campbell '33BA, vice president, and Winifred Leonard '44MA.

Retiring president Burt J. Plehal '38BBA reported that the success of this particular meeting has caused members to request that an event of this type be held annually.

Morrill, Ford Visit With D. C. Alumni

Pres. J. L. Morrill shared the spotlight with Dr. Guy Stanton Ford, of Washington, D.C., former president, during a recent dinner meeting of the Washington MAA held at the Roger Smith Hotel.

Pres. Morrill, as guest speaker, talked about the proposed University expansion west of the Mississippi. In addition, he praised the Washington group's interest in 'personal' scholarship programs like those of the St. Louis, Pittsburgh and Chicago clubs.

Vice President Jerome Keating '30BA acted as chairman in the absence of the president, C. H. Luedeman, '23BSArchEng.

Secretary Thelma A. Dreis '23BSEd '30MA reported that more than 50 alumni of the area attended.

members proposed that tickets be printed early in order that they can be distributed through Pi Lambda Theta, the education fraternity, before the regular school year ends.

The acting secretary was requested to write letters to presidents of both Pi Lambda Theta and Phi Delta Kappa, asking them to announce the date of the annual meeting to their members.

This year's meeting will be on July 10.

Residents Are Effective In Governing, Dads Told

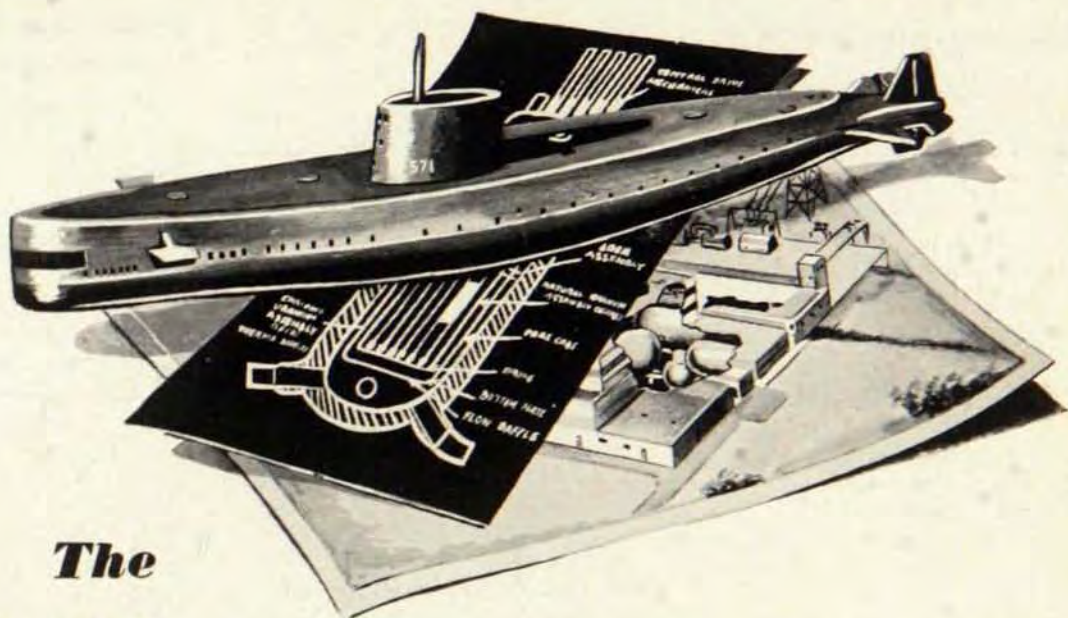
The director of Pioneer Hall told University dads that students living on campus have formed such an effective house or division setup that they are now practically self-governing.

Frank Pearce, in a talk before the Dads' Association on March 12, added that the more than 1200 men in present dormitories have many job opportunities which can help them pay their own way.

Pearce, introduced by Dads' Association President Carlton Cronin, also showed members the film, "Living on Campus."

During the business portion of the meeting Pres. Cronin announced that Norman Nelson would be chairman of the Dads' Day Committee for the coming year. Also appointed to the committee were A. J. Geller, William T. Harris and Harvey Vogel.

The group also accepted the resignation of Nathan Pliam as member of the board of directors and heard a letter of thanks from Robert Provost, director of the Greater University Fund, for the association's recent gift of an additional \$100 to the Emergency Fund.



The
Present
And
YOUR
FUTURE
In
ATOMIC
POWER

The USS Nautilus prototype was the first successful application of nuclear power. In 1957 the nation's first full-scale commercial generating plant at Shippingport will have its turbines powered by a Westinghouse reactor.

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Pfeifer-Shultz Gift Launches IT Drive

The engineering firm of Pfeifer & Schultz, Minneapolis, launched the 1957 IT alumni scholarship drive by presenting a \$400 grant to the IT alumni scholarship committee.

Acting Secretary Ray Chisholm, in making the announcement after the IT board meeting on March 14, said that both engineering partners are former University men—one a student and the other a teacher.

Otto Pfeifer, Jr. '29BME '35MSME (the student) is at present active in alumni affairs. He is committee chairman of mechanical engineering and chairman of the IT alumni scholarship drive.

The other firm partner, Emmett Shultz, taught in the Institute from 1924-37.

The scholarship committee has indicated a goal of a minimum of 24 scholarships in all—three from each of the eight areas of technology represented in IT.

"But," said Pfeifer, "we hope for five."

In other discussions, Paul W. Salo '32 BChemE suggested that members plan a program whereby alumni in various companies offer their services to help IT students

secure summer jobs. Salo pointed out that, under such a plan, the student who has to do summer work would be able to gain practical experience in the field he intends to follow after graduation.

As an example of an advantageous and practical program, he cited Minnesota Mining and Manufacturing Co., St. Paul, which employs between 55 and 60 students each summer.

Other business of the luncheon session, held at Club Criterion in St. Paul, included a crystallization of plans for a May 8 faculty dinner to bring together department heads and IT alumni committee chairmen. For this occasion, IT alumni president Milton S. Wunderlich '19BSEng '20ME, St. Paul, will personally contact IT Dean Athelstan Spilhaus, Dean Elmer Johnson and Dean Benjamin Lazan.

The next board meeting will be April 23, according to Acting Secretary Ray Chisholm.

Smith, Heimbach Plan Fifteenth Year Reunion

The fifteenth year reunion of the class of 1942 will be held on Thursday, May 30, according to Cal Smith '42BBA of Minneapolis.

"We plan a social hour of 'comparison,'" said Smith. "This will be an opportunity for '42 grads to compare success stories, bald pates and what might have been."

Smith, president of the class of '42, and Al Heimbach '42BBA, senior arrangements chairman for the class, have so far chosen the following to assist them in preparations:

Margaret Hagen Smaby '38-42, John Jensen '42BBA, Betty Dice Jensen '41BS, George Rachie '45BA DDS, Roy Johnson '42BBA, Bid Peterson Johnson, '42 BSEd, Bert Lund '42BBA, Bee Roll Heimbach '42BS, Lucille Baliff Smith '42BSEd, Jack Beattie '42BA and Jean Russ Beattie '42BS.

Many of the '42 graduates are scattered all over the United States. Smith indicated that notes will be appreciated from those who will be unable to attend. Address Cal Smith, c/o Cargill, Inc., 200 Grain Exchange, Minneapolis, Minnesota.

Correction



E. Bofferding



L. Nesgoda

The January issue of *Gopher Grad* incorrectly listed the name of Leonard Nesgoda '41BME, Pittsburgh MAA president, under a picture of Erwin J. Bofferding '34BBA '40MA of New York, a partner in the management consultant firm of Cresap, McCormick and Paget. We make this correction with apologies.

Int'l Falls Elects Thompson President

J. R. Thompson '23BS will succeed Tom Bergstedt '52BSEd as president of the International Falls MAA.

The 103-strong Falls unit also voted for the following officers at its annual meeting:

Howard Post '39BS(For), vice president; Mrs. R. D. Hanover '32GN, secretary-treasurer; and Mrs. Harold Moxness '32BS, Warren Peterson '49BME, Mrs. Steve Lucachick '41BSEd and Dr. John Menefee '49BA '54MD, all new board members.

The club welcomed two new members—George Amidon '36BS(For) and Mrs. Floyd Breneman '38BBA of Littlefork.

According to a report from Bergstedt, 151 members and guests attended the meeting.

Seattle Alum Hear University Story, Set April Meeting

A meeting to elect officers and to find a means of unifying alumni in the Seattle area has been tentatively set for April.

Heading the drive to bring the more than 200 Seattle area alumni together are W. H. "Bert" Hagen '20DDS, Seattle dentist and president of the unit, and Owen P. McElmeel '04LLB. Both McElmeel and his son, Eugene '34MD, are long-time supporters of alumni activities.

McElmeel Sr. addressed Gophers during a late February meeting on the progress and promise of the University. Basing his talks partially on recent articles in the *Gopher Grad*, he presented a view of the current expansion problems, legislative issues and the increasing prestige of the University nationally and internationally.

Dean Blegen Studies N. Y. State Education

Dean Theodore C. Blegen of the University of Minnesota graduate school is preparing to return to campus after a leave of absence during which he is studying the research activities, potentialities and problems of the State University of New York. His headquarters are at Albany but he has made personal visits to approximately 15 of the colleges and universities that comprise the state university.

Dean Blegen will prepare a report on his findings and recommendations with respect to research policies, support and the interrelationships of research with instruction.

Berlin U Grant Winner Named

All-University Congress has named John F. Biltz, SLA senior, recipient of the principal scholarship for 1957-58 at the Free University of Berlin.

Congress made the appointment upon recommendation of the selection committee Wednesday.

Four other candidates for the scholarship were named alternates. They are Calvin D. Gruver, SLA senior, first alternate; Mary Anne O. Kertzsch, Education sophomore, second alternate; John R. Morris, Agriculture sophomore, third alternate; and Roger G. Krohn, Graduate student, fourth alternate.

Remedial Reading Course Set for Summer Session

School children who are below capacity in reading ability are eligible to attend the University of Minnesota's eighth annual summer school in remedial reading which starts June 19.

Children who attend will receive individual or small group attention for two hours daily, Monday through Friday for ten weeks. A limited number of pupils may be accepted for the first five-week period only. No new enrollments will be made for the second five-week period.

APRIL, 1957

SLA Faculty Approves Curriculum Changes

Recommendations to align the natural science requirements and the associate of liberal arts degree with the new single plan, a change for the Sophomore Culture Test and requirements for transfer students were passed recently in a special meeting of the SLA faculty.

The faculty moved to require eight credits of laboratory to be included in the 15 natural science credits required under the single plan.

Students entering next fall now must take 15 natural science credits including eight credits in laboratory work in two or more of the science areas including mathematics.

In addition, the faculty voted to revise the requirements for the associate of liberal arts degree to conform with the single plan by having the student choose three of the four group requirements for his 90 credits needed for that degree from the following: humanities, foreign language, natural and social sciences besides completing the English requirement.

Previously students needed only to choose from two out of three areas.

The Sophomore Culture Test will no longer be required for admission into Senior College under a plan approved by the faculty.

A provision was made, however,

for its use by any department, adviser or individual student.

The use of the test as a requirement for honors is currently under discussion by the Honors Committee. Also SLA plans to make an immediate study of an expanded college testing program.

Transfer students now must have a C average in all work applied toward the bachelor's degree whether the work has been taken here or elsewhere. Also only credits of C or better will be accepted from General College transfers under another plan adopted by the faculty.

This change will make it necessary for a transfer student to make up any below C work from another school before receiving an SLA degree. The former policy required that a student make a C average.

Surgery Instructor Gets \$30,000 Grant

Dr. Lloyd D. MacLean, surgery instructor, is one of 25 doctors to receive \$30,000 grants from the John and Mary R. Markle Foundation of New York, which has named them "Scholars in Medical Science." The awards, which went to faculty members of American and Canadian medical schools, were announced recently by John M. Russell, executive director of the Foundation.

Dr. MacLean, 32, joined the University Hospital staff as a medical fellow in 1951. In 1953, he became a research fellow first in the Cancer Detection Center and later in surgery, and a year later he was named research assistant in surgery. He became an instructor in 1956.

Two other Markle award recipi-

ents are University graduates. They are Dr. Robert E. Carter, instructor in general pediatrics, University of Chicago Division of Biological Sciences, and Dr. Russell M. Nelson, assistant professor of surgery, University of Utah College of Medicine, Salt Lake City.

For each scholar appointed, the fund has allocated \$30,000, granted at the rate of \$6,000 annually for five years to their medical schools. Purpose of the scholarship program is to relieve the shortage to encourage young scientists to remain in academic medicine.

UMD Students Cited

One hundred sixty students from 43 Minnesota communities, two other states and Nigeria, Africa, have been cited for outstanding scholarship during 1956-57.

Researcher Cited



Dr. John J. Bittner, director of cancer biology in the medical school's pathology department, has been honored with the 1957 Bertner Foundation award for his "inspirational research on the factors involved in the origin of mammary cancer in mice." The award, established in memory of the first president of the University of Texas Medical Center, was presented to Bittner in Texas and is symbolic of the goal of cancer research — prevention as well as cure.

Greek Week Nets \$10,000

A check for \$10,000 was contributed to the Minnesota Society for Crippled Children and adults — Easter Seal society, by fraternities and sororities at the University of Minnesota. The money was collected by the organizations during the annual Greek week campaign in February.

The fund will be used for construction of an arts and crafts building at Camp Courage for crippled children, located between Annandale and Maple Lake.

Rowell Laboratories Institute Fellowship

Rowell Laboratories, Inc., Baudette, Minn., recently instituted a fellowship at the University.

The fellowship, \$1,500 for the academic year, requires no service and is open to graduate students in the College of Pharmacy. Full time must be devoted by the recipient to graduate study and research.

U Nurse Becomes Consultant In Korea

University of Minnesota operating room nurse Margery Low left in March for Korea to become the first nurse consultant from the University at Seoul National University. She will be in Korea for at least a year.

The University signed a contract in 1954 with the Foreign Operations administration (now the International Cooperation Administration) to help reconstruct the bomb-damaged Korean university. The three-year contract which has been renewed for another two years, calls for an exchange of faculty in the fields of agriculture, technology, medicine and public administration.

Oberg Heads National Music Teaching Group

Paul M. Oberg, chairman of the University of Minnesota music department, has been appointed chairman of the National Association of Schools of Music's committee on improvement of teaching. The University music department is a member of the national association.

At present, Oberg is in Mexico conducting research on 16th and 17th century Mexican music. He will return April 1.

Summer Plan Shortens Law School Course

A summer school program which will permit University of Minnesota law students to reduce by one year the time required to complete their studies will be resumed this year.

In announcing the program, Law School Dean William B. Lockhart and Summer Session Dean E. W. Ziebarth '48PhD explained that it will permit students who enter law school in June to complete the four-year course in three years by attending three consecutive summer sessions. Students who enter with a degree may complete the 3½-year program in January of their third year, saving half a year. First-year law students now may enter law school either in summer session or fall quarter.

U Film Gets Look Award

A film produced by Allen Downs, associate professor of art, was awarded the Screen Producers' Guild and Look magazine award for the best college-made film of 1956 recently in Hollywood.

"Swamp," the winning 16 millimeter sound film, was entered in the fourth annual intercollegiate contest by Wilbur F. Jensen, director of audio visual education.

The film deals with wild life in the Mother Lake area west of Wold-Chamberlain Airport, exploring the swamp area in which natural beauty and bird life are being destroyed by the dumping of City refuse.

Sound for the film was by David J. Karr, unclassified, flute, and Sheldon K. Goldfus, SLA senior, on the drums.

Theater Sales Soar As Students Tour

University Theater ticket sales have broken another record.

Theater officials said recently that mail-order sales of tickets for "A Midsummer Night's Dream" are the largest ever. The sales have been to people all over the Midwest, even as far as Glendive, Montana, where students at Dawson County Junior College ordered tickets for the Shakespearian production.

The players began a tour of North Dakota March 25 when they opened at Valley City. March 29 they returned to the state for a performance at Moorhead.

The last performance of the tour was March 30 at Grand Rapids, after which they returned to Scott Hall to open April 4.

Commenting on the accelerated program, Dean Lockhart said: "Most of our students must give two years or more to military service. The law school faculty concluded that we should do what we could to permit these young men to accelerate their professional training through summer school.



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GUF-Backed Music Scholarship Open

Applicants for the 1957 Antal Dorati Music Scholarship in Conducting or Composition will be interviewed by Dorati up to April 26 and again next fall.

The \$500 scholarship is available to advanced music students for private study with Antal Dorati, Minneapolis Symphony Orchestra conductor, during the 1957-58 year. It is financed by the Greater University Fund.

Winner will receive 26 weeks of personal instruction from Dorati consisting of one formal session per week, ranging in length from one to three hours, with instruction in music aesthetics, composition and orchestral conducting. In addition, he will be allowed to assist at Symphony rehearsals and will attend all rehearsals and concerts held in the Twin Cities.

Competition is open to senior or graduate students majoring in music and specializing in composition or conducting. Graduate credit will be given for advanced degree.

Library Institute Set April 5, 6

The University of Minnesota library school will hold its second annual public library institute April 5 and 6.

Theme of the institute, directed by Frederick Wezeman, library school associate professor, will be "Public Library Finance and Budgets."

UMD Prof Named To Education Post

Clarence B. Lindquist, professor of mathematics and head of the UMD department of mathematics and engineering since 1953, has been appointed to a top position in the higher education division of the U. S. office of education.

He has been named chief for natural sciences and mathematics

Father-Son Team Take Campus Credits

A father and his son have both registered for degree programs in the department of industrial relations.

Sidney Fladeland, a graduate from Bemidji State Teachers College in the two-year program of 1930, has re-entered the University to complete the four-year program. After teaching at Thief River Falls and Iowa City, Ia, he obtained employment at Northwest Airlines where a night schedule of work from 8 p.m. until 4 a.m. permits him to attend the regular day classes on campus.

In about four more quarters he will have completed his work and met requirements for the four year degree.

His son, Gerald, has completed the first degree and is now engaged in a graduate program.

Senior Gets Pfizer Homemaker Award

An award to a former 4-H club agent, now a student at the University, was presented with a \$250 scholarship from Chas. A. Pfizer Co., Inc. Evelyn Gray, Lake City senior, was one of 20 seniors selected in the nation's land-grant colleges this year to receive scholarships from the company. She is a home economics extension major.

Miss Gray's award was based on a teaching plan showing that teenagers' eating habits have a lifelong effect on their health. Outstanding ability in home economics or agricultural extension work were other bases for the award.

For several years Miss Gray served as 4-H assistant in Cottonwood county and, during the summer of 1955 and 1956, she was 4-H assistant in Faribault county.

in the higher education programs branch of the office. Lindquist was sworn in Feb. 15 and began his new duties at Washington, D.C., immediately.

Milwaukee Firm Gives Grant for Barley Study

The University has received \$10,040 through the Greater University Fund from the Malting Barley Improvement association for research by the departments of agronomy and plant genetics and of agricultural biochemistry.

The Milwaukee firm's gift will permit work in agricultural biochemistry on performance of "prediction tests" for malting varieties of barley bred in the department of agronomy and plant genetics. This should make it possible to weed out inferior varieties early in the breeding program when there is only a limited amount of seed available.

