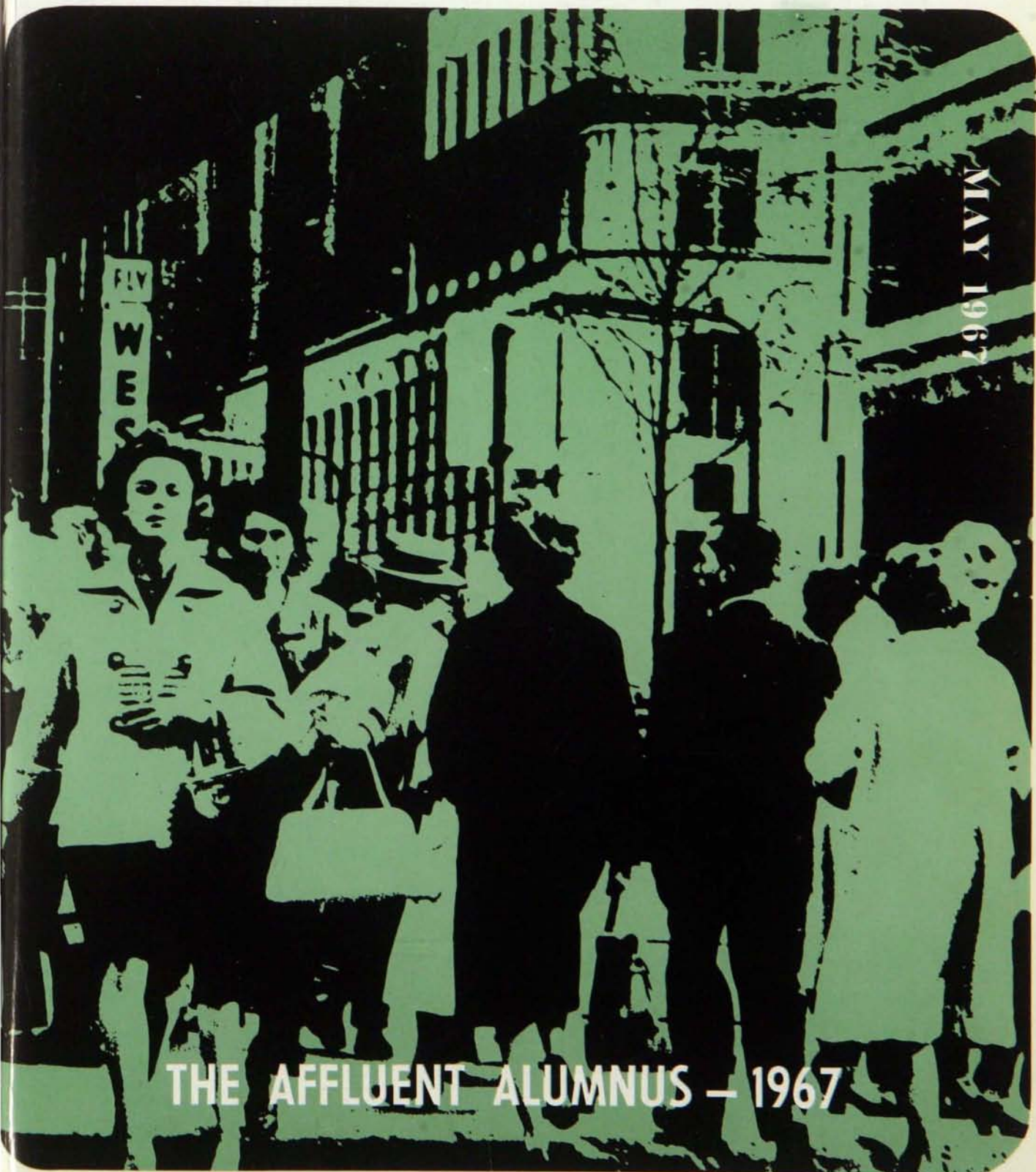


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ALUMNI NEWS



MAY 1967

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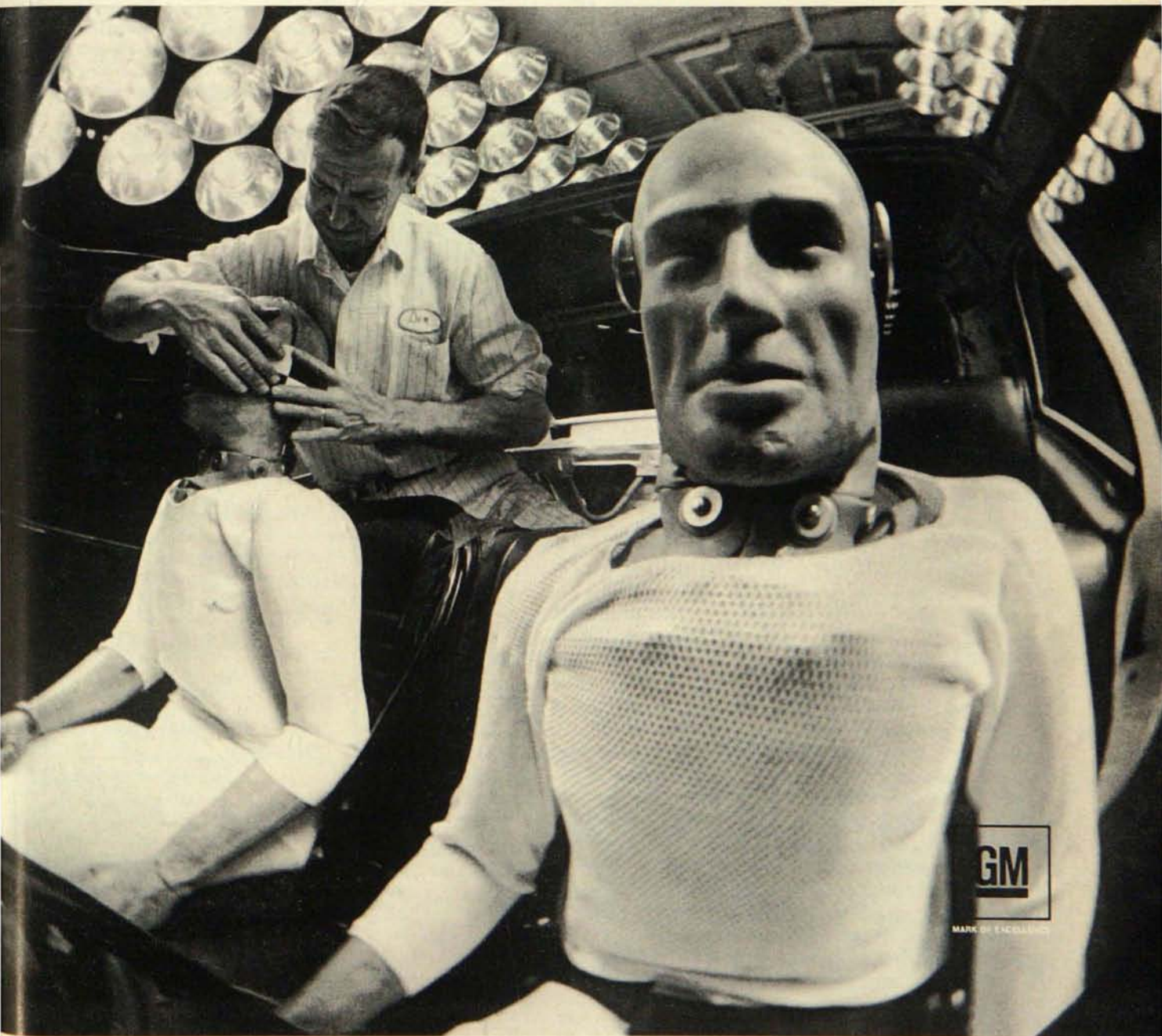
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Don Trites, experimental technician, General Motors Proving Ground, Milford, Michigan.



BACK TALK

Editor's Note: Use of these columns usually is restricted to correspondence from alumni to the ALUMNI NEWS. However, because of the general interest to all alumni, and the special interest to the 16,000 MAA members living within the state, the following editorial — and reply — are reprinted. The editorial, which originally appeared in The Akron Beacon Journal, was reprinted in The Minneapolis Tribune — much to the chagrin of State Senator Clifford C. Sommer '32BBA. Sommer, president of Owatonna's Security Bank and Trust Company, has served as an MAA board member and treasurer, and currently is on the Association's investment committee.

From an editorial in the Akron Beacon Journal

With a federal grant of \$248,000 and \$82,000 of its own money, the University of Minnesota is about to launch an experimental project that could lead to construction of a brand-new city of 250,000 population.

Situated at least 100 miles from any existing city, the planned metropolis would have industries that produced no wastes, a transportation system that would eliminate the need for automobiles, and a system of land management that would put schools, homes and shopping centers within walking distance of each other.

