

THE UNIVERSITY OF MINNESOTA

ALUMNI NEWS

DECEMBER 1964



MERRY CHRISTMAS!



UNIVERSITY OF MINNESOTA ALUMNI NEWS

(Our 64th Year)

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THE UNIVERSITY OF MINNESOTA

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DEVOTED TO THE INSTRUCTION OF YOUTH
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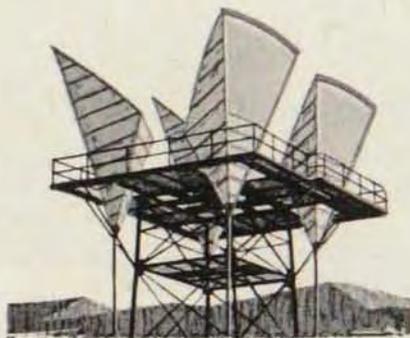
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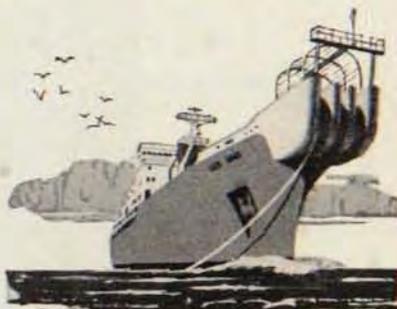
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BACK TALK

Sir:

The profile of Mr. Judd Ringer in the September Alumni News is a deserved tribute to an outstanding citizen, businessman and gentleman.

But, to write a profile about Judd Ringer and neglect to mention his near All-American end play at the University of Minnesota is just downright bad reporting.

Your reporter would qualify for our news staff very nicely. At the Times-News we seem to make a habit of fact omission.

Jack Mallowney
Publisher, Times-News
Twin Falls, Idaho

Editor's note: Along with his other virtues, MAA president Judd Ringer is also modest. It was at his specific request that mention of his athletic accomplishments was not included in the article.

Sir:

As an alumnus of the University of Minnesota, I was deeply saddened when my son was rejected for admission. I realize that as a non-resident he must be above average scholastically, and obviously he did not meet this requirement — being an average student.

In the September issue of the Alumni News there appeared an article stating that the University was successful in recruiting 91% of the student-athletes it sought to obtain. I am curious as to how many non-resident athletes were academically qualified as compared to the Minnesota residents.

I received a wonderful education at the "U" for which I am very thankful. It is only natural that I should want my son to attend the same institution. However, this did not come to pass.

I will continue to support the Alumni Association with the hope

that some other youngster may benefit therefrom.

Dr. Philip Gold '39BA, '40DDS
Bronx, New York

Sir:

I seem to have stirred up some feelings by my observations to the effect that I think more benefit would accrue to the colored people by encouraging them to give their

children more training for life than the parents had. My observations are based on personal experience. We are engaged in the citrus fruit shipping business and have had many colored employees and many friends among them and the teachers in their schools. We look on them as personal friends and to us

(continued on page 7)

The men behind the man...

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Memo

From
ED HAISLET
Executive Director

TO: MAA Members
SUBJECT: The Alumni Fund and an Appeal for the
Freshman Scholarship Fund

Once each year we ask our alumni to give to the Minnesota Alumni Freshman Scholarship Program. Started thirteen years ago, the program provides the way and means for high school graduates of college ability who need financial help to go on to college. Over the years hundreds of students have been helped. In school this year, because of the generosity of our alumni, are 139 students on freshman scholarships — the largest number yet — but only a fraction of the scholarships we should be offering.

Because the Alumni Fund is only in its second year, there still is some confusion about the number of appeals to alumni, what and when alumni should give.

Most alumni receive two requests a year —

An appeal to give to a project of the college from which they received their degree.

An appeal to give to the Freshman Scholarship Fund — the mailing which you have just received.

Some of our alumni will receive additional requests — for instance, to give to their class fund projects. Beginning with the 35th class anniversary, each class member will be asked to give ten dollars a year until the time of his or her 50th class reunion. This means that in the fifteen year period each member is asked to give \$150.00 to his class. While the yearly gift is not large, multiplied by the number in the class and over a fifteen year period it means a substantial amount to be given to the University at the time of the 50th reunion. For classes starting on the plan after their 35th reunion, the class gift will simply be smaller.

If you are an "M" man, you are also asked to contribute to the Henry L. Williams Scholarship Fund.

If you are an alumna living in the metropolitan area, you will receive two additional requests to contribute to the Minnesota Alumnae Club Scholarship and Loan Fund, and to the Women's Continuing Education Scholarship Fund.

Most alumni receive two appeals, some three, a few four.

It is our hope that our graduates will support both their own college fund as well as the Freshman Scholarship Program which cross-cuts college lines. Our suggestion is that you split your gift, give part to each. A gift to the Williams Fund, your class fund, the Minnesota Alumnae Club Scholarship or Loan Program, and the Women's Continuing Education Scholarship Fund should be considered as additional gifts.

How much to give? When the Alumni Fund was started it was decided that a minimum standard would be one dollar for each year out of the University. This makes it easy on all of us.

Because it is the end of the calendar year, you can use it as a tax advantage. Remember, too, many companies and corporations have a matching gift program. They match what you give. So check to see if this is true of your company. If so, enclose with your gift the official "gift matching form". In this way, you double your gift.

Right now we need your support for the Freshman Scholarship Program. It is the season to give — be generous.

Most cordially,

Ed Havelot



BACK TALK

(continued from page 5)

they are individuals, each one with a personal problem. Much of my information comes from colored friends of mine and teachers.

After reading Dr. Lyon's letter, I can see that I will have to ask him to visit me at a time when I when I am in Minneapolis, I will call and get acquainted and it might be possible that I could get him to visit me at a time when I could show him around and he will see that all the things he mentions in his letter are not applicable to Orange County Florida. He should be more careful in his statements that colored teachers are inferior. Our school board chairman is a University of Minnesota alumnus, holds a Ph.D., and was elected by the Republicans to see that all schools are treated exactly alike and have the same curriculum and requirements for teachers. There are many excellent colored teachers, some superior and I assume some inferior, just as there is among the whites. We had a colored school principal who was an alumnus of the University of Minnesota and if anyone maintains that he went up there to receive inferior training, our whole University of Minnesota Alumni Club of Central Florida will fight him to the bitter end.

In Florida our colored people register and vote — in fact they vote as a solid bloc, just as they are told. We would like it better if they be-

came acquainted with the issues and voted for the general welfare. There are so many stories about votes sold for a dollar or a half pint of whiskey that we could not tell them all here — we just wish it were not so.

It is a good thing that our magazine prints these letters as I think many of our people are misinformed about many things. Re-

member our Minnesota alumni down here are essentially the same as the alumni in Minnesota except that we have added practical experience, particularly in this matter of our colored friends as we have so many more down here and we have no axe to grind and no interest except as friends.

Herbert J. Benson
Orlando, Florida

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The Academic STAFF

*new study provides a
profile of the faculty*

The heart of any educational institution is its faculty. Nowhere is this truer than in a university. The purposes of the school, the quality of its services, the direction of its growth, the accomplishments of its alumni, and the degree of respect in which it is held — all of these things ultimately are focused in the work and activities of one very strange and wonderful kind of individual — the teacher.

The university truly *is* its faculty, and its faculty are the reality behind the façade of buildings, fun and games, and all of the other bric-a-brac that come to mind when the man on the streets hears the word *university*. Take all of these things away, but leave the faculty — you will still have a university. Take away the faculty, and you will see the other things for what they are — mere accessories to the work of teaching, and, in turn, being taught.

Because the faculty is so primary to the existence of a university, and has so much influence over the success of its operations and its impression on the public and the private mind, questions quite naturally arise: "Who are these people," the alumnus or parent often wonders, "who teach my sons and daughters?" And there is really no adequate answer to give them, short of describing and dissecting each faculty member individually. It is only when a member of an institution's faculty has done something either wildly exhibitionistic or controversial that the subject has been examined at all, and then usually to the detriment of the group as a whole.

It was to solve this problem, and others arising in the staffing operation of the University of Minnesota, that the Bureau of Institutional Research in the spring of 1962 undertook a detailed study of the characteristics and activities of the University's full-time academic staff.

Similar studies had been made in the past, for the most part at approximate 10-year intervals during the past four decades, but never as completely or as systematically as the one the Bureau planned.

Led by John E. Stecklein, director of the Bureau, and Cloyce E. Smith, research fellow, the study began with the preparation of special forms, distributed to

the faculty through each of the departments within the University. Upon the return of the forms, the information was transferred to punch cards and tabulated.

The result is the most detailed description of the personal, academic and professional characteristics and activities of the University's academic staff ever available.

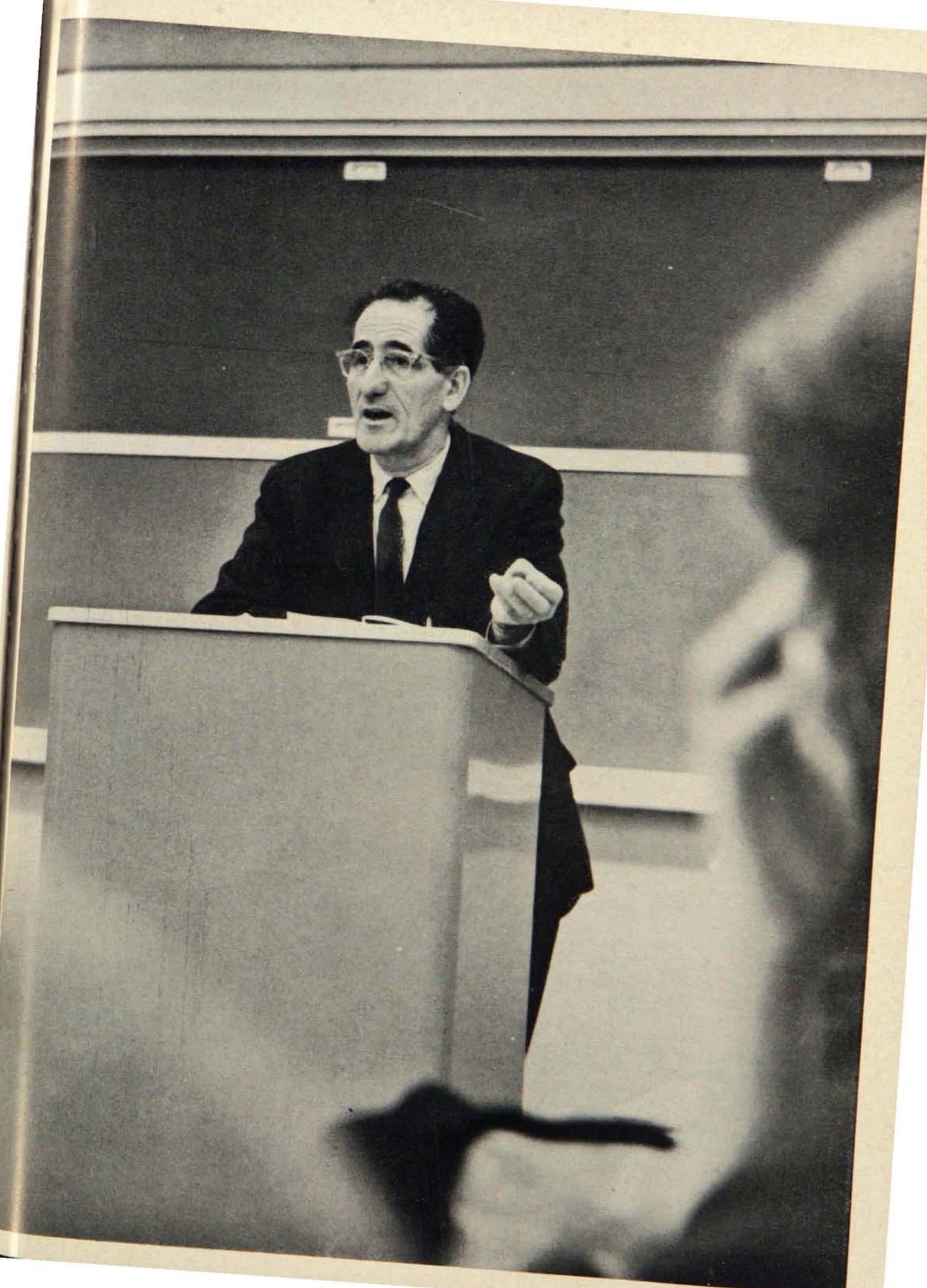
In November of 1962, when Stecklein and Smith were ready to begin, there were 2116 full-time academic staff members on the payroll of the University of Minnesota. An analysis of the payroll list revealed that 298 of these staff members were employed to fill a full-time position temporarily or to fill a temporary full-time position. An additional 312 faculty members were employed to fill full-time administrative positions, to fill special positions created as a result of research grants, or to fill positions in the Library, the Center for Continuation Study, the Mayo Foundation, University Hospitals, Agricultural Extension, University Services, or the General Extension Division.

Since the purpose of their study was to obtain detailed information on the characteristics of the *instructional* faculty of the institution, as was done in the earlier 10-year studies, Stecklein and Smith decided to exclude the temporary staff and the 312 who held non-instructional jobs. As a result of their exclusion, a total of 1506 full-time academic staff members formed the basic group to be studied.

The results of the study, as detailed below, paint a profile of the average faculty member at Minnesota — who and what he is, where he came from, his professional training and experience, his sex and age, honors he has received, and his involvement in University and non-University activities.

SIZE OF COLLEGE STAFFS

The distribution of the full-time academic staff by rank among the 13 collegiate units within the University's framework is shown in Table 1. The largest proportion of the total academic staff — 20.7 per cent — taught in the College of Liberal Arts. The next largest groups of faculty were in the College of Medical Sciences, with 17.2 per cent of the total and the Institute



of Technology, with 14 per cent. Five of the 13 colleges, or 40 per cent of them, (the College of Liberal Arts, the Institute of Technology, the Institute of Agriculture, the College of Medical Sciences and the College of Education) employed 74.2 per cent, or nearly three-fourths, of the total faculty employed by the University during that year.

RANK DISTRIBUTION

According to the results of the study, one out of every three members of the academic staff in the year the study was made was a full professor, roughly 34.8 per cent. Slightly less than half of them were evenly distributed between the ranks of associate and assistant professor—23.2 and 23.4 per cent, respectively—and the remainder—18.6 per cent—were research fellows and instructors.

The college with the highest proportion of full professors was the School of Law, with 70.6 per cent of its teaching staff holding that academic rank. Close behind was the School of Dentistry, with 6.9 per cent. A larger proportion of the Institute of Technology staff held the rank of associate professor (32.7 per cent) than any other of the 13 colleges, and there was by far a larger proportion of instructors among the staffs of the General College and the Morris Campus than in any of the other colleges.

MARITAL STATUS

Nearly all of the male members of the academic staff were married—a total of 90.3 per cent—but the majority of the female members were single (70.9 per cent). One fifth (20.6 per cent) of the women were married and 8.5 per cent were widowed, divorced, or separated.

For 1962-63, there were 1307 male faculty members, as opposed to 199 female members, a ratio of about eight to one. However, women comprised only about five per cent of the faculty members at the full professor level, and only about 10 per cent of the associate professors. More than half of the total female faculty were employed in just two colleges: 54 of them

worked in the College of Medical Sciences, and 46 in the College of Music Education.

AGE

The median ages of full-time faculty members in each of the rank groups in the several colleges were also determined. Taking all full-time academic staff members of all 13 colleges as a total, the median age was found to be 42.5 years. There were wide variances within individual colleges, however. For example, the median age of those teaching at the Morris Campus was found to be 33.5, while in the College of Pharmacy it was discovered to be 47. In only four of the 13 colleges did the median age of all full-time staff members combined fall below 40 years, however. Among the full professors, the highest ranking group, the median ages ranged from 43.5 for the School of Law to 54.5 for the College of Pharmacy. At the level of associate professor, the colleges with the highest median age were the School of Dentistry—51 years—and the General College—50.5 years. The median ages for each of the ranks were as follows:

Full professor	50.0
Associate professor	42.5
Assistant professor	37.5
Instructor	33.5

The single largest age category was the 35-39 age group, which included 284 faculty members, 18.9 per cent of the total. Slightly more than half—51 per cent—of the total faculty were between the ages of 30 and 44. Only 5.9 per cent were under 30 years of age, and 3.1 per cent were above the voluntary retirement age of 65.

Fully one-fourth of the assistant professors were older than 44, but 59 per cent of the associate professors were less than 45 years old.

GEOGRAPHICAL SOURCES

More than a quarter (27.3 per cent) of the full-time academic staff in the period studied were born in Minnesota, with an additional 17.1 per cent having been born in the surrounding Upper Midwest states of South Dakota, North Dakota, Nebraska, Iowa and Wisconsin. As Table 2 indicates, only about 14

per cent were born in the North Atlantic states and only 12 per cent had their origins in the East Central states, the two areas which have traditionally supplied academic people to the Midwest.

One faculty member out of eight was born outside the United States, with the largest proportion of them—6.9 per cent—claiming a European country as their place of birth. Although birthplace distributions were quite uniform among the top three ranks—all similar to the total distribution—a much higher proportion of the instructor group was Minnesota born—42.1 per cent—or born in the five surrounding states—21.1 per cent. It is evident that the younger faculty members at the University of Minnesota are more likely to be natives of the immediate area than the higher ranking groups, a fact which illustrates vividly the increasing ease with which college and university professors move between institutions.

HONORS AND AWARDS

One measure of the competence and achievement of a university's faculty is the number and kind of honors and awards its members received either as undergraduate students, as graduates, or in postgraduate work.

Undergraduate Honors. More than two-thirds of Minnesota's academic staff received some kind of honor as undergraduate students. About three out of eight of the staff—37 per cent—graduated from college with honors, (Summa, Magna, or Cum Laude) and 45 per cent—almost half—were initiated into an honor society, such as Phi Beta Kappa, Sigma Xi, Psi Chi, Tau Kappa Epsilon, etc. The proportions of faculty so honored were remarkably consistent for the members of each of the four ranks, although the proportion of full professors who had been elected to an honor society—51.4 per cent—was somewhat greater than that of the lower-ranking groups.

Graduate Honors or Appointments. Four-fifths of the staff (77.5 per cent) received some type of graduate honor, award, or appointment. About half of this group had

College	Professor		Associate Professor		Assistant Professor		Instructor		All Ranks Number	Per Cent of Total for College
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent		
Science, Literature, and the Arts	131	42.0	83	26.6	73	23.4	25	8.0	312	20.7
Institute of Technology	84	39.8	69	32.7	47	22.3	11	5.2	211	14.0
Institute of Agriculture	85	45.9	42	22.7	36	19.5	22	11.9	185	12.3
College of Medical Sciences	73	28.2	64	24.7	72	27.8	50	19.3	259	17.2
College of Veterinary Medicine	17	40.5	3	7.1	8	19.1	14	33.3	42	2.8
School of Dentistry	13	61.9	2	9.5	5	23.8	1	4.8	21	1.4
School of Law	12	70.6	5	29.4	0	0.0	0	0.0	17	1.1
College of Pharmacy	7	53.8	3	23.1	3	23.1	0	0.0	13	0.9
College of Education	36	23.8	23	15.2	33	21.9	59	39.1	151	10.0
School of Business Administration	23	47.9	12	25.0	12	25.0	1	2.1	48	3.2
General College	7	11.3	8	12.9	18	29.0	29	46.8	62	4.1
Morris Campus	1	2.3	4	9.1	13	29.5	26	59.1	44	2.9
Duluth Campus	36	25.5	31	22.0	32	22.7	42	29.8	141	9.4
Total	525	34.8	349	23.2	352	23.4	280	18.6	1,506	100.0

Table 1. Distribution of the 1962-63 full-time academic staff by rank and college.

teaching assistantships while studying as graduate students, and 24.7 per cent of the total staff had held research assistantships.

Twenty-five per cent of the academic staff had been awarded fellowships or scholarships by a university, 14.1 per cent had received fellowships or scholarships from foundations or business firms, and 12.2 per cent held fellowships or scholarships granted by governmental agencies. Two-fifths of the staff had been members of an honor society as graduate students.

Honors and Awards Received After Highest Earned Degree Was Obtained. A high percentage of the University of Minnesota's academic staff—35.5 per cent—had received some type of honor or award after their earned degree was obtained. Three hundred and twenty-two post doctoral fellowships had been won by the staff by 1962-63, 43 citations had been given by state, federal or foreign governments, and 17 faculty had received honorary degrees. In addition, 344 awards and honors had been bestowed for "other" ac-

tivities, principally for creative work in the arts.

DEGREES

One of the most commonly used measures of the quality of a school's faculty is the number of faculty members holding earned doctorate (PhD) degrees.

Overall, three-fifths of the University's academic staff held earned doctorates in November of 1962, 899 out of 1,506. By rank, the figures were 81.7 per cent for full professors, 73.7 per cent for the associate professors, 58.8 per cent for the assistant professors, and 2.1 per cent for the instructors. An additional 10.1 per cent of the staff held professional degrees (MD, LLD, DVM, DDS, JD, EdD).

Two out of five (38.8 per cent) of the total number of faculty members holding a doctorate had earned it at the University of Minnesota, but their distribution among the 13 colleges was uneven.

The College of Liberal Arts and the School of Business Administration had the lowest proportions of faculty holding a doctor's degree from Minnesota—24.6 and 27.0 per cent, respectively. The School of Dentistry and the College of Veterinary Medicine had the highest—

Place of Birth	All Ranks	
	Number	Per Cent
Minnesota	411	27.3
Upper Midwest States	258	17.1
East Central States	187	12.4
North Atlantic States	217	14.4
South Atlantic States	42	2.8
South Central States	91	6.1
Western States	54	3.6
Pacific States	56	3.7
Latin America	9	0.6
Europe	104	6.9
Other Countries	32	2.1
Canada	43	2.9
No Information	2	0.1
Total	1,506	100.0

Table 2. Birthplaces of 1962-63 full-time academic staff at the University of Minnesota.

75.0 per cent and 78.3 per cent, respectively.

For the upper three ranks the proportion of doctorate-holding faculty with degrees from the University of Minnesota were about the same, ranging from 37.2 per cent for assistant professors to 39.2 per cent for full professors and 40.1 per cent for associate professors. Only six instructors within the group studied held doctor's degrees, and only one of these had earned it at Minnesota.

The distribution of staff holding Ph.D. degrees among the colleges was also uneven, ranging from 11.8 and 19.0 per cent in the Schools of Law and Dentistry, for example, to 100 per cent in the College of Pharmacy. Three-fourths of the academic staffs in the School of Business Administration, the College of Liberal Arts, the Institute of Technology, and the Institute of Agriculture held Ph.D. degrees (77.1, 76.9, 75.8, and 72.4 per cent, respectively).

EXPERIENCE

Another important measure of staff competence is its range of experience, both academic and non-academic. Since the relative importance of these two kinds of professional experience varies from field to field, the Bureau of Institutional Research's study treated them separately.

The study defined academic experience as including any activity, full-time or part-time, of an administrative, supervisory, instructional or research nature, in schools, colleges, or universities other than the University of Minnesota. Summer

session appointments were not included.

Within this definition, 25.2 per cent of the total faculty indicated that they had had no previous academic experience, suggesting that their position at Minnesota was their first academic position. An additional 20 per cent had one or two years of prior academic experience. The remaining individuals — more than half of the total group (52.5 per cent) — had three or more years of academic experience at schools other than Minnesota. As might be expected, staff members at the higher ranks had greater amounts of experience in other institutions. Even among the instructors, two-thirds had had one or more years of experience somewhere else before joining Minnesota's faculty.

Non-academic experience was defined to include business or professional experience in administrative, supervisory, teaching, clerical, or research positions in business or government operations other than military service. In this category almost half (48.0 per cent) of the academic staff had had no non-academic experience prior to their employment by the University of Minnesota. About 30 per cent of them had from one to four years of such experience, and 10.1 per cent had eight or more years.

LENGTH OF SERVICE

Information about the faculty's longevity of service at the University was also sought as a part of Stecklein and Smith's study.

The study indicated that the median number of years that full pro-

fessors had been employed by the University was 14.5. For the other three ranks, the medians were 8.5, 4.5 and 2.5 years, from associate professors to instructors, respectively. Professors in the Institute of Agriculture, College of Pharmacy, and General College had the highest number of years on the University's staff — 18, 17 and 17 years, respectively.

Among the associate professors, those employed in the School of Dentistry had the longest record of service at the University — 21.5 years. The greatest median number of years at this institution for an assistant professor group was found in the General College (10 years) and for instructors, in the College of Veterinary Medicine (4.5 years).

Of the 1506 full-time staff members questioned for the study, more than a third (36.9 per cent) had been employed by the University of Minnesota for five years or less, and about four per cent had been employed by it for more than 30 years. Four out of five of the instructors (78.8 per cent), in contrast to a tenth (9.7 per cent) of the professors, a fourth (26.4 per cent) of the associate professors, and more than half (54.3 per cent) of the assistant professors, had been employed less than five years.

For the University as a whole, professors who had formerly been instructors at the University had spent a median 4.3 years at that rank before being promoted to assistant professor. Professors who had formerly been assistant professors at the University spent 3.9

(continued on page 28)

Highest Earned Degree	Rank									
	Professor		Associate Professor		Assistant Professor		Instructor		All Ranks	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Doctorate	429	81.7	257	73.7	207	58.8	6	2.1	899	59.7
Masters	35	6.7	50	14.3	104	29.5	172	61.5	361	24.0
Professional Degrees ^a	57	10.8	35	10.0	26	7.4	35	12.5	153	10.1
Bachelors	2	0.4	5	1.4	13	3.7	67	23.9	87	5.8
No Degree	2	0.4	2	0.6	2	0.6	0	0.0	6	0.4
Total	525	100.0	349	100.0	352	100.0	280	100.0	1,506	100.0

^a M.D., LL.D., D.V.M., D.D.S., J.D., Ed.D.

Table 3. Highest earned degrees held by the 1962-63 full-time academic staff, by rank.

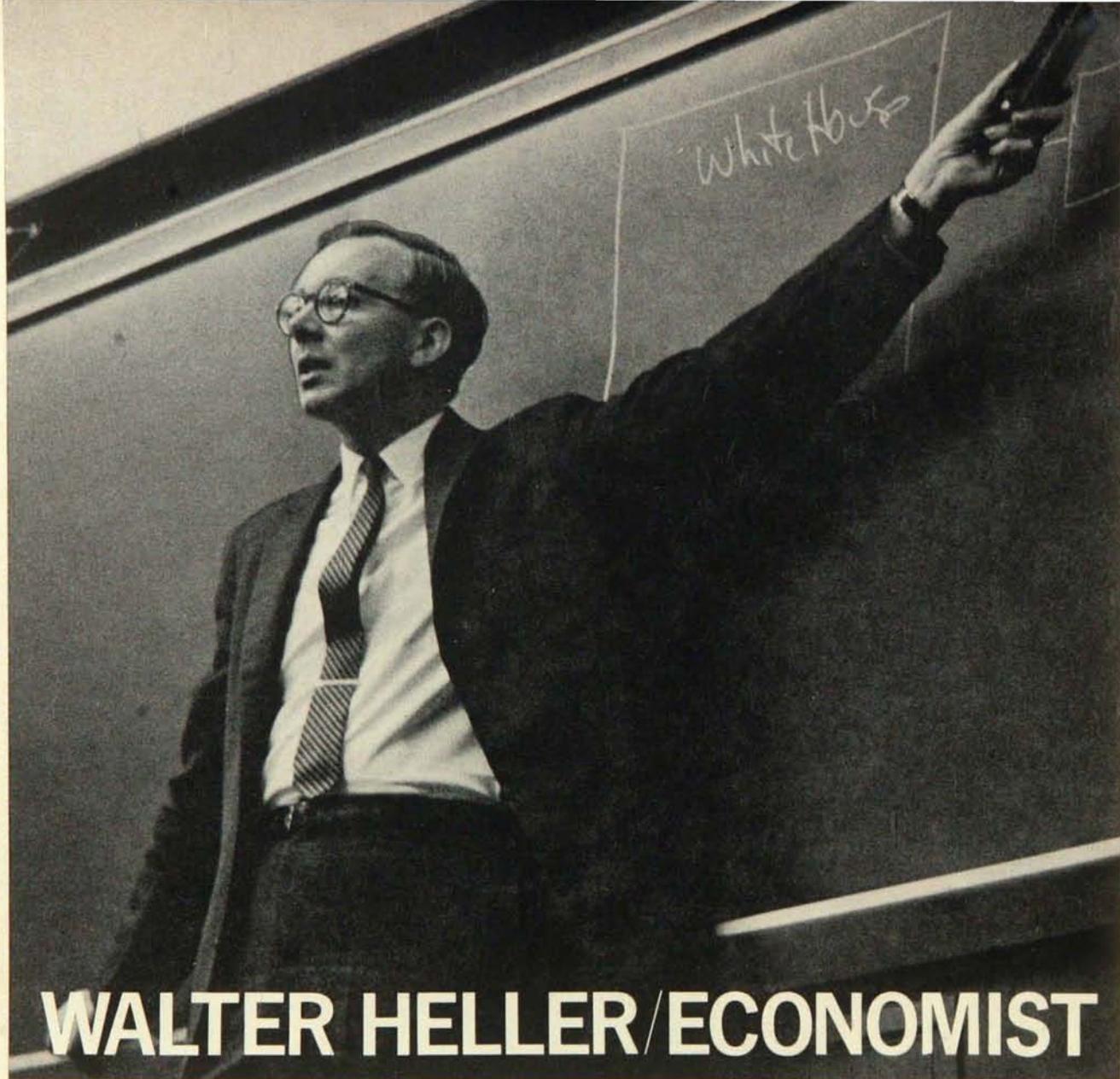
*this is a
university*



FOOTBALL

second in a series

The excitement of victory is a major part of the thrill of football, for the player as well as the spectator. And there is no victory more pleasant for Minnesota football players, from second-string bench-warmers right up to star quarterback, than one over their arch-rivals in the Big Ten, the Iowa Hawkeyes. Like every conqueror since the beginning of time, the sweetest part of the conquest is carrying off the spoils — in this case, a bronze pig of dubious pedigree with the curious name of “Floyd of Rosedale.” Each year this little metallic porker quietly sits on his pedestal somewhere in the land of the tall corn and awaits his “liberation” at the hands of the Gophers. Unfortunately, in the last ten years “Floyd” has spent more time inside his Iowa jail than out of it, so his release this year on the heels of a 14–13 Minnesota victory was an occasion of some magnitude. Riding on the shoulders of his liberators, “Floyd” exited the field to the delighted roars of the 60,000-odd spectators — further proof that, for the middle-aged university graduate, nothing ever quite replaces the thrill of sitting in the cold and yelling his lungs out for Old Siwash.



WALTER HELLER/ECONOMIST

By Robert Fjerstad

He took the economic theory of the classroom to the rough and tumble political arena of Washington. During the four years he was there, he demonstrated with new clarity the compatibility of the two. Now Walter Wolfgang Heller, 49, chairman of the council of economic advisors under two presidents has returned to the campus of the University of Minnesota to resume his teaching career.

While in Washington, Heller dramatically demonstrated that our lives can be profoundly affected by economists.

"The recently approved war on poverty bill and the 1964 tax cut

gave me the most satisfaction of the many programs the council of economic advisors initiated," Heller said.

"The poverty program was the last subject I discussed with President Kennedy on November 19 and the first subject I discussed with President Johnson on November 23," Heller said.

One national magazine referred to him as "Mr. Tax Cut." It was Heller who first suggested and then sold the idea of a tax reduction to President Kennedy as the most effective means of boosting the economy. When President Johnson took office, he followed Heller's ad-

vice and put the tax reduction at the top of his congressional agenda.

Heller enthusiastically calls the recent tax cut "a bold new departure in national policy because it was the first time in our history that such action was taken in an effort to spur the economy when the probable effect would be to increase the national debt."

An opponent of the tax bill said, "Heller is an unrealistic spender. There is no real life evidence that the tax cut tactic will work. I think it is 'a bold new approach' to inflation."

While Heller is not afraid of fiscal deficits on the national level,

his wife, "Johnny" (from her maiden name — Johnson) laughingly said, "He is vigorously opposed to deficit spending at home. However, outside of his typical male aversion to charge accounts, he leaves the family economics in my hands. In fact, I think he is happy to after spending his entire working day thinking about national economics."

Heller takes a wide-screen approach to economic problems. He seldom looks at the individual — including himself. When he received his first paycheck after the recent tax bill was placed into effect, he looked at it and said to his wife in a surprised tone, "Hey, we get a tax cut, too!"

Even though he had served as economic advisor from 1955 to 1960 to Democratic Governor Orville Freeman of Minnesota (now Secretary of Agriculture) before accepting his present post, Heller does not dabble in politics. On this matter he said, "I'm interested in good government, certainly, but not in partisan politics." No dyed-in-the-wool Democrat, he once admitted voting for Minnesota's Republican Governor (now federal judge) Luther Youngdahl. He is content to be a teacher and ivory tower economist.

To almost everyone's surprise he proved to be an ivory tower economist with long legs that enabled him to keep both feet planted on the ground in Washington affairs. No other person whispered in the president's ear as influentially on such questions as taxes, unemployment, automation and deficit finance. A man with ideas — some of them highly controversial, he met squarely the realities of dealing with congress.

Despite his realism, Heller's tenure in Washington was not without its periods of frustration. It took three long years of work before the tax cut was passed. Oftentimes he felt that opposition was based on unfounded notions and traditional ideas rather than on thorough analysis. At such times he took setbacks hard. "Walter looked like a 300 hitter who had struck out with the bases loaded in the world series," said a friend after Heller

learned of one such congressional rejection. However, his characteristic persistence soon had him regrouping his forces and trying another method.

Heller always was an intellectual whiz. Graduating from a Milwaukee, Wisconsin, high school at 16, he received his bachelors degree and Phi Beta Kappa key at 20 from Ohio's Oberlin College. He next plunged into his graduate work at the University of Wisconsin where he received his doctors degree in economics in 1941. This is one period in his life when it was not all work for Heller. He courted and married the daughter of a University of Wisconsin professor. His wife, Emily (her given name), also received her doctor's degree in 1941 — in physiology. "There is a friendly family argument about who received his degree seven seconds before whom," she said.

Disqualified from wartime military service because of poor eyesight, Heller took the Treasury Department job.

"When the University of Minnesota offered me a position of associate professor in 1946, I grabbed it. This was what I was cut out for — teaching and the middle west," Heller said.

He was made full professor in 1950 and Chairman of the University's Economics Department in 1957.

During his tenure at Minnesota, he managed to dash back to the government to perform acts of public service as an economic advisor. These included assignments to General Lucius D. Clay's U.S. Military Government in Germany, the United Nations, the Treasury Department, the Minnesota Department of Taxation and King Hussein of Jordan.

The fourteen-hour day, six-day week has become common-place to him. A former associate said, "To see Heller work is like watching perpetual motion — almost nothing stops him. When you are working with Walter on a project, you know that you are working!"

Certain congressmen of a con-

servative hue regarded Heller as too much of a liberal for their tastes. However, so many of his theories depart from the conventional liberal ideals that this label does not fit. Heller prefers to call himself an "economic pragmatist," meaning one who takes a practical approach in seeking workable solutions.

He was no stranger to Washington. He served there with the Treasury Department from 1942 to 1946 helping to install the withholding method in the U.S. federal tax system.

In Washington when his crew stayed late to finish a project, he declined joining them for a relaxing supper at an elegant restaurant. Instead he caught a quick bite at a nearby hamburger shop so he could rush back to the job. People who recognized him were shocked to see a high-level government official eating a "hamburger-with" at a lunch counter.

In 1955, physically run down by the combination job of professor and advisor to the Governor, Heller contracted rheumatic fever. Ordered to an extended rest by his doctor, he insisted on pulling his dictating machine along side his bed and continuing to work.

He relaxes as vigorously as he works. If his favorite recreation is not chopping wood, then it is sawing wood! His home — a four-level redwood contemporary house in St. Paul — is located adjacent to the University of Minnesota golf course. The trimming and cutting of trees by the course's caretakers allows him to have ample material to pursue his woodman's hobby, and keep a fire burning almost constantly in the fireplace (as Mrs. Heller says, "Whether it's needed or not").

Due to frequent absences and long working hours, he is not able to spend as much time with his family as he would like. Therefore, when he is home he works hard at being a conscientious parent. He and his two sons often adventure into the roadless wilderness of Northern Minnesota on week-long summer canoe trips. "We never hire a guide on these camping trips and

are virtually without communications. When we walked out of the woods in 1961 we were amazed to find that the United States had a new Supreme Court Justice — Arthur Goldberg — and a new Secretary of Labor — Willard Wirtz. For the first time in my life I was on the inside of things. Then I take a vacation and this big news breaks!" Heller said.

He avoids elevators whenever he can and sprints effortlessly up stairways — two steps at a time. This seems odd for a man who dresses like a conservative banker, and whose almost round, horn-rimmed glasses add to his scholarly appearance.

Neat in dress, his office house-keeping is just the opposite. According to a close associate, "There is an incredible mass of material spread around his working area requiring his secretary to have a photographic memory in order to find things."

Heller has a natural ease about him despite his lanky 6' 4" frame. He is equally at home in the classroom or testifying before a congressional committee. A colleague said, "He is even-tempered and has a keen wit. He is not a punster or a gagman but has a certain sparkle that reveals a sophisticated sense of humor."

Mrs. Heller says that her home-making budget gives her almost as many problems as did Heller's national budget. "You have to keep a sharp eye on finances when operating on either government or college salaries. Food is a big expense item for us. The amount of groceries I buy to feed my family is phenomenal!" she said. This is easily understood when one realizes that the family includes three children in their prime eating years — Walter (Terry) 22, Eric (Ricky) 18, and Karen, 16.

A practical woman, Mrs. Heller has not worked at her chosen profession of endocrinology (study of glands) since the birth of her first child. "My chosen profession for these many years has been wife and mother because my family needs me at home," she said.

Of all her homemaking chores, Mrs. Heller rates cooking as the least desirable. "Every once in a while I think of how nice it would be if we only had to eat every other day," she said.

When Heller was offered the post as Chairman of the Council of Economic Advisors, Mrs. Heller was thrilled for her husband, but a little sad for herself because, she said, "I like the life of a professor's wife."

Heller has the ability of making an outstanding first impression on almost everyone he meets, to go along with his reputation as a brilliant economist. On the basis of one ten-minute talk in October, 1960, with candidate John F. Kennedy; a memorandum he wrote; and the recommendations of two prominent Kennedy advisors, the President-elect appointed Heller to his advisory position on December 23, 1960. It came as a complete surprise to Heller because he had not spoken to President Kennedy prior to or after their October meeting.

In reply to a question as to whether or not the tax cut would be effective and help our economy, Heller said, "I would not have recommended it if I had any serious doubts. Evidence indicates that it has boosted the economy with no signs of inflation. The tax cut strategy was no spur of the moment thing with me. As a professor, I have been advocating the use of this tool, when necessary, for years. Until the Kennedy administration came into office, my theories in this area have fallen on deaf ears.

"I would like to have left the job of Chairman of the Council of Economic Advisors sooner than I did and returned to the less frantic life of a college professor. However, at President Johnson's urging I stayed in Washington until after the November elections. I expect to have some readjustment problems in slowing down my pace. They will probably have to put me in a decompression chamber to keep me from getting the bends," Heller said.

The decompression chamber is in

the form of a one-year Ford Foundation Faculty Research Grant for the purpose of reacclimating himself to the academic life. The introductory economics course at the University has been restructured effective winter quarter to allow Professor Heller to lecture to these students one day a week. His purpose: To bring the rough and tumble realities of Washington to the classroom. ●

BOOKS

Norwegian-American Histories

Plans are underway for publication of the first book to result from a joint publishing arrangement between the University of Minnesota Press and the Norwegian-American Historical Association. Under the new plan, as outlined by John Ervin, Jr., director of the Press, and Kenneth O. Bjork, editor of the Association, books will be published from time to time by the Press for the Association. At the same time, the Association, which had a long history of publishing under its own imprint, will continue to publish some of its volumes and other materials independently.

The initial book to appear under the joint imprint will be *Klondike Sage* by Carl L. Lokke, to be published next year. It is an account of the experiences of a group of sixteen Minnesotans, mostly of Scandinavian birth, who prospected for gold in the Canadian Klondike region in the late 1890's. Unlike most of the gold seekers who joined the Klondike rush, these men incorporated themselves as a business firm, the Monitor Gold Mining and Trading Company, and carefully followed business principles.

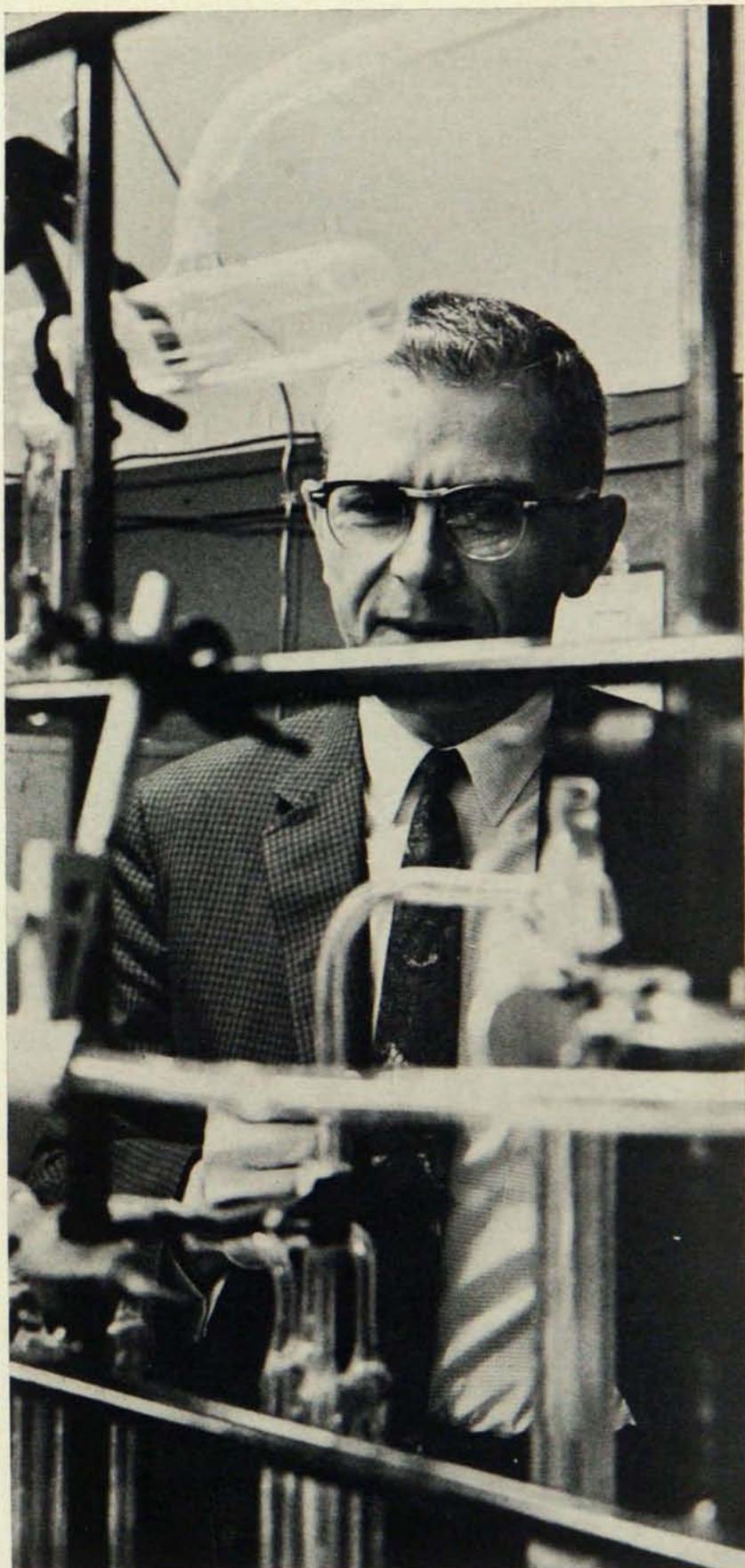
The author, the late Dr. Lokke, was chief of the Foreign Affairs Branch of the National Archives in Washington, D.C.