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Books

A Treasury of Great Mysteries, edited by Howard Haycraft and John Beecroft, Simon and Schuster, \$5.95 (two volumes), 1956.

This tremendous anthology has been collected with a view to delighting all readers—whether they prefer the most exciting to the best loved or the intellectual challenge of detection to the thrill of the chase. In any case, this is a true anthology. There are eleven stories in the first volume and eight in the second volume.

Among the selections are *Murder in the Calais Coach* by Agatha Christie, *The Secret* by Mary Roberts Rinehart, *Rear Window* by William Irish, *The Big Sleep* by Raymond Chandler, *Instead of Evidence* by Rex Stout and *Rebecca* by Daphne du Maurier.

Haycraft, 28BA, president of H. W. Wilson Company (the world's largest publishers of library indexes and reference books), was born in Madelia. His associate in the work of the anthology, John Beecroft, is from Wisconsin.

"Charcoal Faces" by Mabel Otis Robison 1918-1919, Bruce Publishing Co., Milwaukee, \$2.00.

One of the more exciting books for younger readers from 10 years

old and up is this thriller, rich in authentic *voyageur* and western Canada historical background, by alumna Mabel Otis Robison.

Midwestern Canada plus her native state's Arrowhead country supply the background for the adventures of 13-year-old Louis Riche who sets forth with a colorful array of *voyageurs* from Montreal to the trading post of his father, Simon Riche, in North-



Mrs. Robison

west Territory. The exciting and often dangerous voyage, authentically described by Mrs. Robison, is only the beginning of Louis' adventures, which include a buffalo hunt, an Indian kidnapping, and war between the early Selkirk settlers and the half-breeds, or Charcoal Faces as they were locally known.

Mrs. Robison has a peculiar talent for writing interestingly about and for young readers. Parents as well as youngsters will be additionally pleased by the accurate historical background and detail, the result of painstaking research, which, while enriching the book, in no way detracts from the reader's interest. Mrs. Robison, who resides in Minneapolis, was recently honored by the Minneapolis Writers Workshop for her literary accomplishments.

Flower Growing in the North, by George E. Luxton, University of Minnesota Press, 1956. \$3.00.

Since home gardeners living in regions of very cold winters and short growing seasons find little attention paid to their special problems in most gardening books, they will welcome this month-by-month guide. It relates times of planting, needs for winter protection, and selection of plant varieties to the limitations of the northern climate.

The best of George Luxton's popular gardening columns in the *Minneapolis Sunday Tribune* form the basis of the book. For the winter season there is advice on the care of house plants and how to grow seedlings for transplanting outdoors. For the summer garden-er there is information about annuals and perennials, fertilizers and insecticides, and garden equipment. Instructions on tree, shrub, and lawn care are given, too.

Also included are many of the "Grandma sayings" from Mr. Luxton's newspaper columns.

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BATTER UP FOR NCAA CHAMPS

Will Shapira
Minnesota Daily Sports Editor



Dick Mueller

It might have been an often-mediocre winter season for Minnesota winter sports teams. But two of them got going full speed at the end of the season and one other, wrestling, brought in the Big Ten title. Quickly running down the home-stretch spurts of Gopher clubs, one finds:

(1) Coach Wally Johnson's wrestlers, hot on the winning trail all season, surprised even their coach and earned the Big Ten title by copping the conference meet at Columbus, Ohio.

Oddly enough, the last time a Minnesota wrestling crew turned that trick was in 1941 when Coach Johnson was on the squad. And if the competition wasn't tough enough for the squad, the travel conditions were.

Finding themselves short on expense money just before the meet, the matmen made the 845-mile trip to Columbus by auto, no pleasant task what with winter driving being what it is.

Dick Mueller, only individual title winner for Minnesota at the Big Ten meet held recently in Ann Arbor, gained 14 of the Gophers' 55 total points.

Two years ago, Mueller won the NCAA 123-pound wrestling title.

(2) The basketballers, after being knocked out of the Big Ten title race by Michigan State, came to life and ripped off three in a row over Iowa, Illinois and Ohio State, and did so in games that had individual attractions as well.

To wit, against Iowa, the Gophers turned loose hot-gunning George Kline and that affable 6-4 lad promptly dunked in 40 big ones to shatter two University scoring records.

After that, the Gophers whipped Illinois (for the second time this season, at Champaign and then returned home to close out the year with an exciting

76 to 69 win over tough Ohio State.

In the freshman prelim to the Gopher-Buckeye contest, highly-touted Ron Johnson of the frosh strutted his stuff along with the other charges of Freshman Coach Glen Reed.

(3) The hockey Gophers ended the season with a double victory over Denver in mid-March and a claim to the sixth place in the Western Intercollegiate Hockey League.

For the season, Minnesota chalked up a 12-15-2 record and 7-15-2 in the league.

Coach John Mariucci experienced his poorest year since coming to the University in 1952. As for the team, the Gophers finished below the .500 mark for the first time since 1947-48.

Injuries and ineligibilities plagued the team throughout the season. Ken Wellen suffered a shoulder separation while Dick

Burg came up with a broken nose. Mike Pearson was counted on to provide the key punch in Minnesota's offense this season, but he missed 10 games with an injured knee. Murray Williamson broke his finger.

While keeping the Big Ten title will be the problem of next year's mat squad, this year's baseball squad is involved in the defense of its laurels.

Coach Dick Siebert's squad is daily practicing up to maintain the Big Ten, NCAA District Four and the national championships won during 1956.

Back in the ranks is Jerry Thomas, Minnesota's All-American pitching star whose hurling last June in Omaha assured Minnesota its first national title.

Thomas will captain the squad which left on March 23 for a fortnight of southern baseball during the break between winter and spring quarters. The schedule found them playing double dates at Texas, Rice, Houston and Oklahoma.

Matmen Conference Title Holders



The championship Gopher wrestling team, breaking a 16-year spell as men-in-waiting for the conference crown, slipped past Michigan by one point to top Big Ten Wrestling. Team members are (back row, left to right): Dave Herbold, Bill Wright, Pete Veldman, Willis Wood and Don Hardle with Coach Wally Johnson; (center) Bob Koehnen, Joe Paddock, Ron Baker, Capt. Don Meyers, Curt Broberg; (front) Bob Board, Charles Prunty, Dick Mueller, Richard Waite, Bill Johnson.

Netmen Train In Dixie

Tennis Coach Chet Murphy's team is getting a taste of spring training in Dixie.

The netmen of Murphy (who replaced the retired Phil Brain last year) took off in late March for a vacation jaunt and are marchin' through Georgia for a series of matches in an effort to overcome the cold weather obstacle.

The tennis team has it worse right now than the baseballers since their indoor facilities don't compare in terms of the ability to really simulate conditions.

It used to be that as soon as the hockey season ended, the tennis boys would take over the Williams Arena rink and work out on its cement base. Now they've moved across the street into Cooke Hall and have installed a court-like set-up for pre-season drills.

OVERHEARD—Michigan State reserve basketball guard Harry Lux, a three-year varsity player who's a pre-law major: "I've had plenty of experience on the bench—I should be a great success as a lawyer."

Big Ten Basketball

	W	L	Pct.	Pts.	OP
Mich. State	10	4	.714	1013	947
Indiana	10	4	.714	1116	1034
Ohio State	9	5	.643	1063	1005
Minnesota	9	5	.643	1098	1040
Purdue	8	6	.571	1002	972
Michigan	8	6	.571	1059	1048
Illinois	7	7	.500	1180	1157
Iowa	4	9	.308	932	979
Wisconsin	2	11	.154	815	971
Nor'western	2	12	.143	972	1077

Flyin' Edelen Wins Two in NW Open

Bud Edelen, Jim Kelly's sophomore distance ace, won the mile and two-mile events and finished second in the 880 at the Northwest Open Track meet held at Minnesota.

Edelen went the mile in 4:23 and the two-mile in 9:54. John McCaffrey, also of Minnesota but entered unattached like most of the field, was first in the 880.

Norm Anderson, Gopher football halfback, won the 60-yard dash in :06.4 and Minnesota's Bob Henry took the shot put with a toss of 53 feet 6 $\frac{1}{2}$ inches.

Alumni Gridders To Meet Varsity on May 18

Coach Murray Warmath and Athletic Director Ike Armstrong have announced that the third annual University Alumni-Varsity football game will be played on Saturday, May 18, in Memorial Stadium.

Jim Malosky '50BSEd of Minneapolis has been selected to coach the alumni squad and Clayton Tonnemaker '50BSEd, also of Minneapolis, has been named assistant coach.

Both Malosky and Tonnemaker earned letters at Minnesota. In addition, Tonnemaker was named All-American center.

Wayne Robinson and Bud Grant who served as head coach and first assistant, respectively, for the alumni team participating in the 1956 game won by the grads, 38 to 24, recently signed as the line coach and head coach of the Winnipeg Blue Bombers.

The football coaching clinic, held the past two years in conjunction with the Alumni-Varsity game, will be staged on Friday and Saturday, May 10 and 11 this spring.



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All-U Bowling Title Won by Sigma Chi

Sigma Chi Fraternity, led by Tom Heinke's 519 series, swept to the All-University bowling championship at Coffman Union alleys, beating the second-place Pinsplitters 2631 to 2428.

Pioneer V took third place and Delta Sigma Pi took fourth.

Honors for Olympic Man

G. Howard Lambert '52BA and "M" man recently received a Citation of the Iowa legislature for bringing "exceptional glory and honor" to his community and to the State of Iowa with recognition on a national and international level.

Howie won the Olympic Modern Pentathlon Steeplechase ride in

Tank Squad Looks To Brighter '57-8

Seven Gopher swimming prospects will go along with all but three regulars of the present tank squad to brighten swimming prospects next year.

These swimmers, along with two transfers and the former star, Bob Gawboy, should show an improvement over the record of this year's team, according to assistant swim coach Lloyd Boyce.

The freshmen prospects are: Bill Malone, Dave Crose, Dave Ketola, Don Freeberg, Jim Veverka, Tom Stillman and Wilton Burger. Ketola, Freeberg and Burger are all dash men and should aid the Gophers greatly in this weak spot.

Only Veterans lost from the present team are Dick Hansel, Jerry Fladeland and LaRue Johnson, all of whom will be greatly missed, according to Boyce.

Boyce, however, feels that transfer students Chuck Hines from Gustavus and Don Flick from Carleton will help the team.

Basketball Fans Attend Campus Mixer

High school basketball fans here for the state cage tournament attended the fourth annual Basketball Mixer at the Coffman Union.

Sponsored by University fraternities and sororities, the mixer featured a hot meal and the Dixieland music of Doc Evans. The Roosevelt Rockettes of Minneapolis Roosevelt high school provided intermission entertainment.

Melbourne, and was high man of the U.S. team over the five events, and fifth among all contestants despite a badly twisted knee received in the first event when his mount crushed him against trees in the wild 5000 meter course.

Howie returned to the University of Paris and has resumed study there towards a doctorate in Clinical Psychology. He is the son of Howard T. Lambert '16LLB and Adaline (Train) Lambert '15BA, now residing in Sioux City, Iowa.

GOPHER GRAD

Around and About with the Alumni

'11

Dr. Richard A. Newhall '10BA, '11MA, who retired last June from Williams college, Mass., after 32 years with the history department, is currently at Colby college, Maine, teaching under a fellowship of the John Hay Whitney foundation. A former Guggenheim Fellow, Dr. Newhall taught at Harvard and Yale prior to his appointment at Williams. He is editor of the Berkshire Studies in European history.

'22

Prof. Gail Kennedy '22BA, professor of philosophy at Amherst college, has



Prof. Kennedy

received a grant from the Rockefeller foundation for next year to work on a book on John Dewey's social and political philosophy. Prof. Kennedy has published several articles on Dewey in *The Journal of Philosophy* and edited *Pragmatism and American Culture*, published in 1950. He also wrote the introduction for this book which includes several essays by and about John Dewey, leading philosopher of pragmatism. Prof. Kennedy has taught at Columbia university, the New School for Social Research and Bennington college. He held a Guggenheim Memorial fellowship in 1929-30.

Arthur W. Tews '24BS, assistant chief engineer for the past year and a half, has been promoted to the position of chief engineer for the city of St. Paul. Tews has spent his entire professional life engineering highways and streets. He was employed by the Minnesota Highway department from 1924 to 1945. In 1945 he became city engineer of Duluth, a position he held until July, 1955. Tews is president of the City and Village Engineer's association of Minnesota, and the immediate past president of the Minnesota Society of Professional Engineers.

'24

Dr. Edward C. Stafne '24DDS, senior consultant in dentistry and oral surgery at the Mayo Clinic, Rochester, and professor of dentistry in the Mayo foundation, will be the guest of honor at the annual meeting of the Minnesota Dental association in Minneapolis, April 1 through 3.

'31

Harold Holden '31BBA, president of Holden Printing Co., Minneapolis, has announced plans for expansion of his firm. Plans include moving of the firm to a new location in the city and an in-

crease in equipment, facilities and manpower. The expansion will almost double the firm's present floor space.

'32

Enock E. Bjuge '32BSAg, Minnesota Sherburne county agent, has been honored for his outstanding work with farm families. He received his award at the banquet of the National Association of County Agricultural Agents annual meeting. Bjuge taught vocational agriculture at Clara City, Hills and Farmington until 1942. He also worked for a seed company, taught at Isle high school and was labor assistant at Farmington. Bjuge became assistant county agent in Dakota county in 1943. He went to Sherburne county as agricultural agent that same year. He has worked with Sherburne county farmers on soil management, pasture improvement and soil conservation. He helped set up many fertilizer demonstrations on pasture, corn and grain fields.

'33

Willard Lighter '33BA recently has been promoted to executive vice president of the Glidden Co., Cleveland, Ohio.

'35

Morris A. Dannenbring '35BBA, who joined Goodyear Tire & Rubber Co. in 1935 to work on the production training squadron, has been named manager of the firm's shareholders division. Dannenbring held various assignments in Goodyear's accounting department from 1937 until 1941 when he entered the Army. He rejoined Goodyear in 1945 as a senior accounting clerk. Most recently he was assistant manager of the shareholders division.

'36

Army Capt. Kiyoshi Kitagawa '36BBA recently completed a four-week arctic winter indoctrination course at Fort Greeley, Alaska. Capt. Kitagawa is a veteran of World War II.

Mildred J. Ericson '36BS is currently doing public relations work for the Oregon Fish commission, Portland.

'37

John M. Waligora '32BEE, '37MS, chief engineer of Merck Sharpe & Dohme, Division of Merck & Co., Inc., has been elected president of the American Institute of Plant Engineers. Waligora, former president of the Plant Engineers Club of Greater Philadelphia, was AIPE regional vice president in 1956 for the region embracing the New England States, Eastern New York, Eastern Pennsylvania, New Jersey, Delaware, and Maryland. Waligora formerly worked with the Northern States Power Co. in Minneapolis.

Col. John D. Holm '37BCE has been assigned as acting Sixth United States Army Engineer. A Regular Army officer, Col. Holm began his service in 1937. From 1942 until 1947 he served with the engineers in the European Theatre of Operations. Col. Holm went to Korea during the hostilities and served in the Plans, Operations and Training section. Upon his return to this country, he was assigned Assistant District engineer at Fort Worth, Tex. In September 1955 he assumed duties as Executive Officer to the Sixth U.S. Army Engineer. He was awarded the Legion of Merit, the Bronze Star, the French Croix de Guerre and the Army Commendation ribbon for his wartime activities.

'38

Dr. Donald R. Nichols '38MD, a consultant in medicine in the Mayo Clinic, Rochester, has been promoted from assistant professor of medicine to associate professor in the Mayo foundation.

'39

Dr. Robert J. Anderson '39MB, '40MD, chief of the Communicable Disease Center, U.S. Public Health service, recently visited the Philippines. Dr. Anderson, Secretary of Health Paulino J. Garcia and Dr. Horace DeLien '33MD, chief of the Health division of the U.S. Operations Mission to the Philippines, reviewed the Tuberculosis Control program pilot study in Northern Luzon.

'41

Goodwin Robert Greenberg '41BA, '42MS, '44PhD has been appointed professor of biological chemistry in the Medical School of the University of Michigan. From 1944 to 1946 he was a research fellow at the University of Utah. He joined the faculty of Western Reserve University, Cleveland, as a senior instructor in 1946. He was promoted to assistant professor in 1948 and to associate professor in 1954. At Western Reserve, Prof. Greenberg has been active in research on the synthesis of the purines and on the active form of folic acid. For this research he recently received the Paul Lewis prize in Enzyme chemistry from the American Chemical society.

Dr. William E. Wellman '41MD, consultant in medicine in the Mayo Clinic, Rochester, has been advanced from the grade of instructor to that of assistant professor of medicine in the Mayo foundation.

'42

Dr. Norbert O. Hanson '42MD, a consultant in medicine in the Mayo Clinic, Rochester, has been appointed an instructor in the Mayo foundation, University of Minnesota graduate school.

Glenn P. Bakken '42BME has been elected president of Chase Brass & Copper Co. Bakken has been with Chase since 1955 as executive vice president. From 1942 to 1946 Bakken was associated with the Aluminum Company of America, Lafayette, Indiana. He joined the Reynolds Metals Co. in 1946 where he held a number of executive positions.

'43

Raymond B. Solac '43BSAg, a veterinarian for the Minnesota Live Stock Sanitary board since 1952, has joined the University of Minnesota Agricultural Extension service as extension veterinarian. He was a veterinary technician with the U.S. Army during World War II and later attended Michigan State University where he received his doctor of veterinary medicine degree in 1950. Solac then spent two years as a practicing veterinarian at Eyota, Minn. In 1952 he joined the staff of the State Live Stock Sanitary board where he has been particularly active in brucellosis control work.

'46

Dr. Harold O. Perry '46MD, a member of the section of dermatology and syphilology of the Mayo Clinic, Rochester, has been appointed an instructor in dermatology and syphilology in the Mayo foundation.

Dr. Robert S. Aries '46MA, head of the New York Consulting firm of R. S. Aries & Associates, recently returned from a two months survey trip in which he noted recent industrial developments in France and Western Europe. Dr. Aries reported that the growth of the chemically related industries in Western Europe during the last four years has outstripped the proportional growth of similar industries in the United States. Dr. Aries made his report at a recent joint meeting of the American sections of the Society of Civil Engineers in France and the Society of Chemical Industries of Paris, held at the French Institute in New York City.

'47

R. M. Ioset '47BS has been employed in the sales department of the Dow Chemical company.

Owen K. Hallberg '46BS, '47MS has been elected assistant vice president of the St. Paul Bank for Cooperatives. Prior to his employment by the bank in 1954, Hallberg was associated with the Cooperative G.L.F. Exchange of Ithaca, N.Y., and a private seed firm in St. Paul.

'48

Douglas L. Smith '48BA has been appointed advertising manager of S. C. Johnson & Son, Inc., Racine, Wis. In his new post, Smith will coordinate the company's advertising program. Before joining Johnson's Wax, he was an account executive for Batten, Barton, Durstine & Osborn, Inc., New York City.

Dr. Jere D. Knight '48PhD recently participated in the third centennial panel convocation of St. John's university, Collegeville, Minn. Dr. Knight and two other prominent chemists discussed "Science and the Liberal Arts in the World Today." In 1942 Dr. Knight went to the University of Chicago where he worked under Prof. Joseph Schlesinger on a highly secret project which was part of the early research being done on the atom bomb development, later famous as the Manhattan project. From 1943 to 1945 he worked on another part of early atomic research at Oak Ridge, Tenn. Dr. Knight is now on the staff of the Los Alamos Scientific laboratory where he has been involved in the testing of nuclear weapons.