The initial \$330,000 is to be spent on what has been designated as the "project definition phase."

Nobody asked us for our advice, but we hope the professors will hold back a few thousand dollars for a feasibility study.

Minnesota is a fine place for fishing in the summertime, but only Alaska has colder winters.

We have nothing but admiration for the hardy Scandinavians who reside voluntarily and without complaint in Minneapolis and St. Paul. But the professors are talking about a city far out on the snowy steppes, where the weather

during most of the year is suited to reindeer and polar bears but unfit for human beings.

The perfect city, built from scratch, sounds attractive. But not when the temperature is 20 below zero and the snow is up to your armpits.

Senator Sommer's Reply

Whoever wrote the editorial in The Akron Beacon Journal (reprinted in The Minneapolis Tribune, February 17, 1967) knocking Minnesota as a site for a demonstration city must have put his tongue in his cheek at the same time he took his pen in hand.

No one could seriously represent Minnesota as a place where the "weather during most of the year is suited to reindeer and polar bears but not for human beings." Particularly someone from Ohio.

In the first place, it can be stated with statistical accuracy that the difference in mean temperature between Minnesota and Ohio is as little as 1.8 degrees. So, Ohio is a little warmer, but could a reindeer or polar bear tell the difference?

On the other hand, Ohio has more snow and sleet than Minnesota — 51.2 inches to 41.3 inches in 1964, for example. So if snow is "up to your armpits" in Minnesota (as the editorial charges), Ohioans must be using their noses as snowplows.

Furthermore, Ohio has 6 per cent less sunshine and 10.57 more inches of precipitation annually than Minnesota, and more days of rain — 153 to 111 on the average.

Minnesota has the edge in other areas, too. We have more doctors, dentists and nurses per capita, for one thing. We live longer than Ohioans, have a lower death rate and just about half as much crime. We spend more to educate our children and pay our teachers better. We have a higher percentage of home ownership.

Not only that, Minnesotans are smarter than Ohioans because Minnesota has a lower percentage of its draftees rejected for failure to pass mental tests than Ohio —

(Continued on page 22)

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THE UNIVERSITY OF MINNESOTA ALUMNI NEWS

(Our 67th Year)

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Joseph H. Davidson '56BA..... Editor
Edwin L. Haislet '31BSEd '33MA '37EdD..... Managing Editor

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MEMO

From
ED HAISLET
Executive Director

TO: Association Members
SUBJECT: Some Important Happenings

Recently the MAA Board of Directors welcomed into its constituent membership program its eighteenth and nineteenth groups — Occupational and Physical Therapy as well as Medical Technology. The Association is now made up of nineteen constituent alumni associations, each with its own governing board, officers and program, each representing the alumni of their college, school or department. The President of each constituent group sits on the overall Board of Directors of the Minnesota Alumni Association. The alumni office serves as secretariat to each of the nineteen groups. The Board of Directors of the MAA consists of twenty elected members, five elected each year for a four year term, the presidents of nineteen constituent groups, and the six at-large members or a total of 45 members plus the presidents of two affiliated members — the M Club and the Law School. The six at-large members are appointed to give geographical representation on the Board.

It's election time — time for the Association members to vote for the five new members they want to represent them on the Board for the next four years. If you haven't voted, the ballot is in this issue, please do so.

Recently two chapters have been organized. Janet Hart Widseth, Assistant Director, took a day off from her Hawaiian vacation to meet with a Minnesota alumni group brought together by William E. Alexander, '43. At a meeting held March 21 they voted to reorganize and the new officers and Board include: President: Dr. Ray K. Tachibana, '53DDS; Vice President: Dr. John T. Kometani, '39MD; and Secretary-Treasurer: Mrs. Sharon Fitch, '61SLA. Other members of the Board of Directors are: Paul S. Osumi, Jr., '64Arch; Ted Matsuo, '51SLA; Mrs. Grace Berg, '38Ed; Ned B. Wiederholt, '50Arch; Mrs. Agnes T. Gaughan, '27Ed; Dr. Ju-chuan Wang, '46MD, W. R. Boddy and William E. Alexander.

With the help of two regional Board members, Roger Copeland and George Arneson, an alumni chapter in Kansas City was also reorganized, April 3. Serving on the Planning Committee are: Roger Copeland, acting as chairman, George Arneson, Bob Amick, Mrs. Gretchen Ederer, Abbott Sher, Duane Hufford, Arnie Skjelbolstad, Emert H. Fremont, Jr.