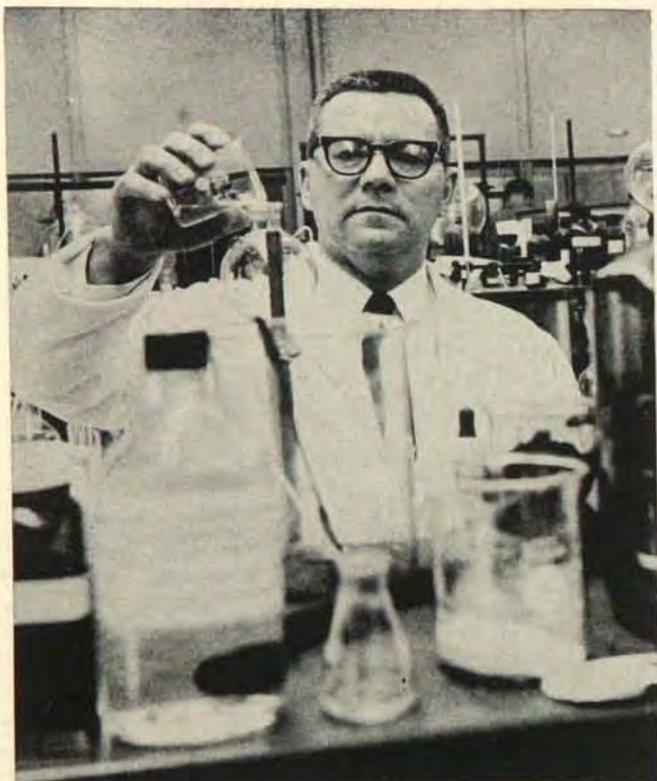
New Katkov Book

Norman Katkov, Minnesota native who graduated from the University of Minnesota in 1940 with a bachelor of arts degree has completed a novel, *Eric Mattson*, recently published by Doubleday & Company.

FACULTY CLOSE-UP

STUART W. FENTON Chairman of the Department of Chemistry and professor of organic chemistry, Fenton has spent his entire teaching career at the University of Minnesota. A native of London, Ontario, Canada, he received a bachelor of science degree from Queen's University in 1945, a master of science from the same school in 1946, and a Ph.D. degree in chemistry from Massachusetts Institute of Technology in 1950. He joined Minnesota's faculty in the same year as assistant professor of organic chemistry, later becoming a full professor, and in 1961, chairman of the department. His personal research has been principally in the areas of organic peroxides, polyolefins, and aromatic compounds generally. In 1956 he received an unrestricted Alfred P. Sloan Fellowship, "apparently because I'm a good guy", he says. A member of the American, London, and Swiss Chemical societies, in his spare time he races a Class D sailboat at the Minnetonka Yacht Club, and is an enthusiastic fisherman—"not both at the same time" he hastens to explain.





TAITO O. SOINE Professor of pharmaceutical chemistry in the University of Minnesota's College of Pharmacy, Soine recently received the American Pharmaceutical Association's Award in Natural Products. One of six such awards given annually by the association in recognition of meritorious achievement in various areas of pharmaceutical research, Soine's award was presented for achievements in the broad area of biological chemistry of plants and animals, particularly for work on products elaborated by plant and animal tissue. His numerous publications dealing with research in the isolation and elucidation of the structures of complex natural products of medicinal importance—alkaloids, furochromones and coumarines—were influential in the award decision. Especially cited was his work on the Argemone alkaloids, which led to a knowledge of the structure of argemone and bisnorargemone. A native of Virginia, Minnesota, and a graduate of Virginia junior college, Professor Soine received his bachelor of science degree in pharmacy and master of science and doctor of philosophy degrees from the University. He has served as a member of the National Pharmacy Week committee and chairman of the U.S. Pharmacopeia and the National Formulary revision committee of the Minnesota State Pharmaceutical Association, as a consultant to private industry in the scientific drug research field, and is a winner of the Lederle Laboratories Pharmacy Faculty Award.



KEITH N. McFARLAND Assistant dean of the University of Minnesota's Institute of Agriculture and Director of Resident Instruction for the College of Agriculture, Forestry and Home Economics, McFarland has been associated with the staff of the college office since 1946 as instructor, associate professor, and professor, assistant dean, and director of resident instruction. He has coordinated student advisory programs, conducted curriculum studies and personnel research, and handled student admission and academic matters. Particularly interested in career planning, he was named in 1960 one of eight national winners in the 4-H Alumni Program, in recognition of his civic, professional and public service activities. A native of Mower County in Minnesota, he graduated from the University with distinction in 1942, majoring in animal husbandry. He earned his master's degree in educational psychology in 1952 and a Ph.D. degree in education and sociology in 1955. He is a member of Gamma Sigma Delta and Alpha Zeta (honorary societies in agriculture), Phi Delta Kappa (honorary graduate society in education), and is an honorary member of the Society of Phi Zeta, honor society in veterinary medicine. Active in professional organizations, he served in 1963-64 as chairman of the Resident Instruction Section of the Division of Agriculture of the Association of State Universities and Land-Grant Colleges.

ALUMNUS ON THE MOVE!

Weslie W. Olson
'32BBA



His full name is Weslie W. Olson, but the people of Quincy, Illinois know their mayor better as "Wes," the businessman turned politician who has turned this Mississippi River city upside down and dragged it bodily out of its 19th Century doldrums and into the 20th. His aggressiveness and Swedish temper have paid off for Quincy. Its achievements under Wes Olson's dynamic administration include two new hospitals, at a cost of \$5.7 million; two new high schools, costing \$5 million; the annexation of twenty surrounding municipalities, the result of an Olson-organized door-to-door campaign; a tripling of Boy Scout facilities and membership; sewer and water bond issues of \$8.9 million; construction of a \$3.5 million seminary; and advanced plans to make the city a future midwest medical center.

The list's result was Quincy's selection as one of Look Magazine's All-America Cities of 1963, an award that Olson calls the "greatest thrill of my life."

The city's principal attribute when Olson took office in May of 1961 was public apathy and an atmosphere that left newcomers with the distinct impression that Quincy would much rather just be left alone.

Olson took quick exception to this, and took every opportunity to tell the world what a fine place the town was in which to live and work. And while the world listened, he started reshaping Quincy to fit the image he had created of it.

The city got an immediate cleaning up, including freshly painted street cross-walks and center lines, and a city-wide clean-up and paint-up campaign. Snow removal, up to that time virtually non-existent, was quickly organized by the resourceful Swede from Minnesota to such a high degree of efficiency that local citizens said the snow "was being removed almost before it fell."

Olson quickly made a name for himself as a "ribbon-cutter," as well. Not even a hot dog stand could open without the city's chief executive putting in a beaming appearance to cut the ribbon and give the new business an Olson-style sendoff. The city's previous mayors had taken pains to stay in the background and divided their time between civic duties and their private interests. Olson leaped at once into the foreground, and stayed there. He devoted full time, and then some, to caring for Quincy, and the busy, interested image he projected rubbed off on the townspeople.

The new spirit that was aroused in Quincy in the wake of his busy comings and goings was demonstrated in its solution to a problem that had been nagging the city's administration for years: the lack of proper lighting on the Memorial Bridge across the Mississippi River. Both Illinois and Missouri disclaimed responsibility for the problem, and Quincy, which had to live with it, had no money in its budget for such expenses.

After commenting in a city council that the bridge would be lighted if he had to climb the poles and string the wire himself, Olson hit upon a solution. In short order, he organized the city's school children in a cam-

paign for contributions, enlisted every club and organization in the city to help them in the effort, and, in a matter of weeks, raised \$13,045 to install the lights.

The energetic Swede is not one to relax after completing a job, however.

In short order, he formed the Tri-State Mississippi River Mayors Association, an organization to attract tourists and industry to the river communities of Illinois, Missouri and Iowa.

He also organized an Explorer Post which is today the only Boy Scout organization sponsored by a municipality, and serves as vice-president of the Central Illinois Mayors Association.

Additional Contributors to
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In October of 1963 he was elected president of the Illinois Municipal League, the state-wide organization of local government. Since assuming that office, he has obtained approval for a full-time Civil Defense Director for the state and was appointed to the Illinois Civil Defense Advisory Council by Governor Kerner.

He now is also serving as chairman of the Central Illinois Expressway Committee, and since taking the job, has managed to wangle \$150,000 in state funds for a feasibility study which will explore the possibilities of a \$145 million limited-access expressway across the state from Champaign-Urbana to Quincy.

The drive to get Quincy named an All-American city in the annual competition sponsored by Look Magazine and the National Municipal League was accomplished in typical Olson style.

Enlisting the help of a city-wide committee, every phase of the city's life was carefully considered — its good points and its recent and almost unbelievable progress — a process which landed Quincy in the semi-finals and assured it of at least a runner-up ranking. But that wasn't nearly good enough, and more weeks of work went into the oral presentation made by Olson and the Quincy delegation of 18 members when it descended on the jury of the All-America city selectors in Washington, D.C.

Months later, when the news broke that Quincy was one of the eleven winners for 1963, it touched off one of the biggest celebrations ever seen in a city previously not known for its enthusiasm.

Wes Olson was born in Isanti, Minnesota, in 1903. His father was a building contractor and owner of a country store. He received his high school diploma in 1922 from Minnesota College, a private school which has long since been absorbed by the University of Minnesota. Although he spent his freshman and sophomore college years at the University of Chicago, he graduated from the University of Minnesota in 1932 with a bachelor of

business administration degree in accounting and a minor in journalism.

After graduating, he moved back to Chicago for a period of seven years, and in 1939, went to Quincy to become credit manager for the Gardner-Denver Company, where he stayed until 1943. For the last two years of World War II he served as assistant director of accounting for the American Red Cross at General MacArthur's headquarters in the South Pacific, and was awarded the Medal of Freedom for his work in the Philippines.

On his return to Quincy, Olson joined the Equitable Life Assurance company of New York as district manager, leaving in 1949 to become a Pontiac dealer in Louisiana, Missouri. From 1958 to 1961 he was manager of the home builders department of the Gem City Electric Company, the position he left in May of 1961 when his whirlwind campaign landed him in the mayor's office.

Although he's pleased with what he and Quincy have accomplished together so far, Olson is convinced there's a great deal more to be done. Among them are a renewal program for the old buildings in the downtown area of the city, a re-organization of the one-way street system, and of course, the new expressway that will bring more people to Quincy's front door. His one big dream, however, the one with which he'd like to cap his four-year term in office, is to place a Quincy float and 100 piece All-City band in the 1965 New Year's Day Rose Bowl Parade, a feat he says he'll "bust" himself to accomplish.

In his campaign for the mayoralty, he promised the city a "businessman's administration." He has given it that, and he has also had a chance to put into practice what he terms his "incorrigible" advocacy of honest government. But most important, his boundless energy has brought to Quincy's city hall a new spirit of leadership and aroused in the town's citizens a new-found pride in their community. ●

ALUMNI NEWS

'Mr. Minnesota' Dies



Sig Harris, a man who became a legend in Minnesota football during his lifetime, died November 8 in Minneapolis at the age of 81.

Sig played quarterback on the University of Minnesota football teams of 1902-04, but it was not primarily his ability or accomplishments as a player that commanded the affection and open admiration of so many people. Sig devoted his life to football in the unshakeable belief that the game was important in strengthening young men and in building character in them. To Sig, football was much more than just a game, and the lives of the boys he coached give ample proof that he was right.

Born in Dubuque, Iowa in 1883,

Sig was associated in one way or another with 14 Minnesota football teams, including the unbeaten team of 1903 which tied Michigan to lay the foundation for the tradition of the Little Brown Jug.

Sig starred in that game as 148 pound quarterback, playing the entire game without relief despite a doctor's advice not to play at all due to injuries. He made numerous tackles of Michigan's All-American Willie Heston after Heston had run through the rest of Minnesota's defense, as well as a 40-yard kickoff runback. It was also Harris who held the ball for Ed Rogers, captain of the team, when Rogers kicked the placekick conversion on the final play of the game which

created the historic tie of 6-6. A despondent Michigan team left the field so quickly that it left behind its five-gallon water jug. When Fielding Yost, Michigan coach, wrote to Dr. Louis J. Cooke of the Minnesota Athletic staff requesting its return, Cooke replied that if Michigan wanted the jug back that badly, they would have to win it back. The jug has since become the most famous of all football trophies.

Sig again played quarterback on the 1904 team, when the Gophers were unbeaten and repeated as Big Ten champions.

After graduation he joined the coaching staff of Dr. Henry L. Williams as an assistant, and remained with him until Williams retired in 1922. When Williams became ill during the season, Harris took over as head coach for one game and led the Gophers to a victory over heavily-favored Indiana. As a result, he could boast, and often did, of having a 1,000 per cent head coaching record. Sig continued on as a full-time or part-time assistant through the later coaching regimes of Dr. Clarence Spears and Bernie Bierman, and achieved a large margin of fame as coach of the Minnesota scrub team, the Gopher Bombers, which fought the varsity with blazing morale.

The Bombers were used to prepare the varsity for each game by
(continued on page 30)

Shown in his days as a coach on the 1929 staff of Clarence "Doc" Spears, Harris stands at the extreme right. Other staff members shown are, from left to right, Ed Lynch, Spears, Dutch Bergman, George McKinnon, Finger and Harris.

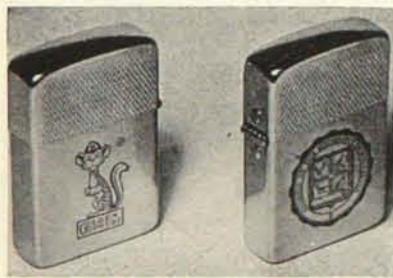


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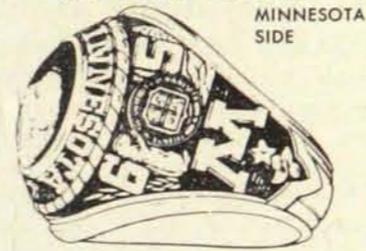
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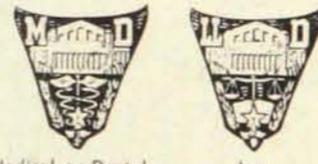
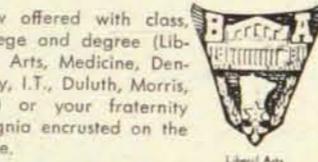


Minnesota Alumni FROM THE MAA

OFFICIAL RING



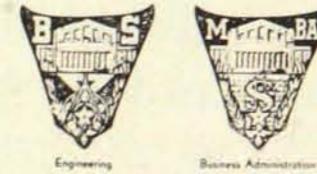
Now offered with class, college and degree (Liberal Arts, Medicine, Dentistry, I.T., Duluth, Morris, etc.) or your fraternity insignia encrusted on the stone.



Medical or Dental (with DDS)



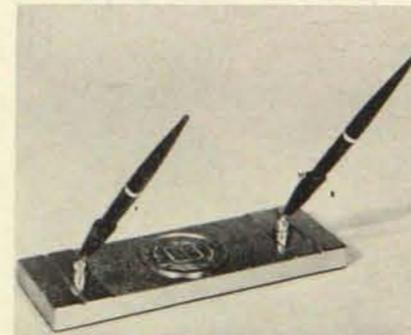
Law



Official Minnesota Ring—Selected by the Board of Directors of the Minnesota Alumni Association as the official design. The Minnesota Side contains the University Seal with the Golden Gopher and the Minnesota "M", your graduation date appears at the top of this side. The University Side features Northrop Auditorium combined with different elements for most of the colleges—I.T., Business, Medicine, Dentistry, Law, Duluth, Morris and the all-University design. Academic degree appears at the top of this side. Greek letter or Club encrusting can be encrusted on the stone.

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Minnesota Savings Bank

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Double Pen

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THE UNIVERSITY

\$2.5 Million Children's Rehabilitation Center Dedicated at U of M

The newest addition to the University of Minnesota medical complex, the \$2,050,000 Children's Rehabilitation Center, opened for business November 7.

Several hundred people, including Mary E. Switzer, U.S. Commissioner of Vocational Rehabilitation, passed through the sparkling seven-story structure. Speaking at a luncheon following the open house, Miss Switzer said that young people seeking their place in the world "have difficult enough times, but they are far more difficult for youngsters with serious physical or mental handicaps." She added that federal grants totaling almost \$4,350,000 have been made to the University in the last 10 years for research and training in the rehabilitation of disabled persons.

The new Center was paid for by the University's William Henry Eustis Endowment Fund — \$1,045,000 (more than half the cost); \$869,000, 45 per cent, by the federal Hill-Burton Hospital Construction Act; and other funds from Crippled Child Relief, Inc., the University's Max Ogden Cole fund, and other private donors.

The first floor of the building contains the Hospital library, schoolrooms for child patients and staff lounges. The second floor contains classrooms and laboratories for University courses in occupational therapy and physical therapy and faculty offices. Physical medicine research facilities are on the third floor. Fourth and fifth floors provide hospitalization facilities for 20 adults and 20 children.

Director of the Center is Dr. Frederic M. Kottke, head of the Department of Physical Medicine and Rehabilitation.

Foundation Holds New York Dinner

"Our hope for the future surely lies in education, both intellectual and moral," Frederick R. Kappel, chairman of the board of the American Telephone and Telegraph Company told 80 alumni and friends and supporters of the University of Minnesota at a dinner held November 10 in the Park Lane Hotel in New York City. "As alumni, friends and supporters of one of America's finest institutions, let us accept the opportunity given us to take a constructive part," he added.

The AT&T board chairman was the principal speaker at the affair sponsored by the trustees of the University of Minnesota Foundation to introduce the New Governor John Sargent Pillsbury Fellowship. Purpose of the Pillsbury Fellowship, Kappel reported, is to institute and encourage a pattern of substantial giving to the Foundation by alumni and friends of the University, thereby helping set a higher standard of giving for alumni generally.

Membership in the Pillsbury Fellowship is open to individuals who contribute or bequeath \$10,000 to the Foundation. Gifts may be made at the rate of \$1,000 annually over a 10-year period. The Foundation was formed in 1963, essentially to provide funds to meet important University needs for which tax money is not available.

Other speakers on the program were Dr. Charles W. Mayo, chairman of the University of Minnesota Board of Regents, and O. Meredith Wilson, president of the University of Minnesota.

Wreckers Finish Off "U" Presidents' Home

The once stately Pillsbury House, home of University of Minnesota presidents for half a century, is now little more than a pile of bricks and broken wood.

The three-story white brick mansion at 1005 SE. 5th St. which has housed a Minnesota governor — John Sargent Pillsbury (who built the home in 1879) — and six University presidents — Vincent, Burton, Coffman, Ford, Coffey, and Morrill — has been torn down to make room for a complex of apartment buildings to provide temporary living quarters for new young University faculty members and their families. Preliminary plans call for erection of about 50 units in six to eight buildings at a cost of about \$800,000. Construction is expected to start this winter, with completion in a year.

The home was first turned over to the University in 1911 and soon became a center of campus life. Dances and basketball games were once held there.

University officials say that high maintenance costs and the need for making the best use of limited land necessitate the razing.

Outdoor Education Camps Proposed

The University of Minnesota has asked the Minnesota Outdoor Recreation Resources Commission to recommend to the legislature a \$1.9-million system of outdoor camps for off-campus education.

The proposal includes a \$1,015,000 camp and conference center within a 100-mile radius of the Twin Cities and three smaller camps costing a total of \$873,000 in west central, northern and southern Minnesota. They would be used for outdoor laboratories, seminars, workshops, short courses, and conferences throughout the year.

THE ALUMNI

'Old Grads' Return to Morris Branch for Homecoming, Banquet

The University of Minnesota, Morris, welcomed back its alumni at Homecoming ceremonies Saturday, October 31, but with a slight difference from similar celebration at most other colleges: these "old grads" had only been away from the campus for six months, and were all less than 25 years old!

The Morris branch of the University graduated its first class in June of this year, and 35 of the 60 members of the class of 1964 were on hand to see their old Alma Mater's football team romp to a 26 to 6 victory over Ellendale (North Dakota) State College. Dean Rodney Briggs, head of the branch since its creation in 1960, recalled that in the first unofficial homecoming in that year the faculty played touch football against an opposing team drawn from the 230 members of the first class. Today Morris has more than 900 students enrolled.

The alumni also took part in groundbreaking ceremonies for the school's new \$450,000 120-unit dormitory, a partial solution to the branch's already apparent housing problems.

According to Dean Briggs, the Morris branch is gaining in stature and this year is attracting students from as far away as the Twin Cities. Although the school is capable of expanding very rapidly if its needs for new physical facilities are met, at the moment only 300 of the 900 students can be housed on campus. He anticipates that 75% of the students will live on campus in the future if new dormitories are built.

The visiting alumni attended the first annual meeting and banquet of the newly organized University of Minnesota, Morris, Alumni Association later in the afternoon at the Pomme de Terre Country Club. This chapter of the Minnesota Alumni Association enjoys the distinction of being the only group in the MAA with 100% membership.

Starting with a cocktail hour at 5:00 p.m. and dinner at 6:00, the highlight of the evening was the election of the group's first officers. Elected president was Christian Kamrud, Appleton, Minn. Roger Stark of Alexandria was elected vice president, and LaDell Grote of Park Rapids, secretary treasurer.

Speakers at the dinner meeting included Dean Rodney A. Briggs, Edward J. Morrison, chairman of the West Central Education Development Committee, and Oscar J. Miller, superintendent of Morris public schools.

Vincent Reis, Former Alumni Field Representative, Dies in St. Paul

Vincent P. Reis '41-47 Grad, 52, director of delinquency and crime prevention for the Minnesota Department of Corrections, died November 9 at his home in St. Paul.

Reis, a native of Long Island, N.Y., was a representative for the Youth Conservation Commission from 1948 to 1949, when he joined the Minnesota Alumni Association as a field representative. He worked with Ed Haislet, MAA executive director, for three years in reorganizing and expanding the program of the Alumni Association, resigning in October of 1952 to become superintendent of the Ramsey County Home School for Boys, at Highwood Park, St. Paul.

In 1954 he assumed the position he held with the Department of Corrections at the time of his death, directing a staff of field representatives who worked with local communities in programs to prevent crime and delinquency.

Reis received a bachelor of sci-

68 Attend MAA Legislative Workshop

Sixty-eight people, including MAA board members, chapter and constituent group presidents, turned out for the Minnesota Alumni Association's Legislative Workshop on November 14 in the Campus Club of Coffman Memorial Union.

Designed to acquaint chapter and constituent presidents with the legislative needs of the University of Minnesota, the Workshop consisted of a two-hour briefing session in the morning, followed by a luncheon at noon.

The briefing session consisted of a presentation by President O. Meredith Wilson and members of the administration of the University's needs as reflected by the 1965-67 budget. A lively question-and-answer period followed.



ence degree from the New York University School of Education in 1937, and did his graduate study in Minnesota's School of Social Work.

Alumni Representatives on "U" Senate Committees Approved

The appointments of nine members of the Minnesota Alumni Association to serve as alumni representatives on four senate committees were approved at the November 5 meeting of the University of Minnesota Senate.

Appointed to represent the MAA on the Committees on Intercollegiate Athletics, Student Affairs, Reserve Officers' Training Corps, and the University Scholarship Committee were the following:

Intercollegiate Athletics. Franklin D. Gray, past president of the MAA, and Charles Judd Ringer, 1964-65 president.

ROTC. Orem O. Robbins and Arthur Hoblit.

Student Affairs. Richard J. Fitzgerald and Norman E. Groth.

Scholarships. Mrs. Richard Graf, Elmer Lundgren and Frank M. Rarig.

Each of the standing committees has special functions within the

Senate: *Intercollegiate Athletics* recommends policies in regard to intercollegiate athletics and rules on questions of student eligibilities; ROTC maintains liaison between the Senate and the three military units on campus and their special problems; and *Student Affairs* supervises all student activities and organizations within the jurisdiction of the Senate and not within the control or supervision of any other standing committee.

The *Scholarship Committee* is an All-University, non-Senate committee.

Meet the Constituent Group Presidents . . .



WARREN LEE LINDQUIST, '49 BSEd'57MA, elected president of the College of Education Alumni Association in April of 1964. Elementary principal of Earle Brown School in suburban Brooklyn Center, he is a member of the "M" Club. A graduate of North High School in Minneapolis, he served in the Navy from 1943-1946. In 1950 he married Cari Ermatinger, they have two children. This past summer he attended Teachers' College, Columbia University under a National Science Foundation grant.



DR. JAMES O. HANSON, new president of the Veterinary Medical Alumni Association, received his degree in veterinary medicine from the University of Minnesota in 1953. After graduation, he started in general practice in St. Peter, and was joined by Dr. Gene R. Kind '55DVM in 1955. Besides his position with the alumni group, he is also president of the St. Peter Chamber of Commerce and the local PTA group. Previously he headed the Agriculture committee of the St. Peter Chamber of Commerce and organized the first annual Indian Summer Market Hog Show in his area. His special interests are 4-H work and continuing education in his field.



LAWRENCE H. MUELLER, president of the College of Pharmacy Alumni Association, received his B.S. in pharmacy from the University of Minnesota in 1940. During World War II he served in the Navy until 1945. After working a number of pharmacies, he purchased the Prescription Shop in Minneapolis in 1954, now located in the Northstar Center, and continues to operate it with a partner. His activity in alumni work began with the re-organization of the College of Pharmacy Alumni Association in 1959. He is a member of Phi Delta Chi fraternity, the American Pharmaceutical Association, and the Minnesota State Pharmaceutical Association.

Dentistry Alumni Elect Officers

At a board meeting held October 9, the School of Dentistry Alumni Association held its annual election of officers. Named to executive positions with the group for the coming year were Dr. Melvin Sletten, president; Dr. William Braasch, vice president; and Dr. Arthur Hayward, secretary-treasurer.

The board also voted to donate \$1000 to the School of Dentistry Scholarship Fund, and set the date for its 1965 annual meeting at Friday, October 8, 1965.

With The Chapters

Thief River Falls

Peter Probasco was appointed chairman of the Minnesota Alumni club membership committee at a luncheon meeting on Sept. 6. The committee will initiate a drive to enroll area alumni of the University of Minnesota as members of the Minnesota Alumni Association.

Officers of the Thief River Falls club are Curtis L. Carlson, president; Probasco, vice president; and Mrs. Wendel Olson, secretary-treasurer.

International Falls

The Border City chapter of the Minnesota Alumni Association heard Professor Gerhard von Glahn

of the University of Minnesota, Duluth, department of political science detail eight possible new state revenue sources at the group's annual meeting held October 15 at the Rainy Lake Lodge.

Professor von Glahn discussed at length the possible sources of income to be considered by the 1965 State Legislature to cope with what he termed a budget "of staggering proportions," brought about in part by the population explosion on all four University of Minnesota campuses.

New officers elected at the meeting included Eugene Jamrock, president; Mrs. John Menefree, vice president, and Mrs. Floyd Breneman, secretary-treasurer. New board members elected were Russell Hanover, Charles Swain, and Mrs. Fred Williams.

Presiding at the meeting was outgoing president Richard Burrock.

Albert Lea

The Albert Lea, Minn., MAA chapter has announced its plans to conduct a membership drive, and has appointed Mrs. Barbara Western, secretary of the organization, as chairman of the chapter membership committee.

Other officers of the group are Wendell P. Lewis, president; Fred W. McNelly, vice-president; and Bob Sherman, treasurer. Directors are Neil C. Brownlow, Harvey Botten, Dick Maschka, Merv Aus, and Phil Stewart.

The chapter will hold its annual meeting in February.

Alexandria

The Alexandria, Minn., chapter of the Minnesota Alumni Association met November 3 to elect new officers and make plans for its annual meeting, which is tentatively scheduled for February of 1965.

Elected to executive posts at the meeting were Ken Tessmer, manager of Radio Station KXRA, president; Tom Zauche, vice-president; and Mrs. Lawler, secretary-treasurer.

Luverne-Adrian

The Luverne-Adrian chapter of the MAA has completed plans for its annual meeting, which is scheduled to be held February 23, 1965, at the Lamberton Highway Cafe. Guest speaker at the event will be Professor Clifford P. Hooker, associate director of the Bureau of Field Studies and Surveys at the University of Minnesota. The annual meeting and election of officers will begin with a banquet at 6:30 p.m., hosted by Walter Tofteland, present chapter president.

The group is also planning to conduct an MAA membership campaign after the first of the year.

Owatonna

New officers elected at the spring annual meeting of the Owatonna chapter of the Minnesota Alumni Association include Jack Cashman, president; Frank Kennon, vice president; Mrs. Lorraine Grant, secretary-treasurer. Members of the board of directors are M. Scott Rhoes, Ken Lysne, Hugh Morris, Dr. W. G. Wilkowske.

The chapter is planning an annual meeting for sometime in February, 1965, and is considering conducting a membership drive in early spring.

Fergus Falls

The Fergus Falls chapter of the MAA recently completed a membership drive which netted the group 20 new members, bringing its membership to 21% of the total number of alumni living in the area. The chapter is planning to hold its annual meeting on January 28, 1965.

WHERE DO YOU STAND?

Shown below are Minnesota Alumni Association membership rankings for the month of October, 1964, by number and percentage of total possible membership in each group

Group	Rank by no.	% of total possible membership	Rank by %
College of Liberal Arts	1	16.5%	10
Education	3	17.0	9
Institute of Technology	2	20.0	7
Medicine	4	39.0	3
Nursing	9	12.8	12
Dentistry	6	35.5	4
Agriculture, Forestry			
Home Economics	7	13.6	11
University of Minnesota, Duluth	8	18.1	8
Business	5	21.4	5
Pharmacy	10	41.9	1
Veterinary Medicine	12	41.3	2
Mortuary Science	11	20.9	6

Bakken, Laitinen Given OAA At Institute of Technology Annual

Glenn P. Bakken '42BSME, Cleveland, Ohio and Herbert A. Laitinen '36BCh '40PhD, Chicago, were honored at the 26th annual meeting of the Institute of Technology Alumni Association, held Nov. 13, when they were presented with the University's Outstanding Achievement Award, the highest honor the school can give its alumni. On hand to present the dual awards was Dr. William G. Shepherd, Vice President, Academic Administration.

The banquet meeting, attended by 111 IT alumni, also honored Dr. Wayland E. Noland, professor of organic chemistry, and William E. Ranze, professor of chemical engineering, with the Institute of Technology's Distinguished Teacher Awards.

Principal speaker at the affair was IT Dean Athelstan Spilhaus, who discussed recent developments within the Institute and called for greater individual initiative and leadership. He stressed the need for developing "generalists" rather than specialists, and said that an engineer who has received real basic training, such as Minnesota's IT provides, can go anywhere he is needed.

New officers elected for the coming year during the business portion of the meeting included J. Leonard Frame '43BAE, president; Harry Heltzer '33ME, first vice president; Charles Britzius '33BCE '38MSCE, second vice president; and Robert E. McDonald '40BEE, secretary-treasurer.

CLA Board Alumni To Hold Dinner

A banquet honoring University of Minnesota alumni who served on the College of Liberal Arts (or Science, Literature and Arts) Student Intermediary Board will be held December 29, at Jax Cafe, 1928 University Ave. N.E., Minneapolis. The 1964 CLA Board Alumni Gala starts at 6:30 P.M., and is open to all alumni who have worked on either the SLA or CLA Boards at any time in the past.

Reservations may be made at 101 Johnston Hall, or by calling 373-2821.

Dr. Vernon Smith Heads Foundation

Dr. Vernon D. E. Smith, St. Paul surgeon, was elected to a two-year term as president of the Minnesota Medical Foundation on Nov. 12 by the group's board of trustees.

The 2,300-member foundation is a non-profit organization which provides private assistance to the University of Minnesota Medical School.

Dr. Smith, a 1930 graduate of the University College of Medical Sciences and recent winner of the Medical Alumni Association's Harold S. Diehl Award, was among the alumni and faculty members who founded the organization in 1939. He has served as its vice president since 1962, and succeeds Dr. Corrin H. Hodgson, Rochester, as president.

Also elected at the Thursday evening meeting was Dr. Karl W. Anderson as vice president. A 1923 graduate of the college of medical sciences, Dr. Anderson, Lake Minnetonka, is senior vice president and medical director of the Northwestern National Life Insurance company, Minneapolis.

Dr. N. L. Gault, Jr., associate dean of the medical school, was re-elected secretary-treasurer of the organization.

The Minnesota Medical Foundation observed its 25th anniversary Nov. 30.

ACADEMIC STAFF

(Continued from page 12)
years at this level before being promoted to associate professors, and it took a median 4.6 years for the professors who had held associate professor rank at this institution to be promoted to full professor rank.

COMMUNITY ACTIVITIES

Judging by the study results, about half of the total staff belonged to one or more community organizations. Staff members who participated in community groups averaged about two organizations each, although a few individuals listed five or more. Such participation increased along with rank, from about 40 per cent of the instructors to 60 per cent of the professors. The most frequently named groups were the PTA, veterans' groups, church clubs, and civil rights organizations.

PROFESSIONAL ACTIVITIES

Since the degree of an individual's dedication to his profession is sometimes reflected in the extent to which he is interested in or participates in organizations connected with his profession, such activities were also explored.

The results indicate that only one person in 13 of the group studied held no memberships of any kind in professional organizations. At the opposite end of the scale, it was discovered that one faculty member in ten held memberships in nine or more such organizations. As might be expected, the number of memberships held increased in direct proportion to the increase in rank, and a rather sharp break was found between the levels of assistant and associate professor in terms of the number of staff members holding no professional memberships. For the top two professorial ranks, only about three per cent indicated that they did not hold memberships in any professional organization.

SPECIAL ACTIVITIES

Of special interest in the faculty characteristics study was the extent of involvement on the part of University faculty members in professional activities of a local, state, national or international nature. These activities were defined to include service on committees or advisory groups, special appointments with governmental and non-governmental agencies, and participation in or planning of special invitational conferences, symposia, etc.

During the year 1961-62, 38 faculty members held memberships on committees of an international nat-



Could a U.S. firm that helped save a cotton crop abroad also have a hand in keeping Jayne Tippman's skin soft?

You'd expect that a U.S. company engaged in mining, production and marketing in over a hundred countries might have an impact on many national economies. And you'd be right. For instance, with an insecticide sold under the trade mark "Sevin," this company was largely responsible for saving a middle east cotton crop.

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Cotton fields and skin lotions are unlikely markets for one company's products. Unless that company is Union Carbide.

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dozen major plastics, along with plastic bottles and packaging films. And it's one of the world's most diversified private enterprises in the field of atomic energy. Among its consumer products are "Eveready" batteries and "Prestone" anti-freeze. Its carbon products include the largest graphite cylinders ever formed, for possible use in solid-fuel rockets. Its gases, liquefied through cryogenics—the science of supercold—include liquid oxygen and hydrogen that will be used to propel the space ships designed to reach the moon.

In fact, few other corporations are so deeply involved in so many different skills and activities that will affect the technical and production capabilities of our next century.

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ure, 352 on national committees, 22 on state-wide committees, and 121 on local (non-University) committees. Again, as would be expected, the heavier load of special professional activities was carried by the full and associate professor groups. In terms of percentages, 23.4 per cent of the total faculty served as members of one or more national advisory committees during the year. Similarly, slightly more than a fourth of the total faculty (27.0 per cent) had planned or appeared on the program of one or more national conferences. All told, more than 55 per cent of the academic faculty listed such professional activities, representing a substantial involvement on the part of the University's staff.

FOREIGN LANGUAGE

About three-fifths of the staff had some competency in either French or German. About a third indicated that they could translate French publications into English and a fifth indicated they could read a French newspaper. The proportion who indicated the same type of competencies in German were slightly smaller in each case.

Few of the staff (3-6 per cent) could speak French or German well enough to serve as an interpreter, to lecture in either language (3-5 per cent) or to use them in general conversation (9-11 per cent).

Competency in other languages was quite modest. The proportion of the faculty that listed some competency in another language was less than five per cent in every language but Spanish (18.8 per cent), Italian (8.4 per cent), Danish (6.7 per cent), and Russian (5.7) per cent). A few faculty members indicated they were competent in 10 or more modern languages other than English.

The typical teaching faculty member on the 1962-63 academic staff might be described as an associate professor, male, married, and about 42 years of age.

Born in Minnesota or one of the five surrounding states, he obtained his first degree in a college or university in the same geographic area. As an undergraduate student he

was a member of an honor society or graduated with honors from his college. As a graduate student he had held a research or teaching assistantship or a fellowship or scholarship.

The "average" professor earned his doctorate degree at a midwestern university and had acquired three to four years of academic experience before being employed on the academic staff of the University of Minnesota. He belonged to one community organization, typically the Parent Teachers Association or a Veterans' group. He also belonged to four professional organizations, and served on an advisory committee at the local, state, national or international level or planned or appeared on a program at the national level once or twice during the previous year. He traveled to Europe during the past five years, and although he is not conversationally fluent in a foreign language, he can translate French and German documents into the English language.

He had been a member of the University staff for about eight years and it had taken him about four years to be promoted from instructor to assistant professor and from assistant professor to associate professor. ●

MR. MINNESOTA

(continued from page 21)

showing them the formations most likely to be used by that week's opponent, a practice which ended when the emphasis was taken off scrimmaging after the start of the playing schedule.

Coach Harris prepared his Bombers for each week's scrimmage as if they were going to play for the Little Brown Jug. So much of his own intense competitive spirit rubbed off on his boys that by Saturday the varsity looked forward to facing a less formidable opponent. But when one of Sig's Bombers moved up to the varsity, his indoctrination by fire at the hands of Harris invariably paid off.

During the years preceding World War II, when Minnesota

coach Bernie Bierman was locked in rivalry with Fritz Crisler at Michigan, it became Sig's special duty to go to the locker room before each Michigan game to speak to the squad. Minnesota players of that period attribute much of their success in licking Michigan, which helped them to Big Ten and national championships, to the inspiration drawn from one of Sig's emotional appeals, a speech (in the words of one who was there) that "left you with the feeling you could walk through the wall."

After he retired from coaching, Sig seldom missed a game, regardless of where it was played, especially the big one with Michigan. When the Gophers beat the Wolverines he was delighted; if they lost, tears frequently welled in his eyes.

In his non-football life, he was president and owner of Harris Machinery Co., Minneapolis.

There was something special about Sig Harris — one sportswriter described it as "a virile sweetness of character, a capacity for feeling friendship for others, a human tolerance," and added that "no boy could ever want, or find, a finer friend."

Whatever it was, Sig had it.

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ALUMNI NEWS

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tation of public relations policies
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sota, he graduated from the Uni-
versity's School of Business Ad-
ministration in 1938. He joined the
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a timekeeper and employment
clerk, later becoming an industrial
relations analyst.

After service in the Navy in
World War II, he returned to
Oliver, and in 1956 became ad-
ministrative vice president. In Jan-
uary, 1962, he was named director
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ration and transferred to the Pitts-
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You can put away the black crepe. The Gophers didn't finish last. They didn't wind up ninth, either. That's where the football pundits said they'd be come November. It seems the players had different ideas. They finished fourth.

"This was a most gratifying season," said Coach Murray Warmath. "When you consider all the injuries to key men and other problems we've had, our performance must be considered remarkable. This record is a great tribute to our players."

Before the campaign started, there few cheerful words issuing from the Gopher football office. The coaches pointed to a lack of star players, inexperience, injuries, ineligibility and a lackluster sophomore crop as reasons why their team would find it difficult to see the light of the first division.

True, losses from the 1963 team were not numerically heavy, but then that squad was no great shakes, having finished ninth in the Big Ten with a 2-5-0 record and 3-6-0 overall. In addition, the tackle position was depleted with the departure of all-American Carl Eller and Capt. Milt Sunde.

There were other problems, too. Foremost among them was the quarterback spot. Exactly who the signal-caller would be was uncertain. Junior John Hankinson had great promise but no experience. If he would come through as hoped, things might brighten considerably.

The guard position had been troublesome for two years. There was little likelihood that matters would improve, especially with the

loss of starter Larry Hartse. No promising guards were coming up from the freshman team.

Dick Harren, a sensation at right halfback in the '63 finale, was slow coming around after undergoing surgery on his knee. As it turned out, he didn't play a second all fall, and the backfield was extremely shy of blue chip replacements. If little (5-10, 152-pounds) Bill Crockett should get hurt . . .

There were some happier aspects, however. The center position was strong with Capt. Joe Pung on defense and Frank Marchlewski, an outstanding blocker, on offense. Crockett, a runner of great talent, was back after missing a year due to ineligibility. Fullback Mike Reid was on hand to kick extra points and play offense or defense, or both. Fred Farthing, who had been shifted from right half to fullback, looked like a natural at that position.

As might be expected, the Gophers were underdogs in their opener with powerful Nebraska. They lost the game, but not exactly as advertised. The score was 26-21 and it was no walk-away.