Army Capt. Jason R. Arlington '48BS-Ed, Minneapolis, recently participated with the 69th Armor's 1st Tank Battalion in "Big Blast VII," an imaginary nuclear war exercise at Fort Riley, Kansas. Captain Arlington, communications officer in the battalion's Headquarters and Logistics company, entered the Army in 1943. He was last stationed in Korea.

Dr. J. A. Gibilisco '48DDS, a member of the section of dentistry and oral surgery, Mayo Clinic, Rochester, has been appointed an instructor in dentistry in the Mayo foundation.

'49

Robert J. Tritz '49BA, news editor of the Hutchinson (Minn.) Leader for the past five years, has joined the staff of John Withy and Associates, St. Paul advertising and public relations agency. Tritz will serve as account executive in charge of the firm's industrial publications section. Prior to his position on the Hutchinson newspaper, Tritz spent two years at Spencer, Ia., as city and sports editor of the Spencer Daily Reporter.



R. Tritz

'51

S. A. Gruetzman '51BSFor recently was assigned to the Sales Training department of the Dow Chemical Co.

'52

E. R. Haling '52BS has been employed by the sales department of the Dow Chemical company.

Kenneth C. Bailey '52MA assistant professor of philosophy and psychology at Concordia college, Moorhead, has been granted a Danforth teacher study grant from the Danforth foundation of St. Louis, Mo., for 11 months of continuous graduate study. The study will be made at the University of Minnesota in the field of philosophy of religion. His grant is one

of 57 given this year throughout the United States.

John L. Bricker '52BA has been appointed director of merchandising for the Toilet Article department of Colgate-Palmolive Co., Jersey City, N.J. Bricker has held a series of sales and merchandising positions with Colgate since he joined the firm in 1949. He also has been vice president, director of advertising and merchandising, of E. J. Brach & Sons, Chicago candy manufacturers, and an account executive with Young & Rubicam, New York City.

'53

Lt. Col. Mildred I. Clark, ANC, '53-BSEd is director of Army Nurse Corps personnel procurement in the office of the Surgeon General of the Army, Washington, D.C.

'54

Laurel E. Gardin '54BBA has been promoted to first lieutenant at Fort Ritchie, Cascade, Md.

'55

Second Lt. John D. French '55BA recently was graduated first in a class of 48 student officers from Army quartermaster school, Fort Lee, Va. During 1955-56 French and his wife lived in England while he studied at Oxford on a Rotarian scholarship.

Pvt. Harold O. Chelberg '55BSEd is a chaplain's assistant in the 933d Antiaircraft Artillery Missile Battalion's headquarters battery at Fort MacArthur, Calif.

'56

Second Lieutenant Don H. Follett '56BA has been graduated from the Army Signal school, Fort Monmouth, New Jersey.

David A. Bailly '56LLB recently announced the opening of his law office at the Midland Bank Building, Minneapolis.

Army 2nd Lt. Theron B. Barnes '56BBA recently was graduated from the Infantry School's basic infantry officers course at Fort Benning, Ga. Lt. Barnes entered the Army in September, 1956.

Richard F. Radway '41BSAg, '56MS, Minnesota Roseau county agent, has been honored for his outstanding work with farm families. He received his award at the banquet of the National Association of County Agricultural Agents annual meeting. A Polk county, Minnesota native, Radway did extension work in Morrison, Scott, Sherburne, Lake of the Woods and Pine counties in the early 40's, then went to Kittson county in 1947, where he was county agent until 1951. Radway promoted cow testing and artificial breeding and has helped University agricultural scientists set up legume research projects that include studies on seeds, fertilizer, weed control and insects. He promoted fertilizer and aided Roseau county farmers in their battle against insects.



What a **MATHEMATICIAN** can do at **IBM**

Mathematics is an ancient but ever-advancing science that contains many forms. It shouldn't surprise you then that it took some time before John Jackson discovered the one brand of mathematics that seemed custom-tailored to his ability and temperament. John is an Applied Science Representative, working out of the IBM office at 122 East 42nd Street, N. Y. C.

First of all, what's it all about? What does a fellow like John Jackson do all day? In his own words, "I keep in touch with the executives of many different companies—advising them on the use of their IBM electronic data processing computers. I personally consult with these customers, and analyze their scientific and technical problems for solution by IBM. Occasionally, I'm asked to write papers, and give talks and demonstrations on electronic computing. All in all, it's pretty fascinating . . . something new pops up every day." In other words, John is a full-fledged computing expert, a consultant . . . and a very important person in this age of automation through electronics.

reactor. The basic format had been established, but the project still required months of toil with mathematical equations. The aircraft people couldn't afford to wait that long, so they called in IBM. After discussion



Mapping out a computer program

with top executives, John helped to map out a computer program that saved the organization over 100 days of pencil-chewing arithmetic. Later, for this same company, John organized the establishment of computer systems for aircraft performance predictions . . . for data reduction of wind tunnel tests . . . and for wing stress analysis. At the same time, he worked with this company's own employees, training them in the use of IBM equipment. John still drops around to see that everything is running smoothly.

Another service that John performs is the constant reappraisal of each customer's IBM operation. Occasionally, a customer may tie himself in knots over a procedural "stickler." Periodically, in fact, John brings IBM customers together . . . just to talk over what's happening in each other's business—how everybody else handled that old bugaboo . . . details.

New field for Mathematicians

John is exercising his mathematical know-how in a field that was practically unheard of ten years ago. Even now, this kind of work may be news to you. It was to John Jackson a few

years back when he was an undergraduate at the University of Colorado. At that time, he was considering actuarial work or mathematical research. But John liked the excitement and diversification of science and industry and he wanted to use his mathematical background. It was not until he was interviewed by IBM that field computing whetted his scientific appetite. A few months later, John launched his own IBM career as an Applied Science trainee.

Promotionwise, John has come a long way since then. He's now an Applied Science Representative in one of the biggest offices in the IBM organization . . . mid-town Manhattan.



Discussing a problem with colleagues

With his wife, Katherine, and daughter, Lisa, 20 months, and John, Jr., 6 weeks, he enjoys his suburban Port Washington home. He's happy and he's satisfied. And then, too, John knows a few vital statistics about IBM . . . such as the fact that the Applied Science Division has quadrupled during the past three years, and that in 1956 alone, over 70 promotions were conferred. If ever a future held promise, here is one.

Equally challenging opportunities exist for experienced engineers and scientists in all of IBM's many divisions across the country. For details, write P. H. Bradley, Room 8704, IBM Corp., 590 Madison Ave., New York 22, N. Y.



Calling on a customer

Since the IBM laboratories are always devising easier and faster ways to solve the problems of science, government, and industry, an Applied Science Representative can never say he's learned his job and that's the end of it. At least once every two months, he attends seminars to be updated on the latest developments in engineering and operations research.

Introduces new methods

During the two years that John has spent with IBM in Applied Science, he has shown innumerable customers new and better ways to do things *electronically*. For example: about a year ago, an aircraft manufacturer wanted to experiment with a radically different design for a nuclear

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Class of '23 Grad Named Iowa Regent

Arthur Barlow '23BA, president of Builders Material, Inc., Cedar Rapids, Ia., has been named to the Iowa State Board of Regents by Gov. Herschel Loveless.

The Board is the governing body of Iowa's three state institutions of higher education: the State University of Iowa, Iowa State college and Iowa State Teachers college.

Barlow was appointed for a term beginning in February and ending July 1, 1961.



Arthur Barlow

An editorial in the Cedar Rapids Gazette hailed Barlow's appointment and said, "Not only has Mr. Barlow shown far more than the average citizen's interest in educational problems but he would bring to the board a wealth of varied business experience - some of it involving organizational problems of a complex nature. As a graduate of the University of Minnesota, Mr. Barlow also would be in a position to view the relationships of the Iowa institutions with a large degree of objectivity."

Barlow, born and reared in Minnesota, served in the Army in World War I and was commissioned to a first lieutenant. Following the war he worked in South Dakota and Minnesota banks and with the Minnesota State Banking department.

Barlow moved to Cedar Rapids in 1930 and became creditors' rep-

resentative of Builders Material, Inc. A year later he assumed a similar position in Cedar Rapids with Shores-Mueller Co.

Early in 1944 he organized the Barlow Maney laboratories which was sold in 1954. In 1936 he was asked to reorganize Builders Material, which he did, and he later became president of the firm.

Barlow is a trustee of Coe college, Cedar Rapids, and a member of its finance, public relations and executive committees. He is serving a second term on the Cedar Rapids YMCA board and is a member of the Iowa State college and University of Iowa joint economic council.

'U' High Principal Takes New Post

Frederick P. Abel '48MA, University high school principal, will become principal of East senior high school in Aurora, Ill., July 1, 1957.

At University high school since June 1956, Abel previously was high school principal in Henning, Minn., and assistant principal in Mahtomedi high school, Mahtomedi, Minn.

Abel is a member of the National Education association, National Association of Secondary School Principals, Minnesota Association for Supervision and Curriculum Development, and Phi Delta Kappa, professional fraternity for men in education.

Prof Heads Mayo Board

Dr. James Taggart Priestley, '32PHD, head of a section of surgery in the Mayo Clinic and professor of surgery in the Mayo Foundation, Graduate School, University of Minnesota, was elected chairman of the Mayo Clinic at the board's business meeting.

Dr. Priestley has been a member of the board since 1947.

Deaths

Grads Before 1900

Mrs. Harriet Annie Pinkham, 95, reported to be the first white child born in Duluth and one of the few women to attend the University before 1900, died recently in Spokane.

She was the oldest member of the Delta Gamma Sorority, having been one of the founders of the Lambda chapter a year before her graduation.

Of her early days in Minnesota, Mrs. Pinkham once recounted being hidden in a well by her grandmother when Indians came to her home.

Her father, Robert E. Jefferson, was killed in the Civil War. Mr. Pinkham, a real estate broker, died in 1938.

She is survived by two grandsons and a cousin.

Dr. Anna M. Agnew '99MD, one of the early women psychiatrists, at her home in Brooklyn, N.Y. Dr. Agnew joined the staff of Brooklyn State Hospital in 1907. She retired as supervising psychiatrist in 1951. There are no immediate survivors.

Louis Rask '03EE, a retired engineer with General Electric company and a member of the GE Quarter-Century club, recently in Schenectady, N.Y. Mr. Rask was a member of the Spanish-American War Veterans and the Sigma XI honorary engineering society.

Amos McCree '08BCE, highway contracting firm executive, at his home in St. Paul in January. Born in Scotland, he had lived in St. Paul 70 years. He was president and treasurer of McCree & Co., St. Paul. Mr. McCree also was past president of Associated General Contractors and had been a national AGC director several years. Survivors include his wife, a daughter and a son.

Frederick Poppe '11MS, active alumni leader and former instructor at the University and at Lawrence college, Appleton, Wis., recently. Mr. Poppe did chemical analysis for the Appleton Water department at the time of his death. He taught at Lawrence for two years before entering military service during World War I. He had been employed in the research department of Kimberly-Clark corporation for 35 years until he retired in 1952. He was a member of Sigma XI and Phi Lambda Upsilon, honorary societies. The only immediate survivor is his wife.

Mrs. Mary Phoebe James '16BSHE, teacher in the Minneapolis public school system 37 years, last month. Before her retirement, she taught home economics at North High for 30 years. Survivors include a daughter, a brother and a sister.

David Lundeen '17BA '20LLB, chief weighmaster of the railroad and warehouse commission of Minnesota since 1933, recently in Minneapolis. Mr. Lundeen was in charge of the Veterans relief department in Minnesota in 1932 and 1933. He was vice president of the Twin City Civil War Round table, vice president of the National Terminal Weighmasters association, and past president of the Northwest Weights and Measures association and the National Scalesmen's association. Survivors include his wife, a twin sister, another sister and a brother.

Dr. Alfred Olson '17DDS, practicing dentist in Minneapolis 38 years, recently in Fort Lauderdale, Fla. Dr. Olson was active in many Minneapolis civic organizations and a member of several professional dental societies. Survivors include his wife, three daughters and two sons.

Hugh A. Stoddart '24BSCE who was Division Engineer for Alaska, Bureau of Public Roads, of a heart attack.

Former Staff, Faculty

Dr. Byrl R. Kirklin, widely known X-ray diagnostician and retired staff member of Mayo Clinic, last month after suffering a heart attack. Dr. Kirklin, who was professor emeritus of the University of Minnesota graduate medical school, was president of several national X-ray societies. He joined the clinic in 1926 and was named head of the diagnostic roentgenology department in 1930. He retired in 1954.

Mrs. Mary F. Pierce, secretary of the University of Minnesota Graduate School before her retirement, in Minneapolis in January.

Kathryn McHale, prominent educator and member of the subversive activities control board who once taught at the University, recently in Washington.

Ernest L. Gutterson '26BS, president of Mutual Dealers Wholesale, Inc., and several affiliated firms, recently of a heart ailment. Survivors include his wife, a daughter and two sons.

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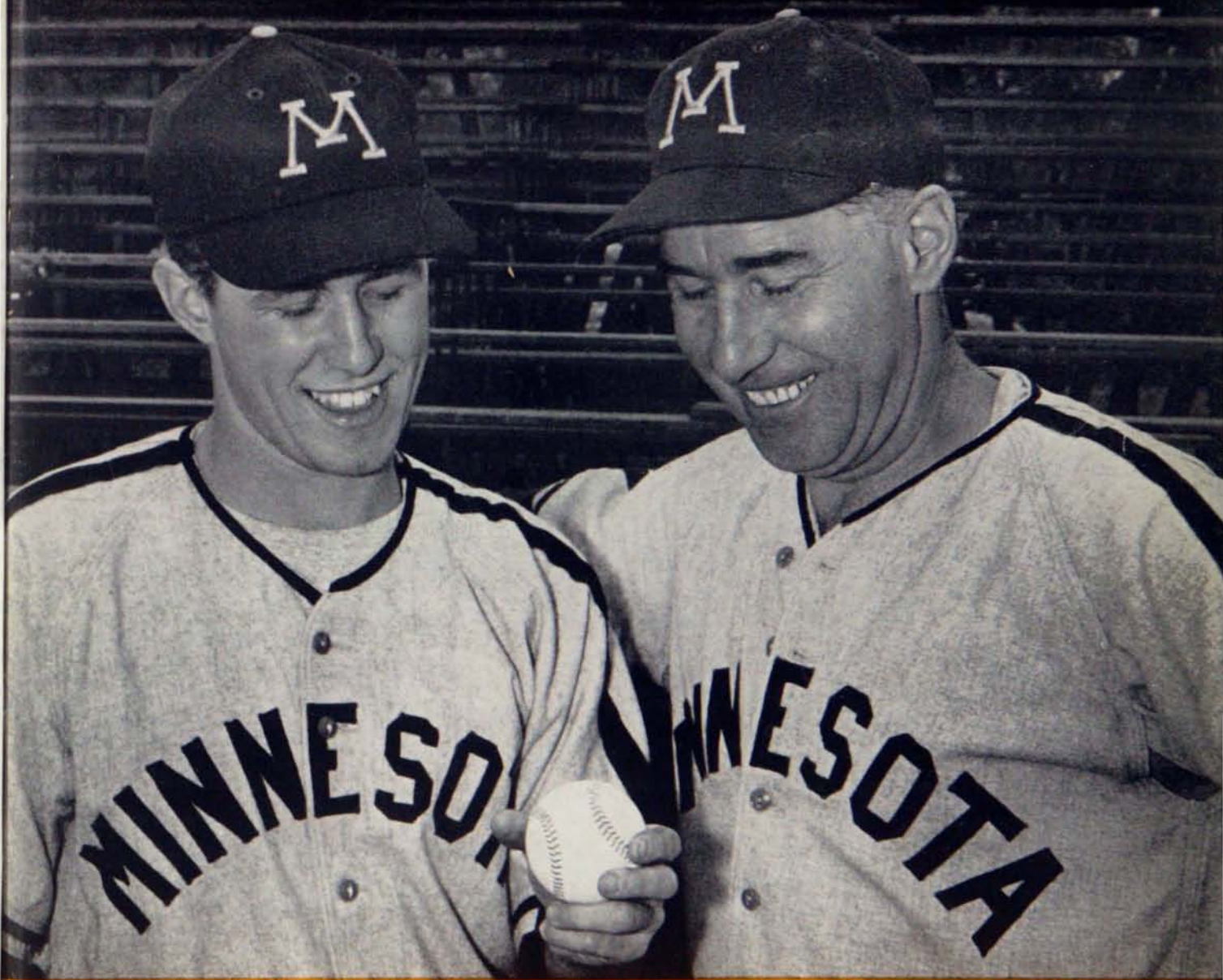
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GOPHER GRAD

MAY 1957

GOPHER GRAD

(Our 56th Year)

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In This Issue

	Page
MARCH OF MEDICINE.....	4
STUDY IS NO. 1 PASTIME.....	7
PROMISE OF AUTOMATION.....	8
'U' EXPANDS ON 3 CAMPUSES.....	17
CONSTRUCTION (IN PICTURES).....	18
GOPHERS ON BASE; SPRING STRIKES OUT.....	28

NEWS SECTION

Associations-Clubs.....	20	Sports.....	28
On the Campus.....	24	Alumni.....	30

DEPARTMENTS

Back Talk.....	3	Summa Cum Laude.....	11
Editorial.....	15	Books.....	34

Cover Story

"Like father—like son" seems the natural way to describe this duet of the diamond—Coach Dick Siebert and Dick Siebert, Jr. Siebert, who graduated from Concordia high school in St. Paul, is a former major league first baseman who hit .334 in 1941 while with the Philadelphia Athletics. He retired from the major league at 33, joined the U's coaching staff in 1948 and, last year, guided the team which brought Minnesota its first NCAA baseball championship. Siebert, Jr., who more or less grew up in baseball, (his father intended to be a minister) pitched and managed a Jr. Legion team at 17 years old. Including this year, he has three full years of competition left. He appears set on being a hurler and, during spring training, stepped in more than once to bolster the team's pitching arm. (Photo by Robert Kozar)

Views of authors appearing in Gopher Grad in no way reflect the opinions of the MAA or the Gopher Grad.

GOPHER GRAD

Back Talk

Athletic Aid Blasted

Ed Haislet
MAA ExSecy

Dear Sir:

I'm 100 per cent in accord with Dr. Morrill's and your viewpoint on the new Big 10 program for subsidation of athletes.

In my opinion, it's a move in exactly the wrong direction.

I favor amateurism to the point of no subsidation, no athletic scholarships and an eventual abandonment of high power, high priced stadium admittance fees as well as working. In the meantime, I think we have great coaches in Cowles, Siebert, Kelly, Thorpe, Warmath, Bolstad and Mariucci.

John C. Brackett '25BA
St. Paul

Tribute to a Teacher

Editor:

The passing of Miss Anna Shillock ('88) deserves more than a casual mention. It deserves even more than a sad rejoinder that she was the last of the girls of that pioneer and great class of 1888.