The St. Louis, Missouri, Chapter of the Minnesota Alumni Association won the Outstanding Chapter of the Year Award, 1965-66 for outstate chapters. It was the pleasure of your Executive Director to make the presentation April 4 at the time of their annual meeting. The St. Louis Chapter originated the scholarship program for alumni chapters and since 1952 has raised \$2357.00 for scholarship purposes.

The International Falls (Minnesota) chapter won the Outstanding Chapter award for instate chapters with the award being presented at the time of the Legislative Workshop.

The Class of 1917 is busy with reunion plans under the chairmanship of Paul Frenzel. The planning committee of Clara MacKenzie Bierman, Mrs. Norris Carnes, T. G. Evensen, Sister Teresa Toomey, Lauren S. Tuttle, Louise Nippert Ueland and Arnulf Ueland have held several meetings. Their golden anniversary celebration will be

held on campus May 24 which is Cap and Gown Day. Of 836 original class members, the alumni list shows only 385 good addresses, with a large turnout expected. This was the war year class and it has an interesting sidelight that the men were awarded degrees at a special Convocation while in training at Fort Snelling. The Class of 1917 is a very distinguished one, with fifteen of its members receiving the University's highest award to alumni, the Outstanding Achievement Award: Sister Mary Timothea Doyle, Floyd R. Adams, James Dennis Boyle, John Ely Burchard, Norris K. Carnes, Everett M. Dirksen, Florence Alberta Fallgatter, Paul D. Foote, Sam C. Gale (deceased), Arthur B. Poole, Oliver S. Powell, Dr. Morse J. Shapiro, Merwin H. Silverthorne, Arnulf Ueland, Mrs. Mildred W. Wood, and George Faber, Alumni Service Award.

Finally, the 63rd Annual Meeting of the Association and Eighteenth Honors Presentation will be held June 6 at the Hotel Pick-Nicollet. President Wilson will be honored at that time by the Association. This will be a gala occasion and you are most cordially invited to attend.

Sincerely,

Ed Hauslet



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The relationship between the University of Minnesota and its alumni has changed dramatically in the past twenty years — and may change even more in the next twenty.

Twenty years ago, alumni relations were, for the most part, haphazard; with little guidance, alumni clubs across the country were chiefly social organizations, and reunions and meetings were parties where old friends met to talk about their jobs and their families.

Today, with a full-time staff serving alumni and the Alumni Fund, and with others involved in publications, maintenance of alumni records, mailings and other details, the University and the Minnesota Alumni Association are making a sustained effort to establish, re-establish or maintain with each alumnus a relationship beneficial to all. (At Minnesota, as at most institutions of higher learning, the term "alumni" includes former students as well as graduates.)

Part of the success of this effort lies in the fact that today, *more* pertinent information is known about *more* alumni than at any time in the past — no mean accomplishment when it is realized that, in its 116 years of existence, the University of Minnesota has granted some 190,000 degrees, while thousands more have attended without receiving an undergraduate or graduate degree. Presently on the alumni list are the names of 115,000 living alumni, and our alumni addressing list stands at about 10,000.

We are not speaking about a mere statistical listing of who and where our alumni are. This is, of course, important, but of little or no significance in itself.

Rather, the Minnesota Alumni Association is interested not only in *who* and *where* our alumni are, but also *what* they are. Is there, among the 24,000-member Alumni Association body, a "typical" alumnus? Are there certain characteristics that immediately distinguish him — or her — from the non-alumnus? As student, alumna or

alumnus: at both stages, one of the most important persons in higher education. Why?

How much does he make, for what does he spend it, what are his political convictions, has he retained some or any ties with the University from which he was graduated one, two, ten, twenty or fifty years ago?

With these and other questions in mind, the ALUMNI NEWS in February launched its fourth annual Alumni Survey to once again review the character and composition of its audience.

Purpose of the Survey is twofold — to provide us with a working profile of the "average" alumnus of the University of Minnesota, and to help us define our audience to potential advertisers and other interested parties.

As in the past three years, the Survey questionnaire was two pages in length and entirely anonymous. Entirely objective, it contained 38 questions covering a wide range of activities from biographical data to occupation and income, business and pleasure travel, public service and community activities, religious and political beliefs and outside interests.

Because of its length and comprehensive coverage of activities, the questionnaire required considerable time and effort on the part of the individual completing it.

Nevertheless, this year, to date, we have received more than 1,000 completed questionnaires, and they continue to come in, three months after being published, at the rate of five or six per week.