The next week the Gophers headed west. Their opponent was California, a team which possessed a gifted passer and had almost upset defending Big Ten champion Illinois the preceding week. Again they were underdogs, but this time they won 26-20.

Another victory, 21-18 over Northwestern, followed. Again Hankinson sparkled. Again his receivers were great. But this time Crockett failed to survive the first half. He suffered what was called a hyperextended left foot. The only

action he was to see for the balance of the season were a few brief, fruitless moments toward the end of the campaign.

The effect of his loss was felt most keenly the next two weeks. Setbacks at the hands of Illinois 14-0 and Michigan 19-12 left the Gophers reeling. To compound the trouble, more players were injured. The most seriously hurt was Marchlewski who was lost for the season with torn knee ligaments.

The Michigan game brought forth a new star, however — sophomore Kenny Last, an erstwhile end who was tried at flanker against the Wolverines and stayed there.

The sudden reversal of form was based primarily on two important ingredients — the passing combination of Hankinson to Last-Brown-Kramer and the suddenly improved defensive play of the Gopher line and secondary. The team scored successive victories over Indiana 21-0, Iowa 14-13 and Purdue 14-7 before falling afoul of an inspired Wisconsin squad 14-7. Despite the tarnish inflicted by the finale, coming on a day that was cold for Minnesota in all respects, the Gophers' record of 5-4-0 overall and 4-3-0 in the Big Ten was far better than anyone had expected.

There were heroes in abundance. Hankinson shattered practically every passing record in the Gopher book with 86 completions in 185 attempts for 1,084 yards. He became the first Minnesota passer ever to reach the 1,000 mark.

His receivers had notable success grabbing and holding on to the ball. Brown set a new record for receptions in one season with 27.



Kramer posted a new mark for total yardage on receptions with 342, and Last came within a couple of eyelashes of eclipsing Tom Hall's records for number of receptions and total yards in one Conference season.

The tackles held up far better than anyone had expected, led by Don Rosen, Fred Nord and Gillingham.

The guard play of Paul Faust, Willie Costanza and Chuck Killian also made an important contribution, and the completely unexpected defensive excellence of another guard, Brian Callahan, was a welcome bonus.

The loss of Marchlewski cut deeply into one of the Gophers' chief strong points, but Pung played magnificently all season, both on defense and offense and provided inspiring leadership.

The backfield was never the same after Crockett's loss, however. The rushing yardage fell off consistently after that, although Farthing, who was switched to Crockett's position, and Reid contributed important gains at crucial times.

The defensive secondary won Warmath's praise as "one of the best in the country." Halfbacks Kraig Lofquist and Stan Skjei were among the finest in the Big Ten, while Bill Bevan and Andy Haines did excellent work at safety. Linebackers Costanza, Pung, Reid, Wheeler, Reiersen and Jerry Newsum all put forth yeoman efforts.

Sixteen members of this surprising squad have ended their competition. Only ten of them — Pung, Marchlewski, Lofquist, Skjei, Peterson, Reid, Costanza, Crockett, Nord and Jim Krohn saw much action, however. Nine regulars from the offensive team will be back next year, along with five defensive starters and a number of other veterans.

Along with this residue of talent will be a large number of graduates of what has been hailed as one of the finest freshman teams in Minnesota history.

Chances are the Gophers won't be picked for last, or even ninth, next September. ●

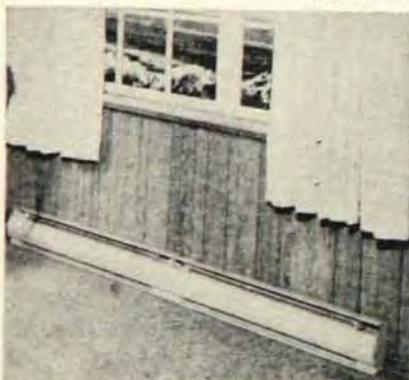
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DR. JAMES D. MOLD has been appointed assistant director of research for Liggett & Myers Tobacco Company at its research

ALUMNI OF THE MONTH

center in New York. He was previously supervisor of research in organic chemistry, a position he had held since joining the Liggett & Myers Research Department in 1955. From 1943 to 1947 he was employed by the U.S. Federal Security Agency, and from 1947 to 1949 by Parke-Davis and Company.

Born in Carleton, Minnesota, and raised in Duluth, Dr. Mold attended the Duluth Junior College and received his bachelor of chemistry degree from the University of Minnesota. His graduate degrees were acquired at Northwestern University in Illinois.

He served with the U.S. Army Chemical Corps between 1949 and 1955.

A member of Sigma Xi and Pi Lambda Upsilon, Mold is married and has three children.

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AROUND & ABOUT WITH ALUMNI

'19

Ether Hendrickson Dale '19BA was recently named one of Detroit's 10 Top Working Women as part of Salute to Working Women Week. Dr. Dale is a pathologist at the Yates Memorial Clinic and Receiving Hospital and an associate professor of pathology at Wayne State University.

'21

Evan W. Holway '21DDS has retired after many years of dental practice in Seattle and several years of semi-retirement in Bremerton, Washington.

'23

Gilbert W. Cooke '23BA, professor of Business Administration at Bowling Green State University, Ohio, is the author of two new books, *Financial Institutions*, published in 1962, and *The Stock Markets*, published in 1964.

'23

Charlotte Keyes Clark '23BA, Carmel, California, was elected first woman president of the World Affairs Council of Monterey (Calif.) Peninsula on May 23.

'25

George H. Mahon '25LLB is the new chairman of the House Appropriations Committee. First elected in 1934, he represents a 20-county west Texas agricultural district around Lubbock.

Van Meter Cousins '25 BSEE has retired after a 39-year career with Bell Laboratories. He first joined the company in 1925, and in the intervening years participated in the design and development of the M-9 anti-aircraft fire control system, the circuit design of the Nike guidance computer, and, since 1953, headed a group which designed and operated the mammoth Nike System Tester project.

'30

Marchette Chute '30BA, New York, author of "Chaucer of England," "Shakespeare of London," and "Ben Jonson of Westminster" received the honorary Doctor of Literature degree at the 191st annual Dickinson College Commencement June 7. Miss Chute is a past winner of the University of Minnesota's Outstanding Achievement Award.

'31

Dr. William N. Makaroff '31MD has returned to Guerneville, California, after spending two years travelling up and down the length of Chile from the Peruvian border to within 50 miles of Cape Horn, administering the Food for Peace program as a part of the Alliance for Progress effort in Chile.

Clifford L. Jewett '31BSCE has joined

the new products commercial development division of the 3M Company as manager of project development. Jewett joined the company immediately after graduation and is a charter member of 3M's Carlton Society.

'32

Col. Raymond J. Karpen '32BChemE '47MS has received the First Oak Leaf Cluster to the Legion of Merit. Honored for "exceptionally meritorious service while serving in positions of responsibility from April 1954 to June 1964, he is presently Commanding Officer of the U.S. Army Medical Research & Development Command's Medical Equipment R&D Laboratory at Fort Totten, N. Y.

John M. Waligora '32BSEE '37MS has been named THE MAN OF THE YEAR by the North Penn Chamber of Commerce, Lansdale, Pa. He was cited for outstanding work in seeking a solution to the North Penn Valley's water problems. He is presently employed by Merck, Sharp and Dohme as director of engineering.

'33

Roy Olman '33BS recently returned to Washington, D.C., after spending several months in Brazil leading a United States Geological Survey team in a study of the Amazon River. They made the survey in two stages, once during the rainy season, and once during the dry season.

Archie B. Japs '33BS has been named section leader for special products at B. F. Goodrich Company's research center in Brecksville, Ohio. He was formerly technical manager of the company's rocket motors plant in Rialto, California.

Dr. William C. Erickson '53PhD, associate professor of astronomy at the University of Maryland, has been appointed director of the research program at the 2000-acre Clark Lake Observatory near Borrego, California. Located in a valley in the Southern California desert 50 miles north of Mexico, the facility consists of a specially designed antenna array with which electrical energy originating from the sun and other extraterrestrial bodies can be monitored and studied. Dr. Erickson explains that the site is ideal for such observations because it is "shielded from interference by 5000 foot mountains and is inhabited only by observatory personnel and one hermit."

'34

Louis J. Tepy '34BSAg, executive vice president of the Farmers State Bank of Hillsboro, Wisconsin, was selected as one of about 25 Midwest bankers to join a delegation touring Belgium, England, Poland, the Soviet Union, Hungary and Germany from September 7th to September 28th.

Beatrice J. Dvorsak '34BA has been awarded the Labor Department's highest honor, its Distinguished Service Award. She is chief of the department's branch of occupational test development.

'35

John T. Pennington '35BS has been cited for the third consecutive year for excellent work at the U.S. Army Engineer Geodesy, Intelligence and Mapping Research and Development Agency at Fort Belvoir, Virginia. The citation is a Department of the Army Certificate for outstanding performance of his duties as chief of the Research and Analysis Division. He has been employed at Fort Belvoir since 1943.

Gordon A. Paul '35BA has been appointed vice president-accounting, international, by United States Steel Corporation. Formerly comptroller of the American Steel and Wire Division in Cleveland, he will headquarter in Pittsburgh. (See photo)

Robert H. Biron '35 LLB has been appointed to the newly created position of Vice Chancellor-Business and Finance of the University of California's San Diego campus.

Don McDonald '35BBA, a metals salesman for the National Lead Company in Chicago, has been named a member of the committee covering Chicago's Marquette Park District for the 1964 finance drive of the Boy Scouts of America.

'37

Col. John V. Painter '37BS has been appointed Chief of the Medical Service Corps of the United States Air Force Medical Service. He was previously Executive Officer at the USAF Hospital in Weisbaden, Germany.

'38

Dr. Arthur M. Olsen '38MS, Rochester, Minn., has been elected to the board of directors of Central Life Assurance Company, Des Moines, Iowa. He is a member of the board of the Mayo Association, chairman of the board of regents of the American College of Chest Physicians, and a professor of medicine at the Mayo Foundation Graduate School.

John H. Gerstenmaier '38 BME has been elected president of Motor Wheel Corporation, Lansing, Michigan, a subsidiary of Goodyear Tire and Rubber Company. He has been with Goodyear for nearly 26 years.

John C. McCool '38MS, a senior research associate in advanced rubber technology at Goodrich's research center in Brecksville, Ohio, was the author of a research paper presented at the spring meeting of the Rubber Division of the American Chemical Society.

'39

Darrell J. Inabnit '39BA has been appointed executive assistant to the president of Montana State University. He was formerly an institutional research specialist at the University of Miami.

Robert H. Miller '39BS '52PhD served as general chairman of the American Chemical Society's 9th National Medicinal Chemistry Symposium, held on the University of Minnesota campus June 22 to 24. He has been an associate professor of pharmacy at the University since 1957.

Donald H. Overholt '39BA, a major in the Army Reserve, graduated July 18 from the Army Reserve Command and General Staff College Associate course at Fort Leavenworth, Kansas, following two weeks of active duty training at the camp.

'40

Frederick G. Roth '40BSArch has been elected to membership in the College of Fellows of the American Institute of Architects. He is presently senior design coordinator of the Philadelphia firm of Vincent G. Kling.

Captain Paul L. Holmes '40BA, USN, has received his second master's degree, this time in international affairs at George Washington University. He received his previous Master's degree in education from Stanford University in 1949. He has been in the Navy since 1941, and is presently on the Staff of the Commandant, Potomac River Naval Command in Washington, D.C.

'41

Guy Anthony Renzaglia '41MED, associate professor and director of the Rehabilitation Institute at Southern Illinois University, Carbondale, Illinois, has been named chairman of the committee on standards for Vocational Services of the Commission on Standards and Accreditation of Services for the Blind.

'42

Bernard M. Leadon '42MS has been named research professor of aerospace at the University of Florida. A specialist in fluid mechanics and heat transfer, he was formerly senior staff scientist with the Convair Division of General Dynamics Corporation at San Diego, California. Prior to his employment with

Convair, he taught at the University of Minnesota for 12 years while principal investigator for contract research in experimental aerothermodynamics.

Robert G. Parr '42BA, professor in the Department of Chemistry at Johns Hopkins University, has been awarded a research grant of \$50,000 from the Petroleum Research Fund administered by the American Chemical Society.

John A. Engstrom '42BSEE has been appointed program manager for the UNIVAC 510 and 580 process control and 418 and 422 computer systems for the company's commercial operations in St. Paul. (See photo)

'43

Dr. Howard A. Andersen '43MD, consultant in medicine at the Mayo Clinic and assistant professor of medicine in the Mayo Foundation Graduate School of the University of Minnesota, is one of the authors of an exhibit which received a certificate of merit at the American Medical Association's 113th Annual Meeting in San Francisco.



Engstrom



Paul

'45

Donald G. Neth has been elected executive vice president of the Miller Publishing Company, Minneapolis. He was previously vice president and secretary.

'46

Roger S. Berglund '46BA has been named editor of *Feedstuffs* magazine by The Miller Publishing Company, Minneapolis. He was previously managing editor of the same publication.

Dr. Edwin A. Carr '46PhD, professor of education at Orange State College in Fullerton, California, has accepted an invitation to write for the Library of Education, and has prepared a monograph on "Social Studies". He is former president of the National Council for the Social Studies.

Gerald M. Fort '46MA has been elected a partner in Humber, Mundie & McClary, consulting psychologists based in Milwaukee. He was previously associate professor of student services, South Dakota State University, Brookings, South Dakota.

'47

Arthur O. Dietrich '47BBA, advertising and sales promotion manager of the

Honeywell Industrial Products Group in Philadelphia has been named international president of the Sales Promotion Executives Association. Dietrich was the SPEA's "Executive of the Year" in 1959.

'48

Frank A. Bovey '48PhD served as program chairman of the American Chemical Society's 1964 Polymer Symposium, held at Duke University in June. He is employed by Bell Telephone Laboratories at Murray Hill, New Jersey.

Vernon S. Sandager '48LLB has been named regional claim supervisor at Albuquerque, New Mexico, for Aetna Casualty and Surety Company.

Chester C. Aronson, Jr. '48BA has been named manager of the group department of The Travelers Insurance Companies' Minneapolis office. He joined the company in 1948 as a field representative.

'49

Paul S. Hermsen '49BA has been appointed to the new position of assistant program manager for UNIVAC 1107 Thin-Film Memory computer manufacturing in St. Paul. He was formerly manager of production planning/reporting.

Robert E. Lambert '49BA was elected president of the Massachusetts Mutual Life Insurance Company Agents Association during the company's Leaders Club Conference in Montreal, Canada. Lambert is a qualifying and repeating member of the Million Dollar Round Table, and has sold over \$1 million of individual life insurance annually for seven years.

'51

Robert W. Geiger '44BS '51PhD has joined the 3M Company as a senior chemist in the Central Research Laboratories in St. Paul.

'53

Robert A. Jacobsen '59BSCE has been appointed a structural engineer for the Durox Company, Lake Elmo, Minnesota. He will coordinate the company's test and design programs, supervise the preparation of shop drawings and handle special engineering problems.

Leewellyn C. Fischer '59BCH has joined the staff of the DU Pont Company's Photo Products Department Research Laboratory at Parlin, New Jersey. After graduating from the University of Minnesota, he continued his studies at Carnegie Institute of Technology.

Jay C. Anderson '63BA has been commissioned a second lieutenant in the United States Air Force upon graduation from Officer Training School in Lackland AFB, Texas.

Richard P. Hill '63BA, a second lieutenant in the Army, has completed an

ALUMNI NEWS

officer orientation course at the Army Air Defense School, Fort Bliss, Texas. The course provides instruction in the duties and responsibilities of a newly commissioned officer in the Army Air Defense Command.

'56

Richard H. Bucher '56BA, and a captain in the USAF, has been assigned to the University of North Carolina as assistant professor of Air Science.

'59

Thomas Malcolm Coakley '53MA, '59PhD, has joined Miami University, Ohio, as an assistant professor of history after several years of teaching and research in Canada and England. Coakley has spent two summers in England at the Public Record Office, the British Museum and the University of London, and was a visiting associate professor of history at Miami in the summer of 1960.

DEATHS

ArLouine H. Adams died April 19 in Minneapolis, Minnesota. She received her bachelor's degree in education in 1946 and a master's degree in 1949.

Don S. Anderson, 66, a livestock and dairy economist for the Department of Agriculture, died April 22 in Washington, D.C.

Mrs. Carl Anderson (Agnes McEachran) died June 21 in Luverne, Minnesota. She was a 1921 graduate of the University of Minnesota.

Harry Rowatt Brown, 91, who gave the University of Minnesota its electronic carillon, died in Minneapolis. A retired builder and realtor, Brown presented the English and Flemish carillons to the University in memory of his late wife, Frances Miller Brown, in 1948. He came to Minneapolis from Canada in 1884.

Fred C. Campbell, 86, Seattle attorney since 1909, died July 11. A 1901 graduate of the University of Minnesota, he was a member of the American and Washington State Bar Associations.

Jonas J. Christensen, 71, professor emeritus of plant pathology and botany at the University of Minnesota, died in June at Green Bay, Wisconsin. A faculty member for 41 years, he had received his Ph.D. degree from the University in 1925. Through his work with flax disease control, he helped Minnesota become the center of the nation's flaxseed industry. He was internationally famous for his work in other plant disease control. In 1960 he was awarded the fourth Stakman Award for scientists who have made outstanding contributions to cereal pathology.

DECEMBER, 1964

Dr. Donald C. Collins, a surgeon in Hollywood, California, for 30 years, died March 29 while at work. A graduate of the University of Minnesota, he received a master of science in pathology in 1932 and a master of science in surgery in 1934. At the time of his death he was chairman of the American Medical Association Section on General Surgery, president of the American Society of Abdominal Surgeons and of the International Academy of Proctology.

William H. Crawford, dean of the University of Minnesota dental school for 18 years, died February 20 in Minneapolis after a long illness. He served as dean of the school from 1945 until May of 1963 when he resigned because of ill health. A native of Mankato, he graduated from the dental school in 1923, and served as dean at the University of Indiana for five years before returning to Minnesota.

Dr. Arthur U. Desjardins, 80, died in Damariscotta, Maine on January 15. From 1920 to 1948 he served as head of the Section of Therapeutic Radiology of the Mayo Clinic in Rochester, Minnesota, and was a pioneer figure in the development of medical work with x-rays in the United States. He received the degree of master of science in radiology from the University of Minnesota in 1924. In 1950 the University conferred upon him a certificate of merit in appreciation of his long tenure of service as a member of the faculty.

Georgianna Adams Dillon, 49, died May 15 in New Canaan, Conn. She was the wife of Thomas C. Dillon, president of Batten, Barton, Durstine & Osborn, Inc., New York advertising agency.

Donald Gilbert died April 8 in Mason City, Iowa.

Carl C. Hanke, 66, died May 18 in Chicago, after retiring two weeks previously as Chief of the Maintenance and Operation Department of the Sanitary District of Greater Chicago. He received his bachelor of science degree in civil engineering from the University in 1920. An end on the 1918 and 1919 Gopher football teams, he played professional football after his graduation with the Hammond (Indiana) Colts, the Chicago Bears and the Chicago Cardinals. He had been with the Sanitary District of Chicago for 44 years.

Dr. Earl A. Hewitt, 72, died December 29, 1963 in Ames, Iowa. Until his retirement in 1957, he was professor and head of the Department of Veterinary Physiology and Pharmacology at Iowa State College.

J. W. Hornbrook '09BSEE died March 13 in St. Petersburg, Florida.

Dr. John LeRoy Hoskies, 74, a 1915 graduate of the School of Medicine, died

February 3 at the Veterans Administration Hospital in Roseburg, Oregon. At the time of his death, he was chief of Neuropsychiatric Service at the hospital. Previously he had been manager of the hospital from 1948 to 1953, when he took charge of Brentwood VA Hospital in Los Angeles. He later served as director of Neuropsychiatric Services in the area office of the Veteran's Administration at Fort Snelling, Minnesota. He retired from government service in 1957, but continued as a consultant.

Alvin R. Johanson died March 30 in Wheaton, Minnesota. He graduated from the University of Minnesota in 1924 with B.A. and L.L.B. degrees. He served as state senator from the 48th Judicial District for three terms - from 1943 to 1955. He was past president of the Sixteenth Judicial Bar Association, a member of both the State and American Bar Associations, and a past president of the Minnesota Law Alumni Association.

James Johnson, a 1931 graduate of the University of Minnesota with a degree in electrical engineering, was killed June 17 in the crash of a plane owned by his employer, the Arizona Power & Light Company. He lived in Phoenix, Arizona.

Guy Kenly, 73, died May 9 in Minneapolis.

Mary H. Kraft died May 30 in Ely, Minnesota. A 1904 graduate, she had taught school for forty-five years, twenty-five of them at Ely Junior College, where she continued to live after her retirement several years ago.

Lillian R. Kravig died February 14 in Minneapolis. A graduate of the University in education, she had taught for 42 years in the Minneapolis school system until her retirement from Ramsey Junior High School, where she had taught for about 20 years.



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ALUMNI CLUB NOTES

HOLIDAY PARTIES

If you are planning a party during the coming Christmas and New Year season, the Alumni Club will be happy to accommodate you, whether it's a family, company or organization party. The Club will set up its Christmas tree and hang its holiday decorations during the first week of December, so make arrangements to enjoy *your* parties at the Alumni Club this year.

CHILDREN'S CHRISTMAS PARTY

Last month we requested all Club members with small children to let us know of their interest in a Christmas party for the children to be held Friday evening, December 18. Tentatively set to begin at 5:30 P.M., the occasion will include a visit from Santa Claus, gifts, supper for the children, and a program of special Christmas songs by the University of Minnesota Glee Club. Regular dinner hours and prices will be in effect for adults. Cost will be \$2.50 per child, covering gifts, supper, and everything for the children. If you have some young ones, and will bring them to the party, call Cal right away so plans may be completed. Call 336-3031.

HOLIDAY SCHEDULE

As you will note from the following schedule, the Alumni Club will be closed on Christmas Day and New Year's Day.

The schedule for Christmas week is as follows: Dining facilities will be open for lunch on December 24, but not for dinner. The bar will close at 6 P.M. that day. The Club will not be open Dec. 25, 26, or 27. Regular hours will apply beginning again on Monday, December 28.

The Club will be open on New Year's Eve, Dec. 31, closed on New Year's Day, but will open as usual on Saturday, January 2.

DECEMBER & JANUARY EVENTS

December 2, Wednesday—Ladies Bridge Luncheon
Lunch at 12 noon. Bridge from 1:15 to 4 p.m. Lunch and bridge, \$1.75 per person. Table prizes.

December 3, Thursday—
Thursday night Special Buffet.

December 5, Saturday—
Dinner Dance night. Enjoy the really danceable rhythms of the Combo. Dinner 5:30 to 9 p.m. Dancing 8:30 to 12. No extras. Regular menu prices.

December 9, Wednesday—
Ladies Bridge Luncheon. Lunch 12 noon. Bridge 1:15 to 4 p.m. Table prizes.

December 10, Thursday—
Buffet night at the Club.

December 17, Thursday—
Buffet night at the Club.

December 18, Friday—
Santa Claus, gifts, supper and a wonderful program of Christmas music by the U. of M. Mens' Glee Club, for the young ones. Regular menus for adults. \$2.50 per child — includes gifts, dinner, and everything.

December 25, Friday—
Christmas Day — Club is closed.

December 26, Saturday—
Boxing Day — Club is closed.

January 1, Friday—
New Year's Day — Club is closed.

January 2, Saturday—
Club is open for regular hours and meals.

SPECIAL NOTE

Your program committee is endeavoring to bring you the best possible program and special event nights. Often in order to take advantage of some of the special programs available, there is no time to get out a mailing. Notices of these special programs are posted on the bulletin board. Therefore we ask that you please check the bulletin board to be sure that you won't miss any of the special events that we have planned for your enjoyment.



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Your membership will also entitle you to use of these
other outstanding Alumni Club facilities:

- THE SEMINAR—*Congenial, comfortable surroundings for a scholarly drink.*
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- Membership is open only to graduates and former students of the University who are, or who are eligible to become, members of the Minnesota Alumni Association.

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Minneapolis 14, Minn.

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Name _____

Home Address _____

City _____ Zone _____ Telephone No. _____

- I am a member of the Alumni Association
- I am not a member
- Check enclosed for \$_____

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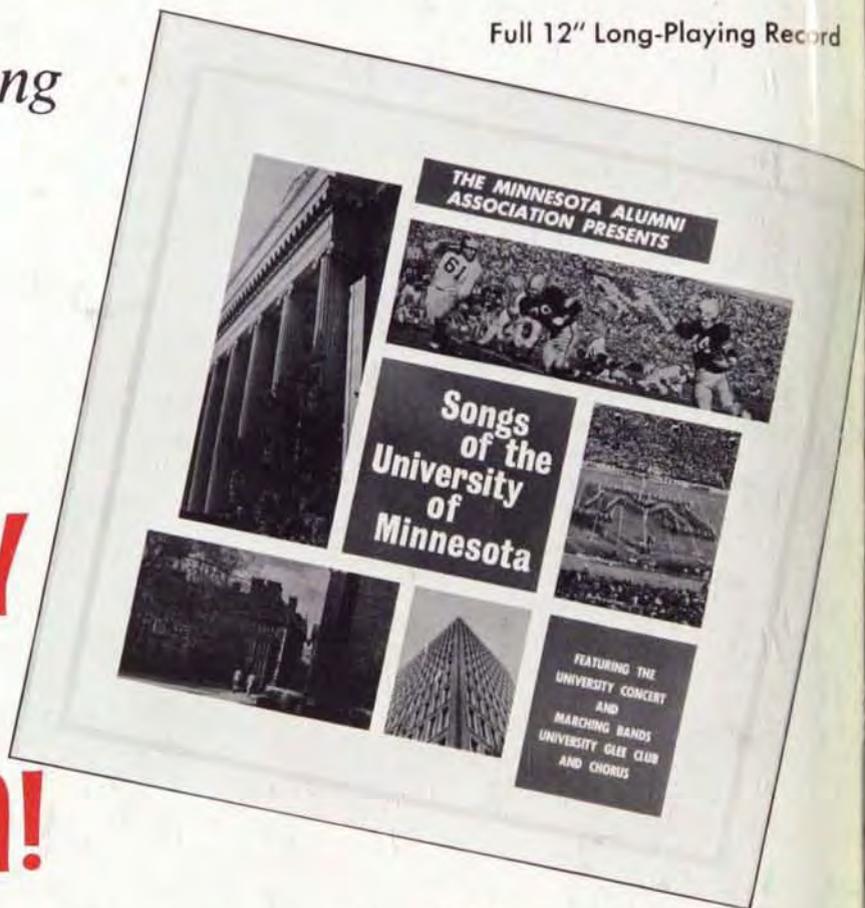
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THE UNIVERSITY OF MINNESOTA

ALUMNI NEWS

JANUARY 1965

ALUMNI IN THE
LEGISLATURE

UNIVERSITY OF MINNESOTA ALUMNI NEWS

(Our 65th Year)

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

Merrill J. Busch '58BA Editor
Edwin L. Haislet '31BSEd '33MA '37EdD Managing Editor

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THE UNIVERSITY OF MINNESOTA

FOUNDED IN THE FAITH THAT MEN ARE ENNOBLED
BY UNDERSTANDING DEDICATED TO THE ADVANCEMENT
OF LEARNING AND THE SEARCH FOR TRUTH
DEVOTED TO THE INSTRUCTION OF YOUTH
AND THE WELFARE OF THE STATE

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ALUMNI NEWS

TALENT SCOUT

This General Motors personnel expert is searching out bright young talent. He and others like him are charged with the important task of selecting the best prospects from among thousands of qualified people for jobs in industry. He conducts interviews at dozens of colleges every year.

His job calls for an analytical and understanding mind. He is very careful to get all the facts before making a decision. He looks into the background of each student—scholarship, mental attitude, previous work experience, health and scope of interests. Often the difference between the merely competent person and the future leader can be reduced to a matter of desire. It takes expert judgment to spot the real thing.

Getting its share of outstanding young men each year is vital to General Motors' future. And so, naturally, are the "talent scouts" who find them for us. They deserve much of the credit for the continuing success of the GM team.

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Making Better Things For You



“I don't like my present job, but...”

If you've said this, or even thought it, you're like many men. Their first years have been marked with success and advancement, but now they feel as if they are on a "plateau" in their career progress. They find themselves vaguely dissatisfied — unchallenged — and see themselves not fulfilling as large a role as they KNOW they can fill.

Men like these frequently feel that they would do much better if they were working for themselves. But they are often unsure how to make the break into such work.

If you feel this way, consider a future working for yourself *and* Mass Mutual.

It is a career where you meet interesting people, earn a good income and reap financial benefit in direct proportion to effort expended. And above all, it offers a feeling of real accomplishment that comes with knowing that

you have contributed to the future happiness and well-being of many, many people.

To find out what the opportunities would be for YOU just write a personal letter about yourself to Charles H. Schaaff, President, Massachusetts Mutual, at Springfield, Mass. (Be sure to tell him in what area of the United States you would most like to live and work.) It could be the most important letter you ever wrote!

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Some of the University of Minnesota alumni in Massachusetts Mutual service:

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Oliver C. Plashal, '30 — Milwaukee
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Stanley J. Kronick, '32 — Minneapolis
Robert G. Farmer, C.L.U., '37 — Dallas
Stanley J. Johnsen, '38 — Atlanta
Miles W. McNally, C.L.U., '44 — Mpls.

Richard L. Moses, C.L.U., '53 — Mpls.
Donald W. Schneider, '49 — Minneapolis
Donald L. Grimes, '50, San Francisco
Seward F. Philpot, Jr., C.L.U., '50 —
Evanston
Robert E. Lambert, C.L.U., '49 — Boston

Gary C. Zuhlsdorf, '56 — Minneapolis
Lawrence J. Schwartz, '56, Sioux City
Morris K. Spiess, '57 — Richmond
Chester D. MacArthur — Minneapolis
Raymond W. Schultz — Minneapolis
John J. Huss — Minneapolis
Francis Prinz — Fort Worth

BACK TALK

COVER

Sir:
Congratulations on the very excellent December 1964 issue of the University of Minnesota *Alumni News* from this former editor of the *Minnesota Alumni Weekly* (1923-29). I read it from cover to cover. Particularly enticing was the red Christmas wreath cover.

Leland F. Leland
St. Paul, Minn.

P.S. It was interesting to note the use of the "A Merry Christmas" logotype on page 38—it was one of those created for the *Weekly* during my editorial incumbency by famed Minnesotan Levon West (better known today as Ivan Dmitri Dmitri), famed photographer.

CONTINUING EDUCATION

Sir:
Will you please send me a copy of the reading list for Continuing Education in the Liberal Arts? I heard this discussed in a radio broadcast from Los Angeles' KNX station today, and it sounded most provocative.

Mrs. J. McSweeney
San Diego, Calif.

Sir:
An information radio program called "Storyline" over KNX radio in Los Angeles on December 4 featured one of your educators who discussed the University of Minnesota's plan for the continuing education of women and your alumni publication's excellent issue of last year which provided a list of reading programs for continuing education in the liberal arts. I would appreciate very much if you could send me 15 copies of the issue described, as our alumnae association is interested in starting such a program for our own graduates.

Mrs. S. Herkau
Los Angeles, California

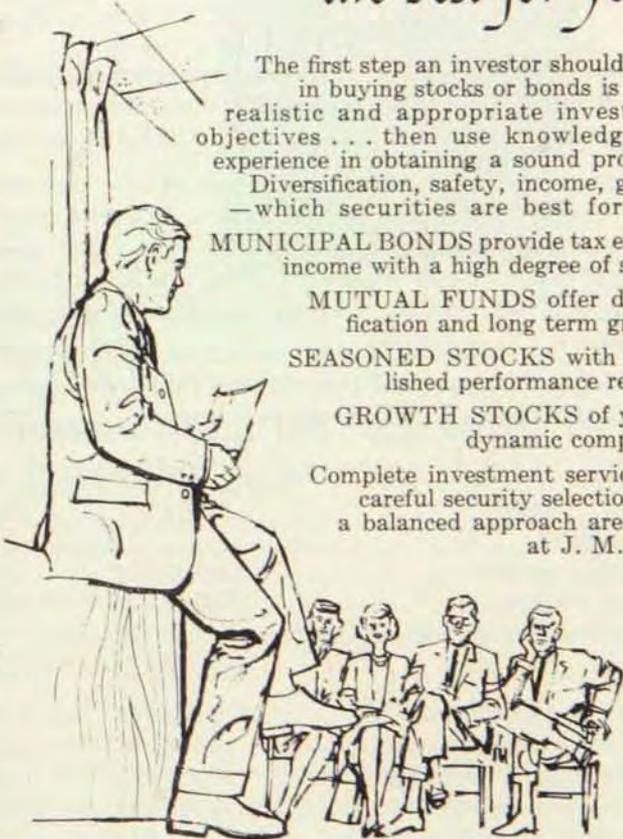
Editor's note: The June 1964 issue of the Alumni News was a special issue dealing with the subject of

continuing education, and provided reading lists for each of the special fields within the liberal arts, as a guide for those graduates who would like to keep up with recent developments in their own fields, or become more familiar with another. We have had numerous re-

quests for this issue, and we will continue to fill new requests as long as our supply of extra copies holds out. The June 1965 issue of the Alumni News will again provide such a reading program, in a revised and expanded form.

(Continued on page 7)

Which securities are best for you?



The first step an investor should make in buying stocks or bonds is to set realistic and appropriate investment objectives . . . then use knowledge and experience in obtaining a sound program. Diversification, safety, income, growth —which securities are best for you?

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Memo

From
ED HAISLET
Executive Director

TO: Association Members
SUBJECT: One Hundred Twenty-One Million Dollars —
Cost of Operating the University for 1963-64

The University's financial report for the 1963-64 fiscal year shows an increase in the number of students from 33,616 to 35,112 or 1,496 additional students over a year ago. Income and expenditures went from \$105,901,883 to \$120,996,183, an increase of over fifteen million dollars.

The major source of income for support of the University is from legislative and state Funds, thirty-nine and one-half millions or 32.7% of the total budget. While dollar-wise, the University is receiving more money from state funds, percentage-wise it has been dropping each year since 1960-61 when it received 37.8%, to 35.6% in 1961-62, and last year 34.1%. Monies received from the Federal Government this year have been more clearly identified than before.

The summary of sources and expenditures for the fiscal year 1963-64 as compared where possible with the figures of 1962-63 are as follows:

SOURCES OF UNIVERSITY INCOME

Item	1962-63	Percent	1963-64	Percent
From the State				
State Appropriation	\$27,910,764	26.3%	\$30,137,901	24.9%
Indigent Patients	4,143,534	3.9	4,695,391	3.9
Special Projects and Research	4,203,346	3.9	4,677,242	3.9
	<u>\$36,257,644</u>	<u>34.1%</u>	<u>\$39,510,534</u>	<u>32.7%</u>
From Federal Government	\$ 2,963,790	2.7%	\$26,591,688	22.1%
From Trust Funds	24,758,368	23.8%		
From Auxiliary Enterprises	16,056,223	15.1	17,881,472	14.8
From Sales and Services	13,751,922	13.9	15,601,447	13.0
From Student Tuition and Fees	10,394,057	9.8	11,695,703	9.9
From Corporations, Foundations, Individuals and Others			8,117,653	6.2
From Intercollege Athletes	1,719,876	1.6	1,597,684	1.3
	<u>\$105,901,883</u>	<u>100.0%</u>	<u>\$10,996,183</u>	<u>100.0%</u>
For Teaching, Research and Related Activities				
Instruction and Research	\$26,667,902	25.1%	\$29,555,934	24.5%
Libraries	1,596,499	1.5	1,773,624	1.5
Activities Relating to				
Instructional Depts.	12,137,771	11.4	13,559,740	11.2
Extension and Public Service	8,304,765	7.8	9,087,858	7.5
	<u>\$48,706,127</u>	<u>45.8%</u>	<u>\$53,977,146</u>	<u>44.7%</u>

Budgeted and Sponsored					
Research	\$21,947,149	20.7%	\$25,331,625	20.9%	
Auxiliary Enterprises	15,984,399	15.1	17,293,763	14.3	
Physical Plant Operations	6,912,884	6.5	7,533,291	6.2	
General University expense	5,650,754	5.3	6,257,368	5.2	
Student Aid	1,931,285	1.8	1,887,291	1.6	
University Administration	1,442,466	1.6	1,773,742	1.5	
Transfers and Adjustments	3,326,808	3.1	6,765,350	5.6	
	<u>\$105,901,883</u>	<u>100.0%</u>	<u>\$120,996,183</u>	<u>100.0%</u>	

A complete financial report of the University will be mailed to you upon request to the office of the Vice President for Business Administration.

Sincerely,

Ed Hauslet



LETTERS

(Continued from page 5)

GIVING

Sir:

Private giving has, in the past, been the very back-bone of support for charitable institutions of all kinds, as well as university scholarship funds. On November 3, 1964 the people of this country issued a mandate which clearly told us that they were rejecting that kind of giving in favor of womb to tomb care by our Federal Government.

In the past, we have been extremely generous in our giving to many private charities. Since November 3, we have made a re-evaluation. We have decided to let the federal bureaucracies care for those who voted for socialistic charities coupled with immorality, ever-encroaching Federal Government, and fewer and fewer personal freedoms. We are forced to pay taxes to support this folly, but the joy of giving to help a fellow human being is gone, so our giving is, as of this moment, reduced to NOTHING!

Alice S. Arntsen (Mrs. E.B.)
Woodside, California

WHEN YOU JOIN THE MINNESOTA ALUMNI ASSOCIATION

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About 7¢ a day if you are under 25, up to about 20¢ a day between ages 40 and 45—pennies more at higher ages.

*Provided you are under age 61, and not a resident of New Jersey, Ohio, Texas or Wisconsin.

THE MINNESOTA ALUMNI ASSOCIATION

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Please send me information on MAA Group Life Insurance Program.

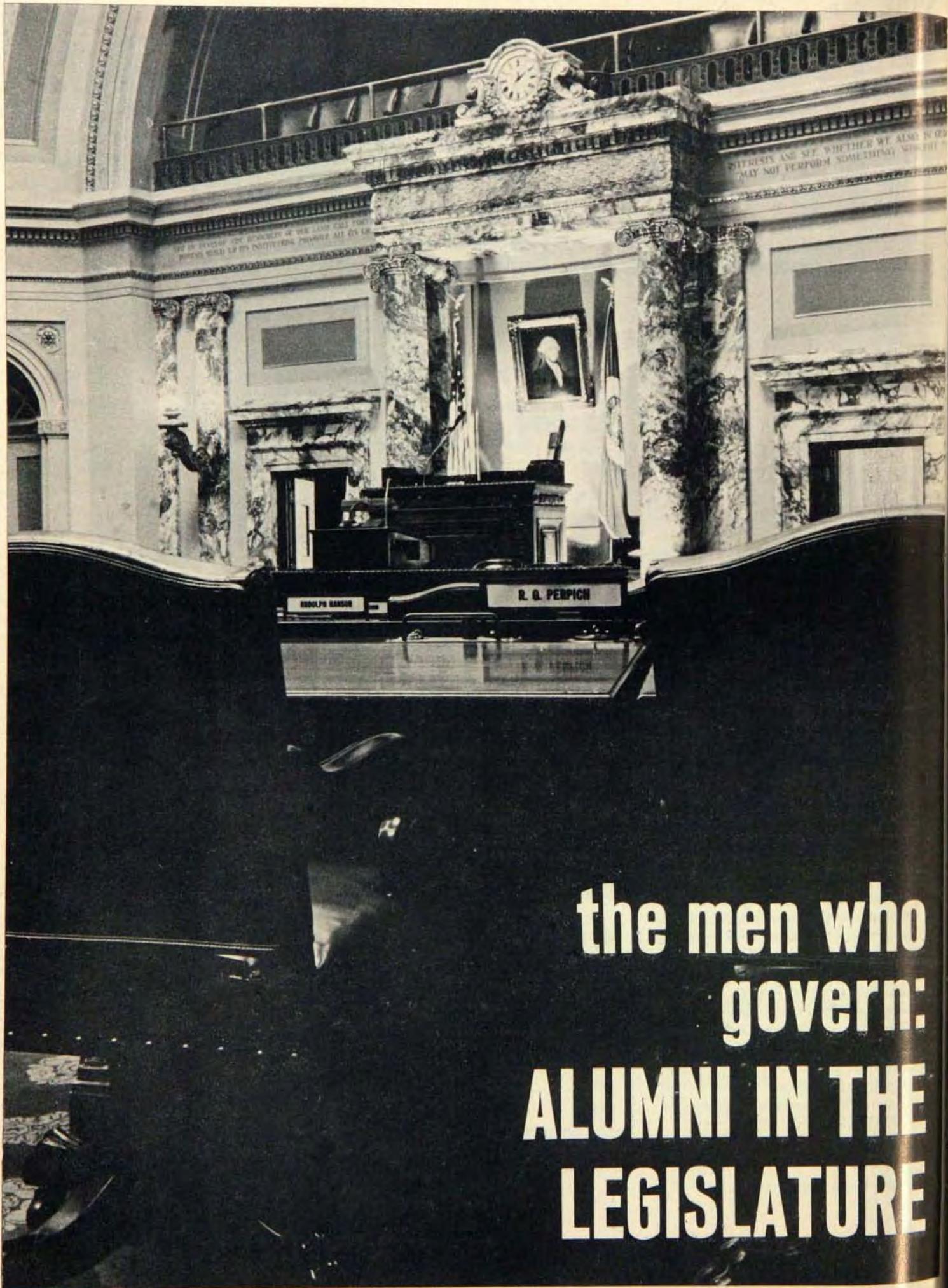
NAME _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

CLASS, NO. OF YEARS AT U of M _____

I am a member of the Association in good standing. My serial number is _____



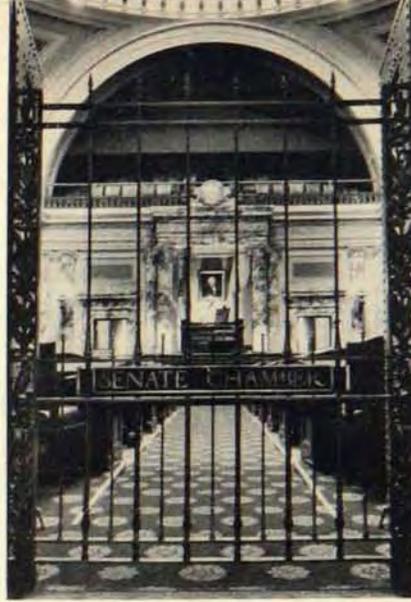
the men who
govern:
**ALUMNI IN THE
LEGISLATURE**

Each legislative year the ALUMNI NEWS conducts a survey of recently-elected Minnesota State Legislators to determine the number who are also alumni of the University of Minnesota. Results of this year's questionnaire, sent to every member of the Legislature, indicate that there are presently 34 alumni serving in the Senate and another 62 in the House of Representatives.