Her passing notice etches afresh the picture of a titian-haired, pale blue-eyed German teacher with the lined face of a thinker reciting German literature with passion and understanding to those whom she knew had yet to learn of life and the beauty of the spoken languages of Europe.

She was a great teacher of Principal W. F. Webster's time in that school of schools, East High—now renamed Marshall High School and Edison High School.

Bertha Florence Peik '19
Minneapolis

Letters from Germany

Editor:

I want to express my gratitude for the year's free membership given to me. The *Gopher Grad* has reached me already several times. I read it with pleasure, though somewhat nostalgically, thinking back on the fruitful years I spent in the beautiful state of Minnesota.

Dr. Ulrich Groethuysen '56MS
Munich, Germany
(Through the courtesy of the Board of Regents, a year's free membership is given to all students upon graduation.—Ed.)

... thank you for the interesting report on the future development of college education in the state published in the February issue of the *Gopher Grad*.

Heinrich Weyer '55MAPA
Siegen, Germany

SPECIAL REPORT



Mr. WAYNE BRENENGEN NEW YORK LIFE AGENT
at MADISON, WISCONSIN

BORN: September 24, 1924.

EDUCATION: University of North Carolina, A.B.—1948.
Harvard School of Bus. Admin., M.B.A.—'50.

MILITARY: World War II—Marine Corps Aviation (Radar & Communications).

PREVIOUS EMPLOYMENT: Oct. '50 to Jan. '53—
U.S. Foreign Service, Vice Consul, Munich, Germany.
Jan. '53 to Oct. '53—Export Company, Asst. to
President. Fall '53 to Fall '55—Research Org.
Investor and Executive V.P.

REMARKS: Wayne Brenengen joined New York Life in December, 1955, and became an agent at the Company's Capital Office, Madison, Wis. An extremely personable young man with a fine educational and business background, his energetic and sincere approach to his work won him the title of Assistant Manager after only a year with the Company. In 1956, his total sales volume of over 1½ million dollars qualified him for membership in the Company's Top Club. An outstanding success already, Mr. Brenengen's future with New York Life is indeed bright.

Note

Wayne Brenengen, after only one year as a New York Life representative, is already well established in a career that can offer security, substantial income, and the deep satisfaction of helping others. If you'd like to know more about

such a career for yourself with one of the world's leading life insurance companies, write:

NEW YORK LIFE INSURANCE CO.
College Relations Dept.
51 Madison Avenue, New York 10, N. Y.



Practical nursing students perfect patient care methods by practice on one another. Volunteer patient, nursing student Nordis Hoover, is assisted by Donna Nicholson (left) and Janet Knudsen under the direction of the instructor, Miss Eugenia Taylor.

Nursing

MARCH ON MEDICINE

Hospitals and homes welcome new corps for health care as 'U' celebrates tenth year of practical nurse program

The head of the school of nursing believes that the practical nurse is filling a more and more important role in the health care of our people.

Miss Katharine J. Densford, in looking back at the work of graduates on the tenth birthday of the University's practical nurse program, says that this group, under the direction of doctors and professional nurses, is providing "essential services as members of the health team and is helping to extend the total care of patients."

The first practical nurse program within any university was started at Minnesota in 1947 under her direction. Originally designed as a four quarter program, it has since developed a sister plan which is two quarters longer.

Miss Densford, a tall, elegant educator with a soft Eastern accent, says the University's program (begun as an experiment) has more than fulfilled its original purposes to try out new features in practical nurse education and to provide a controlled practice field for preparation of teachers for schools of practical nursing.

Today, there are some 400 accredited nursing programs in the United States, 13 in the Gopher state alone.

The title "practical nurse" is sometimes mistakenly used to indicate the helpful though untrained neighbor who traditionally aids in family emergencies. But Miss Eugenia R. Taylor and Miss Ruth V. Johnston, who teach at the University's School of Nursing, point out that the practical nurse has been trained in a formal program to care for the ill — under the supervision of a registered nurse or a doctor.

Just six students were enrolled in the first practical nursing class at the University, and they paid the usual student enrollment fees. This was a distinct change from the traditional pattern in which board and room

was provided by the hospital in exchange for service while learning.

The four-quarter program was planned so the prospective practical nurses could take advantage of the many opportunities available on campus. The students received general education as well as vocational preparation. In addition to their training in practical nursing, they took courses in communication, nutrition, biology, psychology and social science.

The six-quarter program combines preparation in practical nursing and home management. Students attend practical nursing classes and receive clinical experience in the University Hospitals. They also enroll in school of agriculture courses in general education, home economics and sciences.

Miss Densford says students learning practical nursing are responsible for their own maintenance in the same manner as others on campus. The young women live in a dormitory or in an approved home. They have free time to seek part-time employment and to participate in recreational, social and educational activities.

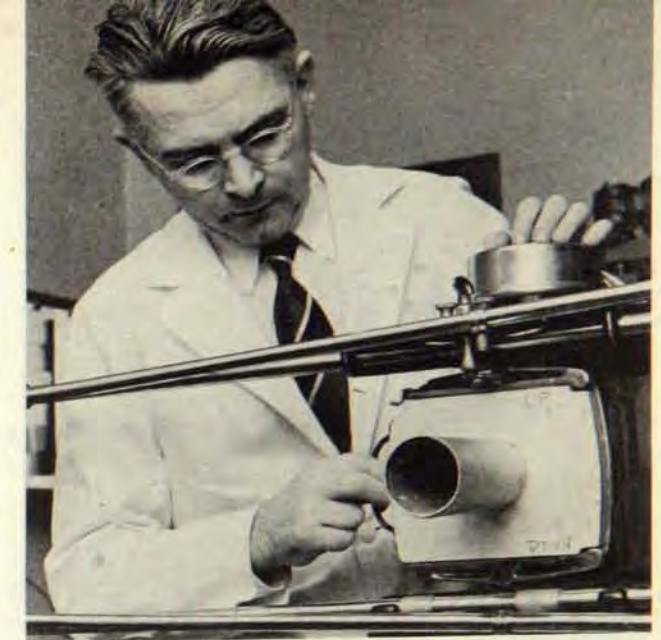
One of the major purposes of the training is to prepare practical nurses to participate in rural health programs. A survey of graduates shows that 70 per cent of those who had six quarters of study accepted their first positions in rural areas.

"The fourth quarter of their training is spent in a typical rural community which has a 35 to 50 bed general hospital," Miss Densford said.

"During this time, the student continues with practical nursing classes and receives clinical experience, particularly in the care of the mother and newborn babies. She accompanies the public health nurse on observation visits. Through participation in community activities, the student acquires an understanding of the practical nurse's role in a rural area."

Nutrition

Great expectations mark current nutrition-behavior studies which pinpoint food among best medicines



Dr. Josef Brozek

who organized for national publication the proceedings of recent symposium on diet and behavior, operates machine used for soft tissue, X-Ray study to indicate body composition.

Good physical and mental health and man's success in his work are greatly dependent on what he eats, according to the world's foremost dietary studies currently in progress at the University.

Dr. Josef Brozek, professor of physiological hygiene at the University, says experiments show that a real deficiency of vitamin B complex, notably thiamine, has a "profound impact" on man's performance, motivation and work capacity.

The collaborative study by Dr. Brozek on the effects of thiamine restriction and deprivation carried on in the laboratory of physiological hygiene is only one of the many efforts being made at the University to help man live a healthier, happier and longer life. The University is correlating and coordinating the work done on diet by leading scientists in the field and in related fields like physiology, biochemistry, pathology, anthropology and psychology.

Dr. Ancel Keys' work on the relationship of heart disease to cholesterol in the blood is probably the best known. Dr. Keys, professor and director of the physiological hygiene laboratory, has recommended that men reduce the amount of fat in their diets.

Two University doctors specializing in children's diseases, John A. Anderson '34MD '40PhD and Heinz Berendes, have announced successful results in treating mental deficiency known as phenylketonuria or PKU. Although the treatment, a special protein diet, was the result of study in several medical schools, Minnesota was among the first to apply the diet as a remedy for PKU.

The University became interested in the effect of diet on behavior during World War II when the military asked for a study on the relationship of nutrition to work capacity.

Dr. Brozek has been concerned with the psychologi-

cal aspects of the effects of having an unbalanced diet.

In a recently reported study, 10 young men showed marked changes in performance and personality when they were deprived first of a little and then of all thiamine — the vitamin found abundantly in raw foods like pecans, Canadian bacon, fresh ham and beef heart.

In the first stage of the experiment, the men were maintained for six months on low thiamine intakes. Then, within five days after *practically all thiamine* was withdrawn from the diet, they began to show first symptoms of deterioration, including lack of appetite and inability to retain food.

The men suffered both physical and psychological disturbances. Physically, they exhibited impaired motor coordination, manual unsteadiness, body swaying, impaired motor speed, slowed reaction time, dizziness, vomiting and weakness. Psychological reactions included complaints of tiredness, change in mood with increased irritability and depression, sensation of a prickling of the skin as well as muscular tenderness, and a feeling of being weaker than strength tests showed.

The men speedily recovered their emotional balance when given thiamine. Physical recovery was a little slower.

Dr. Brozek believes the results will help scientists better understand the role of good nutrition in good performance and normal emotional adjustment.

He added that, under severe dietary stress, rapid changes in physical well-being and personality may take place.

The Minnesota scientist said these findings might also help the nation understand the actions of Korean war prisoners who were "brainwashed."

"Physical stresses and semi-starvation (the withholding of dietary necessities like thiamine) are not generally considered a classical torture or even maltreatment.



Diet studies include weighing patients under water to determine body volume as a step toward estimating total body fat.

Yet they may result in severe personality deterioration," Brozek said.

He emphasized that studies show some men can withstand the effects of deprivation and physical stress better than others but that, eventually, all individuals are affected.

Dr. Keys, from his already famous heart-and-diet research, indicated that a high intake of fat, particularly animal fat, was related to the incidence of heart disease. Both Drs. Keys and Brozek maintained, however, that a reduction in weight alone is not likely to be the nation's effective means for reduction of the rate of heart disease.

Dr. Anderson, chief of the pediatrics department, and Dr. Berendes, an instructor in pediatrics, said the present test case of PKU promises that children born with this condition and treated early enough can be guided toward normal growth. Dr. Anderson, who estimated that one of every 100 persons in mental hospitals suffers from PKU, credited research at the University of Utah and in Birmingham, England, as having helped make the Minnesota test possible.

Knowledge in biochemistry, physiology, psychology and nutrition was coordinated to combat PKU. Success in treating this mental illness had eluded scientists for approximately 20 years.

Experts now believe that combined efforts of this type will become more frequent in the future. The University took the leadership in creating a cooperative attack on disease by organizing the first symposium on nutrition and behavior, sponsored by the school of public health and held in cooperation with the National Vitamin Foundation, Inc., of New York.

Scientists Scout Cancerous Chemicle

Scientists at the University of Minnesota and the Veterans Administration hospital at Fort Snelling are tracing the pattern by which a cancer-causing chemical enlarges the liver and inhibits body growth.

Drs. Helmut R. Gutmann, Dorothy Filbin and John H. Peters, whose work is supported by the American Cancer society, said that understanding this mechanism is essential for prevention of cancer by this and other chemicals.

Dr. Gutmann is on the physiological chemistry staffs of both the University and the VA hospital. Dr. Filbin is a VA hospital staff member, and Dr. Peters, formerly at the VA hospital, is now with the Medical Research institute, Christ hospital, Cincinnati.

Several British and American groups have observed that a variety of chemicals which cause cancer in experimental animals interfere with the growth of the body. Some have speculated that this interference is related to the induction of cancer.

The Minnesota group found that when they fed a chemical called acetylaminofluorene (AAF), which causes cancer in rats, the rat livers enlarged. Their analyses showed that the enlargement was due to deposition of fat, protein and especially of glycogen, from which the liver makes sugar.

The protein in the diet which the rats consumed had a striking effect on the action of the cancer-producing compound. If casein, a milk protein in the diet, amounts to 11 per cent, AAF inhibited the growth of the rats. But if the casein content was doubled, the AAF-fed rats grew normally.

The scientists decided to see whether the growth inhibition was controlled by the whole protein or some of its constituents. (Protein is made up of 20-odd amino acids and an 11 per cent casein diet is mainly deficient in two of them, systine and methionine).

To find out whether cancer-causing AAF interfered with the use of these sulfur-containing amino acids, scientists added them to the 11 per cent casein diet. However, these supplements apparently could not assist in body growth nor stop the liver enlargement.

Questions which remain to be answered are:

What other constituents (amino acids) in casein offset the growth inhibition induced by AAF?

Does the *total* protein itself increase the resistance of the cell to the toxic chemicals?

One possibility is that the rate of production of enzymes which act against the deadly AAF is higher when a high protein diet is available.

A campus survey to discover what students do during the weekend shows that

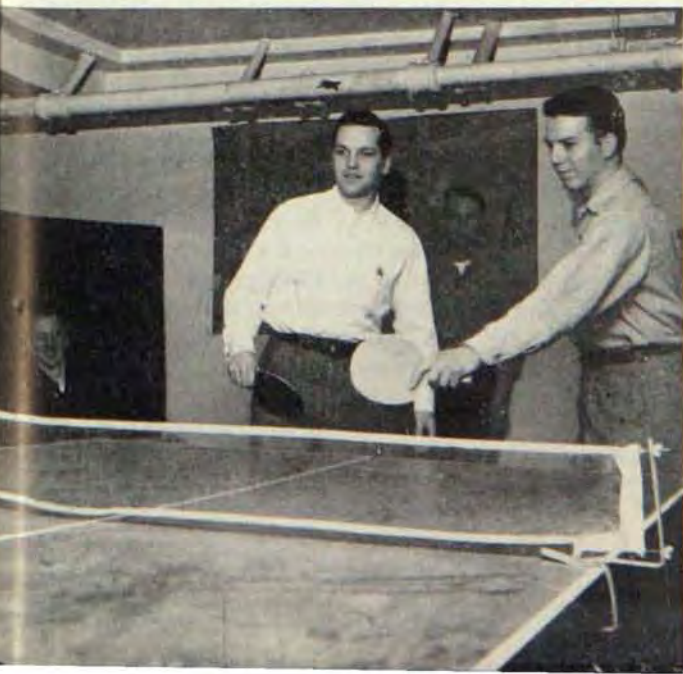
Study Is No. 1 Pastime!

University of Minnesota students' weekend evening activity patterns show more work and less play, less go and more stay, reports a survey conducted by the Coffman Memorial Union board of governors. The survey was made in an attempt to answer the question: "What do students at the University of Minnesota do on Friday, Saturday and Sunday evenings?"

More than 44 percent of the student respondents said they did *not* engage in activities which took them outside of their residence on Friday evening. This may be compared with 35 percent on Saturday and more than 69 percent on Sunday evening.

Although three percent of the student respondents said that study is their "favorite weekend activity," 26 percent said they actually studied on Friday, 18 percent on Saturday and 40 percent on Sunday. Participant sports and dancing were two activities noted frequently as favorite activities yet a relatively low percentage of

Ping pong in Union is one of most popular participant sports.



students said they actually *participated* in these activities at any time during the weekend evenings.

Most frequently noted activities outside the home were spectator sports, working or attendance at a small party organized through church, student group or friends. A large percentage of students indicated that they stayed home to watch television or visit casually with friends.

The surveys further indicated that television has become a very important student recreational activity. Fourteen percent of the students said they watched television on Sunday night as compared to nearly six percent on Friday and more than seven percent on Saturday evening.

Many of the students live "off" campus. Only 31 percent may be said to be living in the immediate campus area in such housing as a dormitory, sorority, fraternity, cooperative quarters and rooms. Forty-four percent of the students live at home with their parents — indicating that an unusually high percentage of students attending the University comes from the immediate Twin Cities area.

The survey also indicated that the percentage of students studying on weekend evenings was considerably higher in the classes above freshmen and sophomore. Movies seemed to be a more popular form of entertainment among lowerclassmen. The activities at lower college level tended to be centered around organized activities when it came to gathering together with friends; on the graduate school level, the emphasis of these activities tended to be less organized and more casual.

Freshman and sophomores found more time to visit with relatives than upper class and graduate students. Participant sports seemed to be a more popular activity among freshmen and sophomore students than among graduate students.

The figures also showed that students in the institute
(Continued on page 10)

Man, through machines, discovers
the hope of new productivity,
prosperity and leisure —

The Promise Of AUTOMATION

By CLEDO BRUNETTI
'32BEE '37PhD

Automation, as you note by reading the newspapers, has become one of the popular topics of the day. Automation is our modern day form of technological progress in the field of mechanization. It is the result of an evolution, not a revolution. It is the new look in industry.

We live in a rapidly changing world. Consider that not long ago only Indians lived in this vast country of ours. They had no coal, no gasoline, no steel. They had a precarious food supply, mystical medicine and chronic warfare. Is it not a startling thought that all our machinery, our homes, bridges, roads, buildings, all the products we have today, were in the ground beneath the feet of those Indians?

Man's mind alone created these products.

With the advent of automation comes the nation's most challenging

The editors asked Dr. Brunetti for a view of automation which would present the over-all implications of the new steel brain in our society. Brunetti, an authority on the subject, is managing director of engineering, research and development, mechanical division, General Mills, Minneapolis.

problem — one of interest not only to industry, but to government, to civic development groups, to labor, to the man on the street and even to the housewife. For, as my wife says, if it's possible to develop a machine to automate the production of a television set, why can't we automate undressing the kids, giving them a bath, putting on their pajamas, and getting them ready to be kissed good night? Undeniably, there would be a tremendous rush for such a machine, but just the hope for this paragon gives a clear indication that automation, in effect, *begins with the desire to lessen work and to do things more quickly, accurately and effectively.*

The first automation dates back as far as 130 B.C. when Hero of Alexandria used what was then a mysterious device to open the shrine doors. Near the doors was a sort of stove with water in the bottom of it. A fire built *underneath* the stove would heat the air in the space over the water. The air would expand and force the water down through a tube connected to a bucket connected to the doors. As the bucket was filled, it would drop. The result-

ing strain on the ropes linking the bucket and the doors would force the doors open.

Today, we have a pilotless guided missile — 100,000 pounds of hurtling power resembling an airplane but containing a "brain" of its own.

Automation, therefore, is the performance of tasks by automatically controlled equipment. This covers fire control systems, the auto-pilot, business computers and, in essence, just plain slave labor. That is why industry feels this move had to come, has come, and will stay. Here is the chance to free man from routine and detailed tasks so that he can move up to more dignified and appropriate ones.

The tool or *machine* is the basis of our present complex automation program. To the machine, *power* was added. To the power-driven machine, a thing called *programming* was added to tell the machine what to do. Finally, the steel brain called *control* was added to study the output of the machine and, if necessary, to tell the machine to correct any mistakes.

At present, we have a form of automation in the home thermostat

GOPHER GRAD

Dr. Cleo Brunetti

managing director of engineering, research and development for the mechanical division of General Mills, Inc., Mpls., is one of the nation's foremost experts on automation. He is chairman of the advisory group on electronic assemblies and equipment, office of assistant secretary of defense. A year ago, he appeared before a joint Congressional committee in Washington studying the technological and social aspects of automation. He was an instructor at the University from 1932 to 1937 and joined General Mills in 1953. While he was with the National Bureau of Standards (1942-1949), the National honor society for electrical engineers named him "outstanding young electrical engineer of the U.S."



and in the refrigerator, in the system that keeps a car battery from overcharging, in the power plants that switch on an emergency supply when necessary, in the autopilot to keep a plane level while the pilot rests, in jet planes, in guided missiles and in industry.