Tabulation of the results was based on 969 of them, or approximately 4 per cent of the total number of subscribers to the magazine who are, of course, members of the Minnesota Alumni Association.

Admittedly, although these data are interesting and useful in and of themselves, they certainly are limited in scope.

There was no attempt to make

a statistical sampling, but the group includes graduates ranging over more than half-a-century: engineers, writers, businessmen, doctors and dentists, lawyers, teachers, homemakers and many others.

Any definitive study obviously would go far beyond income levels, personal possessions and buying habits. Too, projections from our relatively small cross-section must also be considered less than exact, and little more than a good approximation. Even if every small distortion could be eliminated from the sampling data, there is no law that says the other 96% of our readers must be identical to the 4% on whose replies the profile is based.

Nevertheless, a speculative look at the "average" alumnus is an impressive one: he is between the ages of 26 and 45 and, in all probability, a veteran of World War II or the Korean War. He has either an undergraduate or graduate degree or both from the University, is married with two or three children, owns his own home that he is paying for with his job in business or industry or the professions. He makes a better-than-average salary, salts some of it away in some form of savings or investment account, and travels extensively, both for business or pleasure.

Of the 969 respondents on whose answers this survey is based, 764, or 78.4% were male and 205, or 21.6% were female. This ratio is almost identical with the 1965 and 1966 surveys, when the ratios were 80.0% and 20.0% and 80.1% and 19.9%, respectively.

Of the total, 939, or 97.7% received either undergraduate or graduate degrees from the University while only 22 respondents were non-graduates — less than 3%.

Despite this fact, only 133, or 19.8% of the respondents have children who are attending or have attended the University.

Slightly fewer than half — 419, or 43.2% — live in Minnesota, which is a decrease from last year when 47% of the respondents came from the University's home state. The remaining 550, or 56.8%, are scattered

despite career commitments, socially and politically gregarious

throughout the United States and abroad. The Survey drew replies from 45 states, the District of Columbia and six foreign countries—Austria, Germany, Korea and Puerto Rico, one apiece; Vietnam, two; and Canada, five.

Next to Minnesota, California led in responses with 100, or 10.3%. Illinois was next with 46, or 4.7%, followed by Wisconsin, 3.7%; Ohio, 2.9%; New York, 2.8%; Michigan, 2.4%; and Texas, 2.3%. All other states had less than 2% reader response.

Other significant facets of the Minnesota Alumnus revealed by the completed questionnaires included:

- Largest age group responding was 41 to 45, with 126, or 13.3% of the total. Close behind was the 31 to 35 age group with 125, or 13.2%, while the 36 to 40 age group showed a significant drop from last year—from 10.9% of the respondents in 1966 to 7.9% this year.

- Slightly less than three-fourths of the respondents are married—74.3%—as opposed to 19.9% single, 3.3% widowed, 1.9% divorced and less than 1% separated. Of the 753 married or formerly-married respondents, 73.4% have two or more children—22.4% have three, 12.9% have four and 9.4% have more than four.

- More than half of the respondents—486, or 50.1%—currently are engaged in business or industry in one of the following categories: manufacturing, sales, insurance, merchandising and transportation. The professions account for 40.9% of the respondents, education for 34.3% and government for 14.2%. An overlap in classifications is the result of the number of professionals who hold teaching posts, teachers who consult with business and industry, etc.

- In terms of total family in-

come, 761, or 78.5% of all respondents earn between \$7,000 and \$49,999 annually. Only 1.2% earn less than \$3,000, while 5.7% earn in excess of \$50,000.

- Almost 70% own their own homes, an increase of 1% over last year and 11% over 1965. The most common valuation is between \$20,001 and \$25,000, with 126, or 18.6% falling in this category. This is an increase over last year when the most common valuation was between \$15,000 and \$19,999.

- In this increasingly-mobile age, 904, or 93.3% admit to owning at least one car—most likely a Ford—with 49% owning two or more. Though Ford leads in the popularity poll, with 21.2% driving them, it nevertheless is the only non-General Motors product to crack the first five. The 1966 models are highest in popularity—31.9% drive them, followed by the 1965 models, 28.6%, 1956 through 1961, 25.4%, and 1964 models, 21%. Slightly less than 16% of the cars reported are 1967 models.

- Life insurance is carried by 839 alumni, or 86.6%, a decrease of 7.3% from last year. However, 883, or 91% of the respondents carry some form of hospitalization insurance.