Two other alumni until recently also served the governor - Val Bjornson '30BA, treasurer, and Walter Mondale '56LLB, attorney general. Within recent weeks, however, Mondale has been appointed to fill the U.S. Senate vacancy left by another alumnus, Hubert Humphrey '39BA, who will shortly assume the Vice-Presidency of the United States.

Following are the names of University alumni and the districts they will represent in the next biennium of the Minnesota State Legislature. The district numbers are in boldface type.

3: Robert R. Dunlap '41LLB, Plainview; **4:** Harold G. Krieger '51-'52, Rochester; **5:** P. J. Holand '24-'25, Austin; **8:** Harold S. Nelson '11 LLB, Owatonna; **9:** Rudolph Hanson '35BA '37LLB, Albert Lea; **12:** Michael E. McGuire '52LLB, Montgomery; **13:** Paul A. Thuet '37BS '39LLB, South St. Paul; **16:** Stanley W. Holmquist '36BS '40MA, Grove City; **17:** John M. Zwach '33BSEd, Walnut Grove; **18:** W. J. Franz '31BBA, Mountain Lake; **19:** John L. Olson '58BSAg, Worthington; **24:** C. J. Benson '31LLB, Ortonville; **27:** Keith F. Hughes '62LLB, St. Cloud; **28:** C. C. Mitchell '15-'18, '23LLB, Princeton; **29:** Glen W. Swenson '35LLB, Buffalo; **33:** Alf Bergerud '27LLB, Edina; **34:** Mel Hansen '40BA, Minneapolis; **35:** Wayne G. Popham '51BSL '53LLB, Minneapolis; **38:** Donald O. Wright '12-'14 Minneapolis; **40:** Harold Kalina '51BSL '53LLB, Minneapolis; **41:** Frank E. Adams '37BSEd, Minneapolis; **42:** Jack Davies '54BA '60LLB, Minneapolis; **45:** Nicholas D. Coleman '50, St. Paul; **46:** Karl F. Grittner '59MA, St. Paul; **47:** Edward G. Novak '37, '39, St. Paul; **48:** Leslie E. Westin '40BSEd, St. Paul; **49:** Wendell Anderson '54BA '60LLB, St. Paul; **51:** Vernon S. Hoiium '55BA '59LLB, Columbia Heights; **53:** Gordon Rosenmeier '28BSEd, Little Falls; **55:** Cliff Ukkelberg '27BSAg, Clitherall; **56:** W. B. Dosland '54LLB, Moorhead; **62:** Thomas D. Vukelich '57MAEd '50BS, Gilbert; **64:** John H. McKee '36-'37, Bemidji; **67:** Donald Sinclair '24BA, Stephen.



Nelson '11LLB
Dist. 8
Owatonna



Hanson '35BA '37LLB
Dist. 9
Albert Lea

The Senate



McGuire '52LLB
Dist. 12
Montgomery



Franz '31BBA
Dist. 18
Mountain Lake



Benson '31LLB
Dist. 24
Ortonville



Hughes '62LLB
Dist. 27
St. Cloud



Bergerud '27LLB
District 33
Edina



Hansen '40BA
Dist. 34
Minneapolis



Popham '51BSL '53LLB
Dist. 35
Minneapolis



Davies '54BA '60LLB
Dist. 42
Minneapolis



Grittner '59MA
Dist. 46
St. Paul



Hoiium '55BA '59LLB
Dist. 51
Columbia Heights



Dosland '54LLB
Dist. 56
Moorhead



Sinclair '24BA
Dist. 67
Stephen



The House of Representatives

1: Clinton J. Hall '53BSL, Rushford; **2:** Donald McLeod '49-'52, Lewiston; **3:** Lester A. Howatt '28SchAg, Lake City; **5:** Helen E. McMillan '31, Austin; Al Falkenhagen '23BSAg, Kasson; **6:** Roy L. Voxland '22SchAg, Kenyon; **11:** C. A. Johnson '20LLB, Mankato; **13:** Raymond Pavlak '42-47, South St. Paul; Walter K. Klaus '36, '57, '59, Farmington; **15:** Harold R. Anderson '36BS, North Mankato; **17:** Ivan Stone '30BSAg, New Ulm; **18:** George Mann '50-'51, Windom; **19:** Don Mitchell '28, Round Lake; Wendell O. Erickson '51BS, Hills; **22:** Curtis B. Warnke '52-'55, 63, Wood Lake; **23:** Wallace F. Gustafson '50LLB, 58BSL, Willmar; **24:** Carl M. Iverson '15-'16, Ashby; **25:** Art Engelbrecht UMM, Alexandria; **27:** Marvin C. Schumann '29-'31, Rice; Robert Mahowald '43-'44, St. Cloud; **29:** Victor N. Jude '51-'53, Maple Lake; **30:** Linn Slattengren '60BA '64LLB, Brooklyn Center; **31:** John A. Yngve '49LLB, Plymouth; Salisbury Adams '45BMEtE, Wayzata;



Hall '53BSL
Dist. 1
Rushford



Howatt '28SchAg
Dist. 3
Lake City



McMillan '31CLA
Dist. 5
Austin



Falkenhagen '23BSAg
Dist. 5
Kasson



Anderson '36BS
Dist. 15
North Mankato



Stone '30BSAg
Dist. 17
New Ulm



Mitchell '28
Dist. 19
Round Lake



Erickson '51BS
Dist. 19
Hills



Warnke '52-'55, '63
Dist. 22
Wood Lake

33: Otto Bang '53BA, Edina; **35:** Gary W. Flakne '56BSL, Minneapolis; Lyall A. Schwarzkopf '53BA, Minneapolis; **36:** Thor Anderson '64LLB, Minneapolis; **37:** Harold J. Anderson '38-'39, Minneapolis; George A. French '25LLB, Minneapolis; **38:** George F. Humphrey '46MA, Minneapolis; Richard H. White '39LLB, Minneapolis; **39:** Robert Latz '52BSL '54LLB, Minneapolis; **40:** Stanley J. Fudro '40-'43, Minneapolis; Edward J. Tomczyk '41, '48, Minneapolis; **41:** Alpha Smaby '55BA, Minneapolis; **42:** Martin Olav Sabo '61Gr, Minneapolis; **43:** Robert O. Ashbach '34-'37, St. Paul; John Tracy Anderson '49AA, St. Paul; **44:** Robert F. Christensen '37MA, St. Paul; Robert W. Johnson '47BSL '48BBA '49LLB, St. Paul; **45:** William J. O'Brien '52BBA, St. Paul; D. D. Wozniak '48LLB, St. Paul; **48:** Tom Newcome '48, St. Paul; Bruce Lindahl '48BSEd, St. Paul; **49:** Lyle T. Farmer '51MA, St. Paul; Dr. Vernon L. Sommerdorf '49BA '53MD, St. Paul; **50:** Richard W. O'Dea '40-'41, Mahtomedi; **54:** Ron Everson '51BBA, Wadena; **57:** Harold N. Johnson '54, '57-'59, Park Rapids;

58: Art Frick, Sr. '18BS, Grand Rapids, **59:** Wm. T. Grussendorf '32BSAg, Duluth; Dwight A. Swanstrom '26-'27, Duluth; **60:** Duane Rappana '48BA, Duluth;

Earl B. Gustafson '54LLB; **61:** Alfred E. France '49BA, Duluth; William H. House '38BA '63MA, Two Harbors; **62:** Peter X. Fugina '41-'42, '61-'62, Virginia; Fred A. Cina '30LLB, Aurora; **64:** Irvin N. Anderson '47, International Falls; **66:** Andrew Skaar '37-'40 SchAg, Thief River Falls; Harvey A. Wilder '30-'31, Crookston.



Gustafson '50LLB
Dist. 23
Willmar



Iverson '15-'16
Dist. 24
Ashby



Slattengren '64LLB
Dist. 30
Brooklyn Center



Yngve '49LLB
Dist. 31
Plymouth



Adams '45BMeE
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Wayzata



Bang '53BA
Dist. 33
Edina



Flakne '56BSL
Dist. 35
Minneapolis



Schwarzkopf '53BA
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Anderson '64LLB
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Minneapolis



Anderson '38-'39
Dist. 37
Minneapolis



Humphrey '46MA
Dist. 38
Minneapolis



Latz '52BSL '54LLB
Dist. 39
Minneapolis



Smaby '55BA
District 41
Minneapolis



Anderson '49AA
Dist. 43
St. Paul



Christensen '37MA
Dist. 44
St. Paul



O'Brien '52BBA
Dist. 45
St. Paul



Wozniak '48LLB
Dist. 45
St. Paul



Lindahl '48BSEd
Dist. 48
St. Paul



Farmer '51MA
Dist. 49
St. Paul



Sommerdorf '53MD
Dist. 49
St. Paul



O'Dea '40-'41
Dist. 50
Mahtomedi



Everson '51BBA
Dist. 54
Wadena



Frick '18BS
Dist. 58
Grand Rapids



Grussendorf '32BSAg
Dist. 59
Duluth



Swanstrom '26-'27
Dist. 59
Duluth



Rappana '48BA
Dist. 60
Duluth



Gustafson '54LLB
Dist. 60
Duluth



House '38BA-'63MA
Dist. 61
Two Harbors



Fugina '61-'62
Dist. 62
Virginia



Cina '30LLB
Dist. 62
Aurora



Anderson '47
Dist. 64
International Falls



Skaar '39-'40 SchAg
Dist. 66
Thief River Falls



Wilder '30-'31
Dist. 66
Crookston

LAST RESORT OF THE CROWDED UNIVERSITY

LIMITED ENROLLMENT

The rapid increase in enrollment growth at the University of Minnesota may be stemmed slightly this coming fall, when an attempt will be made to control the rate of increase by raising academic requirements for admission to two of the largest and most over-populated of the University's colleges.

The controls, announced by President O. Meredith Wilson at a press conference November 23, will restrict enrollments in the College of Liberal Arts and the General College.

Called "academically wise and physically imperative" by President Wilson, the changes in admissions policies are designed to hold total University enrollment to 42,000 students in the fall of 1965. Due to its finally reaching the limits of classroom and office space, without much major relief in sight, the University will be physically unable to handle any larger number of students.

"Even if the legislature gave us all the buildings we asked in the next biennium," he explained, "we wouldn't be able to build them fast enough to be of any use in the fall of 1965."

The new standards, including the first major revision of liberal arts

requirements for freshmen since the late 1940's, mean that the University will have to rely on other state institutions, particularly the junior colleges, to provide for a larger share of total state freshman enrollments, while the University itself concentrates its efforts on graduate, professional and Upper Division (junior and senior class) education.

Although the estimated enrollment for next fall of 42,000 is an increase of more than 3,500 from fall quarter of this year — when the University's total enrollment stood at 38,403 — President Wilson estimates that the new regulations could affect as many as 2,000 students. Adding to the gravity of the situation is his statement that the controls cannot be considered temporary.

Even with this "controlled growth", an increase in total enrollment of the size expected is no small problem. Wilson said of these new students that "we will stop and work with them as well as we can. With a year's time to prepare for them, we are confident we can take care of them."

Under the new standards for admission to the College of Liberal Arts (CLA), freshman applicants

must have a College Aptitude Rating (CAR) of 50 or above for admission. The CAR threshold presently in effect for the college is 40. (The CAR is an average of the high school percentile rank and Minnesota Scholastic Aptitude Test percentile scores.) In effect, the new rule means that freshman applicants will have to rank in the upper half of all freshmen applying.

It is estimated that students falling behind the new CAR requirement of 50 would have only one chance in five of achieving a "C" average in CLA, Wilson said.

Current enrollment within the College of Liberal Arts is nearly 13,000 students.

General College (GC) will tailor its policies next fall so that total enrollment will not exceed 4,000 freshman and sophomore students.

Current enrollment in GC is 3,675. The college will eventually attempt to realize its potential as an experimental unit by cutting overall enrollment to 3,000, according to Wilson. It currently accepts almost 100 per cent of all applicants, and being an experimental unit, it attempts to accept equal numbers of students from each percentile rank between 0 and 50. Not all students who fail to fulfill the

new admission requirements will be able to enter General College, therefore, because this would result in an overly large number of students in the percentile rankings from 40 to 50.

The General College will continue to require only a high school diploma as before. Wilson explained that a conservative estimate of 4,800 students had been predicted for the two-year college by the fall of 1965, if not controlled.

If applications for new freshmen admissions exceed the total of 4,000 now set, applicants to be admitted will be selected according to a pattern which will retain the distribution of ability levels that has prevailed for a number of years.

In this way, Wilson said, the General College will maintain its present program of providing post-high school education particularly suitable for students who seek a two-year program as well as for those who enter the college to prepare for additional education beyond that available in the two-year school.

Students who cannot be enrolled in fall quarter, he added, will be considered for admission in winter or spring if space permits.

The total enrollment limit of 42,000 was set on the assumption that the 1965 legislature will grant the University's full budget request of \$106.5 million for the coming two years, President Wilson said. However, if large cuts are made in this budget request, admissions restrictions may become even more severe. During the last legislative session, the state Legislature cut the University's building request by 70 per cent, from \$21 million to \$6 million. "We know the legislature is aware of our educational needs and we are hopeful the cuts won't be as severe as last time," he said.

The University's administration had originally considered controlling growth in one-third of the University's colleges rather than just two.

One of those so considered was the College of Education. However, closer study revealed that this college enrolls only about 200

freshmen annually, with most of its students concentrated in Upper Division courses. It was eventually decided that limiting so small a freshman enrollment would be of little help.

"We found that the strains don't come in the technical, engineering or agricultural areas," Wilson said. "Even if the enrollment increases in these colleges next year, we can take care of those students."

"The continued strain has been in the College of Liberal Arts and the General College. Since I've been at the University, the College of Liberal Arts has grown from 7,000 to about 13,000. One of the main reasons for the growth rate in our freshman and sophomore classes has been a reduced dropout rate. And this is one increase we want to continue."

The statistics bear out the President's remarks. Contrary to the prevailing popular belief that society is science-oriented, the Institute of Technology (IT) has increased in size by only 10 or 12 percent since 1960, while CLA's size has almost doubled. IT, which encompasses architecture, engineering, chemistry, physics and mathematics, currently enrolls 3,349 students, compared to last year's 3,177.

The decision to concentrate the controls in CLA and General College was based in part upon a report and recommendation prepared for President Wilson by the General Assembly of the CLA faculty.

This report indicated that the College faces a number of problems:

- Experience of CLA in recent years shows that about one-third of its Lower Division students (approximately 1,900 currently) are dropped for scholastic reasons or leave while on academic probation.

- "The College does not possess the budget, the faculty, or the physical facilities necessary to provide a high quality education for unlimited enrollment," the report stated, and added that such resources probably will not be available in the short run.

- The report said that CLA's faculty-student ratios are considerably less than optimal. Optimal ratios

are considered to be one faculty member for every 10 undergraduates in non-laboratory courses, one for every 12.7 undergraduates in laboratory courses and professional work, and one for every 6.3 graduate students.

Actual CLA ratios for fall of 1963 were one to 30.2 for undergraduates and one to 11.5 for graduate students.

The report said, "High quality education is dependent upon improving the current CLA ratios.

"If enrollments were to increase markedly, these optimal ratios would not be attained even if monetary resources were provided, because additional qualified faculty are not readily available.

"Moreover, even if we could attract the faculty, we could not house them because of a current shortage of office space."

Introducing heavier teaching loads is not a solution and would be self-defeating, the report continued, because in the competitive recruiting market, heavy teaching loads are a distinct handicap.

Another limiting factor is a critical shortage of laboratory space in some CLA departments.

The faculty report said that "at the moment general purpose classroom space is not a critical problem for CLA assuming much heavier late afternoon scheduling, but it could well become one if other units in the University accelerate their expansion." The report dismissed possible use of audio-visual aids, closed circuit TV and programmed learning methods as being "too expensive."

What now happens to those students who become ineligible for admission to the College of Liberal Arts under the new requirements?

There are a number of alternative routes open, President Wilson explained.

The first is an expanded summer school program. In the summer of 1965, the University will accept, for enrollment in the College of Liberal Arts, beginning freshmen who qualify for admission to the college under the standards appli-

cable in the fall of 1964 — in other words, under "pre-control" standards.

Students so admitted during the summer quarter, and who achieve a satisfactory grade average when registered for a credit load of not less than 12 credits, will be allowed to continue in the College in the following fall quarter.

President Wilson explained that the University "feels an obligation to students with a CAR of 40 who planned to come to the University next fall. We know the change in rules will cause many disappointments. To help overcome this, the University will offer a suitable program of first quarter freshmen courses in the College of Liberal Arts in summer, 1965."

Another alternative is an increase in the number of college residence credit courses for liberal arts freshman students in the evening program of the General Extension Division, which will also offer more liberal arts courses suitable for college freshmen over KTCA television.

Students who are registered for 12 credits or more of liberal arts courses offered by this Division, and who are making a satisfactory grade average, may apply for admission to the College of Liberal Arts.

Also next fall, the General College will continue to accept a proportionate share of its total number of students from those whose CAR score falls between 40 and 50. This will provide a means of entrance to the University for some students who will be excluded from CLA by the CAR threshold. However, President Wilson made it clear that the General College will not be allowed to become a college for students with CAR's ranging from 40 to 50.

"The General College," he said, "is an experimental college which needs a balanced student body with various levels of ability to be effective. The faculty will have to find an artificial means to maintain this range."

The last, and possibly the most important, alternative, is the state's junior college system — the 11 existing ones plus a new one for 1,000

students tentatively set to open in the Twin Cities next fall.

"The University seeks to support strongly the development of the junior college system," Wilson said, and added that the General College will be further reduced in size to 3,000 students once the junior colleges are thriving. However, he warned that it would not be very healthy if the junior colleges were pictured as serving the "students left over."

"Standards at junior colleges should not be below those of the University," he said. "We ought to avoid classifying these colleges as those which fall below various percentages. It would be bad for students attending these colleges, and would damage these colleges' mission."

"The places where the control of growth is being applied (by the University) are the places where some comparable educational opportunities are available elsewhere," he added.

President Wilson said that he is certain that the University's mission will continue to be one of serving students in all four years of college and graduate school.

"The University's proportion of freshman and sophomore students to junior, senior and graduate may shift 5 per cent or so in the next few years, but I'm sure we won't change our mission," he added.

He also said that, although the limitations on enrollment are academically wise and physically necessary, he would prefer not having to emphasize grade points for admission.

"We are in a position now where we have to emphasize grade points," he said. "Yet we want to do justice to all students. But we think we will come closer to this justice by limiting our enrollment to 42,000 and doing the best we can for these students."

The new restrictions, it should be remembered, apply only to the Minneapolis campus of the University of Minnesota, which is the one most beset by the problems of staffing and a crowded plant. Duluth and Morris set their own rules, and both presently admit students

who rank 40 and above in the CAR.

The restrictions don't by any means make Minnesota unusual among other Big Ten Schools. Almost all of the other colleges within the Big Ten have had to implement some sort of growth control limitations in their liberal arts colleges.

According to President Wilson the new requirements put the University about on a par with Michigan, and make it slightly more exclusive than Michigan State and Illinois.

Not much adverse reaction was expected from state legislators to the move, and their comments in recent weeks indicate that the University's judgment of legislative sentiment was fairly accurate.

Senator Robert Dunlap, Rochester, chairman of the senate education committee, agreed that "the limitation decided upon by the University is a wise move. . . . I think this action of the University's is all to the good — for the state and for our students."

Rep. John A. Hartle, Owatonna, chairman of the house education committee, said it was obvious the time had come for restrictions on enrollment to be made.

"We have been thinking for some time about what should be done about the increasing number of students," he said. "We can't seem to keep pace with the needs. In the past, anyone could go to the University; but there comes a time when, if it is impossible to meet the needs, some restrictions must be made. . . ."

Governor Rolvaag has also indicated his approval of the University's decision.

The move is bound to have some far-reaching side effects. It has already provided a sharp impetus to the development of a proposed junior college in the Twin Cities metropolitan area; the University's Department of Athletics worries that it might cut off its quota of student athletes, many of whom enroll in General College; and it has given rise to renewed speculation on the establishment of a liberal arts college on the St. Paul campus

(Continued on page 32)

*this is a
university*



CULTURE

fourth in a series

To the stage of Northrop Auditorium on the Minneapolis campus of the University of Minnesota have come the greatest artists in the world, some of them many times. One of the best-loved of these came back to Northrop in November for the 20th time, this time to say goodbye. Marian Anderson, whose magnificent and moving voice lifted her out of the Philadelphia ghetto where she was born and made her the first lady of the world, displayed again her rare power to seize an audience by its collective lapels and take it with her inside the music which she so deeply feels. The instrument itself, now grown old, may have lacked some of its former glory, but Miss Anderson did not. Her presence was as imposing as ever, her bearing as queenly, and it was difficult to tell which was more monumental—the woman or her career.



FACULTY CLOSE-UP

WILLIAM C. ROGERS Director of the State Organization Service and the World Affairs Center of the General Extension Division, and also a professor of political science, Rogers began his expansive career in Manhattan, Kansas. He received his B.A., M.A., and Ph.D. (all in political science and international relations) from the University of Chicago, the last in 1943. From 1945-47 he was a lecturer in international relations at Chicago, leaving to become a research associate in international administration at the University of Virginia. In 1948 he was appointed associate professor of political science at Western Reserve University. He left that post after a year to come to Minnesota, where he assumed the positions he now holds. Since 1951 he has also been director of the Program of Information on World Affairs sponsored by the Minneapolis *Star*, and editor of the program's annual, the *World Affairs Study Guide*. In 1958 he led a study group at the University of Geneva, and from 1958 to 1959 served as a consultant to the University of Pittsburgh's Graduate School of Public and International Affairs. The World Affairs Center, which he heads, was established in 1949 by former president James L. Morrill to extend the world affairs curriculum of the University throughout the state. Rogers is also chairman of the University of Minnesota Peace Corps Committee and chairman of the committee on research of the National University Extension Association.

WILLIAM ANDREW McDONALD Professor of classics and recently appointed director of the College of Liberal Arts Honors Program, McDonald first joined the faculty of the University of Minnesota in 1948. A native of Ontario, Canada, he received a B.A. degree in classics from the University of Toronto in 1935, an M.A. in ancient history in 1936; and a Ph.D. in classical archeology from Johns Hopkins University in 1940. Prior to coming to Minnesota, he served as a staff member on excavations at Olynthus and Pylos in Greece, and in 1961 organized and directed the University's Expedition to Messenia. The liberal arts honors program, which he now heads, is considered by the college's administration to be "essential to the attraction and retention of the most able students at the University." McDonald says that the appointment of a director to guide the expansion of the program indicates to him that the University, and especially the College of Liberal Arts, "has fully committed itself to the proposition that our undergraduate students of outstanding intellectual potential deserve the very strongest academic challenge that we can provide for them." Under the program, high ability students are counseled from their first year by special faculty advisers, and are invited to participate in special freshman seminars and may elect honors sections of many lower division courses. Upper division students (juniors and seniors) are encouraged to enroll in special all-college seminars taught by outstanding members of the faculty. McDonald's other duties include serving as a member of the CLA Dean's Advisory Committee; chairman of the Arts and Letters Council of the Graduate School Research Center; member of the all-University Council on Liberal Education; and vice-president of the Foreign Language and Literature Interdepartmental Council. His avocations include singing in his church's choir, and caring for a farm he owns in northern Wisconsin.



LAWRENCE MARKUS Mathematics professor, recently returned from a year of study and research as a Guggenheim fellow at the University of Lausanne, Switzerland, Markus will supervise the newly established doctor of philosophy program in control sciences, a mathematics program leading directly to the doctor of philosophy degree in the related fields of engineering, mathematics, statistics or physics. A native of Hibbing, Minnesota, Markus received a B.S. degree in mathematics from the University of Chicago in 1942, an M.S. in meteorology from Chicago in 1946, and M.A. and Ph.D. degrees in mathematics from Harvard in 1948 and 1951, respectively. He spent 1950-51 as a Fulbright fellow at the University of Paris, where he met and married his wife; taught meteorology at the University of Chicago and at the Hanford Atomic Energy installation; was a professor of mathematics at Yale, Princeton, and the University of California, and came to Minnesota in 1957 as an assistant professor of mathematics. He has held several National Science Foundation grants for research, is a consul member of the American Mathematical Society and represents the University at the International Congress for Mathematicians. Last year, in collaboration with Associate Professor E. Bruce Lee, of the department of electrical engineering, he completed an advanced treatise on the theory of automation. In addition to this work in applied mathematics, Markus has developed what he terms a new brand of "pure abstract" mathematics. "Almost all mathematics to this date, including the so-called 'modern mathematics,' has been objective and attempts to represent physical or philosophical reality," he says. "My new abstract mathematics is subjective and non-representational. It means different things to different mathematicians."

“
conversations
with a
new dean
”

Dr. Erwin M. Schaffer, 41, was appointed dean of the University of Minnesota School of Dentistry last summer, replacing the late Dr. William H. Crawford. He received a master of science degree in dentistry from the University in 1951, with a major in periodontology and minors in bacteriology and pharmacology.

First of all, how does it feel to be appointed dean of one of the University's colleges?

That's a difficult question to answer. It's always hard to make a decision to move into administration away from teaching and research. But I'm challenged by the job and happy I made this choice.

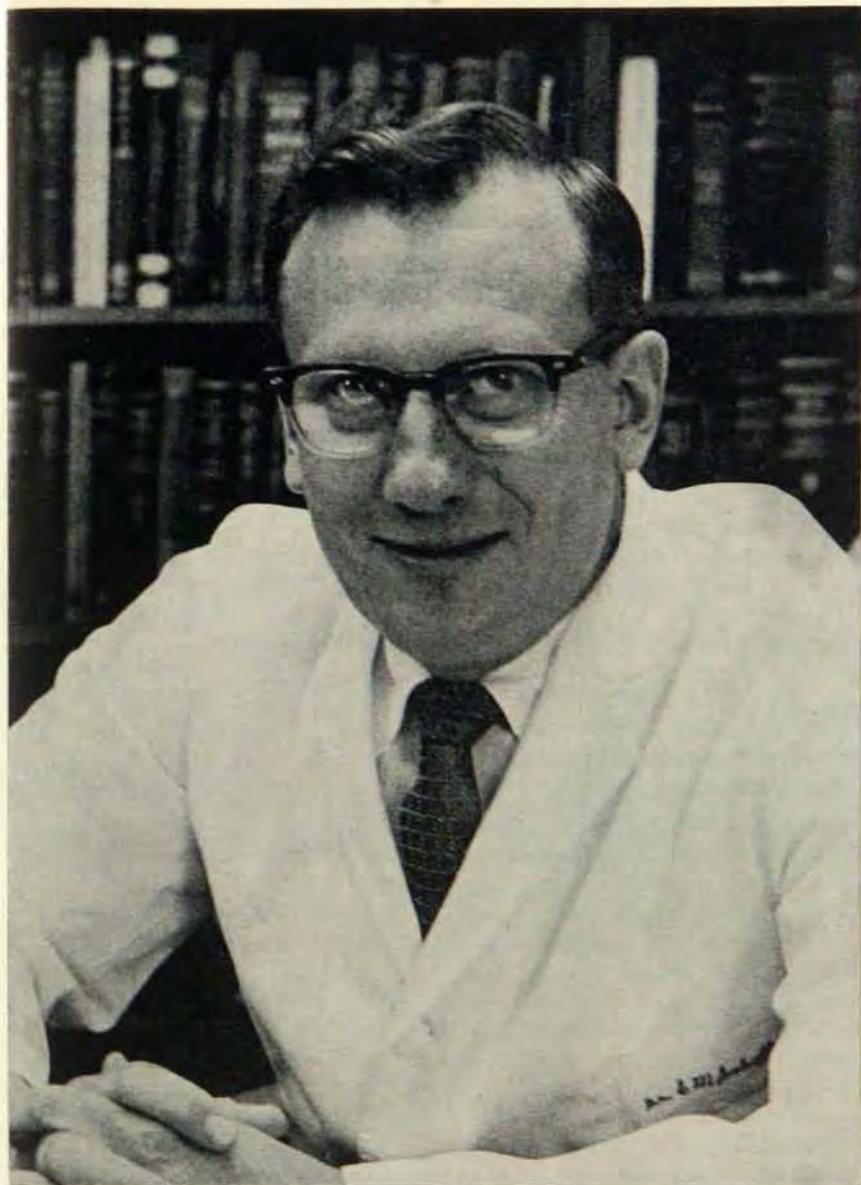
You've talked publicly several times about the changes that you feel must be made within the School of Den-

tistry. Does that mean there is something wrong with the School itself?

Not at all. We have a good school. Technically, over the years our students have been able to compete with graduates of any other school. However, we are not the best of the dental schools in the country, and don't enjoy the prominence which we once had. Basically, you might say that our product has been good, but it could be better.

What changes do you contemplate at this point for the School?

We're planning for increased activity in research. That doesn't mean that we'll neglect the teaching of the undergraduate student. I hope we can improve undergraduate instruction while we increase research



activity. This emphasis will improve instruction concomitantly. We would then be basing preventive dentistry on research, and this knowledge would be applied to our patients.

When you talk about "preventive dentistry", what exactly do you mean?

In effect, nearly all dentistry is preventive. Crown and bridge prosthesis is preventive dentistry. Before extraction you have decay — removing the diseased tissue and filling the cavity is preventive dentistry. We must go back even further than that and prevent the

caries in the first place. This can be done through applied research. Through research, we'll learn more about preventing periodontal disease (diseases of the gum) itself. To accomplish this we plan to have specialists in cariology and periodontology on our staff, who would carry on research as well as teach. We also hope to have specialists in biochemistry, genetics, microbiology and epidemiology. We need all of these people because there are more than 100 diseases that affect the soft tissue of the oral cavity, which means that research must be done on a much grander

scale than before. Our ultimate goal is to prevent all oral disease, an obviously utopian goal which would decrease the need for many dental services.

That sounds like an ambitious program. Do you anticipate any problems getting funding for it?

We hope the central administration will help us carry out these ambitious programs, because they will benefit everyone in the state.

What are the chances of getting government research grants to cover part of the costs?

I would say excellent. Actually, the School of Dentistry already receives more government grants than you are probably aware of. In fact, Minnesota ranks tenth among all of the dental schools in the country in the total amount of such grants. New York University is first, and Michigan, Illinois and Indiana are all ahead of us in the Big Ten.

How about space — will you have to expand the physical plant to accommodate your program?

As things stand, we're up against the wall. Our maximum is 110 students, which is our enrollment right now. The number of applications we receive has been increasing every year. We could increase the number of graduate students, but we're bulging there, too. And we don't have enough lab space to increase undergraduate enrollment. This is at a time, I might add, when 35% of all the dentists within the state of Minnesota are age 65 or over.

What about the relationship between dentistry and medicine generally?

That is most important. Ninety to 100 percent of all people over the age of 50 have periodontal disease. In fact, more teeth are lost after the age of 40 to diseases of the tissue surrounding teeth than to decay. Having a healthy mouth is important to the well-being of the individual, and the condition

of the oral cavity has an effect on the treatment of other physical ills. For example, if you are a diabetic and have periodontal disease, it will take more insulin to control your diabetes than if your mouth were healthy. In the expanded hospital program that we foresee for the School of Dentistry, the periodontist will play an important role in consultation and treatment. We plan to expand the program beyond oral surgery to include such things as care of handicapped or brain-damaged children. Dental work on many of these must be done under a general anesthetic. Also the repair of mutilated mouths, due to either accidents or the removal of malignancies of the oral cavity, is important, for esthetic reasons as well as functional ones. These things are not now part of the teaching function, although they are frequently met with in private practice.

We expect, too, to expand research on the prevention and repair of cleft palate conditions—in which children are born with an opening between the mouth and the nose. The percentage of such cases is high, with one child in every 700 births handicapped with some type of palate problem, and we don't yet know the causes.

There's been some mention made of your interest in geriatric dentistry. What is it, and where do you see it fitting into your program?

A program for treating older persons is largely unexplored territory. We're planning on having dental students go into rest homes with portable equipment to treat older patients, many of whom are bedridden. We need a program like this because more persons are living longer, and many of them are unable to travel to a dentist's office. We feel that it's our duty to make our students aware of their moral obligation to take care of these people. Students in the program will admittedly be working under difficult conditions, but the necessity of bringing the equipment to

the patient could lead to some inventions and developments. The difficulty is that the needs of this particular population group have never been clearly defined, so we don't know what we will find.

You're obviously going to have to increase the School's staff to accomplish all of this. Is staffing a problem?

Yes, it is. At the moment we have 111 appointments at the level of clinical instructor and above—21 full-time appointments and 90 part-time. Our biggest competitor, obviously, is private practice, but we also have a difficult time competing for staff with the Armed Services and the Veteran's Administration—principally because we can't offer such liberal retirement benefits as they can.

Do your plans for increased research activity also include work on new materials?

Yes, they do, although it is virtually impossible to appoint anyone with experience in that area. Dean Crawford was a leader in the field, and we now have Dr. Anna Hampel and Dr. J. R. Jensen working in it, but such people are scarce because their work bridges so many fields—chemistry, metallurgy, physics, and others—there aren't many with such broad training, and there are very few being trained in it.

What changes do you see in the kind of training you will be giving students in the School of Dentistry?

The basic undergraduate program will change very little except for a greater emphasis of preventive dentistry and oral biology. We'll concentrate on giving our students an adequate background for graduate level training, and try to make the curriculum exciting enough to entice more of them into research training. Our prime objective will continue to be one of training competent dentists for the state of Minnesota, but in the future we'll try to improve their background in the basic sciences so that more of

them will be motivated for further training in research.

What is your candid opinion of the future of Minnesota's School of Dentistry?

This school has the capability of being a great school, simply because it is part of a great University. Close at hand we have so many kinds of knowledge we can use: people in engineering who can measure strains and stress in denture functions; from the psychology department we can apply such tests as the Minnesota Multiphasic personality inventory test. We can use it as a preliminary investigative tool in cases where we suspect disease or pain of having a psychological origin; we have courses in educational psychology available, to aid our research specialists in becoming better teachers.

We are also fortunate in being part of a great health sciences center, which makes it possible to train some dental scientists in biostatistics and epidemiology. We have some of the best basic science departments in the world available to us, and one of the strongest and best medical schools in the country today.

We can be great because of the Mayo Clinic's fine graduate programs in dentistry. An interchange program can provide better training for graduate students.

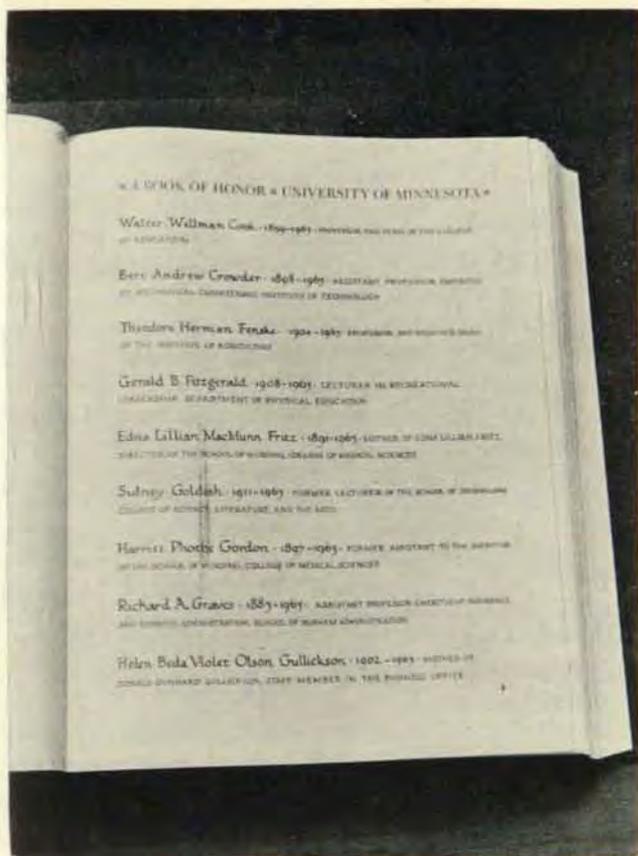
We are fortunate because we are on the same campus with all of these different disciplines within walking distance of many of them. We have more potential than any other college because we are blessed with an abundance of clinical patients by being located in the heart of a large metropolitan area.

There is no question in my mind but that ours can be the best dental school in the country—that's why I accepted this challenge.

How can the alumni help you achieve this?

There are several things the alumni can do. First of all, by re-

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THE MEMORIAL FUNDS

by *Grace Palmer*

Upon the death of a close relative, or perhaps a friend, many people often wish there were a better way to memorialize the individual who has gone than the somewhat superficial things which have become customary in our society.

If you are an alumnus or friend of the University of Minnesota, there is such a dignified and meaningful way of memorializing your friends and loved ones available to you, through one of the University's memorial funds.

Although still little-known, the use of these funds as a means of remembering a special individual has increased rapidly in the last few years.

The most widely used of these funds is called the General Memorial Fund. An individual who wishes to

pay tribute to a friend or relative through this fund may designate the area of the University's research, service or scholarship activities he wishes to aid. For example, memorials may be directed to medical research, such as cancer or heart disease research; to the All-University Scholarship Fund or to another scholarship fund aiding students in a particular field of study; or to a service fund such as the Dentistry Service Fund and the Forestry Service Fund. These examples illustrate just a few of the hundreds of possibilities. The Special Projects Program of the University is available to assist donors in choosing the particular fund that will serve the University in accordance with their wishes.

Such gifts become living memorials, through their aid to University scientists, teachers, and other staff members in building a brighter future. Many people find comfort in knowing that their contributions are helping scientists find a cure for the disease that struck down someone close to them, or are helping students complete their work in a field which was a special interest of the deceased.

A second fund, closely related to the General Memorial Fund, is called the University of Minnesota Memorial Fund. Through it, gifts in memory of University staff members—both academic and civil service—or their spouses are accepted. As with the General Fund, these memorial contributions may be directed by the donor to any area of the University.

The University of Minnesota Memorial Fund was established by the Faculty Women's Club, and is administered by a board of trustees appointed by the President of the University. Included on the board are representatives of the Duluth, Morris, St. Paul and Minneapolis campuses, plus the Women's Clubs of these campuses. When an individual is memorialized through the University of Minnesota Memorial Fund, his name, the years that mark the span of his life, and a brief description of his association with the University are inscribed in the Funds' "Book of Honor." This handsome, maroon-leather-bound volume is kept in Walter Library when it is not being displayed by a campus organization.

Through its Special Projects Program of the Department of University Relations, the University also assists in raising larger memorials for specific purposes. Such was the case last year in connection with the memorial proposed for the late Dr. Guy Stanton Ford, former Professor of History, Dean of the Graduate School, and sixth President of the University. Dr. Harold Deutsch, Chairman of the Department of History, and his colleagues, felt that a fitting memorial to Dr. Ford would be to establish and furnish a Guy Stanton Ford Library and Seminar Room in the new West Bank Social Science Building.

To raise the necessary funds for this, a letter signed by Dr. Deutsch was sent to friends and associates of the late Dr. Ford giving each the opportunity to assist with the project. The Special Projects Program saw to

(Continued on page 32)

THE UNIVERSITY

\$23 Million Increase Requested By President Wilson for University

The pressing need for faculty salary increases and the addition of more faculty members were stressed by President O. Meredith Wilson when he presented the University's 1935-67 budget request at a hearing before Minnesota Gov. Karl Rolvaag early in December.

The appropriations requested by the University for the coming two-year period total \$87.1 million, an increase of \$23 million over the amount voted the University by the 1963 legislature.

Included in the new request is approximately \$4.5 million to give present faculty members an 8 per cent increase in salary over the next two years, and another \$6.5 million for 374 new faculty members, the number which the University proposes to hire during the first year of the coming biennium. Another 210 new faculty members would be hired during the second year.

A table showing the relative positions of a dozen universities in Minnesota's class was presented to the governor by Wilson. The table indicated that Minnesota ranks 10th among them in the average amount paid professors in salary and fringe benefits, 11th in payments to associate professors, and 12th for assistant professors and instructors. President Wilson also said that the University has dropped several ranks in each case within the last few years.

Average salaries at Minnesota for full professors on a 9 to 10-month year are \$15,133; for associate professors, \$11,070; for assistant professors, \$8,894; and for instructors, \$6,711.

The budget request presented at the hearing is based on an estimated total enrollment next fall of 40,200 and 42,500 a year later. President Wilson explained that holding enrollments at this level may entail turning away as many as 2,000 applicants.

The governor indicated that he was sympathetic to the limitation of enrollment as a necessary move on the part of the University.

St. Paul Campus Requests Explained

Although Minnesota stands fifth in the nation in the market value of its farm products, the state ranks last in the percentage of state funds made available for its agricultural extension service, and despite the fact that the marketing, production and distribution of its agricultural products is nearly a \$3.5 billion business annually, Minnesota spends only .15 of 1 per cent of that income for agriculture and forestry research.

These were among the figures cited by officials of the Institute of Agriculture and the College of Veterinary Medicine in discussing the 1965-67 legislative requests with the St. Paul Area Chamber of Commerce at a meeting held Dec. 9.

Dean Sherwood O. Berg of the Institute of Agriculture, Dean William T. Thorp of the College of Veterinary Medicine, and Clinton T. Johnson, assistant vice president of business administration, explained that a total of \$10,067,150 is being asked for the Institute's 1965 building program, including \$8,895,750 for the St. Paul campus.

According to Dean Berg, research funds must be increased "if the University and agricultural experiment station are to fulfill their role as a partner in the economic growth process" of the state. A total of \$747,427 is being asked for general agricultural research in each of

the next two years, Berg said.

Other research funds requested include \$155,000 for the Rosemount experiment station; \$110,812 for soybean research; \$120,000 for the veterinary diagnostic laboratory; \$75,868 for the southwest experiment station at Lamberton; and \$20,800 for potato research. The Institute is asking a 1965-66 total of \$1,015,000 for the agricultural extension service, and \$1,201,000 for 1966-67 to continue present work and support new program proposals.

Technical Institute for Crookston?