Speedier production of automobiles and cheaper production of records are only two of the examples of industrial automation. Also, I understand, some companies are installing computers to get out about 900,000 bills a month automatically. But automation will do more—it will compute bills, do filing, run continuous sales records and inventories, handle payrolls, fix production schedules, chart corporate and help judge box-top contests!

In Minnesota, automation will even save lives because a computer now is used to determine where serious traffic situations occur, based on past experience. At these spots, traffic officers can now guide traffic and help keep it in line.

Is automation necessary? Consider the example of building a Ford automobile by hand. With no power machinery except hand drills, saws and wrenches, we estimate it would take 5,000 people five years and cost \$250 million to produce one car. Your single television set might re-

quire 1,500 people seven and a half years and cost \$112,500,000 to build by hand labor, if at all possible.

Why do we need automation? Well, perhaps one of the more obvious reasons is that operation of some machines has outstripped man's performance capacity. For example, suppose you were in a modern interceptor flying toward a similar plane. Your super aircraft is traveling at about 3,000 miles per hour. Now, if you were looking at a plane 1000 feet in front of you one moment but happened to turn your head, the airplane would be directly *behind* you. As soon as you recognized what it was, it would be one mile in back of you... be one mile behind you. The very moment you put your finger on the trigger (if he were an enemy), the plane would be four miles in *back* of you. It takes electronics, not manpower, to do that job right.

All of industry—from shipping to banks and insurance companies—will need and be able to use automation. However, I have mentioned mobilization industry because of this sober note:

Statistics from the editor of American Machinist point out that the Russian Ministry Department has some 3,000 people working on machine tool development. Since 1928, their production of machine tools

increased 100 to one. From 1948 to 1952, Russian production rose 17 percent per year while ours rose 4.3 percent. We are, of course, operating on a higher base, but it is the rate that ultimately counts.

Automation, also, will help supplement our labor force to produce the commodities we need at home. Our gross national product is over \$400 billion or so. It is estimated that, by 1960, this figure will jump to about 500 billion or an increase of about 25 per cent. Our labor force, on the other hand, is about 65 million. By 1960, we expect a labor force of not over 70 million. This is about an eight per cent increase in labor force to produce 25 per cent more goods and services.

Automation will continue to be very important to business organizations. To survive in the face of the most intense competition ever, one must ever be alert to find new and better ways to turn out higher quality products at ever lower prices. It is not now, and never has been, a matter of choosing to, or choosing not to devise and adopt new and better ways to cut costs. Business survival makes mandatory the finding of new ways to reduce costs by increasing the productive capacity or productive efficiency of each and

(continued on page 10)



Although only 31 percent of students are in campus area, almost twice as many at some time have participated in sorority-fraternity dinners such as this.

No .1 Pastime

(Continued from page 7)

of technology and medical sciences spent less time on entertainment during the weekend than did students in education and the college of science, literature and arts. The percentage of married students in engineering and the medical sciences was significantly larger than in education and SLA.

The surveys indicated that over 25 percent of the students at the University of Minnesota are 24 years old or older. This high percentage of "older" students also is indicated by a high percentage of students who are married while attending the university (21 percent) and of males who have already served in the armed forces (35 percent).

Similar study habits were shown for all age groups. Students 24 years old and older seemingly spent more of their weekend evenings in financially rewarding employment than the younger groups. This "older" age group had less contact with "organized" groups on campus and seemed to prefer more time "at home, relaxing." Movies were a more popular form of entertainment in the younger age groups.

Conclusions are based on two concurrent surveys made about the weekend of March 1, 2 and 3. Students were contacted through 294 telephone interviews. One thousand questionnaires were mailed out and four hundred thirty six were returned. The projects were sponsored by the public relations committee of Coffman Memorial Union and supervised by Marcia Koth, administrative fellow in charge of public relations.

Promise of Automation

(Continued from page 9)

every employee. Business has no choice. If it refuses, it will soon find its markets invaded by a more progressive competitor. It will no longer be, then, a question perhaps of the displacement and re-assignment of a few men by a machine, but rather the loss of a business organization's ability to keep hundreds of people on the payroll because its products cannot be sold competitively.

What will automation mean to labor itself? Since automation redistributes but does not reduce manpower requirements, the effect on labor is to upgrade it. We are very short of trained people — both creative leaders and skilled technicians.

Upgrading of labor means, almost automatically, better wages, working conditions and environment.

At the same time, there is plenty of evidence to show that automation will create more jobs. To prepare for any readjustments, industry has started training people for new assignments before the machine comes in — such as maintenance or service on the machine itself. Management, on the other hand, is cooperating by providing better jobs, better pensions and increasing wages where they can. They are considering a shorter workweek. I believe, too, that industry is sincerely examining the idea of an guaranteed annual wage.

In our modern era, man has become highly specialized in his role. He remains superior as the master but he is no longer the muscle of the age. Machines can do things man can't do. Man will design and build and supervise these machines and create new jobs by so doing. But he will never again compete with the performance of the machine, and, in truth, will not want to.

"What They Say"

The College Professor:

"Such ignorance in a student—'tis a shame
But lack of preparation is to blame."

The High School Teacher:

"What crudity! The boy's a fool
The fault, of course, is with the elementary school."

The Elementary School Teacher:

"Oh! That from a dunce I might be spared.
They send them up to me so unprepared."

The Kindergarten Teacher:

"Such lack of training, I never did see.
What sort of person can the mother be?"

Mother:

"You stupid child! But you are not to blame.
Your father's family are all the same."

— Anonymous

SUMMA CUM LAUDE

To



Steel Executive . . .

R. Conrad Cooper, vice president in charge of administration planning at United States Steel, Pittsburgh. Previously in the capacity of vice president in charge of industrial engineering, Cooper has had a varied career in the field including work with Universal Portland Cement in Minneapolis and with a consulting industrial engineering firm in New York. He joined US Steel in 1945 as an industrial relations vice president, is a member of the American Iron and Steel Institute and the Society for Advancement of Management. A 1926 graduate with a BS degree, he was awarded the Outstanding Achievement Award in 1954.

State Centennial Chief . . .

Thomas H. Swain, executive director of the Minnesota Statehood Centennial Commission, who has exactly one year behind him and one to go in organizing the celebration for Minnesota's 100th birthday as a state—May 11, 1958. A former athletic ticket manager for the University, he headed the St. Paul Chamber of Commerce and the convention bureau prior to his appointment by the state legislature which, this year, officially commended him for his conduct of a program designed to reach every aspect of Minnesota life. He is a 1942 graduate of the school of business and lives in Minneapolis.



and Cosmetic Scientist

Dr. Walter B. Shelley, professor of dermatology at the University of Pennsylvania, who consistently has won national recognition for his contributions to the physiological knowledge of the skin specifically dealing with the basis of odor formation. Formerly professor at Minnesota, St. Thomas College in St. Paul and Dartmouth, he is chief of the dermatology clinic as well as consultant to the VA hospital in Philadelphia. Among his awards are the Society of Cosmetic Chemists Special Award of \$1,000 for distinguished literature in cosmetic technology. He received a BS in '40, PhD in '41, MB in '43 and an MD in the same year.



The Real Mac GUF

Robert P. Provost
Director of the Greater University
Fund (GUF)

A "Fund-Raising Flare" was the description given by the "Wall Street Journal" to the money raising activities of Columbus, Indiana. According to local business men—"when something needs to be done, we don't sit and argue until the tax money is forthcoming. We start a drive for the money and we get it." This attitude of Columbus business men shows what can be done by concentrated local effort.

Those of us involved in fund raising for higher education note this increasing awareness of public interest and support, and we are encouraged. I am personally convinced that alumni of a tax-supported university like Minnesota are part of this changing nation-wide pattern. We may be missing the bandwagon, however, by not attempting to mobilize our alumni to do personal solicitation of other alumni. Alumni funds with few exceptions have moved in this direction.

Should Minnesota alumni do personal solicitation of fellow alumni for their university? Would you be willing to call on several alumni and ask for their gift?

I am sure there are alumni with a strong feeling about this added request by their alma mater. Yet, there are countless alumni who would respond to a personal appeal who are not giving to the Greater University Fund at the present time. We hope to answer the personal solicitation question this year. Your remarks and observations are invited.

This writer believes alumni support of tax-supported higher education to be above the personal solicitation requirements. I would rather see successful alumni mobilization to the cause of higher education. With alumni understanding would come the attitude, "when something needs to be done, we do it."



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Chippendale hanging tray of heavy gauge metal. Two-tone baroque border. Price for members, \$4.95; non-members, \$5.95. Postage 30¢ in U.S., possessions, Canada, Mexico and APO addresses. Elsewhere, 50¢.

Modern book rack (pictured with tray). Price for members, \$2.65; non-members, \$3.65. Postage 15¢ in U.S., possessions, Canada, Mexico and APO addresses. Elsewhere, 25¢.

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Maroon and Gold University playing cards. Twin deck carton. Prices, postpaid, for members, 2.50; non-members, \$3.50.

10K gold ring with maroon synthetic garnet. 10 penny-weight, \$31.35. 12 penny-weight, \$33.00. 14 penny-weight, \$36.30. (tax, postage included).



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 Record(s)

I am enclosing my check or money order in the amount of \$.....
as payment in full.

Name

Address

City..... Zone..... State.....

I am a member.

The Minnesota Alumni Association

The accompanying list of 10 candidates is hereby certified as correct. Each association member will vote for five directors to serve for four-year terms.

Signed:

Rev. Wilbur Korfhage, '23BSAg
Gordon I. Swanson, '42BS '47MS '54PhD

Clifton French '48BSEd '49MED
Russell E. Backstrom '25BSME '27MSME

Hibbert M. Hill '23BSCE
Chairman, Nominating Committee

OFFICIAL BALLOT

(Five to be elected for four-year terms)

- WENDELL BURNS '16BA (Incumbent).....
Minneapolis
- CHARLOTTE WINGET CHOPE '27BA (Incumbent).....
Wayzata
- RUSSELL E. BACKSTROM '25BSME '27MSME.....
Minneapolis
- WALTER G. BENJAMIN '21MD.....
Pipestone
- LAWRENCE S. CLARK, SR. '22BS(B).....
Minneapolis
- RUFUS W. HANSON 1922-24.....
Wayzata
- CLARENCE J. HEMMING '37BS(Ag) '41MS.....
Alexandria
- HERMAN L. ROSENBLATT '33BA.....
Minneapolis
- JANET HART WIDSETH '39BS(HE).....
Minneapolis
- HARTWELL WILKERSON '28BS.....
St. Paul

I certify that I am a member of the Minnesota Alumni Association and entitled to vote.

Signature _____
 Address _____
 Print Name _____
 Graduation year or years attended _____

INSTRUCTIONS

1. Place an X opposite each person for whom you wish to vote. Do not vote for more than five or ballot will not be counted.
2. Sign ballot with full name and initial. Print same, as all ballots will be checked against official membership list and it is important that your name is legible.
3. Clip ballot and send to Executive Secretary, The Minnesota Alumni Association, 205 Coffman Memorial Union, University of Minnesota, Minneapolis 14, Minnesota. No ballot will be accepted on any other form.
- For assured secrecy in submitting ballots, the mailing envelopes may be marked "Ballot" or enclosed within the mailing envelopes in a separate envelope so marked. All envelopes so labeled will be opened only by the election tellers.
4. Ballot must be in the office of the Executive Secretary by May 28th in order to be counted.



CLIP AND MAIL TODAY

Have You Voted Yet?

Dear Gopher Grad:

As a paid-up member of the Minnesota Alumni Association, you have the right to vote for fellow alumni whom you feel will best direct the policy of the Association. *It is time to cast your ballot now.* In voting, there is some information about the Association that you should know.

The Minnesota Alumni Association is a non-profit corporation of the state of Minnesota. The policy and program of the Association is determined by a Board of Directors of 23 members — 20 elected at large, and 3 members representing the official constituent alumni groups. Of the 20 at large members, *five* are elected each year for four-year terms. Board membership is limited to one four-year term.

Members of the Association vote by ballots published in the April as well as this issue of the *Gopher Grad*. Biographical sketches of nominees were published last month. *It's sad but true that only about 3% of the membership use their right to vote.* This means that less than 400 votes will elect.

The names of prospective nominees come from many sources — friends, classmates, classes, constituent groups, and from alumni clubs. The president of the Association appoints a nominating committee of five alumni, with no more than two from the Board, and with only one who can serve more than one year. The nominating committee selects a slate of 10, five of whom are elected.

There are two parts to alumni work at Minnesota. The *Department of Alumni Relations of the University* is charged with looking after all matters pertaining to its graduates and former students; of relieving the various colleges, schools, and department of the University from the need of doing the clerical work involved in keeping track of their graduates; to stimulate alumni activity and coordinate alumni programs. This phase

of the work is carried out by the Director of Alumni Relations, (who is also the Executive Secretary of the Minnesota Alumni Association) who is directly responsible to President Morrill.

The Minnesota Alumni Association, Inc., has, as its main purpose, the support and assistance of the University in every way possible. To this end, one of the Association's most important jobs is to *keep in contact with and get to know* as many alumni as possible. Alumni clubs have been established in 105 communities, 55 within the state of Minnesota. Innumerable alumni contacts are established and maintained throughout the length and breadth of the United States, and in many foreign countries — where club programs are not possible.

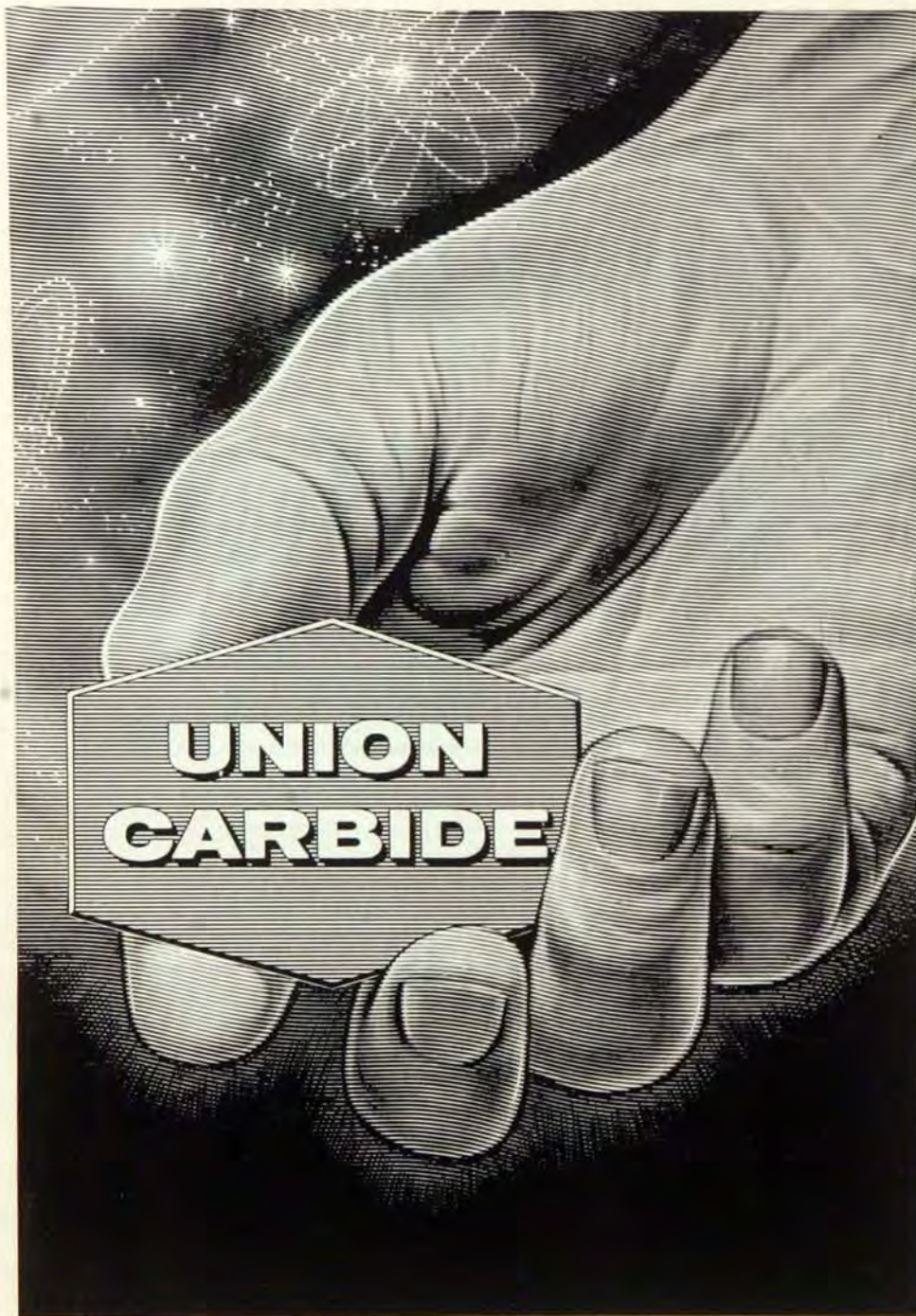
A *continuing interpretation of the University* to alumni is another part of the job. This is done in many ways, through the *Gopher Grad*, newsletters, correspondence, personal contact, and through trips and visits. A part of the interpretation job, too, is to find out what the alumni feel and think about their University.

There is, of course, the fund raising aspect handled through the Greater University Fund which is alumni-sponsored. There are many other aspects of the work too numerous to mention, all directed towards servicing the alumni, and whetting their interest in the University — Homecoming, reunions, Honors Luncheon, constituent groups, University of Minnesota Week, etc. The heart of alumni work is of course that of records, membership, and mailing. This is the day-to-day routine that make all programs possible.

But enough about the worth of the Association. *Suffice to say that the Association and its program belongs to you.* You can express yourself most effectively by voting for the directors you want. *Your vote is not only the privilege of membership but also the responsibility.*

Sincerely,

Ed Hauslet



For Forty Years our name has been Union Carbide and Carbon Corporation . . . more generally called "Union Carbide."

Now our company name will be Union Carbide Corporation. The change is in name only. The people of Union Carbide will continue to pioneer in developing and producing carbons and gases, chemicals, plastics, alloys and nuclear energy.

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Ten buildings slated for
completion within a year —

'U' Expands on 3 Campuses

A building project now underway is expected to relieve greatly the crowded campus facilities in Minneapolis, St. Paul and Duluth through the addition of ten units for research, classrooms and living.

Two of the constructions — the addition to the Law library and the Cedar Creek Forest laboratory for natural history study — have been completed within the past ten months.

Roy V. Lund '24BSCE University Supervising Engineer, said that the bulk of other building — six units in all — will be on or near the St. Paul campus while the remaining two are being constructed at Duluth.

The Cedar Creek Forest laboratory, which was paid for from a private grant, was one of four constructions built or being built with funds other than those appropriated by the state legislature. The others are the proposed St. Paul Union which will be open for construction bidding about this June and will be financed in part by gifts from public minded citizens, staff and students as well as student fees; and two housing projects, one for married students (expected to be completed this fall) and one for single students (expected to be completed by April '58).