- Most Minnesota alumni—928, or 95.7%—have a checking account, 882, or 90.9% have a savings account and 123, or 12.7% have a trust account. In addition, 670, or 69.1% invest in stocks, bonds, real estate, mutual funds or a combination. Other savings and investments mentioned included collections (stamps, coins, etc.), cattle, oil wells, company profit-sharing plans, annuities, contracts for deed and a host of others.

Minnesota alumni are on the move a great deal, both for business and for pleasure, much of it by car. For business purposes,

34.7% indicated they travel up to five times yearly, and 12.8% more than 15. Air travel takes precedence—39.4%—but travel by auto runs a close second—30.8%. An even 27% travel for pleasure twice a year—down 5% from last year—with 9.1% going more than five times—down 2.2% from last year. Slightly less than 75% of all pleasure travel is by auto, with 42.3% going by air. Both these figures are up from last year, from 59.8% to 74.5% and from 29.6% to 42.3%, respectively.

Despite career commitments, many Minnesota alumni are socially and politically gregarious. In reply to a question on political office, 140, or 14.4% indicated that they had at one time held city (7.8%), county (4.5%), state (2.7%) and/or national (1.8%) office, either elective or appointive. This is a drop of .9% from last year.

Forty-six indicated that they hold such an office at the present time, or 4.7%.

In response to a question on the presidential candidate favored in the last election, 537, or 55.4% replied Republican as opposed to 415, or 42.8% Democrat, and 13, or 1.3%, another candidate. Only four respondents, or .5%, failed to answer this question.

A total of 884, or 91.1%, voted in that election; 60, or 6.2% did not; and 25, or 2.7%, did not answer.

For the 1968 election, 686, or 70.7% indicate they will favor the Republican candidate, whoever he may be. This is an increase of 4.9% over last year.

The Democratic candidate will be favored by 183, or 18.9%—a drop of 4.8%. Ninety-four, or 9.6%, have adopted a “wait and see” attitude, a decrease of 1.4% from last year. No respondent, at this time, favors a candidate from another party, though last year .2% favored a third candidate.

The straight party ticket is voted

republicans gain strength as democrats lose favor

by 351, or 36.2% of the respondents, while 612, or 63.1% split their ticket. Seven, or .9%, failed to answer this question.

Only 17.7% indicated that they were active party workers, though this is an increase of 2.9% over last year.

Most alumni respondents—588, or 60.6%—do not feel their political, social or economic thinking has altered appreciably since their University student days, while 23.6% feel they have become more conservative and 14.6% feel they have become more liberal. Seven alumni, or .9% did not answer.

In the 1966 Survey, only 52.4% of the respondents felt that their political, social and economic thinking had not changed since their graduation, 26.8% felt they had become more conservative and 20.8% felt they had become more liberal.

Reluctance to change also is apparent in alumni who responded to the question on religion. When asked if they had changed their religious affiliation since leaving the University, 73.5%, or 713, replied in the negative.

Community activities ran parallel with last year's replies, with professional and church activities ranking one-two, 74.6% and 41.9% respectively. Third on the list of community activities in popularity is youth activities, attracting 19.3% participation on the part of alumni.

RESPONDENTS

Age	No.	Percent	Rank
Ages 20-25	74	7.8%	8
Ages 26-30	120	12.7%	3
Ages 31-35	125	13.2%	2
Ages 36-40	75	7.9%	7
Ages 41-46	126	13.3%	1
Ages 46-50	109	11.5%	4
Ages 51-55	75	7.9%	6
Ages 56-60	83	8.8%	5
Ages 61-65	73	7.7%	9
Ages 66-70	38	4.0%	10
Ages 71-75	27	2.8%	11
Ages 76-80	14	1.5%	12
Over 80	8	.9%	13

Male	764	78.4%
Female	205	21.6%
Single	187	19.9%
Married	699	74.3%
Separated	4	.6%
Divorced	18	1.9%
Widowed	32	3.3%
Graduate	939	97.7%
Non-graduate	22	2.3%
Number of children		
1	117	15.5%
2	216	28.7%
3	169	22.4%
4	97	12.9%
More	71	9.4%
Children attend/attended University		
University	133	19.8%
GROSS ANNUAL INCOME		
Up to \$2,999	12	1.2%
\$3,000-\$4,999	23	2.4%
\$5,000-\$6,999	63	6.5%
\$7,000-\$9,999	117	12.1%
\$10,000-\$14,999	267	27.5%
\$15,000-\$24,999	225	23.2%
\$25,000-\$49,999	152	15.7%
\$50,000-\$74,999	36	3.7%
\$75,000-\$99,999	10	1.0%
Over \$100,000	10	1.0%
No Answer	54	5.7%