A proposal to substitute a two-year college-level technical institute for the high school agriculture program at the University's Crookston School and Experiment Station has been advanced as part of the budget requests presented by the University to Gov. Karl Rolvaag.

Under the plan, which grew out of studies begun in 1957 which also led to the establishment of the University branch at Morris, the agriculture high school courses would be gradually phased out, beginning next fall. At that point no freshman class would be enrolled, although students presently attending the school would be assured of being able to complete their four-year courses.

The following fall, 1966, the first class of the technical institute would be admitted, estimated at 125 students.

Unlike Morris, Crookston is surrounded by colleges, and the experiment station would lend itself well to an agriculture-oriented college program. The University plan proposes a two-year program offering seven courses: agriculture-science technology, farm operations agribusiness management, accounting, marketing and merchandising, small business management, and a secretarial program. A third of the

work offered would be in the field of the liberal arts.

Enrollment is expected to grow to about 250 by the fall of 1967, and eventually to a level of about 400.

U of M Geologists Off to Antarctica

Three missing pieces to an ice-cloaked puzzle will be the object of investigation by a University of Minnesota geological expedition which left in early November for six weeks in Antarctica.

These pieces to puzzle are three separate rock outcrops that rise out of ice and snow in an area 450 miles from the South Pole where East and West Antarctica meet.

Two of these places never before have been visited by man.

Geological studies of the rock formations probably will be the final chapter in a six-year University project to find out the relationship between the halves of the vast Antarctica, which differ considerably in age and structure, according to the project director, Campbell Craddock. Craddock is an associate professor of geology and geophysics.

This relationship has been one of the secrets buried beneath the Antarctica icecap—a cap that reaches 14,000 feet in thickness.

The rock projections also are missing links in the efforts of University geologists to determine whether the Antarctic once was joined to Africa, Asia and South America.

The men who will go on this year's expedition are Gerald F. Webers, 2024 Commonwealth ave., St. Paul, a research associate in geology and geophysics who will be the field leader; Alan Rogers, 1212 Fifth st., S.E., Minneapolis, a graduate student; and Dirk Neethling, Pretoria, South Africa, who is on the staff of his country's geological survey. Webers recently completed work for the doctor of philosophy degree. Neethling will meet the University geologists in Antarctica. A National Science Foundation grant of \$45,500 will support the expedition.

Regents Shorten University's Engineering Degree Program

University of Minnesota engineering students will be able to earn their bachelor's degrees in four years instead of five from now on through action taken by the University's Board of Regents at its Dec. 11 meeting.

Shortening the bachelor's degree program from five to four years was authorized on the basis of a recommendation from the faculty of the College of Engineering, the School of Mineral and Metallurgical Engineering and the Department of Chemical Engineering, all divisions of the Institute of Technology (IT). The faculty recommendation followed several years of discussion and a year of detailed planning.

All bachelor's degree programs in the Institute of Technology now will be four-year programs except in the School of Architecture, which will continue the five-year program which is characteristic of such schools. Other IT divisions—Physics, Chemistry, Mathematics, Geology and Astronomy—currently offer the four-year bachelor degree. No changes in admission standards are involved.

William G. Shepherd, University vice president for academic administration, told the Regents that in establishing the five-year requirement in 1946, the University sought to be a leader in the direction of broadening the educational experience of students training to become engineers. Humanities and social science courses were added to the engineering curriculum, and, over the 18-year period, more than 7,000 engineers were graduated from the University under the five-year plan.

The national trend of engineering schools, however, Vice President Shepherd reported, has been toward a modernization of the four-year bachelor's program during which the student obtains his basic engineering training. Further professional specialization in a chosen area of engineering then is taken as

graduate work leading to a master's degree which the student earns by the end of his fifth year.

"In the early days of the five-year programs," Shepherd pointed out, "graduates of such programs received sizable differentials in starting salaries compared to graduates of four-year programs from other institutions. Over the years, however, the salary differential has decreased. On the other hand, an engineer with a five-year master's degree has a starting salary differential of about \$150 per month over the engineer with the baccalaureate degree."

The changeover to a four-year program, Shepherd reported, will involve a transition problem for students currently enrolled.

In general, students now in the fifth year of their training will finish the five-year baccalaureate program. Third and fourth-year engineering students will take one or two additional quarters of work beyond the fourth year of the five-year program. First and second-year students will complete their work for the bachelor's degree in four years.

Band Invited to Inaugural

Gov. Karl Rolvaag has officially invited the University of Minnesota marching band to attend the inaugural ceremonies in Washington, D.C., on January 20, and University authorities said the band will go, due to pledges of financial backing by private parties.

The governor's invitation came in a letter to President O. Meredith Wilson, in which he said that "it would be unthinkable not to invite our University band to be present when one of its alumni and the first citizen in Minnesota history is sworn in as vice president of the United States," in reference to Sen. Hubert H. Humphrey.

University Fourth Largest In Enrollment, Survey Reports

The University of Minnesota, with fall quarter enrollment of 38,403 students, held its position as fourth largest university in the United States, according to the annual survey of collegiate enrollment conducted by Dr. Garland Parker, registrar and dean of admissions at the University of Cincinnati.

In his survey of over 1,000 institutions, Parker found the University of California maintaining the No. 1 spot among universities with its 66,980 fulltime students.

In second place was State University of New York, with 60,569; City University of New York, with 48,787, ranked third.

The tally also revealed that the Big Ten really is "big," placing six of its member schools among the nation's 10 largest universities. Wisconsin was fifth, with 33,912; Ohio State, sixth with 32,737; Illinois, seventh with 30,992; Michigan State, eighth with 28,587; and Indiana, 10th with 26,199. The only

exception, other than the first three places, was ninth place, held by Texas, with 27,492.

In grand total enrollments, which include part-time and evening students, the University of Minnesota also maintained fourth place among the 10 largest with 53,794 students.

Results of the study also showed that freshman attendance was up 17.3 per cent this fall from last year at the same time, including substantially greater numbers of freshmen in the liberal arts and the pure sciences.

Of the total number of fulltime students, 38.5 per cent are in the large public universities, while the

military installations where the production was presented to U.S. Army installations.

Showboat's Season To Be Extended

An earlier opening date and an extension of the season are scheduled for the University of Minnesota Theatre's Showboat for 1965, according to Merle Loppnow, University theatre business manager. The 11 added performances will bring the season's total to 99. Last year the Showboat opened June 17 and closed Aug. 29.

This eighth season of productions on the river packet will open Tuesday, May 25, and will run through June 3, closing briefly for University final examinations, and will reopen June 11 to run through August 28.

Performances of the play or plays as yet to be selected will be held Mondays through Thursdays at 8 p.m. and Fridays and Saturdays at 7 and 10 p.m.

Shakespeare's "A Midsummer Night's Dream" and "Zoey, or Life in Louisiana" were the 1964 season's productions on the Showboat. The "Zoey" troupe recently returned from a six-week tour of European

Reading Study Center

The University of Minnesota has been named co-ordinating center for an unprecedented nationwide study of the best ways of teaching first graders to read.

To finance the study, the U.S. Office of Education has made a \$123,653 grant to pay for the University's collecting and co-ordinating functions in the study, which will include 27 separate projects involving more than 25,000 first graders in more than 1,000 classrooms.

Directing the project will be University staff members Prof. Guy L. Bond, nationally recognized reading authority, and Robert Dykstra, associate professor of education.

According to Bond, the 2-year project will appraise the various major approaches to teaching reading, including the linguistic approach, the new 44-letter "initial teaching alphabet," language-experience method, phonetic methods and other combined approaches.

large private universities carry only 13.4 per cent of all fulltime students.

"Men are still ahead but the women continue to narrow the gap between the sexes in collegiate enrollment," Parker also concludes. Among fulltime students, 1,088,596 are women, a 10.9 per cent gain, and 1,724,732 are men, a gain of 9.6 per cent over last year.



Here's a Deal!

Gopher Playing Cards

You're the winner in this shuffle! You get two decks of Maroon and Gold University of Minnesota playing cards at a jackpot price. The twin-deck carton in which they come displays the big "M". When dirty, the cards can be wiped clean with a damp cloth.

Only \$2.50 postpaid for Association members, \$3.50 to non-members.

Minnesota Alumni Ass'n
205 Coffman
University of Minnesota
Minneapolis 14, Minn.

Please send me.....packets
(number)
of twin-deck U of M playing cards.
Here is my check or money order for
\$.....to cover my order.

Name (in full).....

Street Address.....

City..... Zone..... State.....

I am a member.

CAMPUS NEWS

DULUTH

A freshman television course in **General Biology** is being offered for credit this year by the General Extension Division over WDSE-TV, Duluth-Superior educational station.

... **Dr. James C. Nichol**, professor of chemistry, has been awarded a research grant totaling almost \$50,000 by the U. S. Public Health Service for his research over the next three years in the field of electrophoresis. . . . **John Rood**, Minneapolis, who recently retired as professor of art, has donated three pieces of sculpture to UMD's Tweed Gallery. . . . According to the **Duluth Business Index**, prepared by Dr. Cecil H. Meyers, professor of business and economics, Duluth business activity rose 17 points from July to August, and for the first eight months of 1964, is running 4% ahead of the same period last year. . . . Tennessee Williams' play, "Streetcar Named Desire," opened the 1964-65 **UMD Theater season** October 29 in Old Main Auditorium. Future plays to be performed include Sartre's "No Exit," and The newly completed 100,000 **UMD** Beckett's "Waiting for Godot." . . .

Campus Club was dedicated and officially opened at a dinner October 20. The building includes a main dining room which will seat more than 100 persons, a lounge-conference room, and two conference-dining rooms. Use of the Club will be on a membership basis.

The **University String Quartet** opened its 10th season Dec. 3 with a concert in Recital Hall, Humanities Building. The quartet includes James Smith, associate professor of music at UMD, and his wife, Janet, on violins, Ralph Anderson on viola, and Robert House, professor and head of UMD's Department of Music.

The annual **UMD Christmas Concert**, featuring the concert choir, orchestra ensemble and soloists, was presented December 10 in Kirby Student Center. Taking part

was the 60-voice concert choir, under the direction of Allen Downs; the 85-member University Chorale, directed by Judith Knowles, assistant professor of music; and a small baroque ensemble conducted by Robert House, professor and head of the Department of Music, and James Smith, associate professor of music.

Sculpture by John Rood and drawings by four new faculty members of the Department of Art will be featured at the Tweed Gallery, running through Jan. 10.

ST. PAUL & MORRIS

Huldah W. Curl has been appointed arts extension coordinator, for continuing education in art. She will provide leadership in the development and conduct of art extension programs in counties throughout Minnesota. . . . **Charles J. Christians** has been appointed assistant professor and extension animal husbandman, part of the specialist staff of the Cooperative Agricultural Extension Service. . . . **Dean Sherwood O. Berg** of the Institute of Agriculture, in a review of agricultural problems and opportunities, said that in spite of declining numbers of farms and farmers, the contribution of Midwest agriculture to the total economy has never been stronger.

As proof, he indicated that income generated by Minnesota's agricultural sales rose from \$820 million in 1947 to over 1.5 billion in 1961. He added that Minnesota businesses related to agriculture will provide 1.8 billion of income in our state economy by 1975, compared to about \$1.1 billion today. . . . An eight-week **agricultural short course** in "Principles for Successful Farm Operation" will be held Jan. 4-Feb. 26 at the West Central School of Agriculture on the University of Minnesota, Morris campus. . . . **John M. Foschia, Jr.**, former marketing specialist for the U.S. Department of Agriculture, has joined the specialist staff of the Cooperative Agricultural Extension Service as an instructor

and extension economist in marketing. . . . A new position of Director of International Agricultural Programs for the Institute of Agriculture and the College of Veterinary Medicine. Named to the position was **John Blackmore**, Amherst, Mass., who has been head of the department of agricultural and food economics at the University of Massachusetts since 1959.

William P. Martin, head of the Department of Soil Science in the Institute of Agriculture, has been elected vice president of the Soil Science Society of America for 1964-65. He had previously been named a Fellow in the Soil Conservation Society of America, the highest award given by that organization. A specialist in soil microbiology and fertility, he has been at the University since 1954. . . . Changes in the transportation cost relationship of wheat and wheat flour may affect the future of the Twin Cities as one of the nation's major flour milling centers, according to a recently completed study by **J. D. Hyslop** and **R. P. Dahl**, agricultural economists at the University of Minnesota. Millers located closer to major consuming areas are increasingly able to deliver their products at lower transportation costs than their Minnesota competitors, the study reveals. . . . **Gerald R. Miller**, former extension agronomist at Purdue University, has been named to the specialist staff of the Cooperative Agricultural Extension Service of the University. As extension agronomist and assistant professor, he will be responsible for developing extension programs in the area of weed control.

For the second consecutive year the University has received a grant from the National Science Foundation to conduct a **biology institute** on the St. Paul campus for high school biology teachers. The grant this year was for \$149,200, and will permit 25 teachers from throughout the country to pursue their graduate studies. . . . **Thomas H. King**,

professor of plant pathology and physiology has begun a two-year assignment as project manager of the United Nations Special Funds Project to develop a rice improvement program in Thailand. . . . Three staff members have left for Santiago, Chile, to begin developing an Agricultural Extension Service in that country. The group includes **John Blackmore**, director of International Agricultural Programs for the Institute of Agriculture and College of Veterinary Medicine; **Roland Abraham**, associate director of the University's Agricultural Extension Service; and **Charles Simkins**, newly-appointed mission chief for the project.

MINNEAPOLIS

Gregory P. Stone, professor of sociology, will be the United States representative at the meeting in Warsaw, Poland, of the newly organized Commission on the Sociology of Sport. The meeting will be held Jan. 4 and 5. . . . **Allen Tate**, poet, critic and University of Minnesota English professor, has been elected to the American Academy of Arts and Letters, the country's highest honor society of the creative arts. He is also a Fellow in American Letters of the Library of Congress. . . . **Allen Downs**, professor of art, has won the Film Comment magazine \$500 Anniversary Award for a proposed film, "The Phonograph." In 1960 Downs won first place in the creative experimental short subject class of the San Francisco International Film Festival with a short entitled "Pow Wow."

Representatives of Minnesota Human relations groups took part in the University's second annual **Human Relations Information Day, held Dec. 8.**

Sir John C. Eccles, Australian research physiologist and one of three winners of the Nobel prize in 1963 for research on nerve functioning, delivered the **Elias P. Lyon lecture** at the University Nov. 24. The lectureship was established to honor Dr. Lyon, dean of the School of Medicine and head of the Department of Physiology from 1913 to 1936.

THE ALUMNI

Two At-Large Members Named to MAA Board of Directors

Two new at-large directors have been appointed to the board of the Minnesota Alumni Association. Dr. John H. Aldes '37MD, Los Angeles, California, and Melvin C. Steen '29LLB, New York, N.Y. will assume the positions immediately.

Dr. Aldes received his education in the University of Minnesota Medical School and spent his residency in orthopedic surgery at Gillette Hospital in St. Paul. Presently director of the Ben R. Meyer Rehabilitation Center at the Cedars-Sinai Medical Center in Los Angeles, he has previously held appointments at a number of hospitals, including O'Reilly General Hospi-



Aldes

tal, Springfield, Mo.; Letterman General Hospital, San Francisco; Birmingham VA Hospital, Van Nuys, Calif.; and Cedars of Lebanon Hospital, Los Angeles. He is also a consultant to a number of rest homes and medical centers.

Melvin Steen, who graduated from the University in 1929, and was admitted to both the Minnesota and New York Bars in 1931, has been a partner in the law firm of Cleary, Gottlieb, Steen & Hamilton since 1946. The firm maintains offices in New York, Washington, D.C., Paris, France, and Brussels, Belgium. While at the University he



Steen

was note editor of the Minnesota Law Review and Order of the Coif. In 1951 the Republic of France decorated him a chevalier of the French Legion of Honor.

The by-laws of the Minnesota Alumni Association permit the board of directors to appoint six at-large members in order that proper geographical balance can be maintained.

The remainder of the board is composed of 20 elected members — five each year for a four-year term and the 14 presidents of the constituent groups.

President, Director Visit Wisc. Chapters

Three Wisconsin chapters of the MAA welcomed national president Judd Ringer and executive director Ed Haislet during a three-day tour of the Badger state from November 18 to November 20.

First stop on the trip was Eau Claire, where the MAA officials attended a dinner meeting of the West Central Wisconsin Alumni

chapter, held at the Elks Club in Chippewa Falls. Chaired by chapter president Jim Garvey, the meeting was attended by 62 alumni, who heard Haislet discuss the changing face of the University's campus, and Ringer describe the work of the MAA and its plans for the future. Three new directors were elected during the business portion of the meeting: Mrs. Frederick Melms, Menominee; Mrs. Seymour Cray, Chippewa Falls; and Kenneth C. Trygg, Eau Claire.

The following day's meeting was with the Fox River Valley chapter at Menasha, attended by 28 alumni. Haislet and Ringer again spoke, and election of officers for the coming year was held. Named to positions in the chapter were Kenneth Enloe, president, succeeding Ken Krake; Keith Bleuer, vice-president; Anthony Ruben, secretary-treasurer; and Elmer Hauge, historian.

The three-day trip ended on November 20 with a visit to the Madison Alumni Club at a meeting held in the Continental Restaurant in Madison. Attended by some 65 alumni, discussion at the meeting ranged over a number of topics, including the proposed reorganization of the club, and the naming of a study committee to make recommendations on the matter. After talks by Haislet and Ringer, the group held its annual election of officers, with Jack Schultz named president, and Maurice Segal, vice-president.

Mankato

Arlen Kitsis, Mankato, an official of Shari Candy Co., has been named president of the Mankato Chapter of the Minnesota Alumni Association. The new president was selected at a meeting held November 25, and succeeds Dr. Franklin Stickel, who has moved to Minneapolis.

Bradley J. Carlstrom is vice-president of the chapter, and Mrs. Robert Barnett is secretary-treasurer.

Preliminary planning was also made at the meeting for the group's annual meeting, to be held in March, which will feature a University academic official as guest speaker.



WISCONSIN ALUMNI met at Menasha Nov. 19 to hear national MAA president Judd Ringer and executive director Ed Haislet speak. Shown with Ringer and Haislet are the 1964 officers of the Fox River Valley chapter. From the left: Elmer Hauge, historian; Keith Bleuer, secretary-treasurer; Ringer; Kenneth Krake, president; and Haislet.

President Wilson Visits Chisholm-Hibbing Chapter

On his first visit to the Iron Range since assuming his role as president of the University of Minnesota, O. Meredith Wilson expressed pleasure at finding alumni, civic leaders and parents extremely interested in education and the problems of the University.

Approximately 150 people turned out to hear the president speak at a banquet honoring him in Chisholm, where he discussed enrollment pressures at the University and steps being taken to meet them.

In recognition of his support for the taconite amendment, President Wilson was presented with a miner's hat by the Hibbing Chamber of Commerce, and a plaque from the Chisholm chamber.

He was accompanied on his trip to the Range alumni chapters by Ewin L. Haislet, MAA executive director; William L. Nunn, director of University Relations; Luther Pickrel, director of the Agriculture Extension Service; and Chet Tomczyk of the MAA staff.

During the afternoon the group conferred with the county agriculture extension committee, following a luncheon meeting with Chisholm-Hibbing press and public relations people.

Harry Warnecke, Chisholm, outgoing chapter president, presided at the alumni meetings. During the business portion of the meeting, John Gernert, Hibbing, was elected president for 1965.

JANUARY MEETINGS

Alumni Chapters in Minnesota

January 12, 1965—Winona—Speaker: Dr. Walter Breckenridge, Museum of Natural History.

January 18, 1965—Mountain Lake—Speaker: Dick Siebert, Athletic Department.

January 20, 1965—Thief River Falls: O

January 20, 1965—Thief River Falls—Speaker: Charles C. Hanna, Director of Admissions, University of Minnesota, Morris.

January 27, 1965—Fairmont—Speaker: Dean Rodney Briggs, University of Minnesota, Morris

January 27, 1965—Slayton—Speaker: Professor Ralph Nichols, Head of the Rhetoric Department.

January 27, 1965—Benson—Speaker: Professor Arnold S. Woestehoff, Director of the Bureau of Recommendations.

Champagne Tea, Fashions Are Winter Event of Alumnae Club

A Champagne Tea and Fashion Revue to be held Saturday, January 23, 1965, is this year's winter event of the University of Minnesota Alumnae Club. Planned as a benefit for the Alumnae Club Scholarship Fund for freshmen women, the tea and revue will feature fashions by Young-Quinlan of Minneapolis, models from the Estelle Compton Models Institute, hair fashions by Flair Fashions, and flowers by Rosacker's.

Doing the commentary for the revue will be Mrs. Charlotte Melrose from Estelle Compton.

Champagne and refreshments will be provided, and door prizes will be awarded.

To be held in the Cotillion Ball-

room on the ground floor of the Sheraton-Ritz Hotel from 2:00 to 4:00 p.m., admission is by reservation only.

Alumnae and their friends wishing to attend should make their reservations before January 16 by calling the Alumni Association office at 373-2466. Admission price is \$3.75 per person.

Officers of the Alumnae Club for the current year include Miss Eva Maloney '34BA '49MA, president; Miss Irene A. Kreidberg '30BSB, first vice-president; Mrs. Zoe Cosgrove '52BA '53MA, second vice-president; Mrs. Judy Schuck '61BSEd, secretary; and Miss Frances Keller '51MA, treasurer.

No. California Scholarship Gift

The Trust Foundation of the Minnesota Alumni Club of Northern California has contributed \$445.00 to the University of Minnesota for scholarships, allocated as follows: \$300, Sheldon E. Beise Scholarship Fund, School of Education; \$75, H. W. Williams Scholarship Fund; \$30, School of Home Economics Scholarship Fund; \$25, Henry Hartig Fund; and \$25, School of Forestry Scholarship Fund.

Established in 1959, the Trust Fund's purpose has been to provide an opportunity for the organization's members to assist the University in a tangible way in its fund raising activities.

Since its inception, California alumni have contributed a total of \$7,912.70. Of this amount, \$3430 has been allocated to the University, earmarked for various scholarship activities. In addition, the group has invested \$2770 in stocks and securities. Operating expenses during this period have totalled \$999.29, leaving a cash balance in trust with the Bank of America of \$779.51.

Veterinary Medical Alumni Group Plans Annual Meeting for Jan. 26

The Veterinary Medical Alumni Association will hold its annual meeting on Tuesday, January 26, in the Leamington Hotel, Minneapolis, starting at 12:00 noon in the Twin Cities room.

James E. Finks, general manager of the Minnesota Vikings professional football team, will be guest speaker. President O. Meredith Wilson has been invited to speak for the University, and Dean William T. S. Thorp will speak on behalf of the College of Veterinary Medicine.

Giving the welcome from the MAA, will be Ed Haislet, executive director.

Tickets for the luncheon meeting are \$3 each, and may be ordered by mail from the Alumni office or by calling 373-2466.

The alumni group will also have a booth at the state M.C.M.A. Convention, slated for January 25-27 at the Leamington Hotel. Luncheon tickets for the annual meeting will be available at this booth, but will not be sold at the registration desk.

Veterinary medical alumni interested in knowing more about the activities of the Veterinary Medical Alumni Association are

urged to stop at the alumni booth and have their questions answered by one of the association board members, who will be manning it.

WHERE DO YOU STAND?

Shown below are Minnesota Alumni Association membership rankings for the month of November, 1964, by number and percentage of total possible membership in each group

Group	Rank by no.	% of total possible membership	Rank by %
College of Liberal Arts	1	17.4%	9
Education	3	11.3	12
Institute of Technology	2	20.5	7
Medicine	4	39.0	2
Nursing	9	15.3	10
Dentistry	6	35.2	4
Agriculture, Forestry			
Home Economics	7	14.2	11
University of Minnesota, Duluth	8	18.1	8
Business	5	22.1	5
Pharmacy	10	38.5	3
Veterinary Medicine	12	39.4	1
Mortuary Science	11	21.1	6

Pharmacy Alumni Plan Annual Winter Party January 24

A theatre-dinner party at the Old Log Theatre in suburban Excelsior will mark the event of the College of Pharmacy Alumni Association's annual winter party, to be held this year on Sunday January 24.

Title of the play, which will begin at 4:00 p.m., is "Enter Laughing," the story of a searching lad in the heart of New York's garment district who decides that he should have a career in the theatre.

Immediately following the play

there will be a cocktail hour, at 6:30, with dinner following at 7:30 p.m.

The Pharmacy group will be seated together for the play, and the cocktail hour and dinner will be open only to Pharmacy College alumni and their friends.

Tickets are \$6.00 each for the dinner and play, and reservations may be made by sending checks to: Pharmacy Alumni Association, c/o The Old Log Theatre, Excelsior, Minn.

Marshall

The Marshall chapter of the MAA, led by Warren Quarnstrom, president, has made tentative plans for its annual meeting, to be held sometime in January. This year's annual meeting will feature a prominent member of the University faculty as guest speaker. Guest at the group's 1964 annual was Donald K. Smith, Assistant Vice President of Academic Administration.

Mountain Lake

The Mountain Lake chapter of the MAA is formulating plans for its next annual meeting, to be held in January in conjunction with the election of new chapter officers.

Meet the Constituent Group Presidents . . .



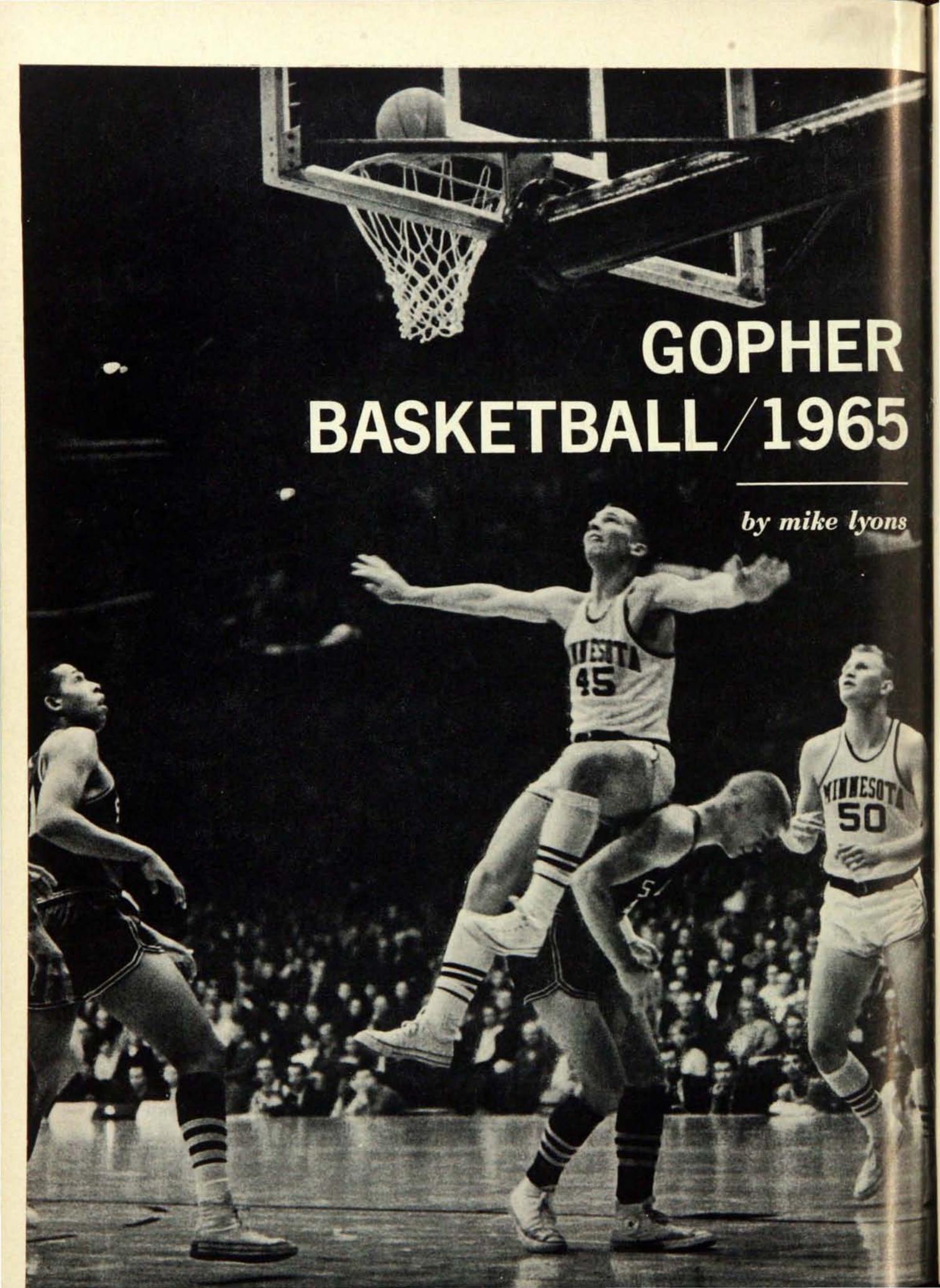
PETER G. PAFIOLIS, President of the College of Liberal Arts Alumni Association and veteran Twin Cities newsman and public relations consultant, is director of public relations for the Minnesota Education Association. A 1947 graduate of the University of Minnesota School of Journalism with a bachelor of arts degree, he assumed his present position in 1962, after eight years as a reporter for the St. Paul Dispatch and Pioneer Press (four of them as a prize-winning education editor) and 4 years with a Minneapolis public relations firm. Active in civic affairs, he has served on the (Minneapolis) Mayor's Committee on Employment of the Handicapped.



JUDITH TIEDE, President of the School of Nursing Alumni Association, is the daughter of Dr. and Mrs. John W. Tiede '35DDS. A graduate of Le Center High School in Le Center, Minnesota, she received her bachelor of science degree in nursing from the University of Minneapolis in 1960, and served as a member of the Nursing College Board. Following graduation she worked for two years as assistant head nurse at Charles T. Miller Hospital in St. Paul, and at present is on the staff of the Combined Nursing Service of Minneapolis. She has also served on the program and membership committees of the Third District Minnesota Nurses' Association.



EVA M. MALONEY, president of the University of Minnesota Alumnae Club, has been elementary school principal of Deane School and Nokomis School in St. Paul since 1958. After receiving a bachelor of science degree in education from Minnesota in 1934, she taught in elementary schools in St. Paul until 1943, when she received a certificate from Teachers College, Columbia, New York. She then taught Sight-Saving Classes in St. Paul and worked on her masters degree, which she received from Minnesota in 1949. Other activities include service as chairman of the M.E.A. Credit Union committee, and as secretary of the State Credit Union after its establishment.



GOPHER BASKETBALL/1965

by mike lyons

There really is no law against Minnesota winning the Big Ten basketball title. It just seems that way because the Gophers haven't turned the trick since 1937. At the start of the current season it appeared as if this could be the year that proved the legality of such a deed.

Even Coach John Kundla, a member of the '37 champions and a man not given to grandiose visions, admitted that the outlook was bright. It still isn't black, but an unexpected blow, the loss of forward Terry Kunze through ineligibility, has taken some of the bloom from the Gophers' once-robust hopes.

"Kunze's loss is bound to hurt us," Kundla acknowledged. "Exactly how much remains to be seen, but, at best, it snarls our plans badly. We still have an experienced team of considerable talent, however. If we play up to our potential and enjoy our share of luck, we could still have a crack at the championship."

There are other obstacles besides Kunze's unforeseen exit. Michigan, the favorite for the Big Ten title, started the season rated No. 1 in the nation and appears to be an even greater team than last year's illustrious entry. Lest anyone forget, Michigan tied for the Conference crown in 1964 and went to the semi-finals of the NCAA. The Wolverines have virtually their entire team back, plus some talented sophomores.

That isn't all. The Big Ten shapes up as even tougher than usual. Ready to challenge Michigan and Minnesota for dominance are Purdue, Illinois and Indiana. All are considered extremely dangerous.

But what of the Gophers? What have they got that prompted the "experts" to pick them as high as ninth nationally in the pre-season guesswork and fourth after their

The best seat in the house — that's what Minnesota's Wes Martins (45) has as he finishes his drive for a layup. Doing the "backup" work, unwittingly, is South Dakota State's Gary Smith, as Paul Presthus (50) coaches. Although the Gophers didn't win the game "sitting down", you'd never know it from the final score — 101-55.

first four non-conference games?

First of all, the Minnesota team, even without Kunze, has experience — seven lettermen, three of them starters a year ago and a fourth virtually a regular. The only other missing letterwinner whose absence figures to hurt is forward Bill Davis, 6-6. Back are forwards Louis Hudson, 6-5, and Dennis Dvoracek, 6-6; center and captain Mel Northway, 6-8; guards Archie Clark, 6-1½, Don Yates, 6-2½, Wes Martins, 5-11, and Dave Nelson, 6-2. Hudson, Northway and Clark were regulars last year. Yates was the sixth man. Dvoracek is Kundla's choice to replace Kunze.

There is only one sophomore on the squad — Paul Presthus, 6-5, a youngster of promise who was a prep all-American at Rugby, North Dakota, and is noted for his rebounding ability.

Secondly, the Gophers have speed. Hudson, Clark and Yates can run with anybody, and will, if given a chance. Trouble is, many of their opponents may not give them the chance. Drake, Iowa State and Marquette were all loath to let the Gopher fast-break function as advertised early in the campaign. The result was some less than inspiring performances, even though the lowest margin of victory was seven points, the highest 19.

Still, the fact that they won't always be able to run should not disturb the Gophers too greatly. John Kundla's teams traditionally have been devoted to a pattern offense, and the new accent on speed has not closed the book on the past. The Gophers are clever and do not lack ball-handling prowess. On occasion, they have demonstrated the ability to set up scoring plays as well as any team in the country.

The squad also has scoring punch and balance, although lacking a consistent long-range threat. Last year's team almost rewrote the Minnesota scoring book, breaking six records in the process, including most points scored in a 14-game schedule (1,202) and most points scored for a 24-game season (1,941). It also fashioned the best field goal percentage for a season (.426)

and twice broke the record for points in a single game, finally settling for 111 against Wisconsin.

Six men were largely responsible for that awesome output. Four of them returned. All averaged over 10 points per game in 1963-64 — Hudson (18.1), Northway (14.3), Clark (11.1) and Yates (10.2). Hudson also ranked tenth in the Big Ten with an 18.9 average.

Though not overly-blessed with height, the Gophers have rebounding strength, too. Just how much could be the key to the season. The loss of Davis will be felt most severely on the boards. He was Minnesota's second-best rebounder a year ago with 239 and ranked 13th in the Big Ten. Dvoracek and Presthus must take up the slack created by his departure. If they don't, there could be trouble ahead.

One thing is certain: in Northway, the team has Minnesota's all-time leading rebounder in Big Ten competition for one season. He broke Ron Johnson's old record last year with 168. Northway started the current campaign with every indication that he intends to do even better this time around. He averaged almost 14 rebounds per game in the first four contests, topped by an 18-rebound performance against Drake.

Hudson is a good rebounder, too, potentially a very good one indeed. He still has not attained that potential, but if he does, he and Northway will give the Gophers a fearsome one-two punch on the boards.

Defensively, Minnesota has tremendous promise. Archie Clark is a polished defender, while both Hudson and Yates have shown flashes of ability at least as great. All three have exceptional talent for blocking shots. Northway, though not noted for agility, does a most capable job on opposing centers.

The Gophers are thin in reserve strength, especially following the departure of Kunze. There are only six men to choose from when a regular needs to be replaced. With the promotion of Dvoracek to the starting five, Presthus remains the

only reserve forward. Although he showed some sophomore raggedness in early games, he appears to have the makings of a first-rate player.

In the back court, Martins and Nelson are short on height but long on quickness and intelligence. Both can shoot well, too. Dean Lopata, a third reserve guard, has seen little action to date.

Center is a big reserve problem spot. Dave Wykes, 6-6, and Jim Ginsburg, 6-7, are both seniors, but neither has played enough in two seasons to earn a letter. Wykes could be shifted to forward.

Last year's team was streaky, playing like an unstoppable juggernaut at times but throwing the ball away and falling victim to defensive lapses at others. Despite this inconsistency, Minnesota was able to win 17 or 24 games overall and 10 of 14 in the Conference. One more victory would have given the Gophers a title tie with Michigan and Ohio State. It also would have

meant an NCAA playoff berth, since, according to Big Ten rules, the team which has been away from the national tournament longest gets the nod in case of a tie.

With added poise and confidence, the 1964-65 Gophers should be more consistent. This could take them a long way, possibly far enough to end 28 years of frustration. □

CONVERSATIONS

(Continued from page 20)

cruiting good students. Dentistry has to compete with the glamour sciences—all of them exciting fields for a young man—for its students. We've found that the best recruiters for dentistry are the dentists themselves. Good students are what we need most of all.

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We have responsibilities to the alumni, too. I feel that it is our obligation to provide them with adequate continuing education programs, the best possible continuation courses, to keep them abreast of developments within their profession. So far, I think we've done this. Last year we offered 13 post-graduate courses, and hundreds of our alumni turned out for them. Actually, we foresee a doubling or tripling in the size of that program over the next few years.

With the full backing of the alumni, together with our fine staff, we can have a School of Dentistry second to none. ●

ENROLLMENT

(Continued from page 14)

that might accommodate 10,000-12,000 students.

But its most important effect will not be seen until next fall, when the new enrollment curbs allow the University to live within its means and still maintain the excellence of

its educational services to the state of Minnesota.

If enrollment limitation is the only way to preserving the University's existing standards, then such limitations are a necessary, though sad, choice. ●

MEMORIAL FUNDS

(Continued from page 21)

it that each donor received a receipt and a letter of thanks from the University along with a prepared memorial card to send on to Mrs. Ford.

The striking walnut-paneled room was completed in April of 1964, a fitting tribute to the contributions made to the life of the University by Dr. Ford.

Whenever a donation is made to either the University of Minnesota Memorial Fund or to the General Memorial Fund, the donor receives a letter of thanks from the University, an appropriate prepared memorial card to send on to the next of kin notifying them of his gift, and a numbered receipt. Like all charitable contributions to the University, gifts to these funds are tax deductible.

The prepared memorial card, with an addressed and stamped envelope, is sent to the donor to forward to the next of kin rather than being sent directly to the next of kin by the University so that the donor may see the card and know exactly how his gift was handled by the University. The procedure also permits him to destroy the card if he prefers that his gift remain anonymous.

If you wish to memorialize a friend or relative and aid the University at the same time, send your contribution to the Special Projects Program, 217 Morrill Hall, University of Minnesota, Minneapolis, Minnesota 55455. Be sure to include your own name and address, as well as the name and address of the next of kin.

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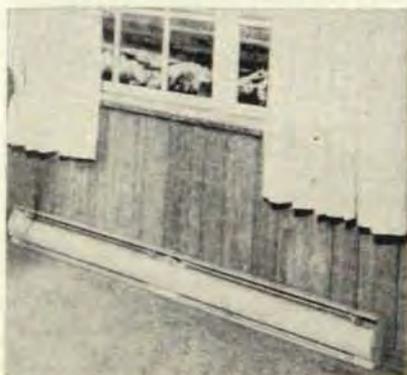
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EVELYN E. BARRETT received her bachelor's and master's degrees in education from the University of Minnesota in 1939 and 1940, while

ALUMNI OF THE MONTH

teaching in the St. Paul public school system. Presently serving as principal of the Paris Elementary School, a position she has held for some seven years, she has just been named assistant superintendent of all United States dependent schools in Madrid, Spain, where she will take charge of curriculum and instruction for the Office of Superintendent, located on the base of SAC-Madrid. Some of the schools within her command are Palma, Minorca; larger schools in Madrid and Seville; and Rota, Kenitra, in North Africa.

While studying at the University, Miss Barrett was principal of the Rice, Tilden and Hancock schools in St. Paul. Upon receiving her degrees, she became principal of the American Elementary School in Yokohama, Japan, a position she held for five years before leaving to take over a similar position in Paris.

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DR. RAYMOND D. PRUITT of Houston, Texas, has been appointed to the National Advisory Heart Council of the National

ALUMNI OF THE MONTH

Heart Institute. Dr. Pruitt, professor and chairman of the Department of Internal Medicine at Baylor University College of Medicine, will serve a four-year term beginning October 1964.

Born in Wheaton, Minnesota, in 1912, he received a B.S. degree from Baker University, Baldwin, Kansas in 1933, a B.A. degree (Rhodes Scholar) from Oxford University, England, in 1936, M.D. from Kansas University in 1939, M.S. from the University of Minnesota in 1945, and D. Sc. in 1956.

From 1940-1943 Dr. Pruitt was a fellow in medicine in the Mayo Foundation at Rochester. In 1954, he was appointed professor of medicine and associate director of the Mayo Foundation and in 1956, Chief of Medicine for Medical Education. He assumed his present position at Baylor in 1959.

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ALUMNI NEWS

AROUND & ABOUT WITH ALUMNI

'49

James R. Lindem '49BA has been appointed manager of the Enid, Oklahoma, office of the Retail Credit Company. He joined the company upon his graduation in 1949.

William J. Richard '49BS, St. Paul, a major in the Army Reserve, graduated from the Army Reserve Command and General Staff College Associate Course on July 10 at Fort Leavenworth, Kansas. He is employed as an engineer at The 3M Company.

'50

Eugene R. Anderson '50ALA has been appointed assistant vice president and commercial loan officer for the new National City Bank of Minneapolis. He was previously employed by the Fidelity Bank and Trust Company, Minneapolis.

Calvin A. Merriman '50BA has joined J. M. Dain & Company, Minneapolis securities dealer, as a registered representative. He will head the firm's Mutual Fund Department. He was also recently elected to the Hopkins YMCA executive board.

James H. Zumberge '50PhD has been president of Grand Valley College, Michigan's newest four-year liberal arts institution, since February, 1962. He was previously a member of the geology department faculty at the University of Michigan, and participated in I.G.Y. expeditions to Antarctica from 1957 to 1960.

'52

Burt Cohen '52BA has been named associate publisher of *Modern Medicine* magazine and elected to the board of directors of Modern Medicine Publications, Inc., Minneapolis.

John P. Murphy '52BSMechE has been appointed program manager for core memories and original equipment by the UNIVAC Division of Sperry Rand Corporation, St. Paul. (See photo)

Lt. Col. Edward J. O'Shaughnessy '52MS, new assistant chief for the Urology Service at Walter Reed General Hospital, has been awarded the Army Commendation Medal for his exceptionally meritorious service in the Office of The Surgeon General, Department of the Army, from 1962 to 1964. During the period covered by the citation, he organized the Department of Defense Blood Program Agency and served as its first director.