The remainder of funds for the Union as well as funds for housing is a loan from the Housing and Home Financing Agency and will be paid back to the Federal government through income from the buildings.

Being constructed for study and research in Duluth are the science building addition and a unit to house the humanities department (both of which should be completed before September). In St. Paul, academic construction includes the soil science building and the dairy building (both of which should be completed by Jan. '58), and the veterinary science addition (expected to be finished by Mar. '58).

With the completion of the law library (Fraser Hall) addition in July of last year, 300 students were able to study in the new reading room of what is ranked as fifth among law libraries of the U.S.

The one-story Cedar Creek Forest project — to provide a laboratory for natural history study — is set on a 3,000 acre tract in north Anoka and southern Isanti counties. The forest, maintained jointly by the Uni-

versity and the Minnesota Academy of Sciences as an outdoor research laboratory, contains wild animals and unusual birdlife and plant species as well as being a meeting place of southern hardwood and northern evergreen trees.

Cost of the construction was paid out of a \$250,000 grant made to the University in 1954 by the Max C. Fleischmann Foundation of Nevada for the development of the forest.

The increased space and improved facilities for those in soil science, dairy and veterinary science are expected to permit instruction and research previously curtailed for lack of adequate working conditions.

Dr. William P. Martin, professor and head of soil sciences, said that without the prospect of the new building, the department may not have been able to establish and expand studies in soil microbiology and soil physics. This study, somewhat in line with the atomic age, concerns radioactive nutrients (such as phosphorous) being labeled and thus traced through the soil and into the crops. Such research would indicate how to better manage soils and to fertilize properly for efficient crop production.

Dr. Clarence L. Cole '36MA '56PhD, professor and head of dairy husbandry, welcomes the prospective facilities as the means to enable the department to try new methods in developing better dairy products. The department, whose work includes such studies as cheese ripening and aging, testing ice cream flavors and qualities and perfecting dried milk, is reported to be planning considerable research in perfecting dried whole milk.

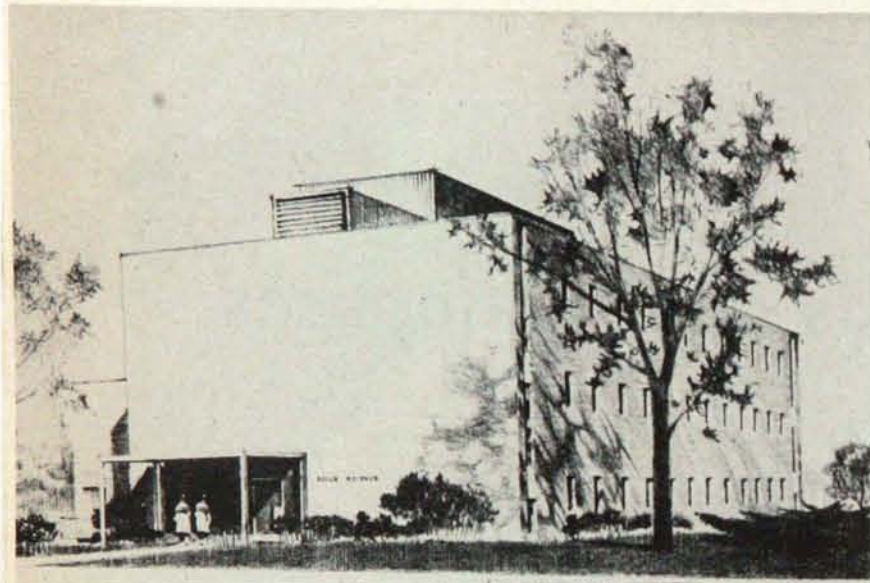
The addition to the veterinary science building will offer even more than much-needed facilities and teaching space, according to Dr. William T. S. Thorpe, assistant dean and director of veterinary medicine. Thorpe, in pointing out that the school had been on public probation since it was made a school by the legislature in 1947, said the proposed addition is a "definite step in the progress of the school and was instrumental in getting the school taken off public probation last spring."

(For pictures of some of the new constructions, see the following pages.)

Construction on the Campuses for Research, Classrooms, Living

Among new campus buildings or additions to buildings: (counterclockwise) the soil science building now under construction in St. Paul; the proposed St. Paul Union whose activity is presently housed in the Old Dairy building, constructed in 1891 with an addition in 1939; the completed

Cedar Creek laboratory for natural history study; single student housing being built near the dining hall on the St. Paul campus; married student housing being built near Thatcher hall; and the completed law library addition in the heart of the Minneapolis campus.



Sketches courtesy of
Magney-Tusler & Setter,
Architects & Engineers,
Minneapolis — photo
by Warner Clapp



Six Alumni Groups Plan Cap and Gown Day Reunion

New style class reunions—reunions by classes instead of the traditional large scale all-alumni gathering—will be held this year for the first time in conjunction with the May 23 Cap and Gown Day.

According to Ray Chisholm, the ass't. secretary, members of five classes have indicated that they will be on campus to meet with faculty members and to reminisce with their classmates. The graduate emeritus group will also have a luncheon.

Honored groups will be the Golden Anniversary class of 1907 and the Silver Anniversary class of 1932.

Ceremonies and renewing of old acquaintances will be in progress for the classes of '12, '22, and '42.

Reviewing the seniors of this quarter's graduating class will be the Golden Grads and Silver Grads. The groups will also be escorted to special reserved seats for the Cap and Gown Day convocation.

As in the past, the Gold Grads will receive graduate emeritus certificates signifying the University's appreciation of fifty years of service to the community and loyal support of the University.

Chisholm, who praised the initiative and active cooperation of all

Chairmen

'07

Emeritus



H. C. Quackenbush



Henry C. Mackall

groups, said that the class of '12 showed, in addition, "uncommon independence." He said this group formed a 37-member committee, made all its own arrangements, and then proceeded to mimeograph a letter in maroon ink on gold paper addressed to "Eminent, Distin-

reminisce—v.t. & i. To indulge in or give oneself up to recalling past experiences, memorable recollections

— Webster

guished, Superb and still long lived class of 1912."

1907

Registration will be in the ballroom lounge, main floor of Coffman Union from 9:30 A.M. to 11:30 A.M. About 11:15 A.M., the seniors in their caps and gown will march in colorful procession across the Mall to Northrop Auditorium. On the ramp in front of Northrop in special reserved seats, members will review the class of 1957. Later, they will be escorted to reserved seats to attend the Cap and Gown Day convocation.

The march from Coffman to Northrop to review the seniors will be made as a unit. All Golden Grads are asked to assemble in the ballroom lounge at 11:00 A.M. so that the group can go over to the ceremonies as a body. Following the convocation will be the Golden Anniversary Class Luncheon in Rm. 307-8-9, Coffman Union.

At the luncheon, graduate emeritus certificates will be presented and Pres. J. L. Morrill as well as MAA Pres. Glenn Seidel will speak briefly. After lunch, a class picture will be taken. The main part of the luncheon program will belong to class members as well as the rest of the afternoon.

1912

Registration will be in the hallway outside Room 305 beginning at 11:30 A.M. Heading the reception committee will be Willard A. Morse. There will be sightseeing and classroom visiting prior to luncheon which will be held at 12:30 in Room 305. Dean Theodore Blegen of the graduate school at Minnesota will be the emcee.

The committee, headed by Stan-

ley S. Gillam, has asked Gregg M. Sinclair, president emeritus of the University of Hawaii, to make the main address. Pres. J. L. Morrill and MAA Pres. Glenn Seidel will speak briefly. (Also spotted in the '12 class letter was a discussion on the class financiers, one of which is in Congress, followed by the comments: *We need more financiers in Congress; also, a few astronomers, the sky appearing to be the limit.* — Ed.)

1922

Registration will be in the hallway outside Room 353 beginning at

Chairmen

'22

'32



Skuli Rutford



Gordon Bodien

11:30 A.M. There will be sightseeing and classroom visiting prior to luncheon which will be held at 12:30 in Room 353 of Coffman Union. Pres. J. L. Morrill and MAA Pres. Glenn Seidel will speak briefly. Prof. Skuli Rutford of the department of agriculture is chairman of the 24-member planning committee. (In the '22 class letter is a note on arrangements ending with: *A 'buck' will help, a 'fin' will put us over and a 'saw buck' will renew our faith in mankind. Don't let a lot of excuses such as arthritis, business or baby-sitting for the grandchildren clutter up your determination to revisit the campus after 35 years.* — Ed.)

1932

Registration will be in the ballroom lounge, main floor of Coffman Union anytime after 9:30 A.M. The arrangements for observing the Cap and Gown ceremonies will be exactly the same as those for the class of '07. Luncheon will be at 1:00 P.M.

GOPHER GRAD

in the junior ballroom, third floor, Coffman Union. However, according to the schedule, Silver Grads will have to wait another 25 years before receiving the graduate emeritus certificates.

1942

According to tentative plans, this reunion will consist of a social hour. Co-chairmen Cal Smith and Al Heimbach will inform '42 graduates individually of arrangements.

Graduate Emeritus Luncheon

The luncheon will be held at 12:30 P.M. in Room 351-52, Coffman Union. Tickets are \$1.25 each. Mr. Henry C. Mackall, distinguished attorney and chairman of last year's Golden Anniversary reunion, will preside. Pres. J. L. Morrill and MAA Pres. Glenn Seidel will speak briefly. The afternoon will be spent in any manner selected by the members. MAA ExSecy Ed Haislet has issued a special reunion invitation to the graduate emeritus group and said he hopes every graduate who can (especially those in the vicinity) will find it possible to be present.

All returning alumni are invited to attend the Cap and Gown convocation.

The new style reunion method was voted last year by the MAA board of directors who felt that the fast-growing body of alumni (200,000 expected by 1970) was cancelling out the intimate contact previously enjoyed by students between the various colleges on campus.

In recognition, however, that there were graduates who may enjoy a class reunion, the board voted for such reunions in those cases where class members requested this type of gathering. All other reunions were voted to be held by college, school or by constituent groups.

Constituent groups already organized are the School of Business Alumni Association whose president is Orem O. Robbins '36BBA, the Alumni Association of the Institute of Technology whose president is Milton C. Wunderlich '19BSEng '20ME and the Alumni Association of the College of Education whose president is Emmet D. Williams '48BS '50MA.

Iron Rangers Hold Meeting



Alumni of the Virginia area and dinner guests who recently heard a talk on University problems given by Horace T. Morse, dean of general college (seated center), were Mrs. Agnes Luoma '36BSEd, secretary, (left); Floyd B. Moe, dean of Virginia Jr. College, toastmaster (right); standing (left to right): A. M. De-Yoannes '36BA, president of the Virginia MAA; Ernest Luoma, St. Louis county commissioner and Rep. Peter X. Fugina, 61st District (Photo by Mesabi Daily News)

Dads' Ass'n Petitions Freshman Dads for Fund Aid

The Dads' Association voted to call upon 4,000 Freshman Dads to help the Association in a drive to buy blazers for the Men's Glee Club.

The move, approved unanimously at the April 11 meeting of the board of directors, appears to insure success for the Dads' project to raise approximately \$1500 for the non-profit singing group which appears at campus functions.

Greater University Fund Director Robert Provost said that 235 members of the Association had been sent letters on the project and that, to date, 39 gifts have been received ranging from \$1 to \$40 and totaling approximately \$275.

Provost emphasized that, although returns from the first group of letters are still expected, help from other dads would be necessary to raise the funds.

The members, who met in the special events dining room of Centennial Hall, also heard Dean Theodore Fenske '29BSAg, associate

dean of the institute of agriculture, give an overall view of the university's program in agricultural education, research and service.

Among those making arrangements for the Centennial Hall meeting place were Jim Schroeder '50BBA and Frank Pearce 1912-16. William Harris '32BA, director of the University news service, was in charge of scheduling the speaker.

Four hundred forty one alumni of the school of medicine contributed a total of \$9,062.50 in 1956 toward their school, according to the American Medical Education Foundation, Chicago.

ACTION SHOT OF A
NEW ENGLAND LIFE
AGENT



Big moment for "Buck" Hubbard and Eriez as insured pension plan is launched

The Eriez Manufacturing Company of Erie, Pennsylvania, world-wide suppliers of magnetic equipment, now has a top-notch retirement program. It is one of New England Life's insured pension plans which provide liberal benefits at low net cost.

Buckley Hubbard (*Pennsylvania, '46*) developed the plan and sold its advantages to Eriez executives. The moment pictured above typifies the year-round satisfaction any New England Life agent gets from helping people make a better life for themselves.

He meets top-level people like President Robert F. Merwin and Controller James K. Brydon of Eriez (*l. to r. above*). His service and ideas have recognized value to his clients. He is rewarded by a steadily growing business. This company's pension plan, for example, is expected to expand considerably.

There's room in the New England Life picture for other ambitious college men who meet our requirements. You get comprehensive training. You get income while you're learning. You can work almost anywhere in the U. S. A. Your future is full of sizable rewards.

You can get more information about this career opportunity by writing Vice President L. M. Huppeler, 501 Boylston Street, Boston 17, Mass.

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These University of Minnesota men are New England Life representatives:

Irwin C. Kaiser, '17 Topeka
Bruce J. Robinson, '27, Indianapolis
A. Irving Birnberg, '22, St. Paul
Louis M. Schaller, '29, Minneapolis
Maidland E. Lane, Sr., '32, Minneapolis
Hubert D. Wheeler, '34, Gen. Agt. Duluth

Francis L. Lund, CLU, '35, Gen. Agt.,
Minneapolis
Howard D. Burdick, '39, Dallas
Morton C. Mosiman, '40, Minneapolis
Lloyd V. Shold, '42, Duluth
Robert R. Abrohams, '44, Minneapolis
Earl H. Mosiman, '47, Minneapolis

Ariel H. Oberg, '48, Los Angeles
Robert D. Myhr, '48, Chicago
Theodore J. Lee, '49, Duluth
Ben F. Day, '51, Milwaukee
H. Larry Wilson, Jr., '52, Minneapolis
John B. Heimkes, '54, Minneapolis
William G. Sullivan '56, Minneapolis

Ask one of these competent men to tell you about the advantages of insuring in the New England Life.

Miss St. Paul



Ardyce Gustafson, holder of the Pittsburgh MAA scholarship for this year, was named Miss St. Paul of 1957, thus becoming eligible to enter the Miss Minnesota pageant May 11 and 12 at Albert Lea, Minnesota. The winner goes to compete in the Miss America pageant in Atlantic City.

Chisholm Reviews Athlete Aid For Baudette, Roseau Alumni

Ass't. Secretary Ray Chisholm told alumni in Baudette and Roseau that, under the new conference athletic aid program, athletes can be accepted at the University on the basis of athletic ability without regard to scholastic attainment.

Chisholm, explained that this new basis for selection of athletes was one of the major reasons for Minnesota's stand against the new Big Ten ruling on financial assistance for athletes.

He pointed out, however, that the ruling has already been passed by a majority vote of other Big Ten schools and should become effective June 15.

Chisholm indicated that both Baudette and Roseau alumni turned out in force for the annual meetings of their respective clubs.

This gathering marked, also, the first actual meeting which alumni of Roseau County organized. Among those responsible for arrangements were Fred Olson '30DDS, Carol Schwichtenberg and Mrs. John Buran.

MAY, 1957

B. Ebbesen Elected Redwood Falls Leader

Bob Ebbesen '52LLB of Revere was elected to replace Noah S. Rosenbloom '52LLB as president of the Redwood Falls MAA.

Robert B. Cook '51BCE succeeds Earle Tighe '45 in the vice presidency and Mrs. Ebbesen was named to replace Janet Rosenbloom '52BA as the secretary-treasurer.

The elections, held at the club's Charter Day meeting, were a part of the business which also included a report on the now completed roster of alumni in the Redwood Falls area.

Philadelphia Alumni Mix Smorgasbord, Football

Thirty members and guests of the Philadelphia MAA met recently for a smorgasbord dinner which, according to retiring president John D. Peterson '35BME, was a meeting with "a real football flavor." Jim Camp, assistant football coach at the University, and Ray Malavasi, also of the coaching staff, were guests of honor.

Succeeding Peterson as president is Fred H. Larson '25BCE. Other officers elected at the meeting were Howard Furlong '52BBA, vice president, and Esther Rogness Eaton '28BSAg, secretary-treasurer.

New Life Members

Alice Estervog '52BSEd '53MEd
Minneapolis, Minnesota

Harriet G. Bragg '40MB '41MD
Attleboro, Mass.

William Llywelyn Edwards '48BBA
Mankato, Minnesota

Mrs. R. A. Hasselbring '45BSEd
New Brunswick, N.J.

Mabel E. Parker '21BSEd
Bemidji, Minn.

New Alumni House Considered by MAA

The possibility of converting Shevlin hall into an alumni house was discussed by members of the MAA Board of Directors at their meeting April 11.

Shevlin hall currently houses the speech clinic, part of the College of Education and a cafeteria which is used by both University and U High students.

Board members felt that such a move would be desirable, considering the great number of alumni that will be added in the next fourteen years. The alumni house would include a lounge, where alumni meetings could be held. President Morrill has indicated his support to such a move.

In other business, it was announced that the North Central Publishing Co. has presented a \$100 gift through the Greater University Fund for use by the Alumni association for communication purposes.

The Honorable Marjorie Howard, University Regent from Excelsior, spoke to the Board on some of the problems that face the Board of Regents and how they operate.

Wheaton Gophers Call First Annual Meeting

Twenty-five active alumni in the Wheaton area held their first annual meeting which featured Dr. Werner Levi of the University staff as main speaker.

Officers elected were: John Perry Carlson '52BA, president; H. N. Weickert, '22DDS, vice president; Donald Bluhm '50BA, secretary, and Gordon Donnelly '40BSEd, treasurer.

Levi, who spoke on the western Asian problems, was reported to have enjoyed the football movies shown during the gathering, claiming that he'd never seen a football game.

One of the leaders in organizing the group is Gunder Gunhus '51BSL '53LLB, a Wheaton attorney.

Regents Name Peterson Radiology Head; Approve Two for Korean U Staff

University regents named Dr. Harold O. Peterson to head of the University's radiology department.

He will take over the department in September. Dr. Peterson replaces Dr. Leo G. Rigler — who has resigned to take a position as consultant at Cedars of Lebanon hospital in Los Angeles.

Dr. Peterson has been clinical professor of X-ray diagnosis and therapy since 1953 at the University.

Other promotions and transfers approved by the regents include that of Thomas H. King, professor of plant pathology and botany, who will serve as professor at the Seoul

National University of Korea on the University of Minnesota's co-operative project there; and that of George A. Warp, associate director of the political science public administration center who will also serve on the Korean project.

22,310 Enrolled At University

Spring quarter attendance at the University totals 22,310, an increase of 1,309 or 6.2 per cent over the 21,001 enrollment for spring quarter a year ago, True E. Pettengill, University recorder, reported.

The attendance for winter quarter was 23,961 or 1651 students more.

Included in the current student total are 16,373 men and 5,937 women. A year ago there were 15,435 men and 5,566 women.

Largest current enrollment, 5738, is in the college of science, literature and the arts. Second largest is in the institute of technology, 3156. Smallest is school of medical technology with an enrollment of 49.

The enrollment at the Duluth branch accounted for 1816 students.

Alum Institute Marks Hospital Course 10th Year

The tenth anniversary of the University course in hospital administration was observed with an alumni institute in hospital administration.