HOME, AUTO, INVESTMENTS

Own Home	678	69.9%
Rent/Lease/Other	284	29.3%
No Answer	7	.8%
House Value		
Under \$10,000	6	.4%
\$10,000-\$15,000	42	6.2%
\$15,001-\$20,000	83	12.2%
\$20,001-\$25,000	126	18.6%
\$25,001-\$30,000	93	13.7%
\$30,001-\$35,000	82	12.1%
\$35,001-\$40,000	63	9.3%
\$40,001-\$45,000	30	4.4%
\$45,001-\$50,000	32	4.7%
\$50,001-\$60,000	23	3.4%
\$60,001-\$75,000	17	2.5%
\$75,001-\$100,000	19	2.9%
Over \$100,000	6	.4%

Number of Cars in Family

None	65	6.7%
1 car	430	44.3%
2 cars	362	37.3%
3 cars	75	7.7%
4 cars	22	2.3%
5 cars	12	1.2%
More than 5 cars	3	.5%
Year		
Before 1950	8	.8%
1950-55	37	3.8%
1956-61	246	25.4%
1962	108	11.1%
1963	157	16.2%
1964	204	21.0%
1965	277	28.6%
1966	310	31.9%

OCCUPATION AND INCOME

Business and Industry		
Business and Industry	486	50.1%
Education	333	34.3%
Professions	397	40.9%
Government	138	14.2%
Military	30	3.1%
Student	34	3.4%
Retired	124	12.8%
Years With Present Employer		
Less than 1 year	61	6.3%
1-2 years	128	13.2%
3-5 years	143	14.7%
6-10 years	135	13.9%
11-15 years	111	11.4%
16-20 years	88	9.1%
21-25 years	69	7.1%
Over 25 years	105	10.8%
Retired/No Answer	129	13.5%
Supervisory Position	518	53.4%
Number of People Supervised		
1-5	183	18.9%
6-10	92	9.5%
11-25	81	8.3%
26-50	51	5.2%
51-100	23	2.4%
101-250	35	3.5%
251-500	21	2.2%
More Than 500	13	1.3%

PLACE OF RESIDENCE

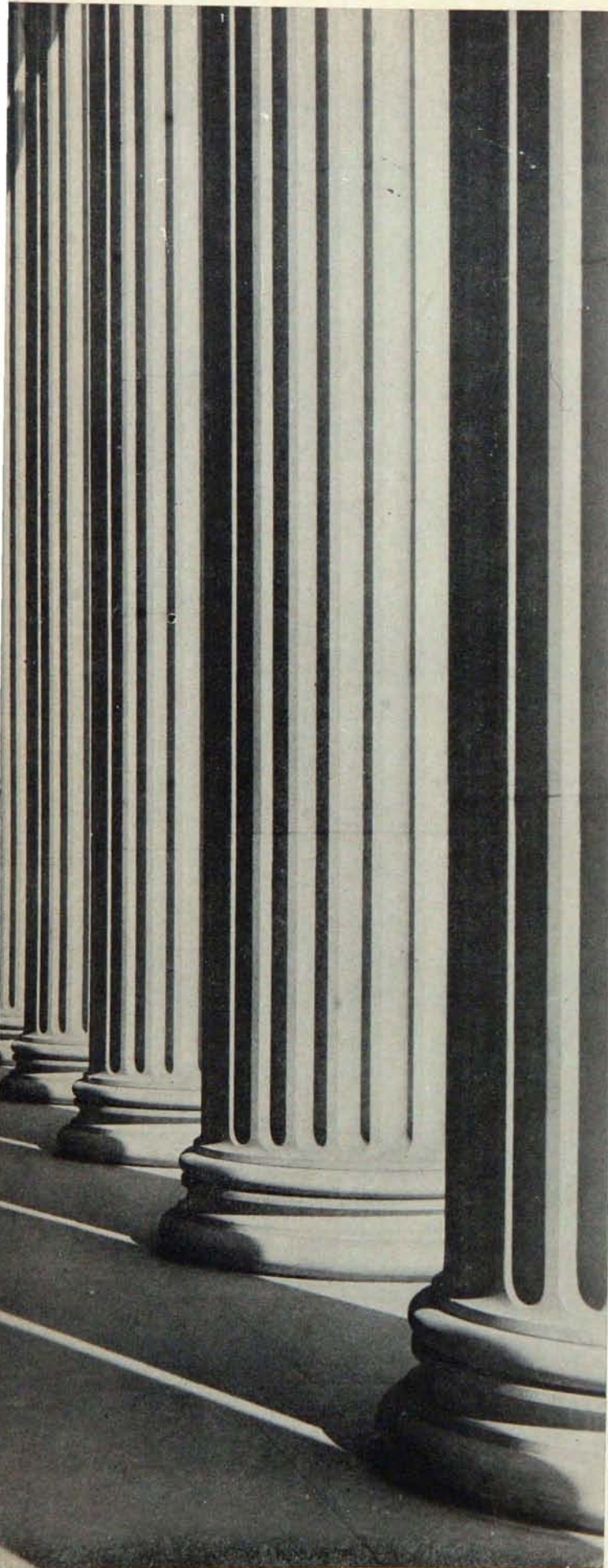
Farm	27	2.8%
Small Town	79	8.1%
Small City	151	15.6%
Medium City	144	14.8%
Big City	201	20.7%