'53

Richard J. Baken '53BSME has been appointed manager of 3M Company's duplicating and microfilm products machine assembly plant in New Ulm, Minnesota.

Norman E. Barth '53MA has been nominated by President Johnson for promotion to Class 5 in the Foreign Service of the United States. He has served with the Foreign Service in Reykjavik, Iceland, and Frankfurt, Germany. He is presently assigned as a Placement Officer with the Office of Personnel in the Department of State, Washington, D.C.

Louis R. Lavine '53PhD, a specialist in computer programs research, has joined the Technical Programs staff of RCA Defense Electronic Products at the David Sarnoff Research Center in Princeton, New Jersey. He was formerly employed by the Philco Corporation.

Edward J. Williams '53BBA has joined



Peterson



Pries

Paine, Webber, Jackson & Curtis as head of the company's new office in Rochester, Minn.

'54

Lowell E. Peterson '54PhD has been named head of the Chemical Research Department of General Mills' Central Research Laboratories. He joined the company as an analytical research scientist in 1954. (See photo)

Dr. Floyd J. Swenson '54BS '58MD has been named Associate Medical Director at the North Central Home Office of the Prudential Insurance Company in Minneapolis.

Lloyd Thomas Wood '54MD has been appointed a resident in physical medicine and rehabilitation at the Mayo Foundation in Rochester, Minnesota.

'55

Dr. Herbert W. Peterson, Jr. '55MD first assistant in psychiatry in the Mayo Foundation Graduate School is one of the authors of an exhibit which was awarded the certificate of merit of the American Medical Association at the organization's annual meeting in San Francisco.

Jeanine Nelson Westling '56BA, editor of *Greater Minneapolis Magazine* and *Greater Minneapolis Newsletter* for the Minneapolis Chamber of Commerce saw the two publications win three awards in an American Association of

Commerce Publications contest held in June at Dayton, Ohio.

'57

Ellsworth E. Gerrels '57BSEE is currently a systems engineer for General Electric's Apollo Support Department, located in Daytona Beach, Florida. He has been with the company since graduation.

M. J. Johnson '57BA has been appointed personnel manager of the Englander Company, a newly acquired subsidiary of Union Carbide Corporation.

Robert C. Lucas '57BS is the author of a research paper dealing with the use of the Boundary Waters Canoe Area in Minnesota and the adjoining Quetico Provincial Park in Ontario, published by the Lake States Forest Experiment Station, U.S. Forest Service. Lucas is in charge of the Station's recreation research at St. Paul.

Thomas N. Norton '57BA has been appointed editor-in-chief of business and economics books for the College Division of the McGraw Hill Book Company. He joined the company in 1961 as editor of accounting and marketing books in the same division.

Gerald E. Pickering has been named to the new position of manager for the San Diego Engineering division of UNIVAC. He was formerly manager of the engineering effort at the Fleet Computer Programming Center, Pacific, also in San Diego.

Robert F. Stadsvold '57BA has been appointed senior brokerage consultant at the Minneapolis brokerage office of Connecticut General Life Insurance Company. He joined the company as a brokerage consultant in 1962.

'58

Dr. Monte B. Curtis '58DDS received the degree of master of science in dentistry from the University of Minnesota in June. He completed a residency in oral surgery at the Mayo Foundation, Rochester, on June 30, since which time he has been practicing in Mankato, Minnesota.



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'58

Dr. Gene G. Hunder '58MD has received a Philip Showalter Hench Scholarship Award for excellence in the study of rheumatic diseases in the graduate program of the Mayo Foundation for Medical Education and Research in Rochester, Minnesota. He is presently a consultant in internal medicine on the staff of Mayo Clinic.

Charles E. Norquist '58-'60 has joined the Minneapolis office of Paine, Webber, Jackson & Curtis.

'59

George G. Chapin '59PhD has been named director of advanced systems and programming at the UNIVAC Division of Sperry Rand Corporation, St. Paul. He was formerly manager of systems programming. (See photo)

Ronald S. Christenson '59MA has been appointed assistant professor of political science at Luther College, Decorah, Iowa.

Dr. Rodger Keith Nelson '59MD has been appointed a resident in pediatrics in the Mayo Foundation at Rochester, Minnesota.

Larry J. Pries '59BA has been appointed a professional service representative of McNeil Laboratories, Inc. in the Minneapolis area. (See photo)

Gene W. Swain '59BSME has joined the Trane Company's Davenport, Iowa, sales office as a sales engineer. (See photo)

'60

James H. Kullberg '60BME has been promoted to General Foreman of plant maintenance at Corning Glass Work's Wellsboro, Pa. plant. He was previously supervisor of production planning at Corning's Greenville, Ohio plant.

Jerry Lynn Schottler '60MD has been appointed a resident in colon and rectal surgery in the Mayo Foundation at Rochester, Minnesota.

Glenn I. Nelson '60MA has been appointed assistant professor of sociology at Luther College.

'61

Dr. Roderick P. Hood '61MD has been appointed a resident in internal medicine in the Mayo Foundation at Rochester, Minnesota.

'62

Shih-fang Lo '62MA has joined the research department of the Twin Cities operations of the UNIVAC Division of Sperry Rand Corporation as a principal physicist in the areas of thin magnetic films. He was formerly a senior engineer at the Honeywell Research Center in Hopkins, Minnesota.

2nd Lt. Paul M. Marschalk '62BS has been reassigned to Hickam Air Force



Chapin



Berglund

Base, Hawaii to fly the C-124 Globemaster after graduation from pilot training at Webb Air Force Base, Texas. He entered the Air Force in March of 1963.

John S. Wohleen '62BME has been appointed to the position of research engineer by the Reserve Mining Company, Silver Bay, Minnesota. He previously worked on special assignments in the development of data processing procedures.

Dr. Abe Lewis Fox, Jr. '63MD has been appointed a resident in pathology in the Mayo Foundation at Rochester, Minnesota.

'63

Dr. Michael L. Tuck '63MD has been appointed a resident in internal medicine in the Mayo Foundation at Rochester, Minnesota.

Judith M. Wolch '63BA has received a master of science degree in social work from Simmons College, Boston, Mass.

'64

Judith Ann Berglund '64BA has left for North Africa to begin three years of special-term missionary work under The Methodist Church. She is a native of Scandia, Minn.

Thomas W. Cummins, Jr. '64BS has joined the Monsanto Company's Organic Chemicals Division in the technical service department of its John F. Queeny Plant at St. Louis, Mo.

2nd Lt. Lt. Ronald W. Fallness '64BA has entered U.S. Air Force navigator training at James Connally AFB, Texas.

2nd Lt. Sherman L. Gonyea '64BS has entered U.S. Air Force navigator training at James Connally AFB, Texas.

John Robert Lampe '64MA has been appointed a career Foreign Service officer by President Johnson. The appointment makes him a Vice Consul and a Secretary in the Diplomatic Service. He is presently attending the Foreign Service Institute in Arlington, Virginia in preparation for an overseas assignment.

James Throckmorton '64PhD has joined the 3M Company as a senior chemist. He will work in the company's duplicating products division laboratory.

ALUMNI NEWS

DEATHS

Harry H. Angst, 82, retired superintendent of the New Cornelia copper mine at Ajo, Arizona, for Phelps Dodge Corp., died July 19 in Whittier, California. He graduated from the University of Minnesota in 1905 with a degree in mining engineering, and worked for a number of iron mining companies on the Mesabi Range before going to Russia in 1930 to aid in that country's first five-year plan. He joined Phelps Dodge in 1935, and retired in 1946.

Rudolph H. Grabow, 67, industrial development manager for the Monon Railroad and for many years supervisor of the Hoosier National Forest, died in July in Millbrae, California. A 1920 graduate of the College of Forestry, he took over supervision of the Hoosier Forest in 1937 and held that position until his retirement in 1956. In 1957 he joined the Francis I. DuPont & Company in Indianapolis as an account executive, and later accepted the position of executive secretary of the Bedford (Ind.) Chamber of Commerce. He resigned in 1958 to join the Monon Railroad.

A. Albert Johnson '51BSUMD, died unexpectedly June 10 in Detroit, Michigan. From 1954 he was senior research chemist at Metal and Thermit Corporation in Ferndale, Michigan, and for the first six months of 1964 was the managing director of the Ferndale Cooperative, Inc. He was a past president of the Detroit section of the Electrochemical Society and was the author of a number of scientific articles.

Dr. Harry A. Johnson, 62, died August 24 in Minneapolis, after practicing medicine for 36 years. He received his medical degree from the University in 1928.

Dr. Harry A. Miller, Sr. died April 19, 1963 in Brownsville, Texas at the age of 77. He was a 1919 graduate of the School of Medicine.

Dr. Orvin D. Moen, 56, died June 13 in Houston, Minnesota, where he had been a practicing dentist for 30 years. A life member of the Minnesota Alumni Association, he received his D.D.S. degree from the University of Minnesota Dental School in 1933.

Miriam Clark Potter, 78, died January 29 in Carmel, California. Born in Minneapolis in 1886, she was famous as an author-artist of children's books for more than 40 years. She graduated from the University of Minnesota as a Phi Beta Kappa in 1909, began writing at the age of 14, and in the 1920's introduced her principal character, "Mrs. Goose". A prolific writer, she also produced such books as "The Littlebits", and "The Mouse Who Liked to Read in Bed".

Algot Peterson, a 1914 graduate of the University of Minnesota, died No-

ember 7, 1962, in Buffalo, Minnesota.

Dr. Arthur Gottfried Plankers, 75, died at Dubuque, Iowa, on August 10. Born in St. Paul, he received the B.S. degree from the University of Minnesota in 1916 and the M.D. degree in 1918. From 1921 to 1922 he was a teaching fellow in medicine in the University's Medical School.

Arch Robison '09BSEE, died January 22 in Laguna Beach, California.

Dr. James Robert Rogin, 58, a fellow in dermatology in the Mayo Foundation from 1930 to 1933, died in Detroit, Michigan, on July 17. A native of Windsor, Ontario, he received the degree of master of science in dermatology and syphilology from the University of Minnesota in 1933. At the time of his death he was associate clinical professor of medicine in the Wayne State University College of Medicine and chief of dermatology and attending physician in Sinai Hospital.

John B. Sanborn, 80, died March 7 in St. Paul, Minn. A distinguished jurist and federal judge for 34 years, he sat on the Eighth District U.S. Court of Appeals bench from 1932 until 1959, when he retired and became the court's senior judge. He received a bachelor of arts degree from the University in 1905, and a law degree from St. Paul College of Law in 1907, when he was admitted to the bar and began practice in St. Paul. He was a member of the state House of Representatives from 1913 to 1915, Minnesota Commissioner of Insurance from 1917 to 1920 and a member of the State Tax Commission in 1920 and 1921. He received the University of Minnesota's Outstanding Achievement Award in 1956.

Dr. Moses Lane Strathern, 89, died at Virginia, Minn. May 25. A 1907 graduate of the University of Minnesota School of Medicine, he played football while in college and was named All-Western center in 1903 and nominated for All-American honors the following year, when he was captain of the team. After post graduate work at Bonn, Germany and London, he returned to Minnesota and practiced actively until his retirement in 1955.

Dr. George Waldron '29MD died February 15 in Houston, Texas.

Helen Harrison Wilson, a member of the Class of 1913, died June 3 at Granada Hills, California. She was the wife of Robert Wilson, '13BS, who survives her.

Kent B. Youngdahl, 35, Hennepin County highway administrator and former Minneapolis alderman, died of cancer August 24, 1964, in Minneapolis. An unsuccessful candidate for mayor in the 1959 primary election, he obtained his B.A. degree from Washington University and an M.A. degree in political science at the University of Minnesota in 1952. In 1955 he was elected 2nd Ward alderman, and served for two terms.

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ALUMNI CLUB NOTES

SKATING FACILITIES

The Sheraton-Ritz Hotel's skating rink is now open, and Alumni Club members and their families are reminded that they are all free members in the Downtown Skating Club. The rink will be open each day from 10:00 a.m. to 2:00 p.m., and again from 5:00 p.m. to 9:00 p.m. Rental skates are available.

Bring the family and have a skating party! If you require any special food or beverages served, just call Mr. Calvert at the Alumni Club. There are no extra Skating Club charges. You pay only for the food or beverages that you order. Simply sign the Skating Club card which was mailed to you with your January schedule of Alumni Club events, and present it to the attendant on duty when you arrive at the rink. That's all there is to it.

January 1, Friday

New Year's Day - Club is closed.

January 2, Saturday

Club is open for regular hours and meals.

January 6, Wednesday

An evening of wine tasting, this time of the red wines of Bordeaux, the finest of French clarets. Starting time is 6:30 p.m.

January 7, Thursday

Special Club Buffet Night. Buffet from 5:30 to 9:00 p.m. Adults \$3.75, children \$2.50. Come back for seconds if you like.

January 13, Wednesday

Ladies' Bridge Luncheon. Lunch at 12:00 noon, bridge from 1:15 to 4:00 p.m. Table

prizes. Everything included for just \$1.75 per person.

January 14, Thursday

Special Club Buffet Night. See January 7 for details.

January 16, Saturday

Dinner Dance Night. Regular dinner hours - 5:30 to 9:00 p.m. Dancing from 8:30 to 12:30 p.m. No extra charges.

January 21, Thursday

Special Club Buffet Night. See January 7, above, for details.

January 27, Wednesday

Another evening of wine tasting. The subjects this night are the delightful French white wines of Barsac and Sauterne. Starting time is 6:30 p.m.

January 28, Thursday

Special Club Buffet Night. See January 7, above, for details.

January 30, Saturday

Saturday Ladies' Bridge Luncheon. Lunch at 12:30, bridge from 1:30 to 4:30 p.m. Table prizes. Everything included for just \$1.75 per person.

A REMINDER

We would like to remind you again to check the bulletin board when you are in the Alumni Club. Your program committee often arranges events for which there is insufficient to get out a mailing to the membership. Notices of these special programs are always posted on the bulletin board. If you don't want to miss an event that you might enjoy - take a look.

SPECIAL NOTE

The manager and the staff of the Minnesota Alumni Club would like to take this opportunity to thank all members and their families for their patronage and help during the past year, and wish you all a happy and prosperous New Year.

1964-65 Basketball-Hockey Schedules

BASKETBALL

HOME

Tues., Nov. 24, Intra-Squad Preview (Free)
Tues., Dec. 1, South Dakota
Tues., Dec. 8, Marquette
Sat., Dec. 19, Utah State
Tues., Dec. 22, Chicago Loyola
Sat., Jan. 2, Detroit
Sat., Jan. 9, Wisconsin

AWAY

Fri., Dec. 4, Drake
Sat., Dec. 5, Iowa State
Mon., Tues., Wed., Dec. 28, 29, 30, Los Angeles Classic Tournament
Sat., Jan. 16, Illinois

Sat., Jan. 23, Ohio State
Tues., Feb. 2, Northwestern
Sat., Feb. 13, Illinois (Afternoon game)
Tues., Feb. 23, Michigan
Sat., Feb. 27, Indiana
Tues., Mar. 9, Iowa

Mon., Jan. 25, Purdue
Sat., Feb. 6, Michigan State
Tues., Feb. 16, Wisconsin
Sat., Feb. 20, Northwestern
Tues., Mar. 2, Iowa
Sat., Mar. 6, Michigan

HOCKEY

HOME

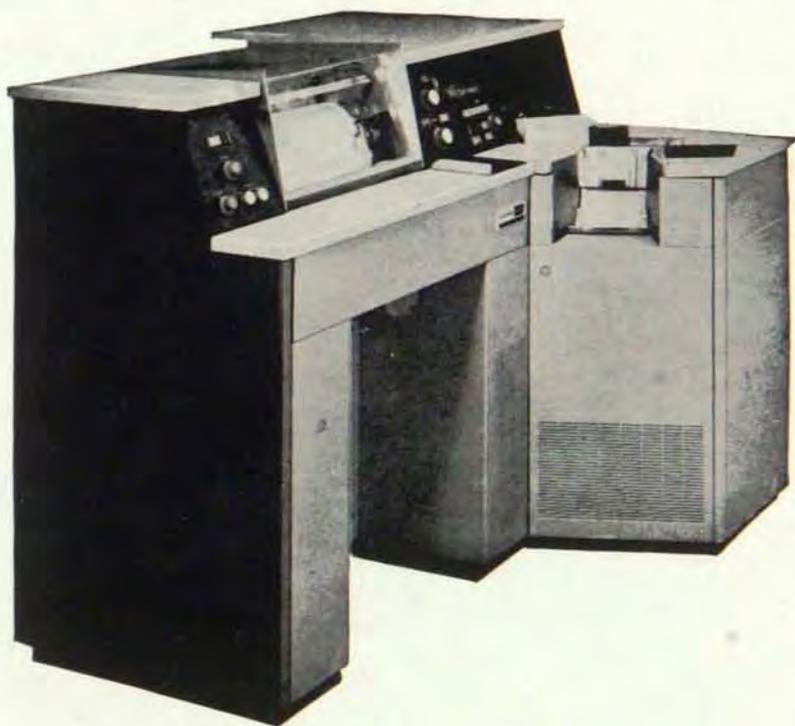
Tues., Nov. 17, Intra-Squad Preview (Free)
Fri., Nov. 20, Alumni (Free)
Fri., Sat., Nov. 27-28, Colorado College
Tues., Dec. 29, Manitoba

AWAY

Fri., Sat., Dec. 4-5, Michigan
Sat., Dec. 19, U.M. Duluth
Fri., Sat., Jan. 1-2, Wisconsin
Fri., Sat., Jan. 22-23, Mich. State

Fri., Sat., Jan. 8-9, Mich. State (Saturday afternoon game)
Fri., Sat., Jan. 15-16, Mich. Tech
Fri., Sat., Jan. 29-30, No. Dakota
Fri., Sat., Feb. 5-6, U.M. Duluth
Fri., Sat., Feb. 19-20, Michigan

Fri., Sat., Feb. 12-13, Colorado College
Mon., Feb. 22, U.M. Duluth
Fri., Sat., Feb. 26-27, North Dakota



The 1004 Card Processor: big computer features at the cost of standard punched-card equipment.

Quick! What company makes it?

UNIVAC, of course. The 1004 has the simplicity of punched-card equipment and the advances of electronic computers.

It does more than any punched-card calculator, faster! It reads, prints, adds, subtracts, multiplies and divides in one card pass—up to four hundred 80- and 90-column cards per minute—performing as many as 9 operations per program step. It edits, spaces and punctuates 132-character lines, using dollar signs, decimal points, asterisks, total and sub-total signs, etc.

It does more than the largest conventional card-accounting machine, faster! The magnetic core memory has three times the

storage capacity of the largest accounting machine, and every core location is always available for computing. Access time: 8 microseconds!

The UNIVAC® 1004 Card Processor measures 71" x 63" x 55" But don't be deceived by its attractively trim dimensions—it is *not* a stripped-down computer. (It is programmed on an external plugboard of the same kind your present operators are used to.)

Available in three models at monthly rentals from \$1150 to \$1500, the UNIVAC 1004 is *the* choice wherever punched card equipment is used.

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THE REGENTS' ROOM



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205 Coffman Memorial Union University of Minnesota
Minneapolis 14, Minn.

I hereby apply for a (resident) (non-resident) membership in
the University of Minnesota Alumni Club and agree to abide
by its rules and regulations.

Name _____

Home Address _____

City _____ Zone _____ Telephone No. _____

- I am a member of the Alumni Association
 I am not a member
 Check enclosed for \$_____

Membership fees

Resident: 7-county metropolitan area
\$56.00 (Including tax and initiation fee)
Non-resident: \$20.00 (including tax and
initiation fee)

THE UNIVERSITY OF MINNESOTA

ALUMNI NEWS

FEBRUARY 1965

PROJECT: MINNEMAST

UNIVERSITY OF MINNESOTA ALUMNI NEWS

(Our 65th Year)

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

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Edwin L. Haislet '31BSEd '33MA '37EdD Managing Editor

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THE UNIVERSITY OF MINNESOTA
FOUNDED IN THE FAITH THAT MEN ARE ENNOBLED
BY UNDERSTANDING DEDICATED TO THE ADVANCEMENT
OF LEARNING AND THE SEARCH FOR TRUTH
DEVOTED TO THE INSTRUCTION OF YOUTH
AND THE WELFARE OF THE STATE

FEBRUARY 1965 • Vol. 64, No. 6

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1965 ALUMNI SURVEY

The ALUMNI NEWS is once again reviewing the character and composition of its audience. The information that you provide will not only help us define that audience to potential advertisers and other interested parties, but will provide us with a working profile of the average alumnus of the University of Min-

nesota. This survey is anonymous: PLEASE DO NOT SIGN YOUR NAME! Fill out only one questionnaire per family, and mail the completed form to: SURVEY, 205 Coffman Union, University of Minnesota, Minneapolis 55414.

PLEASE ANSWER ALL QUESTIONS

Age _____ Male _____ Female _____ Married _____ Single _____ Divorced _____ Widowed _____
 Your degree from Minnesota _____ Year _____ College _____

If you did not graduate, when did you attend?

From _____ to _____ College _____

Number of children: _____ one _____ two _____ three _____ more

Have any of your children attended, or are presently attending, the University of Minnesota? Yes _____ No _____
 How many _____

Is your husband/wife a University of Minnesota graduate or former student? Yes _____ No _____

His/her degree _____ Year _____ College _____

OCCUPATION & INCOME

Present position: Position or title _____ Duties _____
 _____ Nature of firm or org. _____

Previous position: Position or title _____ Duties _____
 _____ Nature of firm or org. _____

Your principal occupation might be described as (check only one):

_____ Corp. president	_____ Homemaker	_____ Accountant	_____ Administrator
_____ Element. teacher	_____ Farmer	_____ Lawyer	_____ Musician
_____ Minister	_____ Student	_____ Journalist	_____ Insurance
_____ Social worker	_____ Executive Director	_____ Secretary	_____ Nurse
_____ Radio-TV	_____ High School	_____ Clerk	_____ Skilled laborer
_____ Sales	_____ Teacher	_____ Advertising	_____ Pharmacist
_____ Physician	_____ Businessman	_____ Med. Technologist	_____ Contractor
_____ Dentist	_____ Govt. worker	_____ Engineer	_____ Other (Specify:)
_____ Chemist	_____ Finance	_____ College prof.	_____

Do you: Own your own home? Yes _____ No _____ Approximate value \$ _____

Rent? Yes _____ No _____ Monthly rental \$ _____

Do you have a second home? _____ Summer home? _____ Cabin or cottage? _____

How many cars are there in your family? (Your own plus your children's) One _____ Two _____
 Three _____ Four _____ More _____

Make of cars and year: _____

How many years have you been with your present employer?

_____ 1 to 2

_____ 6 to 10

_____ Over 25

_____ 3 to 5

_____ 11 to 15

_____ 16 to 20

_____ 21 to 25

Is your position a supervisory one? Yes _____ No _____ How many people do you supervise _____

In your present position do you have authority to purchase materials and supplies for your firm?

Yes _____ No _____ Annual amount _____

Your family income from all sources is:

1. _____ Up to \$2,999

4. _____ 7,000 to 9,999

8. _____ 50,000 to 74,999

2. _____ 3,000 to 4,999

5. _____ 10,000 to 14,999

9. _____ 75,000 to 99,999

3. _____ 5,000 to 6,999

6. _____ 15,000 to 24,999

10. _____ 100,000 and over

7. _____ 25,000 to 49,999

Do you invest? Yes _____ No _____

If yes, in which of these do you invest?

____ Stocks \$ _____ Market Value _____ Real estate \$ _____ Market Value
____ Bonds \$ _____ Market Value _____ Mutual Funds \$ _____ Market Value

Amount of life insurance you own:

____ None _____ 5,000 to 9,999 _____ 30,000 to 49,999
____ Up to \$1,999 _____ 10,000 to 19,999 _____ 50,000 to 99,999
____ 2,000 to 4,999 _____ 20,000 to 29,999 _____ 100,000 or more

Where do you presently live? City _____ State _____
Foreign Country _____

How long have you lived there? _____ years.

How many times a year do you travel for business? _____ times
For pleasure _____ times

How do you travel for business? _____ car _____ plane _____ rail
For pleasure? _____ car _____ plane _____ rail

Where did you vacation last year?

____ At home _____ Northern states _____ California
____ Western states _____ Arizona _____ Caribbean
____ Southern states _____ Florida _____ Other (Specify): _____
____ Eastern states _____ Europe _____
____ Hawaii _____

How long was your vacation? _____ weeks

When did you take it? _____ Winter _____ Summer

Did you take more than one vacation? _____ How many? _____

PUBLIC SERVICE AND COMMUNITY ACTIVITIES

Have you ever run for public office?

1. _____ Ran and was elected 2. _____ Ran but was not elected
3. _____ Never ran for public office

If you have been elected to public office, what was the highest office held? _____

Ever been appointed to public office? Yes _____ No _____

Do you hold a public office now? Yes _____ No _____

If "yes," what is the office? _____

With what political party do you identify yourself? _____

Do you vote a straight party ticket? Yes _____ No _____

Have you changed party allegiance since leaving college? _____ Yes _____ No
From _____ to _____

Are you an active party worker? Yes _____ No _____

In what community activities have you engaged?

____ Community Chest, _____ Civic _____ Professional groups (law,
Red Cross, etc. _____ Labor organizations _____ medicine, etc.)
____ Chamber of Commerce _____ Youth (Boy Scouts, _____ Church groups
____ PTA, School Board _____ YMCA, YWCA, etc.) _____ Patriotic (VFW, American
____ Service Groups _____ Fraternal (lodges) _____ Legion)

What is your religious affiliation? _____

Have you changed your religious affiliation since leaving college?
Yes _____ No _____

OTHER ACTIVITIES

In what activities do you participate now? Check the one you find most satisfying.

____ Play a musical instrument _____ Attend lectures or _____ Write
____ Paint or sketch _____ discussions _____ Photography
____ Attend plays, concerts, _____ Visit art museums _____ Collect & play recordings
ballet _____ Read _____ Boating

Do you participate in any sports? Which ones _____
Do you attend athletic events? Which ones _____

HIGH STYLIST

Designing woman? Yes indeed, but in a most admirable sense. As a member of the General Motors design team, she is preparing sketches of a steering wheel for a future GM car. Like her male associates on GM's Styling Staff, she is fully qualified and competent to design consumer products in any field.

General Motors hired its first woman designer more than 20 years ago. Originally color and fabric consultants, the young ladies advanced rapidly to full membership in a group effort which now involves the skills of hundreds of people in GM Styling. In the past two decades, the feminine influence has changed many concepts of automotive design.

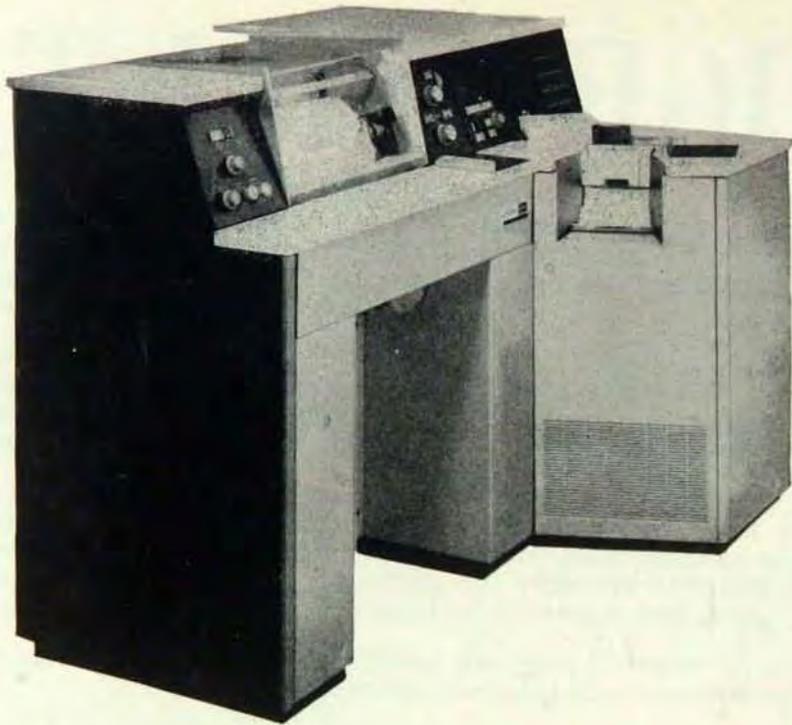
Women designers have contributed to the development of interior convenience features, safety items and such innovations as color coordination of interiors with exteriors and particular fabrics to suit women's tastes. Many a man, too, is grateful for these and other feminine contributions.

The role of women in designing beauty, utility and quality into GM products is more important than ever before.

GENERAL MOTORS IS PEOPLE ...

Making Better Things For You





The 1004 Card Processor: big computer features at the cost of standard punched-card equipment.

Quick! What company makes it?

UNIVAC, of course. The 1004 has the simplicity of punched-card equipment and the advances of electronic computers.

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BACK TALK

Dear Sir:

Thank you for the letter. It is very nice to get advice and encouragement from you. I have not been groomed for the job, so with my limited knowledge of the position I hold, I'm all ears to any advice. We will attempt to maintain our 100% membership which would be very nice. We also plan to begin soliciting for the U.M.M. Scholarship Program as soon as possible. We are lucky to have the assistance of Mr. Herb Croom at U.M.M. He is very devoted and has pledged his full support. Also the U.M.M. Alumni Committee that was set up to begin a U.M.M. Alumni Association has done a splendid job, thus making my job much easier. I am optimistic we can in the future do much, I think, to maintain the good start U.M.M. has established. The importance of a good start cannot be over emphasized. I'm sure our organization with the help of your guidance and some hard work will get this good start. Thanks much for your help in getting our Alumni Association started.

President

Chris Kamrud

University of Minnesota, Morris
Alumni Association

Sir:

Several days ago I received the issue of your magazine containing the reading list for Continuing Education in the Liberal Arts, which I requested after hearing it discussed on a local radio program. I must say, after looking it over, that I am extremely impressed. I have never before seen such a comprehensive review of the whole liberal

arts field. If you plan on doing this again this year please reserve a copy for me, and I will be happy to pay whatever costs are involved.

Mrs. R. M. Lien

Los Angeles, California

Editor's note: As we mentioned last month, the reading program for continuing education in the liberal arts will again appear in the coming June issue, this time in a revised and expanded form.

It's yours...

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Mr. & Mrs. C. A. Pavek
Ramsey Hall School, Washington, Conn.

Memo

From
ED HAISLET
Executive Director

TO: Association Members
SUBJECT: How Much Do We Know About College Graduates?

About this time a year ago a Reader Survey was made through the pages of the ALUMNI NEWS. The response was good, the information received helpful. The second annual Reader Survey appears in this issue. On the basis of our experience last year, the form has been simplified and requires only a few minutes of your time to complete. Won't you do this for us now? Results will be published in an early issue for your information.

Very little is known about college graduates. Research already done only scratches the surface. Most of the studies were made between the years 1948-1960, of which some were on selected classes, some on alumni, some on alumnae, some on graduates of state universities, and some on private college graduates. Together they give a glimpse of the kind of person we know as the college graduate. Here is a summary of the pertinent facts found:

College grades are related to financial success in all fields except business.

Undergraduate scholarship is but little related to alumni achievement.

There is a close relationship between the amount of education and the amount of income.

College graduates are found mainly in the higher paying occupations.

They earn more money than those with no college education or who did not finish college.

There is a direct relationship between years of schooling and kinds of occupations selected.

College graduates tend to marry people of the same educational levels.

The incidence of divorce is lower for college graduates than for non-graduates or of less education.

Both college men and women tend to marry at a later age than others.

Politically, college graduates tend to be more liberal than others.

They tend to be rather politically passive, with only one-fifth being active.

They tend to be Republicans, although this is less true among younger graduates.

In increasing numbers, the younger college graduates tend to call themselves "independents."

The college-educated tend to be more conservative regarding economic issues, more tolerant of radical ideas and unconventional people, less prejudiced toward religion, minority and foreign groups and more international in their outlook.

They distrust "welfare economics" and strong government and are usually found on the side of business versus labor or in resistance to government regulations.

What we don't know about college alumni is the appalling thing. For instance — what impact does a college education have on the life of an individual? How does it affect his profession or occupation? His marriage, family and children? His income and achievements? His beliefs, opinions, values and attitudes? His personality and character? His satisfaction and happiness? His health and longevity?

Are alumni informed? Do they continue their education as they go along? How much do they participate in the civic and social life of the community? How interested are they in politics and international affairs? How much do they take part in the things they believe in? What do they do about their beliefs and their knowledge? How much do they give to their college, community, country?

Our Reader Survey does help in a very small way to answer some of these questions — won't you please fill in the survey form found in the front of this issue of the ALUMNI NEWS and mail it to us today?



Thank you,

Ed Hauslet

for 7¢ a day

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If you are a member of the Minnesota Alumni Association this low cost Group Life Insurance is available to you. As little as seven cents a day will provide \$10,000 of life insurance protection if you are under age 25. If you are between the ages of 40 and 45, the same protection may be provided for as little as 20 cents a day. Find out about the MAA Group Life Insurance Program today. Write or phone inquiries to:

The Union Central Life Insurance Company

Group Department
500 First Federal Building
Minneapolis, Minnesota 55402
Telephone: 335-4696

or

Group Administration Office
409 Pioneer Building
St. Paul, Minnesota 55101
Telephone: 224-4719

THE UNION CENTRAL LIFE INSURANCE COMPANY

John A. Lloyd, President • A Mutual Company • Founded 1867 • Cincinnati



If Johnny's homework throws you for a loss these days, don't assume that it's

the usual mental deterioration accompanying middle age. Chances are his teacher is stumped, too, particularly if the subject is mathematics. Your puzzlement means that your son is learning about so-called "new math," an approach to education that has simultaneously intrigued a good part of the educational world and baffled an army of parents. The upshot of it all is that, though Johnny may not be able to read, he certainly can count.

Largely responsible for this "new wave" in science and mathematics teaching are a small group of people housed in a few crowded offices of a World War II-vintage Army barracks building, officially designated Temporary, North of Mines, on the Minneapolis campus of the University of Minnesota.

The people constitute the Minnesota School of Mathematics Center, a unit within the University's Institute of Technology, nick-named for sake of brevity, "Minnemath."

Their principal activity, and the cause of all the excitement, is a program called the "Minnesota Mathematics and Science Teaching Project," usually referred to as "Minnemast."

Project Minnemast's work centers on curriculum research and development. Its long-range goals are the improvement of the quality of science and mathematics education — both the teaching and the learning aspects of it — in America's schools. Its activities toward achieving those goals are as varied and often as brilliant as the spectrum through which scientists analyze components of the universe.

Minnemast is the outgrowth of a concern among man educators that teachers will soon not be equal to the challenge of students in high schools or even pupils in elementary schools who are beginning to learn things which their instructors aren't as yet prepared to teach them. Many feel that this situation could become critical within 10 years or less. Going hand-in-hand with this fear was the discovery that children can learn a great deal more than they are presently being taught, if it is presented to them in the proper way.

The result has been projects like Minnemast, designed to keep Johnny learning and his teacher teaching him mathematics and science according to the latest developments in the field.

A recognized pioneer in this effort to improve, upgrade and revamp our obsolete educational system is a dynamic, bushy-haired University mathematics professor by the name of Paul C. Rosenbloom.

Founder and director of both the Minnesota National Laboratory, which is part of the Division of Instruction of the Minnesota State Department of Education, and the Minnemath Center, Rosen-

PROJECT

bloom first became involved in curriculum research in 1958. Prior to that time he was

engaged in original work in his specialty — partial differential equations — and was a guest professor and lecturer at some of the nation's leading universities, including Harvard, Columbia, and Sweden's Lund University. But one of his extracurricular positions was as a member of the advisory panel for mathematical sciences to the National Science Foundation.

When the Federal Manpower Commission asked the panel what the government could do about the shortage of mathematically competent teachers, Rosenbloom decided that he should visit some of the country's schools and see what could be done on a local level before making any recommendations.

He began in the spring of 1955 by having talks with school administrators, teachers and students. He also began teaching gifted students, and worked down to the conventional fifth grade level by the fall of the year.

"I found that nobody has the least idea what children can learn," Rosenbloom says. "I discovered that young children could learn more than anyone — including myself — had ever dreamed of."

He made other discoveries as well. One was that practically everything now being introduced into school mathematics was published in a book by J. W. Young in 1911. But since 1905 or 1910 there had been relatively little contact between school officials and "people on the frontiers of knowledge in various fields."

As a result, "the people who know these things had not been teaching them to teachers and working with teachers to incorporate this knowledge into textbooks," he says. "All this could have been in textbooks 50 years ago," he adds. Little wonder that science and mathematics education fell behind present-day needs.

"It's very important for children to learn to deal with the world around them," he explains. "They have to learn how to observe, to count, to measure, analyze, and to make predictions.

"They can't do that unless they see how mathematics is related to the real world or how observations we make can be analyzed mathematically.

"It's very important that mathematics be taught not in isolation but in close connection to what the kids are going to do with it."

Rosenbloom's studies and interviews convinced him that what was needed was a radical, fundamental rethinking of the elementary school curriculum, rather than merely a search for methods to improve the present system. What was needed, he concluded, was a continuous process for the analysis of new knowledge as it is produced, and for the working out of its implications for the curriculum at all levels.

In 1958, attending the conference at

MINNEMAST



Professor Paul C. Rosenbloom, Minnemath director, frequently goes into the classroom to work personally with children and new materials.

which the School Mathematics Study Group was formed to improve the national teaching of mathematics, he persuaded the delegates to locate experimentation facilities at Minnesota.

The result was the formation of the Minnesota National Laboratory in September of 1958 with the aid of an \$11,000 "seed money" grant from the Louis W. and Maud Hill Family Foundation of St. Paul.

This laboratory, which conducts evaluations of new curricular materials on a contractual basis for national organizations, is strictly an experimental agency, and therefore makes no specific recommendations of material for school use. Instead, it publishes a detailed technical report of each experiment to help school officials make their own decisions.

The Laboratory's chief "customer" in its early years was the other outgrowth of Rosenbloom's interest in modernizing education methods — the Minnesota School Mathematics and Science Center.

Like the Minnesota National Laboratory, Minnemath got underway in August of 1958 with another "seed money" grant from the Hill Family Foundation, this time for \$14,000. However, unlike the Laboratory, Minnemath had to rely for



The intensity of interest in "new math" and "new science" is illustrated as this first-grade pupil pauses on the sidewalk to study the drawings of her airplane model.

its hand-to-mouth existence exclusively on the national School, from whom it received all of its financial support, supplies, and a secretary.

It was not until September, 1961, that the University, which had been providing office space, assumed responsibility for financial support of the central office, and provided necessary supplies and secretarial help as well.

Minnemath's major project — Minnemast — was born in August of 1962, when a National Science Foundation grant of \$238,000 paved the way for establishing a project to develop a coordinated mathematics-science curriculum for kindergarten through ninth grade.

Minnemast is a multi-purpose project involving preparation of materials for more effective teaching of children and of new courses covering both subject matter and methods to be used in pre-service training of elementary school teachers. The project is roughly divided into two phases — mathematics and science.

Although experimental centers associated with Minnemast cover the country from New York to Arizona and from Florida to Oregon, over-all leadership of the project remains in the hands of Rosenbloom and co-director for science, James H. Wertz, Jr., associate professor of physics.

Included on its staff are several more Minnesota faculty members, scholars attracted from other colleges and universities, and visiting professors drawn to Minnesota for a year or two by the project.

Minnemast really got underway in the summer of 1963, when about 60 mathematicians, education specialists, psychologists and teachers from all over the United States worked on special "writing teams" to produce the new curricular materials.

The teams came back to Minnesota last summer, and as a result of their intensified efforts, the Center now has mathematics and science curricula ready for kindergarten and the lower elementary grades.

Work has also been done during the past two summers by "sub-writing teams" on course materials for college students studying to become teachers.

Begun during the summer of 1963 were pilot projects in computer and applied mathematics. Financed under a grant from the NSF's section of Cooperative College-School Science Programs, the

initial summer program was sponsored jointly by the University of Minnesota, Control Data Corporation of Minneapolis, and secondary school systems in the Twin Cities area.

This inward flow of scholarly effort is now more than matched by an increasing outward flow of modern course materials for mathematics and science curriculums in the schools, plus the necessary manuals and instruction for training teachers to use the new courses effectively.

Currently the outward flow is channeled through no less than seventeen colleges and universities in fourteen states, which supervise trial runs with the new courses in local schools. But educators in many other states and countries — among them England, the United Arab Republic, Southern Rhodesia, and New Guinea — have become interested in Minnemast because it holds promise for speeding up education in newly-developing areas.

The fundamental concept behind the curriculum revisions being undertaken in the project is Rosenbloom's conviction that Johnny will be much more interested in learning mathematics if he sees that it grows out of real problems and has real applications.

The existing system of teaching the subject in grade and high schools concentrates almost entirely on analysis of a mathematical



Artist works on cartoons for animated film designed to teach geometric principles, using a translucent sheet over a light box.

model problem, instead of on "where the problems come from or how to apply what we find out from solving them," Rosenbloom says.

Elementary school mathematics teaching applies the principles it teaches mostly in terms of "shopping or bookkeeping," he says. "The student who asks 'Why do we have to learn this stuff and how can we use it?' will probably be told, 'You need it to get into engineering school.'"

Convinced that there is a need for more "scientifically literate" individuals, Rosenbloom sees the Minnemast project as correlating

science and mathematics teaching in school curricula.

"I have come to the conclusion," he says, "that you cannot teach applications of mathematics properly unless your students understand the science to which you are applying the mathematics."

Typical of the new methods is an exercise for elementary school children (first-grades) in which they learn to make a "hardness scale" for four rocks.

"They take two rocks at a time and find out which one scratches the other," he says.

"Then we talk about how many pairs of two elements we can select from the four rocks and whether we always need to make all six comparisons of two at a time to find out what we want to know."

Typical of the more advanced combinations of science and mathematics in a problem where students can see the application is a study of population growth of paramecia and bacteria in a laboratory culture.

Underlying the practical success of these new educational methods are several broad principles:

Children apparently are able to learn a great deal more, and learn it earlier in their childhood, than was once believed possible. This is extremely important, considering
(continued on page 20)



Young participant in one of Minnemast's test classes shows the result of an experiment with sunlight and photographic film.