The institute, the first of its kind at the University, was held in April through the cooperation of the Center for Continuation Study. All sessions were in the Mayo Memorial auditorium in the University's medical center.

The University's course in hospital administration was established in 1946 under the leadership of its present director, Professor James A.

Hamilton. The 21-month program, which operates as part of the school of public health, leads to a master's degree. Students spend the first nine months in academic work on the campus and the following 12 months in residency training under selected preceptors, who are hospital directors.

Of the 191 course graduates now located in administrative positions in hospitals and selected health agencies in 38 states, Canada and South America, approximately 50 attended the anniversary institute.

New Psych Head

Kenneth E. Clark, University of Minnesota psychology professor, has been appointed chairman of the University's psychology department and will assume his new duties in June.

Clark will replace Professor Paul E. Meehl, department chairman since 1951. Meehl will return to a position of teaching and research and will serve as co-director of the \$238,000 five-year Ford Foundation psychiatric diagnosis project in the University medical school.

Mr. and Mrs. Clark and their three children live at 526 S.E. Seventh st., Minneapolis.

Radio-TV Head



Dr. Burton Paulu

has been named director of the newly-created department of radio-television broadcasting and will be responsible for University television courses on KTCA-TV as well as for the continued operation of KUOM, the University radio station. He received a BA in '31, BS in '32, an MA in '34. KTCA-TV is the Twin Cities' new educational television station.

Expanded Summer Program Planned by Union Board

The Union Board of Governors has announced a summer program which will be far more extensive than previous summer programs at Coffman Union.

Program consultant Dick Getchell said the tentative program, as approved by the Board, includes terrace dances, square dancing, dance instruction, family and fun days and hi-fi listening hours. The tentative budget, \$2,772 is almost four times the amount spent by the Union for programming last summer.

Board president Jim Heltzer, Education senior, said other schools have met increasing enrollments by taking as much as \$51 annually from each student's tuition fee. Heltzer added that the \$15 the University annually receives from each student is lower than the amount received by at least half of the student unions at Big Ten schools.

\$12,490 a year

The 1956 average income of the 562 salesmen with our Company five years or longer was \$12,490. These 562 represent 44% of the total number of our full-time salesmen.

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Stanley J. Kronick '32, Minneapolis
Stanley Johnsen '38, Atlanta

Robert G. Farmer '37, Dallas
Joseph S. Hurley '39, Washington
Miles W. McNally '44, Minneapolis
Jean M. Youngdale '44, Home Office
Robert E. Lambert '49, Boston

Donald W. Schneider '49, Minneapolis
Seward F. Philpot, Jr. '50, Chicago
Albert W. Schuneman '50, St. Paul
Richard C. Heverly '53, St. Paul

In each of our general agencies, coast to coast, there is a valuable lifetime career opportunity for men suited to our business.

'Mr. and Mrs.' Alumni Dance Planned for May 11

The quarterly "Mr. and Mrs." alumni dance club meeting will be held in the main ballroom of Coffman union on May 11, according to Gordon Starr, director of student union activities.

Dance instruction will be part of each program. Al Wicklund, dance instructor, will be present to teach members the "latest" in dance steps.

Membership in the club is open to alumni and their spouses. Any alumnus interested in forming a similar club should contact Ed Haislet, ExSecy of the MAA.

U Press Moves

The staff of the University Press has announced that, after a month of getting settled in new quarters at 2037 University Ave. S.E., business is well on the way to being resumed 'as usual.'

For the past 10 years, the staff headquartered at Nicholson Hall (formerly known as 'Men's Union') in the heart of the campus.

Nurse to Attend Meet in Rome

Nursing senior Sandra Ann Halverson, winner of a \$1,000 scholarship to attend the International Council of Nurses (ICN) in Europe, reports Liverpool as the first stop of her trip to Rome for the May 27 conclave.

Miss Halverson is the daughter of Mr. and Mrs. Clarence Halverson, Atwater, Minn. Her award was provided from funds raised in the annual carnival sponsored each February by Powell hall, University nurses' residence.

The ICN, a federation of national nursing organizations, will meet through June 1. The program will include discussions of the responsibility of selection and education of nurses and nursing administration.

Miss Halverson's trip will include



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visits to England, Ireland, Scotland, Norway, Sweden, Denmark, Germany, the Netherlands, Belgium, Austria, Switzerland, France and Italy, where she will visit scientific, medical, educational institutions.

While in Germany, she will visit an 11-year-old girl who is being assisted financially by the Powell hall governing association.

\$173,117 Cancer Grant

Approval of a \$173,117 research grant to Dr. John J. Bittner, head of the University of Minnesota's department of cancer biology, to continue for the next five years his study of mammary cancer in mice has been recommended by the National Advisory Cancer council.



"What really sold me," says Jerry, "was the way they conducted engineering. I'd expected rooms full of engineers at desks. Instead, I found all the informal friendliness of my college lab."

Gerald, an E.E., came directly to IBM from the University of Buffalo, in 1953. Starting as a Technical Engineer, he was immediately assigned to work, with two others, on designing a small calculator. The supervisor of this project was Dr. R. K. Richards, author of "Arithmetic Operation in Digital Computers." Jerry learned a great deal about computers in a very short time. Incidentally, his particular machine is now going into pro-



Assigns problems to his group

duction. As Jerry says, "It makes an engineer feel good to see his project reach the production stage—and to be able to follow it through."

Promoted to Associate Engineer after 16 months, Jerry is now the leader of a nine-man team. He assigns problems to his group for solution, approves their block diagrams and the models they build. Perhaps an hour a day goes into paper work such as requisitioning equipment for his group and reviewing technical publications, in counseling members of his team and preparing for trips to technical society meetings. Apart from his regular responsibilities, he teaches at night in the IBM school.

Why Jerry chose IBM

Of course, there were other reasons

"What's it like to be A PRODUCT DEVELOPMENT ENGINEER AT IBM?"

Three years ago, college senior Gerald Maley asked himself this question. Today, an Associate Engineer and leader of a nine-man team, Jerry reviews his experience at IBM and gives some pointers that may be helpful to you in taking the most important step in your engineering career.

why Jerry selected IBM. He was vitally interested in computers, and IBM was obviously a leader in the field. He comes from a scientific family



This field is so new

(his brother is a mathematician) and is fascinated by these mathematical marvels which are revolutionizing man's ways of doing things in so many fields. He enjoys working on large equipment . . . and on "pulses." "It's more logical," he says. "In computer work, you can actually see things happening, which is not the case with all electronic equipment today. And it's not all solid math, either. What's more, this field is so new, that pretty soon you're up with everybody else."

Gerald has done recruiting work himself for IBM and believes he un-



Reviewing technical publications

derstands some of the college alumni's problems. "I usually begin an interview by determining a man's interest," he reports. "Then the diversity of work at IBM enables me to offer him a job which will challenge that

interest." Gerald distinguishes between two kinds of engineers—those who like to work on components, such as circuit designs, and those who are interested in the part the component plays. The latter is his own interest, which is why he is in advanced machine design. He points out that IBM is careful to take these factors into consideration—another reason, perhaps, why turnover at IBM is less than one-sixth the national average.

What about promotions?

When asked about advancement opportunities at IBM, Jerry says, "You can hardly miss in this field and



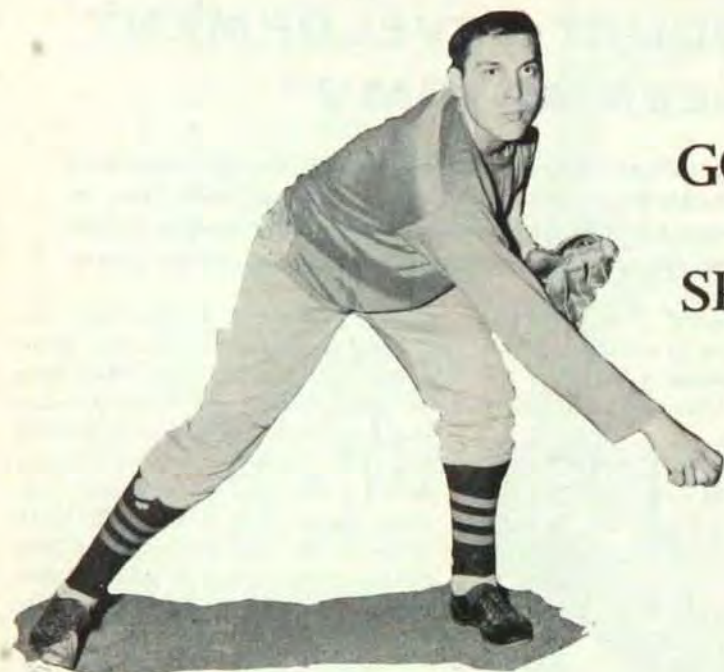
Promotion almost axiomatic

in this company. They tell me sales about double every five years—which in itself makes promotion almost axiomatic." He endorses the IBM policy of promoting from within, with merit the sole criterion. The salary factor, he remembers, was not his first consideration. While excellent, the tremendous advancement potential was of far greater importance.

Equally challenging opportunities exist for experienced engineers and scientists in all of IBM's many divisions across the country. For details, write P. H. Bradley, Room 12005, IBM Corp., 590 Madison Ave., New York 22, N. Y.

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"One of the hardest throwing boys—" Renteria

GOPHERS ON BASE; SPRING STRIKES OUT

By WILL SHAPIRA
Minnesota Daily Sports Editor

Spring training — that time of year baseball players work hardest yet enjoy the most — found Minnesota's NCAA champions spending 12 days in Texas and Oklahoma, preparing for the Big Ten season, while weather promised little practice at home.

So far, Coach Dick Siebert feels the results have been pleasing.

The Gophers won two, lost three and tied two on the trip, but that doesn't tell the entire story.

Siebert didn't play the games strictly to win. Rather, he concentrated on giving the "unknown quantities" a good chance to show what they could do.

Several came through very well.

Possibly a better prospect than his brother, Jerry, at the same stage of his career, George Thomas had to play only two games to prove he's "got it."

The six-foot, four-inch Bloomington boy was ineligible until the last two games at Oklahoma. But once he got into action, it was easy to see the talent is there.

George started on the mound against the Sooners and hurled five innings. Despite the fact he was nervous and wild in his first college game, he exhibited a blazing fast ball and a neat assortment of curves.

And when he was relieved, he just moved over to the outfield and collected a pair of hits for the series.

The other youngsters looked good, too. Coach Dick Siebert's son, Dick, Jr., lost his first start on the mound but came back in two fine relief performances.

Siebert, the self-styled "junk man" (so-called because

of his reliance on deception rather than over-powering speed) showed a nice variety of curves and speeds.

One of the hardest throwing boys on the squad is Art Renteria, a six-foot, four-inch, 225-pound St. Paul lad who was one of two Gophers (Dean Maas was the other) to get credit for a win on the trip. He started against Houston and went eight innings before Siebert relieved him. The Gophers won 5-4.

Several days later, he went another 7 and $\frac{2}{3}$ frames against Oklahoma in a 1 to 1 tie. After watching those two impressive performances, Coach Siebert announced Renteria will be his number two hurler behind Capt. Thomas.

Other newcomers to the squad who looked good on the trip were Pete Badali at shortstop; Marty (Skeeter) Nelson in rightfield; Bill Sandback in left, and Max Schmitt (who returns after a four year absence) in center.

Though the focus was on baseball, the team got plenty of "extra-curricular" activity highlighted by a banquet in Houston.

The affair was given by the University of Minnesota Alumni Association of Houston. Several of the team impressed the audience as after dinner speakers. Athletic Director Ike Armstrong who made the Southern swing also spoke as did Coach Siebert.

The Gophers opened their Big Ten slate against Northwestern April 26 and Wisconsin the 27th, both away.

Alumni to Test Varsity Gridders

The theory that "pennants are won in the spring"—referring to the benefits of spring training—might also hold true in football.

The Gopher gridders opened a month of spring football practice April 16 with 85 candidate reporting for workouts.

The Gophers will practice four times a week for one month before capping drills with a May 18 game against the Alumni, the second contest of its kind at Minnesota.

The first few practices were light but Warmath now plans a series of Saturday scrimmages under game conditions to see what's what.

Warmath knows what the veterans can do; what he's interested in most is how the sophomores of next fall will help him.

Warmath installed an all-veteran team as his first unit during the opening days of practice. However, newcomers may be pushing the vets for their jobs before spring drills are over.

Two of the most likely to do this is halfback Willie Fjerstad of Red Wing and Jerry Shetler. Fjerstad is one of the fastest boys on the squad

Dommeyer Gives a Hand In West Win Over East

Minnesota's Jed Dommeyer helped the West upset the East by scoring eight points in the annual Shriners' East-West basketball game held recently in Kansas City.

Dommeyer, a forward, was a part of the team led by a former rival, Gary Thompson, All-American of Iowa State. Thompson scored 16 of the 64 points which upset the East 64-60 and won him the nomination for the game's outstanding player.

U Track Team Paced by Weightmen

Minnesota's 1957 outdoor track team again will be paced by a good group of weightmen as well as some good prospects in the dashes and the distances.

Leading the weighmen this year is Dale Yonkey who coach Jim Kelly figures should win the conference discus championship. Dave Herbold and Glen Nurkka are others who will give the Gophers good depth in the discus.

In the shot put Bob Henry, who placed second in three conference meets last year, is back to lead the way with plenty of support from Yonkey and football star Bob Blakely. Blakely, however, may see only some action due to spring football.

Captain Bill Garner will be one of

and, being solidly built, can buck the line as well. Sophomore Shetler, one of the stars of last year's freshman team, threatens to take over a starting berth from Mike Svendsen and Bill Jukich.

The Gopher first team lineup for the first week of practice was as follows: Capt. Jon Jelacic and Perry Gehring at ends; Norma Sixta and Frank Youso at tackles; Dave Burkholder and Bob Rassmussen at the guards; Mike Svendsen at center; Bob Cox at quarterback; Bob Blakely at fullback, and Bol Soltis and Bob Schultz at the halfbacks.

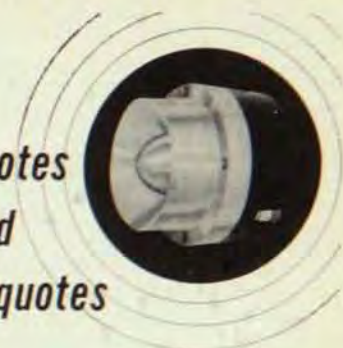
Expected to participate for the Alums are such notables as Geno Cappelletti '53, Bob '54 and Dick McNamara '56, Shorty Cochran '55, Jim Malosky '49, Bud Grant '49 and Billy Bye '49.

Baseball Schedule

May 3—Purdue	Here
May 4—Illinois	Here
May 8—Mankato STC	Here
May 10—Iowa	There
May 11—Iowa	There
May 14—St. Thomas	Here
May 17—Michigan	There
May 18—Michigan State U.	There
May 21—St. John's U.	There
May 24—Indiana	Here
May 25—Ohio State	Here
June 1—Alumni	Here

the top Gophers in the dashes and he should get some good support from Norm Anderson, Bruce Hलगren and Jim Engfer. Bob Mittlestadt is a good prospect in either the 440 or 880, along with Don Schimmel in the 440.

notes and quotes



*loudspeaker logic
for the newcomer
to high fidelity*

PART I

*advantages of a system made
with components*

"High Fidelity" is a phrase invented by sound lovers who were determined to find a better way of reproducing music in their homes. They found equipment which would accomplish this in the small establishments of sound specialists who were making precision reproduction equipment primarily for the motion picture and broadcasting industries.



*The very best loudspeaker system—
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Today there are two kinds of high fidelity. The first kind is the music system assembled from specialist-built components. The second is the ordinary, packaged, complete radio-phonograph to which the term "high fidelity" is indiscriminately attached as a merchandising slogan. Since the second kind appropriates the words from the first, we shall call the original, component type, "true high fidelity".

The components in a true high fidelity system will consist of a loudspeaker system, power amplifier, preamplifier-control unit, and sound sources. The source components may be of any of the following: FM and AM radio tuners, record changer or player, tape machine, television chassis.

The advantages to owning a music system made up of components are: 1. You get better quality sound for less money. 2. You can balance the quality of components. 3. You can continue to improve upon your system. 4. The system you select will exactly match your individual needs.

JBL Signature loudspeakers are true high fidelity components made by James B. Lansing Sound, Inc., a manufacturing concern which devotes all of its energy and resources to making the very best loudspeakers possible. JBL Signature speakers are made with the care and precision usually associated only with the manufacture of scientific instruments. Components of this quality are only available for use with true high fidelity systems. They are demonstrated and sold by dealers who specialize in audio components. There is a JBL Signature speaker for every purpose. They range from the beautiful, small, Model D208 eight-inch extended range unit to the mighty Hartsfield, a complete speaker system built around JBL Signature Theater Speakers. Write for your free catalog and the name of the audio specialist in your community.



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Around and About with the Alumni

'04

John Nichols '04LLB reigned as Master of Ceremonies at the Big Ten Universities club annual Beer Bust in January in San Francisco sponsored by Minnesota. A review of the Rose Bowl contest and a movie presentation of the "Highlights of the Football Season" for the Big Ten champions, Iowa, were featured events of the evening.

'14

William Ripley Dorr '14BSE recently retired and has moved to 2706 Cuesta Road, Santa Barbara, Calif. Dorr has followed a dual career as pipe organ sales and technical expert, and as an organist and choirmaster specializing in the training of boy choristers. His boy-choir of seventy voices at St. Luke's Episcopal church, Long Beach, Calif., achieved national fame through its album of records for Capital Records, which sold well over a million copies, and its work in eighty-nine motion pictures, including such productions as *San Francisco*, *Mrs. Miniver*, *Song of Love*, *Romeo and Juliet* and *The Great Caruso*.

'17

Maynard Coe '17BSAg has been named to the advisory committee of the new Thor Research Center for Better Farm Living. The group will guide the Research center in its nation-wide "Operation Farm Improvement" program to increase operating efficiency and living comfort through better planning and use of the farm shop. Coe, of Chicago, is director of the farm division of the National Safety Council. He was engaged primarily in 4-H club work in Minnesota and Kansas until he joined the NSC in 1944.



Maynard Coe

Victor A. Christgau '17FS, Director, Bureau of Old Age and Survivors Insurance, Washington, D.C., and past president of the Minnesota Alumni Association, gave the major address at the March commencement exercises of the University's School of Agriculture.

Class Reunions on Campus

(Cap and Gown Day)

Golden Anniversary.....	1907
Silver Anniversary.....	1932
Others.....	'12, '22, '42 and Graduate Emeritus Group.

'24

Clifford M. Stoner '24BSCE has been promoted from vice president to first president of the Railway Wheel association. The promotion followed a reorganization in the technical trade association of the manufacturers of chilled cast iron and cast steel wheels for railroad use. The name of the association was changed from "Association of Manufacturers of Chilled Car Wheels" to a simpler and more descriptive, "Railway Wheel Association." Stoner has been in the railroad car wheel business since 1927 and has been on the staff of the wheel association since 1934.

'26

Margaret Helander Hass '26BS, of Outlook, Mont., currently is a vice president of the Security State Bank of Plentywood, Mont., and also a director on North Eastern Montana Telephone Coop.