FACULTY CLOSE-UP

GISELA KONOPKA Berlin-born professor in the University of Minnesota's School of Social Work, Professor Konopka received the equivalent of the bachelor of arts degree from the University of Hamburg in 1933, then spent the next three years working against and fleeing from the Nazi regime. She was finally caught in 1936, and thrown into a Nazi concentration camp, where she spent more than a year. Upon her release in 1937, she fled to the United States via Czechoslovakia, Austria, Switzerland and France. She was admitted to this country on a selected visa issued to known anti-Nazis by the State Department. In 1943 she received an M.S. degree in social administration from the University of Pittsburgh, and a Ph.D. in social work from Columbia University in 1956. She spent the winter of 1960 studying institutional treatment of emotionally disturbed, mentally ill and delinquent children in The Netherlands and other European countries. The bilingual author of four books and countless articles on social group work, she is presently working on a three-year research program on "girls in conflict"—a study of pressures facing adolescents in today's world—under a National Institute of Health grant. Honored by the Alumni Association of the Graduate School of Social Work at Pittsburgh in 1961 for being "responsible for the development of psychiatric social group work," Professor Konopka in 1961 was elected chairman of the national Social Welfare History Group and last spring assumed her new position as the third woman president of the American Orthopsychiatric Association in its 41-year history.

ALUMNI NEWS



WILLIAM A. ROSENTHAL. If Dr. William A. Rosenthal of the University of Minnesota, Duluth (UMD) had his way, he would be happy just as a teacher — and a cook. As head of UMD's Department of English since 1951, chairman of the UMD Faculty Council, chairman of the UMD Faculty Library Committee, and a member of the University Senate — to name just a few — Dr. Rosenthal's role as an administrator-academician is pretty well defined. Also set is his talent in the kitchen. "Fair weather or foul, I love to cook everything that's good to eat," Rosenthal matter of factly admits. "It's not just a hobby; I've always cooked." Rosenthal spent five years and two tours in Europe during World War II as a rifleman with the U.S. Army. "After that little experience, I didn't even like to go on picnics," he intones. His more serious interest, from the beginning, was English. He received the B.A., M.A., and Ph.D. degrees at Northwestern University. He stayed on three years as an instructor before coming to UMD in 1949 as an assistant professor. Normally a smiling, dry wit professor-type, Dr. Rosenthal can, when upset, master the colorful word as well as the next man. He isn't very happy about: the number of freshmen who still need to take remedial English; the little writing high school and college students do outside of English classes; and employer complaints about graduates who do not write well enough. But there is hope, Rosenthal feels, that better English instruction in secondary schools, more in-service training for teachers, and a greater college awareness of the problem of writing proficiency will bring about an improvement in the use of the English language.

FEBRUARY, 1965

PAUL C. ROSENBLOOM Professor of mathematics and a Minnesota faculty member since 1951, Rosenbloom has won international recognition, including the Frechet Prize of the French Mathematical Society in 1951. A native of Portsmouth, Virginia, he holds degrees from the University of Pennsylvania and a doctorate from Stanford, was a Guggenheim Fellow in 1947 and 1948, and had served as guest professor, lecturer or faculty member at Brown, Syracuse, Columbia, Kansas and Harvard Universities in this country and at Lund University in Sweden before coming to the University of Minnesota. Deeply concerned about methods of teaching mathematics, he now heads the "Minnesota Mathematics and Science Teaching Project," also known as "Minnemast," a project established through the aid of the National Science Foundation and the U.S. Office of Education to improve the quality of science and mathematics education. Rosenbloom also initiated the Minnesota National Laboratory, curriculum research division of the State Department of Education. He is the co-designer of an experimental mathematics course being offered for the first time this quarter, aimed principally at liberal arts students. "The emphasis", he says "is on the historical and cultural aspects of mathematics," and the class will stress those parts of mathematics important to liberal arts students and prospective elementary school teachers. Still in the experimental stages, the course is being tested by 17 colleges in 14 states this year, and will be revised and made available nationally in 1966. Typical of the man, Rosenbloom says he does not want the course to become a required one, but "such a good course that students will want to take it voluntarily."



“We cannot continue to be an isolated case.”

That is Institute of Technology Associate Dean Frank Verbrugge's terse explanation for the reduction in the existing five-year undergraduate engineering program in IT to a four-year curriculum.

The return to a four-year program, which was in effect at the University of Minnesota before 1946, was approved by the Board of Regents at their meeting in December despite misgivings on the part of some of its members.

According to Verbrugge, the five-year engineering curriculum in effect at Minnesota, Cornell and Ohio State Universities represented “islands— islands of excellence,” one which at the University of Minnesota, over the 18-year period of its existence, produced more than 7,000 engineers. Although the re-

turn to the four-year baccalaureate program rejoins the University with the “mainland” of engineering instruction in the United States, there is some ques-

tion as to whether the change means the end of the program's “excellence.”

At the board meeting which approved the cut, Regent Lester Malkerson wondered whether the move, which will reduce social science and humanities requirements for the new four-year students, will not keep future engineering students from acquiring the background in the liberal arts which present students receive under the five-year plan.

Describing his feelings about the change, Malkerson said “I won't vote against it, but I don't feel comfortable about it.” He added that he was afraid students with few humanities courses would become “slide rule experts” instead of well-educated persons.

“We'll watch to see that they don't,” was the comment of President O. Meredith Wilson, who explained that engineering students will still get a balanced program, and said he endorses the change be-

cause “it will not change the quality of our output.”

Wilson added that one likely result of the move will be an increase in enrollment in the Institute of Technology, which has the distinction of being one of the few University schools with ample room for more undergraduate students.

The switch to a four-year program may also become ammunition for those who oppose the establishment of a second public university in Minnesota, since proponents of another university have long claimed that the five-year program at the University of Minnesota seriously held back the output of engineers in the state. Mankato State College, which is attempting to gain university status, has already announced that part of its program would be a four-year engineering course as an alternative to the University's plan.

The change to a four-year degree program was originally approved at a meeting of the faculty of the College of Engineering, the School of Mineral and Metallurgical Engineering and the Department of Chemical Engineering in November. This action was based on discussions extending over several years and on a year of detailed planning, and grew out of changes in the world outside the field of education.

The five-year programs in engineering had grown out of the post-World War II reappraisals of engineering education, and the realization of the need for including more work in the basic sciences and in the social sciences and humanities in engineering programs.

According to Verbrugge, universities and colleges of engineering accommodated the increased work load in a variety of ways.

Some expanded or began five-year combined plan programs with a number of liberal arts colleges, awarding both a bachelor of arts degree and an engineering degree at the end of the five-year program. Among these were Columbia University and Case Institute of Technology.

A number of other universities

“Short cut -- the four year IT degree”

established a coordinated program within the institution, involving the awarding of either one or two degrees at the end of a five-year program of study. Included in this group were Cornell and Ohio State Universities, and the Universities of Rochester, Louisville and Minnesota.

In establishing the five-year requirement at Minnesota, the University sought to be a leader in the direction of broadening the educational experience of students training to become engineers. Over the period of its life the plan was highly successful.

In the mid-1950's however, Verbrugge said, greater attention was focused on the content of the engineering program itself. There was an increasing appreciation of the fact that, in addition to the purpose of educating engineers for the current practice of their profession, engineering education now had another, essential function: that of preparing individuals who would move into, and develop, completely new areas of engineering and technology.

The most intense impetus for this new look at the content and direction of engineering courses was the development of such totally new things as radar, the transistor and automation. Numerous reports were written emphasizing the importance of these principles, usually referred to as "engineering science": mechanics, electromagnetism, thermodynamics, fluid mechanics and the properties of materials.

New emphasis was placed on training the student in these principles, and curricula were changed to concentrate on them rather than on developing specific skill and understanding within possibly limited fields.

The impact of the studies of the 1950s on engineering education can be judged from the fact that the Engineers' Council for Professional Development (ECPD), the accrediting agency for engineering programs, now specifies that an acceptable program must contain, in addition to the course work in mathematics and the basic sciences,

"at least the equivalent of approximately one year of engineering science" which "provides depth of coverage" and in areas "not limited to those having apparent specific relevance to the major field . . . also recognition should be given to the emergence of new engineering sciences."



The University of Minnesota was an active participant in these changes. In fact, with the flexibility of its five-year program, it introduced course innovations that were much more difficult to achieve in a four-year program. By emphasizing engineering principles and less detailed analysis of the individual specialties of engineering practice, it was possible to modernize and liberalize an engineering program without extending its length. The new points of concentration on principles rather than practice have also enabled institutions to cut their programs back from the five-year plan, simply by giving up some of the individual specialty courses at the undergraduate level.

In the past decade, Verbrugge

says, the move towards the five-year baccalaureate program ceased, and no new ones have been established. Earlier this year Cornell University replaced the five-year program with one of four.

Concurrent with the trend toward four-year programs, the first part of the 1960s has been characterized by increased emphasis on graduate study for engineers, with many industries searching for engineers who have their master's degree. In most programs, the year of work for the master's degree involves a concentration of work within a specific area of engineering.

Industries originally hired graduates of Minnesota's IT, and other schools with five-year programs, at a salary level well above that of the engineer with only four years of training. In recent years, however, Verbrugge pointed out, this salary differential has been disappearing as businesses used the extra money to hire people with post-graduate education.

According to Vice President William G. Shepherd, an engineer with a five-year master's degree from another school now has a starting salary advantage of about \$150 a month over the engineer with a five-year bachelor's degree from the University of Minnesota, even though their qualifications and training are essentially identical.

As a result, the student is discouraged from taking the extra year of study, which costs approximately \$1700, when he knows that it will bring him a starting salary only \$15 to \$20 higher than that of a graduate of a four-year bachelor's program, and substantially less than some one who has spent the same amount of time on a master's program. Furthermore, more than 75 per cent of Minnesota's engineering graduates find initial employment at the baccalaureate level, a figure which indicates that baccalaureate programs will remain a vital component of engineering education at Minnesota, at least for the foreseeable future.

There has been further growth in two-year technician training pro-

grams, as well, which produce the back-up men for the full-fledged engineers. This development is significant in that it relieves engineers of the mechanical duties of their jobs and provides them with more time to devote to theory.

Other schools have taken different approaches to eliminating their five-year plans. For example, Rensselaer Polytechnic Institute has discontinued its baccalaureate program in favor of a professional master's degree program. And, last June, Cornell University established a five-year Master of Engineering program.

"Far-reaching changes have taken place in engineering education in the past ten to fifteen years," Verbrugge said. "The five-year baccalaureate program has been an important component in promoting such changes, but it no longer has the unique advantages it had fifteen years ago."

Institute of Technology officials admit that the program change will mean a decrease in the emphasis on liberal arts courses, and a reduction in the humanities content of the engineering curriculum.

The liberal arts and social sciences requirements will be reduced from 46 credit hours to 39. But since one year in engineering represents between 45 to 40 credit hours, the bulk of the courses to be eliminated fall in engineering or engineering science fields. Verbrugge added that past experience indicates that the average IT student has well above the 46 credit hour minimum in humanities courses, anyway.

The 39 credit hour minimum also is well above the minimum recommended by the engineering profession, according to Donald K. Smith, assistant vice president for academic administration, and nine hours more than the faculty-recommended minimum.

To maintain the minimum number of science courses under the new four-year schedule, a few required courses will have to be shifted into the sophomore year, a change which may particularly

affect students who transfer to the Institute of Technology after two years at another institution. However, the sophomore year courses that will be required can easily be established at those few institutions which do not offer them now.

The changeover to a four-year program, Shepherd reported, will involve a transition problem for students currently enrolled. Each engineering department will arrange transition programs for its own students.

In general, students now in the fifth year of their training will finish the five-year baccalaureate program. Third and fourth-year engineering students will take one or two additional quarters of work beyond the fourth year of the five-year program. The variation is due to different course sequences within the engineering departments. First and second-year students will complete their work for the bachelor's degree in four years.

The school's admission policies will not change, however.

"The Institute of Technology has facilities which enable it to admit and provide programs for all qualified applicants," Vice President Shepherd commented, "and the present admissions policy will continue."

The change at Minnesota, in line with the national trend of engineering schools, will almost certainly mean that more students will be attracted to the Institute of Technology's engineering programs, with a consequent increase in the number of engineers produced by the school. But whether it will also mean a corresponding change in the quality and professional competence of those graduates cannot be answered for some time to come.

The University's revision of its engineering curriculum must be viewed in light of the changing conditions of the world in which its graduates must compete. The increased demand for engineers by industry, especially those with advanced degrees; the availability of facilities and space within the Institute of Technology that could be

employed to produce twice its present number of graduates without expansion; the unpopularity of a five-year program when it produces no tangible benefits over a four-year program in the job market; and the changes within engineering itself which permit a reduction in the number of courses required—all of these have been important factors in forcing the revision.

If the present pace of technological development continues, the Institute of Technology can undoubtedly look forward to further changes in the future. □



BOOKS

Whitney Young, Jr.

Whitney Young, Jr., executive director of the National Urban League, and former dean of the Atlanta University School of Social Work, has completed a new study of practical alternatives to continuous racial conflict. In "To Be Equal," being published by McGraw-Hill, New York, he proposes America's first and most comprehensive program of special effort in employment, education, housing, welfare and leadership.

His theme is that what is imperative today is not merely the elimination of injustices and inequities, but a special effort on the part of the entire white and Negro population to help the Negro overcome "the discrimination gap"—the crippling effects of a legacy of over three hundred years of deprivation.

A native of Kentucky, Young received his master's degree in social work from the University of Minnesota in 1947.

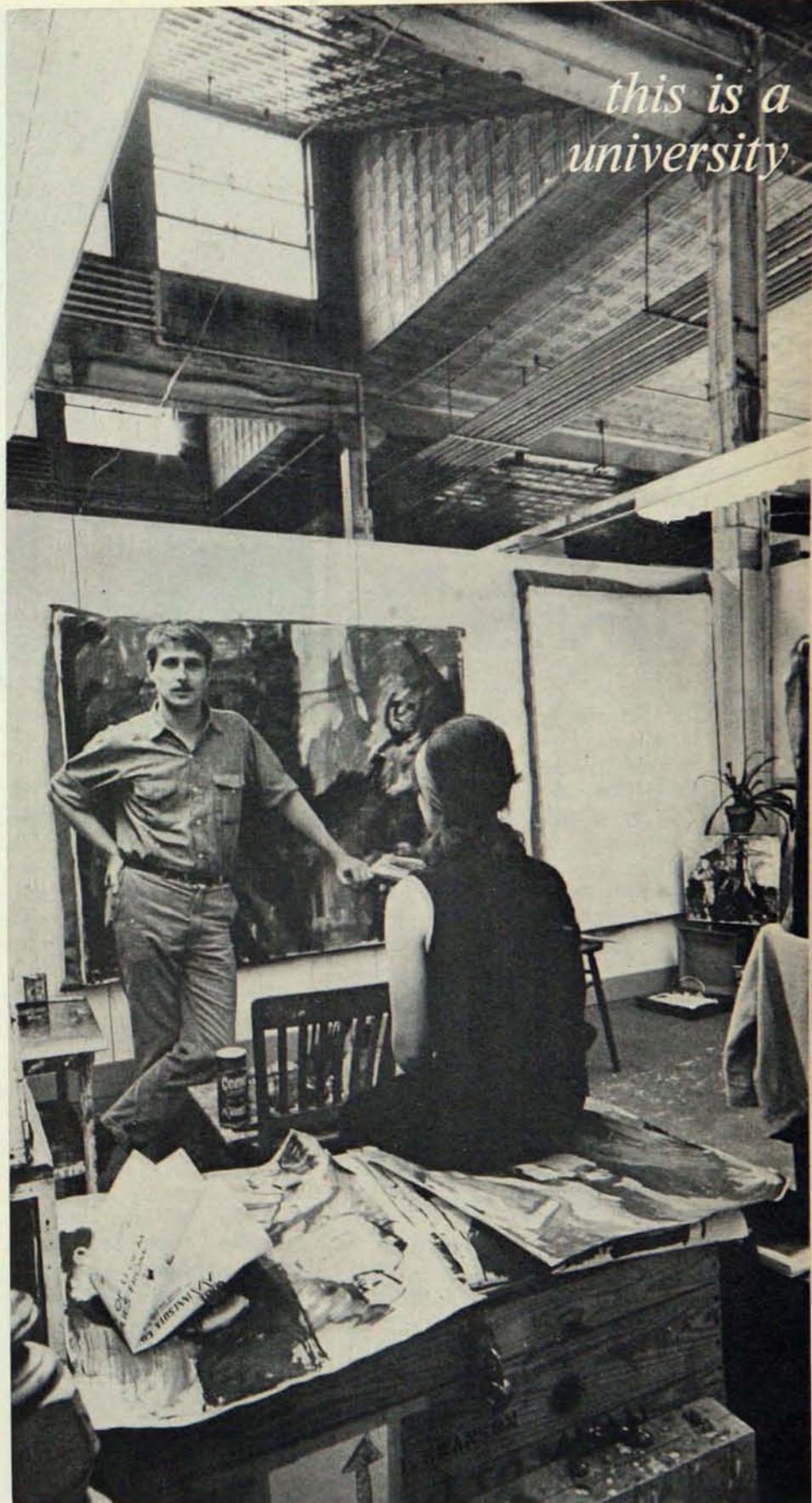
Dorothea Malm

A new book by Dorothea Malm, "On a Fated Night," has been published by Doubleday & Company, New York. Miss Malm received a B.S. degree from the University of Minnesota in 1936 and an M.A. degree in 1938.

the ARTS

Among the more intriguing facets of university life are the many possibilities it presents for becoming involved in the arts — an involvement which, for many students, becomes a lifelong commitment. Standing amid the painterly clutter of one of the individual studios in the West Bank Art building, newly converted to the purpose from an old billboard factory, the art student is aloof and strangely removed from the onrush of college life. In an atmosphere of quiet and classical music, the air heavy with the smell of linseed oil and turpentine and the walls crazed with splashes of color, he goes about the business of learning and maturing on a more individual basis than any other kind of student. The paintings that surround him now may not be great art, but that is not to say he will never be a great artist. At worst, the rounds of painting and endless conversation constitute a richness of experience that he may never find again. At best, they may produce a Picasso or a Pollock. Who knows?

fifth in a series



MINNEMATH

(Continued from page 13)

the rapidity with which the limits of knowledge and technology are expanding.

Students appear to learn better—and remember what they have learned—when they discover some general principles for themselves—usually from specific examples or experiments, rather than having to get them directly from a textbook or teacher.

Finally, they are more likely to retain what they have learned if the information is applied usefully, as in the application of mathematics to science on which Minnemath is working.

The new curricula which Minnemath has developed are now moving out of the writing stages into the advanced stages of testing. Embodying Rosenbloom's philosophy that "we should be thinking about learning with pleasure and profit," the new material, which works mathematical and scientific ideas into games, stories and activities in which the children are more likely to become interested, this year is being tested in some 300 classrooms in 14 states, with teachers who have studied at the Minnesota National Laboratory. Also cooperating in the tests are 18 colleges and large numbers of secondary school teachers.

What is such a test class like?

A good example is a third-grade class being taught algebraic equations and how to translate them into graphs, in this case in a Hollywood, Florida, elementary school:

The teacher opens the session with the science phase of the lesson.

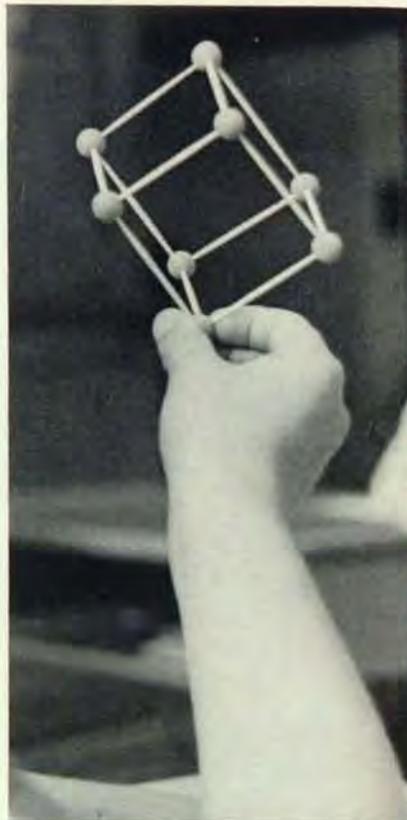
"Which weighs more: a pound of lead or a pound of feathers?"

The class is nearly unanimous in its answer: A pound of lead, naturally.

"Well then, which is heavier—this pound of oleo over here or that pound of oleo over there?" asks the teacher.

No one is sure what oleo is at first, so the answers are slow in coming.

"That one over there," offers one little girl, shyly.



Models make mathematical principles easy to grasp in Minnemath's approach to learning.

"Both the same" suggest several others, and after some discussion, the class as a whole agrees that this, after all, makes more sense.

Then they discover that it would take a lot more feathers to weigh the same as a pound of rocks.

(The object of the lesson, according to Dr. Rosenbloom, is to get across the principle of density.)

"Rocks weigh more because they're filled in the middle," offers one little boy.

After the opening theorizing is completed, rocks are distributed to the class. They are to be weighed on small scales—then dropped into water-filled measuring glasses to determine volume.

In a number of cases, they are also tasted, chewed upon, or dropped on the floor. When the measuring is done, however, Rosenbloom begins the mathematics aspects by introducing an algebraic graph.

"This," he says, with apologies for his crooked chalk lines, "is a map of a town called Squaresville."

The children, somewhat surprised at how fast they are learning to think like scientists, slowly begin to create an algebraic graph showing the relationship of weight, volume and density in terms of dots and lines, after which the class ends.

This type of teaching, in the words of one instructor in the program, "gets the child away from a self-centered approach to a problem and makes him look at it in a logical manner."

"Minnemath," he adds, "places the emphasis on understanding."

The significance of the program to date may be seen in the direct influence it has had on the quality of education in Minnesota.

Through the experimental classroom facilities of the Minnesota National Laboratory, curriculum changes sponsored by Minnemath have already affected some 13,000 students in the immediate five-state area (plus 7,000 more across the United States) and are responsible for the fact that this past fall between 10 and 30 per cent of Minnesota college freshmen had been exposed to modern mathematics in high school.

According to Rosenbloom, "about 20 per cent of the college freshmen in Minnesota have been in experimental classes sponsored by the Laboratory. Several Minnesota colleges have, as a result, been able to strengthen their entrance requirements and eliminate remedial high school courses. In one summer, working with 19 colleges in the state, we gave instruction to more than 10 per cent of Minnesota's mathematics teachers."

"Ultimately," he says, "the Laboratory will have sections in all areas of the curriculum, directed by experts who command the respect of both scholars and educators in their fields."

The Minnemath Center itself, which has grown rapidly since its inception, he sees serving "as a model for what can be done in any field of knowledge. I expect ultimately that it will develop into a mathematics and science teaching

(continued on page 32)

ALUMNI GIFT GUIDE



BLAZER EMBLEM

Handcrafted in India, this beautiful reproduction of the University of Minnesota seal is authentic in every detail. The 3 3/4 inch wide seal is mounted on a raised background of gold cloth and maroon and gold embroidery. Made originally to sell at \$15.00, available to MAA members for \$7.50, non-members \$8.95.



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Lighters by Parkl Smart gold finish bears the Great Seal of the University and the Minnesota Gopher, embossed in maroon. An excellent gift for yourself or a friend. Only \$3.50 postpaid for Association members, \$4.00 to non-members.

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MINNESOTA PLATES

by *SPODE*

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Scenes available are Northrop Auditorium and Marrill Hall, Main Gate, Armory, Pioneer Hall, Folwell Hall, Memorial Stadium. Set of 6—\$19.50 members, \$22.00 others. Individually \$3.75 for members; others \$4.25.

MINNESOTA PLAYING CARDS

The University Regent's Seal on the back, one with a maroon seal on white, the other gold on maroon. Postpaid to members \$2.25; others \$3.00.



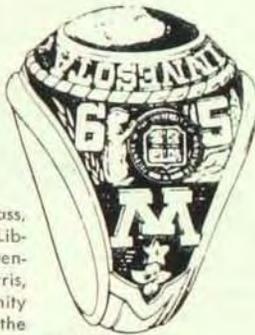
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ALUMNI GIFT GUIDE

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Now offered with class, college and degree (Liberal Arts, Medicine, Dentistry, I.T., Duluth, Morris, etc.) or your fraternity insignia encrusted on the stone.

MINNESOTA SIDE



Engineering



Business Administration

Official Minnesota Ring—Selected by the Board of Directors of the Minnesota Alumni Association as the official design. The **Minnesota Side** contains the University Seal with the Golden Gopher and the Minnesota "M", your graduation date appears at the top of this side. The **University Side** features Northrop Auditorium combined with different elements for most of the colleges—I.T., Business, Medicine, Dentistry, Law, Duluth, Morris and the all-University design. Academic degree appears at the top of this side. Greek letter or Club encrusting can be encrusted on the stone.

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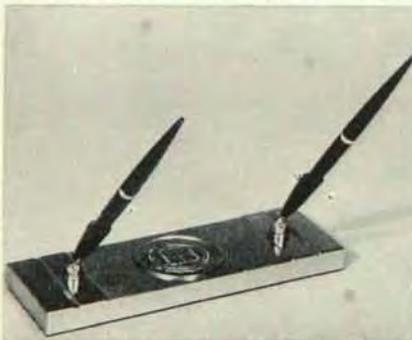


Law



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_____ Minnesota Blazer—Please circle: short, regular, long; extra long add 15%. Circle size: 36, 37, 38, 39, 40, 42, 44, 46, 48 and larger by special order, add 15%.

_____ Minnesota Spode Platewear—Check: Northrop Gate Armory Pioneer Folwell Stadium. One plate Set of six.

_____ Minnesota Blazer Buttons
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_____ Minnesota Savings Bank
_____ Minnesota Cigarette Lighter
_____ Minnesota Pen and Emblem Set
 Double Pen
 Single Pen

THE UNIVERSITY

University to Seek Full Building Request, Despite 60% Cut

The University of Minnesota will lobby in the 1965 Minnesota Legislature for its full 1965-67 building request of \$48.5 million, despite the Legislative Building Commission's recommendation of only \$19 million, or 40 per cent of the original University request.

President O. Meredith Wilson issued a statement on December 29 commending the commission for its "statemanship" but terming its recommendation "less than the University's needs and less than the state's interests require."

Wilson also expressed his confidence that "fresh revenues will permit an enlargement of the bill."

The Legislative Building Commission, headed by Sen. J. A. Josefson (C., Minnesota) prepared its recommendations after touring all state institutions in June. From a total state request of \$142 million (all building) it recommended \$64 million.

Its recommendation for the University is roughly 40 per cent of the amount University administrators consider necessary for the next biennium. State college recommendations, in comparison, were approximately 60 per cent of the amounts requested.

In the last two sessions, University requests were cut sharply. In 1961, it asked for \$21.7 million and received \$7.5 million. Again, in 1963, the Legislature appropriated \$12.5 million of a \$35.7 million request.

The two largest single items in the University's requests—the West Bank Library and an East Bank lab and classroom building—were both sharply reduced.

The lab and classroom building, to be built south of the present Chemistry Building, was reduced from \$5,440,000 to \$2,440,000 in order to allow \$3 million for the West Bank Library, originally eliminated completely.

The 1963 Legislature appropri-

ated \$4,200,000 for starting the library, and \$5,042,000 was requested for this biennium to complete the structure.

Other major West Bank structures were eliminated completely, including a \$3.6 million communication and fine arts building and a \$2.7 million humanities office building.

Total Minneapolis requests were reduced from \$29 million to \$12 million, St. Paul campus from \$9 million to \$4 million, Duluth from \$6 million to \$1 million, Morris from \$2 million to \$1.5 million and

experiment stations from \$1.8 million to \$300,000.

President Wilson's statement on the recommendation added that, though the Commission's recommendation was disappointing, "the University . . . is aware of the fact that the Legislative Building Commission assignment was a very difficult one.

"It is a fair measure of this Commission's recognition of the great needs of the University to note that, while the problems of taxation and existing resources were almost overwhelming, they nevertheless recommended an appropriation of \$2 million greater than did the last Commission."

Stanley J. Wenberg, Vice President for Educational Relationships and Development, is heading the University's lobbying team in the Legislature, backed up by a Legislative Committee of University officials.

Cost of "U" Operations During Fiscal 1964: \$114 Million

Operating costs of the University of Minnesota for the fiscal year ending June 30, 1964, totaled \$114,230,833.76 for all campuses and stations, according to a summary of financial operations released by L. R. Lunden, business vice president.

Of this total, the State of Minnesota provided 31 per cent.

In addition to its operating expenses, the University paid out \$10,134,063.07 for the construction and remodeling of buildings and the purchase of land. In the 12-month period, to meet construction costs, the sum of \$8,526,075.98 was withdrawn from funds appropriated by the State Legislature for that purpose.

Largest operating outlay, Lunden reported, was the \$29,722,531.29 spent for the instruction of students at collegiate level and for departmental research on all campuses. An additional \$15,333,363.91 was expended for organized activities relating to instructional departments such as University Hospitals and libraries.

Budgeted and sponsored research expenditures amounted to \$25,331,625.43. The cost of exten-

sion and public service activities such as the general extension division, agricultural extension and the Minnesota Museum of Natural History totaled \$9,087,858.75.

Added to the University's overall operating costs of \$114,230,833.76 were the cost of transfers, increases in obligations and other adjustments, amounting to \$6,765,349.89, for a total of \$120,996,183.65. Of this total, the State of Minnesota provided \$37,067,932.49 or 31 per

cent. State support funds consisted of the Legislative maintenance appropriation of \$30,137,901.00, a special appropriation of \$4,695,391.18 (\$2,442,602.19 of which was charged to the counties) for the care of indigent patients at University Hospitals and a Legislative allotment of \$4,677,242.50 for special projects carried on by the University for the general benefit of Minnesota's citizens.

Sources of the University's operating income other than the State, the report indicates, are: appropriations from the Federal government \$3,156,768.97; student tuition and fees, \$11,695,702.92; self-supporting auxiliary enterprises, \$17,881,472.49; trust funds, \$31,552,572.69, of which \$23,434,919.30 represents federal contracts and grants; and intercollegiate athletics, \$1,597,684.93.

Income from intercollegiate athletics included \$1,501,768.17 from the Minneapolis campus, \$82,778.16 from the Duluth campus, and \$13,138.60 from the Morris campus. Expenditures for the operation of intercollegiate athletics and that part of physical education expenses paid from athletic receipts totaled \$1,778,682.20 for the fiscal year 1963-64. Involved was an outlay of \$1,688,284.12 in Minneapolis, \$78,042.54 in Duluth, and \$12,355.54 in Morris.

Other highlights of the report: Overall total current fund receipts of the University for the fiscal year amounted to \$120,996,183.65. The free unencumbered balance as of June 30 was \$1,653.93.

Expenditures for building and remodeling and land purchases, totaling \$10,134,063.07, were distributed as follows: Minneapolis campus, \$8,119,242.87; St. Paul campus, \$462,247.95; Duluth campus, \$1,386,253.46; Morris campus and station, \$44,947.96; outlying schools and stations and off-campus plant, \$121,370.83.

At the close of the fiscal year, the University total endowment fund, including the Permanent University Fund, which amounted to \$47,645,603.82, totaled \$69,679,823.38.

University-owned land as of June 30, 1964, consisted of 16,638.67 acres which cost \$11,786,282.00, while the University's 916 buildings had an estimated value of \$135,062,587.40, representing original cost. University equipment was valued at \$59,037,294.63 and included \$364,782.91 in livestock and \$12,880,584.94 in books and museum collections.

Retired Extension Dean Dies

Dean Emeritus Julius M. Nolte, 70, former head of the General Extension Division of the University of Minnesota, died January 15 in

Minneapolis. He had retired in 1963 after 26 years on the faculty, 17 of them as dean.

The Extension Division, offering evening and special classes, correspondence course, seminars and conferences for business and professional groups, became the University's largest enrollment category under his direction.

A native of Duluth, Nolte was a graduate of Yale and the University Law School. He was a second lieutenant in the Air Corps in World War I. In 1937 he was appointed director of the Center for Continuation Study, and became head of the General Extension Division during World War II.



GREETING GUESTS at a University of Minnesota Foundation dinner in New York City recently were, left to right, Carlyle E. Anderson, president of the foundation; Mrs. Anderson; Mrs. Frederick R. Kappel; Frederick R. Kappel; Mrs. O. Meredith Wilson; and President Wilson. The dinner was held to introduce the Pillsbury Fellowship to alumni living in New York.

Trustee Board of Minnesota Foundation Holds Annual Meeting, Election of Officers

The University of Minnesota Foundation, organizer and sponsor of the Governor John Sargent Pillsbury Fellowship; held the annual meeting of its board of trustees January 22 in Minneapolis.

Re-elected at the meeting were all of the group's incumbent officers: Henry Mackall, chairman of the board; Carlyle Anderson, president; Arthur Motley, senior vice-president; Harold Sweatt, vice president; John K. Fesler, vice president; Jay Phillips, secretary; and John Pillsbury, Jr., treasurer.

The board of trustees heard President O. Meredith Wilson report on the "State of the University" and its challenge to the foundation.

It also heard committee reports, and appointed committee members for 1965. The Foundation has seven committees executive, investment, advisory wills and bequests, auditing, distribution, development, and projects.

The Pillsbury Fellowship, which the Foundation sponsors, was organized to "encourage participation and to stimulate the active interest of the alumni and friends in the concerns of the University." Each of its members has contributed \$10,000 or more to the Foundation to help the University meet its rapidly growing responsibilities.

CAMPUS NEWS

ST. PAUL

Dorothy Simmons, professor and state leader of the University of Minnesota's extension home program for 16 years, retired on October 31. Under her direction, the Extension Service's home economic staff has expanded to 83 home agents in 80 counties, 10 subject matter specialists, and five district supervisors. . . . Two specialists have been added to the staff of the Cooperative Agricultural Extension Service: **Richard C. Hawkins**, named assistant agricultural extension specialist in farm management, and **Richard Munson**, assistant extension specialist in home furnishings.

DULUTH

The new UMD **Lutheran Student Center**, formerly St. John's Lutheran Church, opened on Nov. 29. The building was given to the students by the church's congregation, after they merged with another church. The building is located at 2307 E. Superior Street.

MINNEAPOLIS

The Minneapolis City planning commission is considering zoning changes in the University area, as the result of proposals to construct **privately-financed dormitories** nearby. Largest of the proposals is that made by a Milwaukee firm to build a \$2 million 430-student coeducational dormitory above the property presently occupied by the Koehler Service Garage on University Ave.

The Atomic Energy Commission has announced approval of a proposal for a new tripartite agreement for the operation and management of the **Argonne National Laboratory**, in Chicago. According to the plan, the prime contract would be shared by the AEC, the University of Chicago, and a non-profit corporation to be organized by a group of midwestern universities, including the University of Minnesota. Argonne was established in 1946 and represents a cap-

ital investment of \$325 million and has some 5,000 employees. . . . A total of **1,287 foreign nationals from 83 countries** are affiliated with the University for the 1964-65 academic year, according to Josef A. Mestenhauser, assistant foreign student adviser, an increase of 219 over the previous year. The largest single group comes from Free China (Formosa), 188, with India, 153 and Canada, 101, following behind. Korea, with 62, the Philippines, with 45, and the United Arab Republic, 66, are the next largest groups.

Paul Faust, Institute of Technology junior, was named **captain of the 1965 Gopher football team** at the traditional torch passing ceremony held in conjunction with the University's annual student assembly for football awards. Forty-one players were awarded letters at the same ceremony, held Nov. 25 in Coffman Memorial Union. . . . A Minnesota chapter of the National Kidney Foundation, a health agency primarily concerned with diseases affecting the kidneys, has been formed. **Dr. Robert L. Vernier**, University associate professor of pediatrics and renal clinic director, is a member of the group's scientific advisory board. . . . **Professor Paul M. Oberg**, head of the Department of Music and Music Education, represented the University at the 40th annual meeting of the National Association of Schools of Music, held in St. Louis Nov. 27-28. Oberg is a member of the group's commission on curricula and chairman of the sub-committee on master's degrees. . . . The **Minnesota International Center for Students and Visitors** has moved into its new headquarters, a three-story residence at 711 East River Road, next to the new quarters of the Office of Foreign Student Advisers. The center, according to Mrs. Kenneth C. Thompson, executive secretary, serves the 1,604 foreign students from 83 countries attending the University, and the estimated 400 foreign visitors who

will arrive during the course of the year. . . . **Schoolmen's Day** this year replaced Schoolmen's Week" — held in each of the last 50 years by the University's College of Education as a short course for Minnesota's educational leaders. Theme of this year's meeting, held Dec. 3, was "Financing Public Elementary and Secondary Schools."

PEOPLE

Dean George P. Hager of the College of Pharmacy has been appointed by President Johnson to serve on the National Advisory Committee to Selective Service on the Selection of Physicians, Dentists and Allied Specialists. . . . **James L. Jenkins**, University psychology professor, has received a fellowship to spend the 1964-65 academic year studying at the Center for Advanced Study in the Behavioral Sciences at Stanford University. . . . **Edwin Emery**, professor of journalism, has been elected editor of the *Journalism Quarterly*, a publication of the Association for Education in Journalism. He succeeds **Raymond B. Nixon**, also a University Journalism professor, who is in his 20th year as editor of the journal. . . . Professor **Gisela Konopka** of the School of Social Work, the third woman president of the American Orthopsychiatric Association, will preside over the group's annual meeting in March. . . . **Ralph E. Berdie**, professor of psychology and director of the University student counseling bureau, has been elected president of the American College Personnel Association.

GRANTS

Dr. Alvin S. Zelikson, clinical assistant professor in the division of dermatology of the College of Medical Sciences, has received two **National Cancer Institute research grants totaling \$26,731**. The funds will be used during the 1964-65 academic year for electron microscopy research of human skin and cutaneous tumors.

THE ALUMNI

MAA Annual Meeting Set For June 1

The 61st Annual Honors Presentation and Annual Meeting of the Minnesota Alumni Association will be held June 1, 1965, in the Leamington Hotel, Minneapolis.

The event will begin with a reception at 6:00 p.m., followed by the dinner and annual meeting at 6:45.

The evening's program will include the presentation of Outstanding Achievement and Alumni Service Awards by University President O. Meredith Wilson, and an address by a speaker of national prominence.

Guests of honor will be past recipients of the Outstanding Achievement Award and Alumni Service Awards.

The annual meeting is the most important alumni function of the year—mark it on your calendar now.

Alumnae Club To Spend "An Evening with the University Theatre" March 2

Members and guests of the Minnesota Alumnae Club will spend "An Evening With the University Theatre" March 2 when the group holds an evening theater party on the Minneapolis campus.

Highlight of the evening will be the presentation of a play—August Stringberg's "The Crown Bride"—by members of the University Theatre in Scott Hall auditorium at 8:00 p.m.

Preceding the performance, at 6:45 p.m., the group will hear Professor Robert Moulton of the University's Department of Theater Arts discuss the play in the Campus Club on the 4th floor of Coffman Memorial Union. Dessert and coffee will also be served.

Cost for the entire evening, including refreshments and theater tickets, is just \$2.00, made possible by a group theater rate. Reservations should be made by February 26 with the Minnesota Alumnae Club, 373-2466.

Diversity of Interests Marks New Constituent Board Members

Recently-elected members of the constituent groups' boards of directors seem to have just one thing in common: the wide variety in their interests and occupations.

Among those recently taking office are:

DENTAL ALUMNI:

Edwin J. Laberee '43 DDS, in private practice in Redwood Falls, Minnesota, he is also president of the Redwood Falls Alumni Association, a private pilot since 1948 and member of a local flying club, and a member of the American Society of Dentistry for Children. He is a past Master of Masonic Lodge #207 at Staples, Minn., former instructor for the Dale Carnegie Courses, trustee of First Eng. Lutheran Church of Redwood Falls and Staples, and served in the U.S. Navy Dental Corps during World War II. He is married and has five children.

MEDICAL ALUMNI:

Edward L. Segal '50BS '50BA '53MD '59MS. A pathologist at the Methodist Hospital, Minneapolis, special training includes clinical pathology at the University of Minnesota Hospitals and anatomic pathology at the Mayo Clinic, Rochester. A Phi Beta Kappa graduate of the University, he is presently a Diplomate of the American Board of Pathology, a fellow in the College of American Pathology, and a fellow in the American Society of Clinical Pathology. He is married to the former Shelley Kaufman '51BSEd, and the father of five children.

SCHOOL OF BUSINESS:

William E. Costello '50BBA, grew up in Kellogg, Minnesota. Following high school, he entered the U.S. Army and served in the Far East Command. After the war he attended the University of Minnesota, receiving the Alpha Kappa Psi Scholarship Award in 1949, and graduating with high distinction in 1950. He was employed by Anchor Casualty Company from 1950-62 in various capacities, including branch manager and assistant treasurer. He earned the Certified Property and Casualty Underwriter designation in 1957. In 1962 he joined the Nicollet Clinic, Minneapolis, as business manager. He is married and the father of three children.

Edward W. Asplin '44BA, vice president—marketing for Northwestern National Bank of Minneapolis, did graduate work at the University of Michigan and Wayne University, and in 1957-59 attended

Business Alumni to Host Students

The School of Business Administration Alumni Association will play host to student leaders of the School at a luncheon to be held on Tuesday, February 2, in the Minnesota Alumni Club.

Student leaders invited to attend include Thomas Hofstedt, William A. Anderson, Bruce Neumann, Frank A. Brooke, Arlene Wilkeli, Russell Otto, S. Paul Seifert, Richard Sells, Preston Miller, Kathleen Hamer, James Moore, Bill Bowers.

Speakers at the affair will include SBA Alumni Association president George J. Frey and Dean Grambsch.

the Rutgers Graduate School of Banking. Before joining the Northwestern Bank in 1950, he was employed by Weyerhaeuser Co. and the National Bank of Detroit. During World War II he served in the Navy's Supply Corps. His present civic activities include the Minneapolis Chamber of Commerce and the Minneapolis Association for Retarded Children, of which he is a board member.

Everett H. Dale '49BEE, has been Director of Quality for the Aeronautical Division of Honeywell since 1955. Following his graduation from the University, he did graduate work in electrical engineering at Northwestern Univer-

Medical Student Council, Adytum Cabinet Members, To Be Guests of Alumni at Dinner

Members of the Medical School Student Council and the Medical School Student Adytum Cabinet will be the special guests of the Medical Alumni Association at a cocktail party and dinner planned for Wednesday, February 17.

sity, and is presently working on a masters degree in business administration at Minnesota. He has been employed by Honeywell since 1950. Other activities include serving as chairman of alumni gifts for the University's Henry E. Hartig Service Fund and membership in the Minneapolis Aquatennial Committee.

The dinner will give the students an opportunity to become acquainted with the alumni.

To be held in the Minnesota Alumni Club on the lobby floor of the Sheraton-Ritz Hotel in downtown Minneapolis, the cocktail hour will begin at 6:30 p.m., followed by dinner at 7:30.

New president of the Association is James C. Mankey '43MB '43MD.

Meet the Constituent Group Presidents . . .



J. LEONARD FRAME, new president of the Institute of Technology Alumni Association, has been president of FluidDyne Engineering Corporation, Minneapolis, since 1952. A 1939 graduate of South St. Paul High School, he received a bachelor's degree in aeronautical engineering from the University of Minnesota in 1943. In addition to his work in the Minnesota Alumni Association, he is a member of the American Management Association, a director of the Twin Cities Section of the American Institute of Aeronautics and Astronautics, and a member and elder of the Valley Community Presbyterian Church in suburban Golden Valley.



ROBERT B. PETERS, president of the School of Mortuary Science Alumni Association, is a lifelong resident of St. Paul. Born there in 1925, he spent three years in military service and graduated from the University of Minnesota in 1948 with an A.M.S. degree. Since that time he has been continuously associated with the Willwerscheid and Peters Mortuary, St. Paul, and is presently secretary of the firm. He is a member of the board of directors of the Minnesota Funeral Directors' Association, member of the American Legion and the Midway Serra Club. In 1961 he served as chairman of the St. Paul Open Golf Tournament.



GEORGE J. FREY, president of the School of Business Administration Alumni Association, attended the University from 1938 through 1941. After four years of military service in the Army Air Force, he returned and received his bachelor's degree in business administration in 1946. A C.P.A. and partner in the firm of Peat, Marwick, Mitchell & Co., he began his professional career in that firm's Washington office where he also received his C.P.A. certificate. He transferred to its Minneapolis office in 1949, and since 1958 has been partner in charge of the St. Paul office. His other University activities include a long association with the Phi Gamma Delta fraternity.



MEETING WITH UNIVERSITY PRESIDENT O. Meredith Wilson during his visit to the Chisholm-Hibbing Chapter of the Minnesota Alumni Association on Nov. 30 were, left to right, Harry Wernecke, chapter president; Mrs. John Kavlie, chapter secretary-treasurer; President Wilson; Mrs. Harlan Hedtke and James V. Abate, directors of the chapter; State Representative Loren Rutter; Frank Zakrajsek and J. J. Taveggia, mayors.

Technology Alumni Stag for IT Deans, Department Heads, Set for February 16

The annual stag party for deans and department heads sponsored by the Institute of Technology Alumni Association will be held this year on Tuesday, February 16 in the Leamington Hotel, Minneapolis.

Held to honor the deans and department heads within the Institute, the affair will consist of a cocktail hour from 6 to 7:30 p.m., with dinner following at 7:30. Each dean and department head will be the guest of an IT Alumni Association board member.

The stag will be held in the President Washington A & B rooms of the Leamington.

President of the Institute of Technology Alumni Association is J. Leonard Frame, president of Fluidyne Engineering, Minneapolis.

WHEATON

Bruce Sherwood has been elected president of the Wheaton chapter of the Minnesota Alumni Association, succeeding Mrs. A. R. Johanson. Other officers include Mrs. Gordon Donnelly, vice president; Dr. J. H. Alevizos, secretary-treasurer; John Carlson, Dr. H. N. Weickert, Gordon Donnelly, Donald Bluhm, Marvin E. Lundquist, Mrs. A. R. Johanson, director.

MORRIS

Keeping track of the activities

and whereabouts of its alumni is an easy job for the 4-year-old University of Minnesota, Morris (UMM), which so far has graduated just one class, of 61 students.

In its first check on its alumni, UMM has discovered that almost half its graduates are teaching, more than 25% are doing graduate work, and roughly one-third have stayed in western Minnesota.

More than half of the school-teaching alumni are in western Minnesota communities, but some have travelled as far as Colorado, Illinois and Alaska. The bulk of the graduate students are on the University's Minneapolis campus, but many have been drawn into institutions in other states, including Iowa, Nebraska, Wisconsin, North Dakota, Washington State, California, and Missouri.

Three alumni are in the Peace Corps, two in West Africa and one in South America, eight are employed in fields other than teaching — four in business and four in civil service jobs — and three are in the armed services.

CHAPTER MEETINGS

Alumni Chapters in Minnesota with guest speakers

February 1, 1965 — Alexandria — Prof. Elden Johnson, Anthropology.

February 1, 1965 — Montevideo — Dr. William G. Kubicek, Physical Medicine and Rehabilitation.

February 1, 1965 — Aitkin — Prof. John E. Verrill, Secondary Education, UMD.

February 4, 1965 — Fergus Falls — Dean Robert J. Keller, College of Education.

February 4, 1965 — Marshall — Dean E. G. Williamson, Dean of Students.

February 4, 1965 — New Ulm — Prof. Robert L. Jones, School of Journalism.

February 4, 1965 — St. Cloud — Dr. William Rogers, World Affairs Center.

February 9, 1965 — Little Falls — Prof. Roy Schuessler, Dept. of Music.

February 9, 1965 — Wadena — Dr. Lyle French, Neurosurgery.

February 11, 1965 — Glenwood — Prof. Edwin Fogelman, Political Science.

February 16, 1965 — Austin — Dr. William S. Howell, Speech and Theatre Arts.

February 16, 1965 — Bemidji — Prof. Gordon O. Voss, Industrial Education, UMD

February 17, 1965 — Faribault — Dean Willard Thompson, General Extension Division.

February 18, 1965 — Cloquet — Prof. Luther J. Pickrel, Director, Agricultural Extension Service.

February 22, 1965 — Morris — Prof. Norman J. DeWitt, Dept. of Classics.

February 22, 1965 — Wheaton — Prof. Willard Cochrane, Agricultural Economics.

February 23, 1965 — Luverne — Prof. Adrian Gerald R. Firth, Secondary Education.

February 24, 1965 — Redwood Falls — Dean Keith N. McFarland, College of Agriculture, Forestry and Home Economics.



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Minnesota Alumni Association

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\$ _____ to cover my order.

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New York

President O. Meredith Wilson of the University of Minnesota was on hand as guest speaker at the October 28, 1964, meeting of the University of Minnesota Alumni Association of New York. Speaking before 45 dinner guests gathered at the famous Overseas Press Club, President Wilson discussed present and future plans and problems of the University.

Also present at the meeting was Dr. Benjamin Gruenberg, class of 1896, who not only is a regular participant in the New York group's activities but is also the original founder of the Association in the East.

Roland Williams, president of the New York chapter, presented President Wilson with a contribution of \$200 from the chapter for the freshman scholarship fund.

St. Cloud

Plans for the annual meeting of the St. Cloud Chapter of the MAA were made January 14 at a meeting of the group's board of directors. Guest speaker at the event, to be held February 4 in the Tangerine Room of the Hub Restaurant in Waite Park, will be Dr. William C. Rogers, head of the University of Minnesota's World Affairs Center.

Rogers will speak on the United Nations and Red China, with emphasis on how Red China's possession of an atomic bomb will affect the future of the United States.

A social hour at 6:30 p.m. will precede the dinner, which will begin at 7:00 p.m. Dinner reservations may be made with Mrs. Joseph Laughlin or Mrs. Wendell Henning.

Denver

The Denver, Colo., chapter of the Minnesota Alumni Association is planning a hockey party for February 13. Members of the chapter will go by chartered bus to the Broadmoor Ice Palace in Colorado Springs, with a stopover at the Palmer House for a leisurely dinner, to attend a hockey game between the University of Minnesota and Colorado College. Following the game, a short cocktail hour will be held in the International Congress Room of the Broadmoor. Members interested in attending can receive additional information and make reservations by contacting chapter president Roger Copeland, 5682 Chestnut Avenue, Littleton, Colorado.

The chapter's secretary, Mrs. James Hunter, has moved to Minneapolis. Appointed to fill out her term is Mrs. Harold Weber, 2600 Magnolia, Denver.

WHERE DO YOU STAND?

Shown below are Minnesota Alumni Association membership rankings for the month of December, 1964, by number and percentage of total possible membership in each group

Group	Rank by no.	% of total possible membership	Rank by %
College of Liberal Arts	1	17.3%	9
Education	3	11.2	12
Institute of Technology	2	20.9	7
Medicine	4	39.0	1
Nursing	9	15.0	10
Dentistry	6	35.2	4
Agriculture, Forestry			
Home Economics	7	14.1	11
University of Minnesota, Duluth	8	18.0	8
Business	5	21.9	5
Pharmacy	10	38.0	3
Veterinary Medicine	12	38.9	2
Mortuary Science	11	21.2	6

For Minnesota hockey, the magic word is still...

DEFENSE!

by Mike Lyons

Back in November, defense was considered the key to Minnesota's 1964-65 hockey outlook. As the Gophers enter the final month of the campaign, the future still hinges largely on the single word — defense.

Blessed with an excellent goalie in junior John Lothrop and a dangerous, well-balanced attack, the Gophers have left something to be desired on their own half of the ice. Not that there haven't been some fine defensive efforts, but consistency has been lacking. Mistakes at crucial times have led to costly goals.

Before the season got underway, Coach John Mariucci was optimistic. "Prospects are real good," he said. "We'll definitely be a contender." When the campaign became a reality, however, "Maroosh" had some second thoughts. He was not pleased by the Gophers' play in early games, pointing to defensive lapses and failure to cash in on scoring chances. Despite his displeasure, the results were not really discouraging. The Gophers were tied for first place as late as mid-January.

Whatever the conclusion to be written to the Gopher hockey story in the remaining weeks, Mariucci feels that he has a good team, one which will have something to say about who claims the Western Collegiate Hockey Association laurels. He also has his eye on an Association playoff spot.

The Gophers combine experience and talented newcomers with great determination and competitiveness. If they can make enemy goals a bit harder to come by, a strong finish could be in the offing.

There are only four seniors in the starting lineup — defenseman Nick Haigh and wings Craig Falkman, Roy Nystrom and Larry Stordahl. Falkman and Stordahl are co-captains.

Haigh is one of the team's best hockey players. Originally a center, he was shifted to defense before the season and has become a dependable blueline performer and one of the squad's leaders in assists. He couples good size, strength and speed with one of the finest shots on the club.

Falkman won all-American honors as a junior but was rather slow hitting his stride this season after recovering from a knee operation. A dashing, rough-and-ready competitor, Falkman is a crack shot and a fine all-around player. He ranked second in team scoring a year ago and finished fourth in WCHA scoring.

Nystrom was Minnesota's team scoring champion last winter with 36 points and also led in goals (17) and assists (19). He was rated the most improved player on that squad.

Stordahl returned to the lineup this year after sitting out the 1963-64 campaign because of a knee injury. He also underwent surgery.



Starting the season as a defenseman, he was switched back to his more familiar wing spot early in the campaign. His brother Jim, incidentally, was a three-year hockey letterwinner at Minnesota and teamed with Larry on the same line for two years.

The squad has a strong junior flavor with seven second-year men in the regular lineup — Lothrop, defensemen Frank Zywiec and Jerry Edman and forwards Lorne Grosso, Doug Woog, Gary Hokanson and Bruce Larson.

Lothrop, despite an unimpressive goals-against average, is ranked among the best Gopher goalies in recent years. Many of the goals surrendered by him were actually the result of defensive lapses by his teammates. He led WCHA goaltenders in stops during the first half of the season and turned in a dazzling 42-stop performance against Michigan Tech, including 21 in the hectic third period.

Zywiec and Edman, although suffering through some difficult moments, have shown steady improvement. Zywiec played probably his finest game as a Gopher in the winning effort against Michigan Tech. Edman is an aggressive player who isn't afraid of contact despite his rather slight frame.

Grosso, the only Canadian on the team, centers for Falkman and Stordahl on one line. A cousin of former Minnesota all-American Louis Nanne, Grosso made great progress as a sophomore. He is an excellent playmaker, a good shot and has plenty of hockey "savvy."

The biggest news this winter, however, has been the great play of the all-junior line of Woog, Hokanson and Larson. All three are fast, clever skaters who can move the puck and have the ability to score. Woog and Hokanson have waged a

The old question of how a hockey player stops after racing across the ice was answered in one of Minnesota's December duels with Manitoba: he sometimes doesn't! Here Minnesota forward Larry Stordahl almost nets himself after a furious goal attempt. The puck? It never made it, like so many others the same night, as Manitoba defeated Minnesota by a score of 9 to 5.

fierce battle for the team scoring leadership. Previous to enrolling at Minnesota, Larson, Woog and Zywiec were teammates on South St. Paul's outstanding high school hockey team for four years.

Only three sophomores have cracked the starting rotation, but they are good ones — Jim Branch, Denny Zacho and Jack Dale. Branch teams with Haigh on defense and has developed rapidly. Rated one of the finest high school hockey players in the country two years ago while playing for Richfield, he came to Minnesota with glowing potential and appears destined to fulfill that promise.

Zachó, who hails from White Bear Lake, and Dale, a St. Paulite who attended Cretin High, have formed two-thirds of a line all season. They have played with three different partners, however. Rolf Vinnes, another soph, started the season with them but left the squad after the first few games. Stordahl took his place but soon switched lines with Nystrom. Zachó is big, strong and has a good shot. Dale is a clever skater and stick-handler and is especially quick around the net. Both are considered excellent prospects for future stardom.

Backing up the regular contingent are several experienced reserves — wings Dick Bloom, Mark Ryman and John Torrel, as well as defenseman Pat Furlong. All are lettermen and have filled in capably on occasion. Ryman, the son of Minnesota athletic director Marsh Ryman, has seen frequent action as a penalty-killer.

Blocking Minnesota's path to a playoff spot is one of the best-balanced leagues in many years. There isn't a push-over around. The February schedule finds UMD and Michigan playing two-game series at Williams Arena, while the Gophers take to the road for series with Colorado College, UMD and the season's finale with North Dakota. Michigan is the defending WCHA regular season champion and NCAA kingpin. North Dakota is one of the leading contenders for this year's Association crown.

To qualify for the playoffs, the Gophers must finish among the

DEFENSE

league's first four teams. In the playoffs, the fourth-place team plays two games at the site of the first-place club, and the No. 3 squad travels to the home of No. 2. Both series will be played March 5-6. Winners will be determined on the basis of total goals in each series and will advance to the championship game to be played on the home ice of the team with the higher percentage during the regular season. If Minnesota is one of the entries, the title game will be played March 8. If the Gophers do not make it that far, the game will be played on March 13. The two finalists will qualify for the NCAA tournament.

Minnesota qualified for the playoffs a year ago by finishing third with a 10-6-0 record, but was deprived of the opportunity to play because the playoff dates fell during final exam week. An adjustment in timing has prevented such a development this year. The NCAA tourney, to be held at Brown University in Providence, R. I., March 18-19-20, also falls after the Minnesota exam period. □

MINNEMATH

(Continued from page 20)

center not restricted to level or specific projects. We're developing a unit within the University which examines its subjects in the light of the best available research, and then tries to translate this analysis of the best knowledge of the subject into materials for teaching."

Minnemath's most recent large project is the development of a comprehensive new geometry course for prospective high school mathematics teachers. Under a grant of \$208,000 from the National Science Foundation, the project's goal is to upgrade geometry instruction in high schools. Directed by Seymour Schuster, associate professor in the Minnemath Center, an interesting part of this project is the production of 150 minutes of animated cartoons on geometry, in an attempt to teach actual mathematical concepts entertainingly through visual means. Supervising the animation is Allen Downs of the University's Art Department.

During Minnemath's brief five years of existence, it has attracted grants and contracts from outside the University totaling \$1.7 million, all for a state legislative appropriation of only about \$100,000 a year. Currently the largest grant, almost a million dollars, is allocated to the Minnemast project, which, with its coordinated courses, may be considered as the "second generation" in the rounds of educational upgrading.

And what of Project Minnemast?

"I think the Minnemast Project can have, in the long run, a revolutionary effect on the entire educational system," Professor Rosenbloom says. "I think that as we make college and school people around the country aware of the children's capacity to learn, and get them accustomed to working together, they will begin to generate ideas of their own. This could start a ferment which will never stop; I think people will be amazed to see what even quite stupid persons can learn if you are ingenious in the way you teach them."

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

A 1963 conference of 30 leading mathematicians at Cambridge, Mass., worked out a 25-year program for improving the country's mathematics curricula, widely known as the "Cambridge Report."

"Their report turned out to agree with very minor differences to the outline we've been working on since 1959," Rosenbloom says.

"Any school system which cooperates in our program I think could have the kind of program which Cambridge recommended within seven to 10 years. That would be a fantastic leap ahead of where we now are." □

Alumnus to Receive Two Earth Sciences Awards

Dr. Thomas Seward Lovering '24PhD will receive two of the highest awards in earth sciences and mining at the annual meeting of the American Institute of Mining and Metallurgical Engineers, to be held in Chicago February 14-18. The Penrose Medal of the Society of Economic Geologist, granted for "unusual original work in the Earth Sciences," will be presented to him on February 18; and the Jackling Award, which recognizes "significant contributions to technical progress in the fields of mining, geology and geophysics" will be presented on February 17. Dr. Lovering is now staff geologist with the United States Geological Survey, Denver, Colorado.

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AROUND & ABOUT WITH ALUMNI



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Wicklund



Wilson

'31

Lt. Col. Chadwick P. Simmons '31BA has returned to his home in Augusta, Georgia, after retiring from active duty in the U.S. Army. A holder of the Army Commendation Medal, his last post was as Adjutant General at the United States Army Terminal Command Atlantic, Brooklyn, N.Y.

'32

Joseph A. Maun '32BA '35LLB, a partner in the St. Paul law firm of Maun, Hazel, Green, Hayes, Simon and Aretz, has been elected a director of the Milwaukee Road. (Photo)

'33

Dr. Frederick T. Wall '33BS '37PhD, professor and chairman of the chemistry department at the University of California, Santa Barbara, has been appointed editor of the American Chemical Society's *Journal of Physical Chemistry*. Prior to assuming his present position at California, he was dean of the graduate school and research professor of chemistry at the University of Illinois. (Photo)

G. Donald Sherman '33BA '37MA is lecturing and doing research at the University of Alexandria, Egypt, on a Ford Foundation grant. He was previously head of the soils and agronomy department of the University of Hawaii until 1962, when he became an associate director of the experiment stations. On July 1, 1964, he became acting dean of the College of Tropical Agriculture and Director of Hawaii Agricultural Experiment Stations.

William N. Matheson '33BS has been appointed general manager—raw materials services of United States Steel Corporation. He is presently general manager—ore operations and acting general manager—limestone operations. He assumed his new position in Pittsburgh, Jan. 1.

'34

Hedley Donovan '34BA, editor-in-chief of *Time*, Inc., has been elected to the Board of Trustees of New York University. In April he succeeded Henry R. Luce in the position of editor-in-chief

when Luce became editorial chairman. He joined *Fortune's* staff as a writer in 1945 and was appointed associate managing editor in 1951 and managing editor of the magazine in 1953. He became editorial director for all *Time*, Inc. publications in 1959 and a director in 1962.

'37

Vincent W. Bousquet '37BS has been named production manager for Weyerhaeuser Company's wood products operations at Springfield, Washington. He was formerly plant production manager at Klamath Falls, and has been employed by Weyerhaeuser since 1943.

John L. MacBean '37BA has been named director of financial development for the YMCA of metropolitan Chicago. He had been executive secretary of the Hyde Park YMCA since 1957.

'38

Dr. John W. Kirklín '38MD, chairman of the general sections of surgery of the Mayo Clinic, Rochester, Minn., and professor of surgery in the Mayo Graduate School of Medicine, has been confirmed as a member of the Board of Governors of the Mayo Clinic.

'39

Cyril D. Evans '39PhD, a research scientist in the U.S. Department of Agriculture's Northern Regional Research Laboratory, Peoria, Illinois, received an honorable mention certificate for the presentation of a paper at the 38th fall meeting of the American Oil Chemists' Society in Chicago.

Robert J. Sheran '39LLB, an associate justice of the Minnesota Supreme Court, has been appointed to the Board of Trustees of the College of St. Thomas. A native of Waseca, Minn., he is a former state representative and member of the State Board of Tax Appeals.

'40

Harold Ailmer '40MD '44PhD has been appointed a clinical professor of psychiatry at the University of California Medical School in San Francisco. He has been on the clinical faculty of Stanford University since 1949 with the exception of 1957-58, when he served as a consultant in the section of psychiatry at the Mayo Clinic.

'41

Irving S. Shapiro '41LLB has been named assistant general counsel for the Du Pont Company, Wilmington, Delaware. He was previously an attorney in the General Legal Division, principally concerned with antitrust litigation. Prior to joining Du Pont in 1951, he was in private practice in Minneapolis.

Dr. Roy G. Holly '41BS '44MD '52PhD has been named professor and head of the department of obstetrics and gynecology at the Jefferson Medical College in Philadelphia, effective Feb. 1, 1965. He was previously vice chancellor for graduate and professional education and research, dean of the graduate college, professor of obstetrics and gynecology, and research administrator at the University of Nebraska. (Photo)

'42

Roy H. Copperud '42BA, has been elected a member of the Los Angeles chapter of Sigma Delta Chi, professional journalism society. He presently teaches journalism at the University of Southern California.

'43

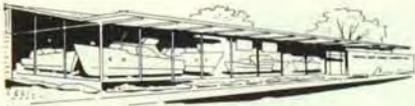
William C. Bergstedt '43BBA, has joined the Rochester, Minn. office of Paine, Webber, Jackson & Curtis. He is a former alderman on the Rochester City Council. (Photo)

'46

Edward H. Fier '46BS was installed December 9, 1964, as president of the Minnesota Vocational Association, a professional organization of teacher trainers, supervisors, and teachers of vocational education in Minnesota. He has been agricultural director for the New Ulm (Minn.) Public School System since his graduation.

'47

Harris F. Seidel '47MS, president of the Water Pollution Control Federation, was named one of the "Top Ten Public Works Men-of-the-Year" during the Federation's 37th annual conference in October. Seidel is also director of water and pollution control for the city of Ames, Iowa. He recently completed a 2-month tour of the Near East and



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'48

Earl J. Lockhart '48BS has been elected president of the Association of CPA Examiners. A partner in the Duluth (Minn.) firm of Pedrizetti, Grover & Lockhart, he is past president of the Duluth chapter of the Minnesota Society of CPAs and a former vice president of the Minnesota Society.

Richard J. Wilson '48BSMetE has been appointed manager of coke production at the Indiana Harbor Works of Inland Steel, Chicago. A native of Chicago, Wilson started as a blast furnace engineer at the Indiana Harbor Works in 1949, and was previously assistant superintendent of Inland's Plant 2 blast furnaces. (Photo)

Patrick J. Turner '48BA has been named agency director for the Jefferson National Life Insurance Co., Indianapolis. He has been assistant agency director since 1962.



O'Dell



Banik

'50

Rodney D. Wicklund '50BS, marketing services director for Fairmont Foods Company, Omaha, Nebraska, has been named a vice president of the company. Wicklund joined the company in March, 1962, as corporate advertising manager and was promoted to marketing services director in October, 1963. (Photo)

Thomas B. O'Dell '50PhD has joined the Wm. S. Merrell Company division of Richardson-Merrell, Inc. as associate director of medical and scientific coordination. (Photo)

Clinton E. Banik '50BA was recently appointed manager of the Los Angeles office of Computing Devices of Canada, Limited. Banik will represent the firm, an affiliate of the Bendix Corporation, in the western United States. (Photo)

Darrell Coover '50BA, director of community relations for the American Medical Association, was elected president of the Kiwanis Club of Chicago in November.

Dr. Charles A. Owen, Jr. '50Gr, head of the Section of Clinical Pathology of the Mayo Clinic, Rochester, Minn., and professor of medicine and physiology in the Mayo Graduate School of Medicine, University of Minnesota, has been confirmed as a member of the Board of Governors of the Mayo Clinic. In 1959 and 1960 he was president of the Mayo Clinic's staff.

'52

Maj. Roger E. Linneman '52BA '56MD has completed a three-year residency in radiology at Walter Reed General Hospital in Washington, D.C. He will shortly report for duty with the Nuclear Medicine Research Detachment in Landstuhl, Germany.

'53

D. J. Wynne '53BChE '57PhD has been promoted to section head in Humble Oil & Refining Company's Baytown, Texas, Research and Development

ALUMNUS OF THE MONTH



EDWARD GOLDSTEIN has been appointed director of Bell Telephone Company's Military Communications Systems Engineering Center of Bell Telephone Laboratories in Whippany, New Jersey. In this new post, he will be responsible for the engineering of switching and transmission systems and speech-processing systems for military applications.

He joined the technical staff of Bell Telephone Laboratories in 1949, the same year he received a bachelor's degree in electrical engineering "with high distinction" from the University of Minnesota.

ALUMNI NEWS

Center. The section he heads conducts research on the processing of lubricants and specialty oils and on product quality.

Martin Z. Fruchtman '53BA '54BS '56MD was recently appointed a clinical instructor in the school of medicine at Marquette University, Milwaukee, Wisconsin.

Dr. Ralph Duddles '53MD has been appointed a staff physician at the University of Colorado Student Health Center. He previously studied tropical medicine and the French language at the Institute of Tropical Medicine, Antwerp, Belgium, and spent one year in the Congo, with his wife Jane, as missionaries for the Evangelical Free Church of America.

'55

Charles J. Mencil '55BBA has been promoted to the new position of general sales manager for the automotive and industrial divisions of Marquette Corporation, Minneapolis. A former Gopher basketball co-captain and All-American player, Mencil had been manager of national account sales for the company. (Photo)

George W. Huffman '55PhD has been named central district sales manager in the Quaker Oats Company's chemicals division. Huffman, who joined Quaker in 1956, has been a research chemist, project leader, and most recently, a group leader at the company's research laboratories in Barrington, Illinois.

'57

Dwaine L. Osman '57BS has been appointed manager of command and control systems for the defense marketing department of UNIVAC in St. Paul. He was formerly sales manager for Air Force and Army command and control programs at General Electric, Syracuse, N.Y., and from 1957-60 was an associate research engineer at the Boeing Company, Seattle. (Photo)

DEATHS

Loyst C. Caverley, 63, professor of electrical engineering at the University of Minnesota, died in September while vacationing in Anchorage, Alaska. Born in Lapeer, Michigan, he received his bachelor of science degree in electrical engineering at Washington State University and his master of science degree at the Massachusetts Institute of Technology. He joined the Minnesota faculty in 1927.

Dr. Jonas J. Christensen, 71, professor emeritus of plant pathology and botany at the University of Minnesota, died June 20 in Green Bay, Wisconsin. He was head of the Plant Pathology and Botany Departments from 1953 until his retirement in 1961 after 41 years on the faculty. Born in Hutchinson, Minnesota, he received his Ph.D. degree

from the University in 1925. In 1950 he spent four months in Japan with the Natural Resources Section of the Allied Powers Supreme Command and was made an honorary member of the Japanese Phytopathological Society. He also served as a scientific advisor to the Rockefeller Foundation Crop Improvement Program in 1960. His home was in St. Paul.

Edwin H. Ford, 73, professor of journalism at the University of Minnesota for 27 years, died Sept. 5 after a long illness. Known especially for his courses in the literary aspects of journalism and critical writing, Ford taught at the University from 1929 until his retirement in 1956. As a memorial, an Edwin H. Ford lecture series on the literary aspects of journalism will be established at the University. A reporter and copy editor for the old Minneapolis Journal before World War I, he served in the Navy during the war and worked for the Seattle Post-Intelligencer until 1923. He taught at the University of Washington, Harvard and the University of Oregon before joining the Minnesota faculty. He is survived by his widow, Marie, who is chief of the section of public health information of the Minnesota Department of Health.

Rebecca Sholley Gifford, 65, died August 14 in Minneapolis. A 1921 graduate of the University with a B.S. degree in home economics, she served as an instructor in the Department of Home Economics from 1925-28. Her home in recent years was Fayetteville, Arkansas.

Mrs. Edna Koehn Groff, 41, associate professor of education at San Diego State College, died September 11, 1964, at her home. A native of North Dakota, she received a Ph.D. degree from the University of Minnesota in 1947 and taught briefly on campus. Prior to assuming the position she held at the time of her death, she was coordinator of special education at the college.

Merle V. Halverson, 44, instructor and extension soils specialist at the University of Minnesota, died August 19 in Minneapolis of an apparent heart attack. He joined the University staff in 1959 and made his home in St. Paul.

Dr. Walter Emil Heck '50MS, a fellow in otolaryngology and rhinology in the Mayo Graduate School of Medicine, Rochester, Minn., from 1947 to 1950, died at Children's Hospital in San Francisco on Sept. 19, 1964. Born in Syracuse, N.Y., in 1915, he received his M.D. from the University of Syracuse in 1941. He served in the Army Medical Corps in World War II, and was one of the Army medical officers assigned as medical attendant to the founding meeting of the United Nations at San Francisco in 1945. Since 1959 he had been associate clinical professor of otolaryngology in the University of California School of Medicine in San Francisco.

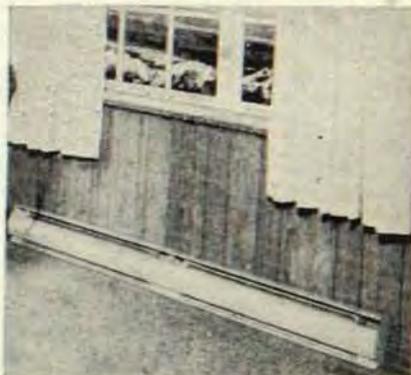
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Dr. Clare E. Hermann, 70, died Sept. 8 in Minneapolis. Born in Duluth, he graduated from the University of Minnesota Dental College in 1915, and taught dental surgery there for more than 30 years. On the staff at both General and University Hospitals, he also maintained a private dental practice in Minneapolis for 49 years.

Dr. Myron J. Hertz, 52, St. Paul, was killed in an automobile accident in September. A life-long resident of St. Paul, he graduated from the University of Minnesota Medical School with an M.D. degree in 1939. He served as a medical officer in the army during World War II, and had been a city and county physician since 1940.

Dr. Harvey H. Hoyt, 49, associate dean of the University of Minnesota's College of Veterinary Medicine and active in Arden Hills civic affairs, died Dec. 18 in Minneapolis. He joined the University faculty in 1948 after five years as veterinarian in charge of the Wisconsin Animal Diseases Control Laboratory at Madison. He became chairman of the Department of Medicine and Clinics in the College of Veterinary Medicine in 1954, and was appointed associate dean last July 1. He was president of the Minnesota Mastitis Council and a recent appointee to the National Board of Veterinary Examiners. He was a former trustee of the Arden Hills Village Council, member of the village Planning Commission and president of the Arden Hills Association.

Reuben Lantz '25BSArch, 64, died June 11 in Boone, Iowa, after suffering a heart attack. He had been an architect with the firm of Tinsley, Higgins, Lighter & Lyon in Des Moines since 1956. Prior to that time he operated his own firm in Boone for a number of years. He was one of the eight district



Dr. Harris F. Seidel (left) president of the Water Pollution Control Federation, and director of Water & Pollution Control for the City of Ames, Iowa, is shown accepting the award as one of the "Top Ten Public Works Men-of-the-Year." Mr. Joseph Creel, president of the Kiwanis Club of Miami, made the presentation at the Awards Banquet of the 37th annual conference of the Water Pollution Control Federation, Sept. 27-Oct. 1, 1964, Bal Harbour, Fla. The award is sponsored jointly by the American Public Works Association and Kiwanis International.

Babe Ruth Baseball League directors in Iowa.

Arvid E. Lyden was killed in an automobile accident March 28 in Downingtown, Pa. A 1929 magna cum laude graduate of the University with a degree in chemical engineering, he was Manager of the Patent Department of Pennsalt Chemicals at the time of his death.

Alan Johnston McBean, 74, former associate general counsel for American Telephone & Telegraph Co., died June 13 in Brattleboro, Vermont. A 1912 graduate of the University of Minnesota's academic course, he received his L.L.B. from the University's Law School in 1914. He joined AT&T as a general attorney in 1933, became general solicitor in 1941 and was named associate general counsel in 1953.

Ralph H. Maxson, 64, president of St. Paul Foundry and Manufacturing Co., died October 7 in Canton, Ohio. Born in Tomah, Wisconsin, he graduated from the University of Minnesota in 1922, and lived in Canton since 1934. He was also president of Hess-Snyder Co., Massillon, Ohio, and a director of Maxson Electronics Company, New York.

Huntington Miller, 57, died February 27 in St. Paul, Minnesota. Former associate dean of the Extension Division, he was engaged in research at the University at the time of his death. He was ex-president of the Minnesota Council for Adult Education.

Alfred Molstad, 81, died in an automobile accident June 22, 1964, a short

distance from his home in Domremy, Saskatchewan, Canada. He attended the University of Minnesota and played left guard on the Gopher football teams of 1907, 1908, and 1909, graduating in 1910 with a B.A. degree. He moved to Canada in 1911 and in 1914 started a lumber yard in Domremy. In 1939 he became president and general manager of the North Star Lumber Co., encompassing some 12 yards within the city and district. He retired in 1955.

Dr. Charles F. Morgan, 52, died recently in Minneapolis. A professor of anatomy at the time of his death, he came to Minnesota in 1959 from Georgetown University Medical School, Washington, D.C., where he was a professor of pharmacology.

Dr. Ralph E. Moyer, 68, died March 22 in Ashville, North Carolina, after a long illness. He had retired in 1962 as chief of the pulmonary disease service at Oteen Veterans Administration Hospital, where he had served as a staff member for 22 years. A native of Mountain Grove, Mo., he received his M.D. degree from the University of Minnesota Medical School.

G. N. Northrop, 83, retired headmaster of Roxbury Latin School, Roxbury, Mass., and former faculty member at the University of Minnesota, died in August in Boston. Born in Platteville, Wisconsin, he graduated from the University of Minnesota in 1902 and was a member of the English Department from 1909 to 1920. Before moving to Roxbury, he served as headmaster of Brierly School, New York, and of the Chicago Latin School, Chicago, Ill.

Dr. Frederick Adolf Olson, 80, a fellow in urology of the Mayo Clinic from 1909 to 1912 and in 1915 and 1916, died at Pomona, California, on July 10. Born in Wells, Minnesota, he received



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ALUMNI NEWS

ALUMNUS OF THE MONTH



F. B. STEVENS has been appointed General Attorney for the Northern Area law offices of the United States Steel Corporation, located in Duluth, Minnesota.

A native of Minnesota, Stevens received both his B.A. and LL.B. degrees from the University of Minnesota. After graduation he practiced law in St. Paul for several years, and served as special assistant attorney general for the State of Minnesota. He became associated with U. S. Steel at Duluth in 1942, became assistant general solicitor for the Lake Superior divisions in 1948, and assumed his previous post of general attorney in 1958.

the B.A. degree from the University of Minnesota in 1905, and the M.D. from the University of Chicago in 1908. In 1918, after serving several years as an assistant in medicine at the University's Medical School, he received the degree of master of science in urology. From 1916 to 1944 he was an instructor in surgery in the Medical School, leaving to enter private practice in Los Angeles.

F. T. Paul, 81, former Minneapolis city engineer and member of the Metropolitan Airports Commission, died August 21 in Minneapolis. A 1912 graduate of the University of Minnesota, he retired in 1948 after 15 years as city engineer and 40 years in the Minneapolis engineering department. He also served on the Minneapolis Charter Commission and as a consultant to the Minnesota Highway Department.

Gale W. Rablin, Edina, Minnesota, a 1952 graduate of the University with a B.A. in business administration, died April 9.

Mrs. P. J. Riley (né Mary V. Andrews) '29BA died November 16, 1963, at her home in Phoenix, Arizona.

Thomas B. Roberts '27BA, 58, a Des Moines attorney since 1931, died of cancer March 22, 1964. A managing partner in the law firm of Brody, Parker, Roberts, Thomas and Harris, Roberts was also president of the Polk County Bar Association in 1959-60. He was chairman of the Board of Trustees of Synod of Iowa, United Presbyterian Church, and had served as counsel for the Iowa Automobile Dealers Association since 1934 and for the National Ballroom Operators Association since 1947. Born in Fergus Falls, Minn., he received his law degree from Harvard University Law School in 1931.

Florence Julia Rose '02BA, 94, died Oct. 22, 1964, at the Walker Methodist Home in Washington, D.C., where she had lived for a number of years. A member of Delta Gamma Sorority while attending the University, she was one of the first kindergarten teachers in the Minneapolis Public School system.

Ella J. Rose died Oct. 15 in Providence, Rhode Island. A former member of the faculty in the School of Home Economics, she received her master of arts degree from the University of Minnesota in 1927, and her Ph.D. from Ohio State University in 1941. She joined the Minnesota faculty in 1925 and retired October 1, 1956.

Sylvanus C. Shipley, 85, former head of the Department of Mechanical Engineering at the University of Minnesota, died September 17 in Vero Beach, Florida. Born in Bethel, Mo., he joined the University staff in 1907 as an instructor in machine work, became an assistant professor in 1915, acting head of the department in 1923, and head of the department in 1926. In 1929, he left the faculty to become chief engineer for Honeywell, Inc., a post he held until 1935, when he became head of a special Honeywell group that developed improved manufacturing techniques for automatic temperature controls. During World War II, he was in charge of developing military optical devices for use in aiming tank weapons. He retired and moved to Florida in 1945.

Charles L. Sommers, 94, former member of the University of Minnesota Board of Regents, died March 11 in St. Paul. He had served as a regent between 1910 and 1923, was a member of the Greater University Council, and was a director of the Minnesota Alumni Association from 1947 to 1953. He was selected in 1949 as one of "100 Living Greats of Minnesota."

Paul L. Spooner, Sr., 79, died November 9 in Minneapolis. A 1906 graduate of the University's Law School, he had been awarded his 50-year alumnus pin from the "M" Club in 1956.



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ALUMNI CLUB NOTES

We would like to invite all of the members of the Minnesota Alumni Club to bring in a friend who is a potential member for a visit. Let Mr. Calvert know in advance when you are coming, and he and the staff will see that the Club wins a new friend and member.

PARTIES

Don't forget our special party arrangements, available for your use for an anniversary celebration, birthday or any other special social event. Make it really outstanding by having it at your Club.

We have been particularly pleased to see the large numbers of faculty members making frequent use of the facilities.

A REMINDER

On all four Saturdays of this month—February 6, 13, 20 and 27—dinner will be served only in the Seminar Room. The Regents Room has been booked for private parties on each of those nights.

SPECIAL BASKETBALL GAME NIGHTS:

Enjoy a package of entertainment on Minnesota basketball home-game nights! Have dinner at the Alumni Club, go by chartered bus to Williams Arena, and return to the Club after the game—all for just \$3.95 per person. Make your reservation now for any one of the team's remaining home games: Feb. 2—Northwestern; Feb. 13—Illinois; Feb. 23—Michigan; Feb. 27—Indiana; Mar. 9—Iowa.

He practiced law for some 50 years in Morris, Minn., and Minneapolis, and for the past ten years was in the investment business with Juran and Moody, Minneapolis.

Mrs. Arthur C. Strachauer '23BA, founder and former president of the Women's Association of the Minneapolis Orchestra (WAMSO), died December 12 in Minneapolis. The widow of Dr. Arthur C. Strachauer, chief of surgery at the University of Minnesota from 1918 to 1930 and former director of its cancer institute, Mrs. Strachauer also held offices in the Minnesota Historical Society and the American Association of University Women, the Minnesota Association for the United Nations, the International Center for Students and the Planned Parenthood Council. Born in Galesburg, Illinois, she was a reporter for the Minneapolis Journal and Miami (Fla.) Herald before marrying in 1930.

Ralph E. Turner, 71, professor emeritus of history at Yale University and one-time member of the faculty of the University of Minnesota died in September in New Haven, Conn. after a lengthy illness. A Yale faculty for 17 years until his retirement in 1961, he played a significant part in the establishment of the United Nations Educational, Scientific and Cultural Organization (UNESCO).

Dr. Warren E. Wilson, 68, a life member of the Minnesota Alumni Association and a practicing physician in Northfield, Minn., for 35 years, died February 27 in Honolulu, Hawaii. Born in Duluth in 1896, Wilson grew up in Northfield and received his M.D. degree from the University of Minnesota in 1922. Retired from active practice in 1959, he and his wife had gone to Hawaii for their regular winter vacation.

Charles M. Winston '50BA, 44, book selection officer of Washington University in St. Louis, died October 12 in St. Louis, Mo. A native of Minneapolis, he had joined the staff of the University's John M. Olin Library in the fall of 1963. Prior to that time he had been an editor with Holt, Rinehart & Winston Publishing Company in New York, from 1959 to 1963. From 1950 to 1954 he was an instructor in economics at Washington University. From 1954 to 1958 he taught at Michigan State University, and in 1958-59, at Boston University.

Dr. Kirk C. Wise, 58, died September 29 in Clearwater, Kansas. He received his D.D.S. degree from the University of Minnesota Dental School in 1937, set up his practice in Clearwater in the same year, and was still practicing part time at the time of his death.

FEBRUARY EVENTS

February 4, Thursday

Special Club Buffet Night. Buffet from 5:30 to 9:00 p.m. Adults \$3.75, children \$2.50. Come back for seconds if you like.

February 10, Wednesday

Ladies Bridge Luncheon. Lunch at 12:00 noon, bridge from 1:15 to 4:30 p.m. Table prizes. Everything included for just \$1.75 per person.

February 11, Thursday

Special Buffet Night.

February 15, Monday

An evening of winetasting—the French Champagnes. Starts at 6:30 p.m.

February 18, Thursday

Special Buffet Night.

February 20, Saturday

Ladies Bridge Luncheon. Lunch from 12:30. Bridge from 1:30 to 4:00 p.m. Table prizes. Everything included for just \$1.75 per person.

February 23, Thursday

Navy Power—a special showing of slides and a talk by Commander Robert Saunders of the United States Navy. It's of vital interest to everyone to know something about the new, modern Navy and what it is doing. Come to dinner and hear Cdr. Saunders afterward, at 8:30 p.m. Make your reservations early.

February 25, Thursday

Special Buffet Night.

February 26, Friday

Ladies Bridge Luncheon. Lunch at 12:00 noon, bridge from 1:15 to 4:30 p.m. Just \$1.75 per person includes everything even table prizes.

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