'29

James Matthews '29BBA, flight manager for United Air Lines in Seattle, recently was enrolled with 24 other key UAL personnel in a special course in the aviation division at the University of Southern California. The 100-hour "aviation symposium" prepared UAL men to operate the DC-Jetliners which will go into use in 1959.

'30

William C. Battle '30BBA has been appointed eastern division sales manager of the Drackett Products Co. Battle previously was assigned to the firm's Philadelphia office. He has been connected with Drackett for the past 18 years.

'31

Col. Kirk Buchak '31BEE recently assumed duties as Signal Officer of the Third U.S. Army, Fort McPherson, Ga. From 1952 to 1955 Col. Buchak served in Japan as Signal Officer of the XVI Corps and the IX Corps. From 1942 to 1947 he served alternately in England, Gibraltar, North Africa and Italy. Most recently he was chief of the Combat Development department at the Army Electronic Proving ground, Fort Huachuca, Ariz. Col. Buchak's decorations and awards include the Legion of Merit, the Bronze Star and the Army Commendation ribbon. He also received the Legion of Honor from France and the Order of the Crown from Italy.

Wilbur F. Murra '31BSEd, of Minneapolis, and Marion Murphy '32BA recently were married. Mrs. Murra formerly lived in St. Louis, where she was a librarian at Washington University Medical school.

O. J. Anderson '31BME, Ishpeming, Mich., is now chief Mechanical Engineer at the Cleveland-Cliffs Iron Co. on Marquette Range in Michigan.

Kenneth C. Butler '31BSAg has been named to the group of 20 top farm



Kenneth Butler

leaders who will serve on the advisory committee of the new Thor Research Center for Better Farm Living. The group will guide the Research center in its nation-wide "Operation Farm Improvement" program to increase operating efficiency and living comfort through better planning and use of the farm shop. Butler, of Hutchinson, Minn., is president of the National Flying Farmers' association. He previously spent nine years with the United States Department of Agriculture.

'35

Professor Melvin Calvin '35PhD of the University of California, one of the world's leading authorities on photosynthesis—the process by which green plants build their tissues from air and water with the aid of sunlight—recently received the \$1,000 American Chemical Society award for Nuclear Applications in Chemistry during the Society's 131st national meeting in Miami. The award is given annually to recognize outstanding contributions by scientists from any part of the world to the application of nuclear materials in chemistry. Dr. Calvin's work with radioisotopes—radioactive forms of chemical elements—has contributed importantly to the understanding of three major fields of chemistry—physical, organic and biological. Dr. Calvin is a professor of chemistry and director of the bio-organic division of the University of California's Radiation laboratory.

'41

Robert L. Larson '41MetE has been appointed general manager of the new Indianapolis, Indiana plant now under construction for Joseph T. Hyerson & Son, Inc., steel distributor. Larson has been with Ryerson since 1945.

'42

Albert C. Wedge '42BME has been name director of manufacturing for DeWalt Inc., manufacturer of industrial and homeshop woodworking equipment, Lancaster, Pa.

ALUMNI

Richard C. Brueckner '42BSEd has been appointed a secretary and assistant general counsel of all companies of the Royal-Globe Insurance group, New York. Brueckner, also a graduate of Harvard Law School, served with the Army in World War II and has been with Royal-Globe since 1949.

Dr. Harry F. Herbrandson '42BChemE has been advanced to the full rank of professor of organic chemistry at Rensselaer Polytechnic Institute, Troy, N.Y., where he has taught since 1949. He is carrying on research in the mechanisms of organic reactions.

'45

Marjorie Jane Eustis '45BA, an instructor in the division of pediatrics, Pediatrics Psychiatry department, New York State University College of Medicine, is engaged to be married to Raymond F. Frankel of New York. Miss Eustis, whose parents reside in Tuscaloosa, Ala., is a granddaughter of the late Dr. W. C. Eustis, who was a member of the first University of Minnesota graduating class. Mr. Frankel is with Electric Bond and Share Co., New York investment concern. A May wedding is planned, after which the couple will live in New York.

'47

William Dunseth '47MBA has been appointed director of public relations and development of Hampden-Sydney College, Va. Dunseth, who will begin his duties July 1, has been vice president for public relations and development at Park College, Parkville, Mo., since 1953. He previously was dean of men and assistant to the president there. "Hampden-Sydney is extremely fortunate," said Dr. Joseph Robert, president of the college, "in being able to add to its staff a man of such high ability and broad experience. We eagerly await his arrival on campus."

Dr. Maurice N. Johnson '47MD has been named director of the newly formed medical department of the Chemstrand corporation. Dr. Johnson will have charge of all medical activities of the corporation and will coordinate and standardize all medical practice as well as keeping abreast of latest medical developments. Dr. Johnson has been with Chemstrand's Pensacola medical group since 1954, coming there from six years with the Navy as a flight surgeon.

'49

Prof. Robert K. Finn '49PhD, of the School of Chemical and Metallurgical Engineering of Cornell University, is currently teaching courses in "bioengineering," a field that covers the processing and production of biological materials. Prof. Finn also directs several research projects in this field. Before joining the Cornell faculty, Prof. Finn taught six years at the University of Illinois.

Stephen F. Buck '50BA has been named to the newly created position of director of ground operations for Riddle airlines. He will be responsible for station organization and administration of ground functions for the 24 cities in the U.S. and Puerto Rico served by Riddle. Formerly, Buck was assistant to the operations manager of Riddle airlines.

'50

J. B. Bingeman '50MS has been appointed acting supervisor in process design at the Baton Rouge installation of Ethyl Corporation's Research and Development department.

'51

James Murphy '51BSAg has been named sales representative for Massey, Harris, Ferguson in Madison, Wis.

Arthur F. Rizzi '51MS has been appointed assistant contracting manager at the Minneapolis district office of U.S. Steel's American Bridge division. Before joining American Bridge in 1954, Rizzi was employed by the highway commission and state board of health at Madison, Wis.

'52

Robert J. Hohman '52MA has been named executive secretary of the Minnesota Heart association. Hohman, who previously was executive director of United-Cerebral Palsy in Minnesota for three years, has been coordinator of the hospital service study with the Minnesota Health department.

Gerald A. Peterson '52BA, a Cornell graduate student, has been awarded a Fulbright scholarship for the next academic year, to study solid state physics at the University of Oslo in Norway.

Marian Deininger '49BA, '52MA is completing her second year as instructor-counselor at the Women's College of the University of North Carolina at Greensboro.

Arnold Christianson '52BSEd, Lutheran Brotherhood representative in Poplar, Wis., has been transferred to Tucson, Ariz. Christianson has been a representative of Lutheran Brotherhood, fraternal life insurance society, since 1954.

Thomas D. McCoy '52BA has been employed as administrative assistant in the industrial relations department of Electromet at Sault Ste. Marie, Mich.

'54

Owen P. Hatley '54MHA has been appointed assistant administrator and registrar of Charles T. Miller hospital, St. Paul. Hatley has been director of the hospital facilities section of the Idaho public health department since 1950.

'55

James B. Bell '55BA has been appointed Assistant Zone Distribution manager in the Minneapolis zone of the Chevrolet Motor division, General Motors.

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(HAWTHORNE, CALIF.) Northrop Aircraft's new four-unit test facilities, part of an over-all \$8,000,000 development project, are now completed and are the most advanced in the industry.



The two-story Test Building in the foreground of the photo is the hub of the test facilities. It houses engineering groups that are concerned with planning and interpretation of all test operations. Behind, is the new high-performance, sub-sonic wind tunnel which is used to test aerodynamic reactions of supersonic aircraft and missiles at take-off and landing speeds. The building with the black "tower" is the Jet Engine Test Cell. One building within another, this structure is completely soundproof. To the right of the Test Building is the Environmental Test Laboratory. Here Northrop engineers can duplicate all types of weather, altitude, and temperature to provide a full-scale indoor proving ground.

When completed, the entire Engineering and Science Center will provide over 250,000 square feet of floor space where Northrop engineers will continue with the never-ending study of guided missiles, jet aircraft, atomic and nuclear energy, the thermal barrier, aerodynamics, human engineering and many other areas of advanced research. Just as there is no end to scientific inquiry, opportunities for accomplishments in these fields at Northrop are endless.



CAREERS FOR ENGINEERS

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Bernadine Erickson '55BA has been named speech correctionist for the Fargo and Moorhead Opportunity school.

Dr. Clell B. Hartley '55PhD has been named Research Laboratory manager for Fairmont Foods Co. Hartley had been with Kraft Foods Co. since 1952. In 1956, he was made assistant Quality Control manager in the Foods division of Kraft.

Heinrich Weyer '55MA, Siegen, Germany, recently received a doctor of law degree, cum laude, from Goettingen University, Germany.

Second Lt. Robert E. McGarry '55LLB has been promoted to the rank of first lieutenant in the Army Transportation Corps.

'56

Army Second Lt. Clark H. Cummins '56BSFor recently was graduated from the field artillery officers basic course at the Artillery and Guided Missile Center, Fort Sill, Okla.

Army Second Lt. Franz A. Koeneke '56BA recently was graduated from the field artillery officers basic course at the Artillery and Guided Missile center, Fort Sill, Okla.

Norman D. Hedish '56MA has been named to the staff of the Department of Accounting, the University of Illinois, Chicago Undergraduate division.

Bruce Moulton '56BA recently completed basic training at Fort Ord, California, and is now at the Field Artillery school at Fort Sill, Okla.

Grads, Morrill Represent U

President James L. Morrill represented the University at the Ohio State University inauguration ceremonies on April 29.

The University of Minnesota also will be represented by alumni at college ceremonies next month.

Dr. William M. Roberts '44PhD will represent the University at the inauguration ceremonies at the Consolidated University of North Carolina on May 8.

Dr. Merle O. Moe '41MA will be the University's official representative at the inauguration ceremonies at Morningside College, Sioux City, Ia., on May 3.

Dr. Gordon M. Low '55PhD will attend Centennial Convocation ceremonies at San Jose State College on May 2.

Dr. Francis C. Frary '12PhD will attend inauguration ceremonies at the University of Pittsburgh on May 11.

Alumni who represented the University at college ceremonies last month were Dr. George R. Dochat '42MS at inauguration ceremonies at Baldwin-Wallace college, Berea, Ohio, and Dr. Jacob George Harrar '35PhD at New York University inauguration ceremonies.

Former Union Head Named Secretary Of Surgeons College

G. Ray Higgins '30BChE, who was director of student unions at the University for 20 years, has been named the national Assistant Executive Secretary of the American College of Surgeons, Philadelphia.



G. Ray Higgins

Since 1952, Higgins served as Executive Secretary of the Minnesota Heart association.

The American College of Surgeons is composed of qualified internists of high standing, including those specializing in pediatrics, neurology, psychology, pathology, radiology and public health.

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Books

British Broadcasting: Radio and Television in the United Kingdom, by Dr. Burton Paulu '32BSEd '34MA, University Press.

A comprehensive survey of British broadcasting practices is presented in the book, "British Broadcasting: Radio and Television in the United Kingdom" by Dr. Paulu, manager of the University's radio station KUOM and head of the newly-created radio-television department. He did the basic research for the book as a Fulbright scholar in London in 1953-54. His personal acquaintance with British broadcasting began earlier, however, in 1944-45, when he served in England with the United States Office of War Information.

In his book Dr. Paulu traces the development of the British Broadcasting Corporation as a non-commercial, public enterprise with a monopoly of British broadcasting

and reviews the factors that led to the emergence of the commercially supported Independent Television Authority. While he frequently compares British and American practices, he treats his subject primarily in the British context, since he feels that broadcasting should be studied in its own national setting.

More Tales From Norway, by Nora D. Christianson, Vantage Press, New York.

More Tales From Norway is the title of a new book by Nora D. Christianson, a former UMD student now living in California. The book contains 13 adventurous and imaginative tales taken from Norwegian folklore. Now a busy civic worker as well as housewife and teacher, Mrs. Christianson is remembered as an enthusiastic and inspiring youth worker, particularly among children whose motivation has been stunted by unfavorable or inadequate family experience.

The Concept of Development: An Issue in the Study of Human Behavior, edited by Dale B. Harris '37MA '41PhD, University Press.

Seventeen contributors from the fields of philosophy, the natural sciences, psychology, medical science, social science, and the humanities discuss the concept of development as it is used in the various disciplines linked with biology and with extensions into a broad field coming to be designated as the "behavior sciences."

The concept is reviewed as a process of change over a period of time, and the spokesman for each field examines the utility of the concept and evaluates it with reference to his discipline. There is a foreword by Malcolm M. Willey, vice president of academic administration.

Printing Excellence Cited

A top honor in book designing and production in a judging of more than 650 entries has been given to a book published by the University Press, "The Idea of Louis Sullivan" by John Szarkowski. This book has been selected by the American Institute of Graphic Arts for inclusion in the Fifty Books of the Year 1957 exhibition in New York City, Boston, and Washington, D.C. Later exhibitions will be held throughout the United States, in Canada, and in England.

The book, a photographic essay by Szarkowski on the work of Louis Sullivan, known as the father of modern architecture, was designed by Jane McCarthy '29BS, production manager of the University of Minnesota Press. The North Central Publishing Company of St. Paul, printers for the *Gopher Grad*, printed the volume.

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BERMUDA. If you thought Bermuda was a little **too** lush for your pocketbook, Holiday will change your mind! Here's how you can enjoy 6 fabulous days for less than \$90!

WHERE TO EAT IN BOSTON. "The home of the bean and the cod" has been pampering epicurean appetites for many years, as you'll discover on this tour of the city's most notable restaurants.

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GOPHER GRAD

Deaths

Mary Moulton Cheney '92BL, an early director of the Minneapolis School of Art, recently in Bend, Ore. Miss Cheney studied at the Boston Museum of Fine Arts and the Harvard summer school of art. She joined the staff of the Minneapolis school of art in 1897, serving as teacher of design and later as dean of women. She became director of the school from 1917 to 1926. From 1928 to 1942 she taught color and design at former Girls vocational high. She moved to Oregon in 1950.

Dr. John Paul Handy '94DDS, oldest practicing dentist in the state, in February of injuries received when fire destroyed his home in Long Prairie.

Mrs. C. W. Bray '95MD, a pioneer in northern Minnesota medical circles, recently in Minneapolis. Mrs. Bray and her husband, the late Dr. C. W. Bray, operated the Bray hospital in Biwabik, Minn., for over 40 years. Mrs. Bray had served at the Rochester State hospital, at Owatonna children's home and the state hospital at St. Peter prior to going to Biwabik in 1899. Survivors include a daughter and three sons.

Mary Peck '99, long active in the woman-suffrage movement, recently in Pennsylvania. Miss Peck, biographer of Carrie Chapman Catt, woman-suffrage leader, taught in the English department of the University from 1899 to 1909. She served as secretary in the New York headquarters of the National Woman's Suffrage association, and was chairman of the speakers bureau of the New York State woman's suffrage campaign in 1915 under the direction of Mrs. Catt. Her biography of Mrs. Catt was published in 1944. Miss Peck resided in New Rochelle, N.Y. from 1929 to 1953.

C. Daniel Risser '97-00, of St. Paul, recently of a heart attack. Mr. Risser retired 20 years ago after 50 years service with the now-defunct G. Sommers & Co. Survivors include a daughter, three brothers and a sister.

Dr. Victor J. LaRose '01MD, of Bismarck, N.D., recently of a heart ailment. A native of St. Paul, Dr. LaRose had practiced in Bismarck for many years. Survivors include his wife and two daughters.

William Halliett Miller '01LLB, of Spokane, Wash. recently. Mr. Miller had lived in Spokane 51 years, and was a life member of the Washington State Bar association. Survivors include his wife, three daughters and two sons.

OAA Winner Dies

Henry Alexander Scandrett '00LLB, winner of one of the first University Outstanding Achievement Awards, died last month in a Chicago hospital. He had lived in Evanston for 29 years.

Mr. Scandrett, who was captain of the University's football team and was lettered from 1895 to 1899, retired in 1947 from the presidency of the Chicago, Milwaukee, St. Paul and Pacific Railroad Co., a position he first occupied in 1928.

A member of the firm of Loomis, Blair and Scandrett, later known as Blair, Scandrett and Scandrett, he became assistant interstate commerce attorney of the Union Pacific-Southern Pacific in 1911, and interstate commerce attorney in 1912. Mr. Scandrett stayed with Union Pacific when its merger with Southern Pacific dissolved in 1913. In 1925 he was elected vice president in charge of valuation and commerce matters, land department and public relations.

In 1951 Mr. Scandrett was chairman of the Greater University Fund for the University. He was also a member of the University club of Evanston.

Survivors include his wife, a son and a sister.

Walter H. Hanson '04LLB, Idaho attorney, civic official and business man, recently in Wallace, Idaho. Mr. Hanson went to Idaho immediately after his graduation from the University. For 50 years he practiced law in Wallace. At the age of 24, he became active in Idaho politics and was later elected mayor of Wallace. His election as state senator when he was 29 made him the youngest one in the United States at that time. Survivors include his wife and two daughters.

Dr. Gilbert Moskau '05DDS, of Grand Forks, N.D., recently.

John E. Smithson '07EE, of Eugene, Ore., in January, 1956, at Eugene.

Ira C. Swanman '13BA, of Lynchburg, Va., in November, 1955.

Carl A. Swanson '14BPharm recently in St. Paul. Swanson, who served in the Medical Corps during World War I, was a salesman for Eli Lilly and Co., drug manufacturers. He had lived in St. Paul for 38 years. Survivors include his wife, a brother and four sisters.

Dr. Wesley V. Buck '18DDS, Minneapolis dentist, recently in Minneapolis. Dr. Buck was associated with the St. Paul clinic and was on the St. Joseph hospital staff for 11 years. He practiced in the Medical Arts building in Minneapolis from 1930 until his retirement in 1946. Survivors include his wife, a son and five grandchildren.

Frederick H. C. Dubbe '20MD, of New Ulm, Minn., in November, 1956.

Vernon Gossler '24BSEd, an inspector at Minneapolis Honeywell Regulator Co., recently in Minneapolis. He was a member of the Minnesota Geological society. Surviving are his wife, two sisters and two brothers.

Henry A. Pabst '23EM, district engineer for the Minnesota highway department at Bemidji, recently in Minneapolis. Mr. Pabst had been with the state highway department since 1926, moving up from inspector, to project engineer, to maintenance engineer at Morris where he was located before moving to the Bemidji post. He worked as a mining engineer at Hibbing and in Chile, S.A. before joining the highway department. Survivors include his wife, a son and a daughter.

Thomas Canfield, Jr. '24BSAg, associate professor of animal husbandry at the University, recently in Minneapolis. Canfield had been a University faculty member since 1936. As advisor to all undergraduates in poultry husbandry, Canfield was usually the first faculty member to make contact with new students. He also handled a major share of the undergraduate teaching in poultry.

Ag Info. Service Founder Dies

William P. Kirkwood, 90, one of the nation's first farm reporters and educators in agricultural journalism, died April 9 in St. Paul.

Forty-three years ago, Kirkwood founded what is now the Information Service on the St. Paul campus of the University of Minnesota and taught the first courses in practical journalism ever offered by the University. He served with the University for 22 years.

Shortly after the turn of the century, Kirkwood was known for his front page "Country Life" column in the Minneapolis Journal. That was one of the first interpretative farm columns to be printed regularly in a U.S. metropolitan newspaper.

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