Metropolis	296	30.5%	REAL ESTATE		Musical instrument	118	12.2%	7		
No Answer	71	7.5%	Up to \$4,000	34	3.5%	Collect records	249	25.7%	5	
Years in Residence			\$4,001-\$9,999	23	2.4%					
Less Than 1	67	6.9%	\$10,000-\$19,999	38	3.9%					
1-2	86	8.9%	\$20,000-\$29,999	51	5.3%	SPORTS				
3-5	131	13.5%	\$30,000-\$49,999	39	4.0%	Sports Participation				
6-10	130	13.4%	\$50,000-\$99,999	28	2.9%	Golf	223	23.0%	1	
11-15	116	11.9%	\$100,000 or More	36	3.7%	Skiing	76	7.8%	2	
16-20	93	9.6%			Hunting	73	7.5%	3		
21-25	88	9.1%	MUTUAL FUNDS		Swimming	66	6.8%	4		
More than 25	226	23.3%	Up to \$4,999	130	13.4%	Fishing	58	5.9%	5	
No Answer	32	3.4%	\$5,000-\$9,999	53	5.5%	Bowling	47	4.8%	6	
State	No.	Percent	Rank	\$10,000-\$19,999	46	4.7%	Tennis	47	4.8%	7
Minnesota	419	43.2%	1	\$20,000-\$29,999	14	1.4%	Baseball	22	2.3%	8
California	100	10.3%	2	\$30,000-\$49,999	20	2.1%	Hiking	16	1.6%	9
Illinois	46	4.7%	3	\$50,000-\$75,000	8	.8%	Handball	14	1.4%	10
Wisconsin	36	3.7%	4	\$75,000-\$100,000	4	.4%	Softball	13	1.3%	11
Ohio	29	2.9%	5	More than \$100,000	9	.9%	Volleyball	12	1.2%	12
New York	27	2.8%	6			Football	12	1.2%	13	
Michigan	23	2.4%	7	TRAVEL		Water-skiing	11	1.1%	14	
Texas	22	2.3%	8	Business - Frequency		Ice skating	11	1.1%	15	
Washington	18	1.9%	9	Up to 5 times	337	34.7%	Horseback riding	9	.9%	16
Florida	17	1.8%	10	6-10 times	97	10.0%	Flying	8	.8%	17
Iowa	16	1.6%	11	11-15	57	5.9%	Basketball	7	.7%	18
Pennsylvania	15	1.5%	12	More	124	12.8%	Running	7	.7%	19
Virginia	14	1.4%	13			Sailing	6	.6%	20	
District of Columbia	13	1.3%	14	Business - Mode		Bicycling	5	.5%	21	
Oregon	12	1.2%	15	Car	299	30.8%	Boxing	2	.2%	22
New Jersey	11	1.1%	16	Plane	382	39.4%	Bow hunting	2	.2%	23
South Dakota	10	1.0%	17	Rail	48	4.9%	Table tennis	2	.2%	24
All other states showed less than		1.0%		Bus	16	1.6%	Soccer	1	.1%	25
Minnesota Alumni population						Scuba diving	1	.1%	26	
Investments, Savings				Pleasure - Frequency		Stock car racing	1	.1%	27	
Carry Life Insurance	839	86.6%		1 time per year	173	17.8%	Squash	1	.1%	28
Carry Hospitalization Insurance	883	91.0%		2 times per year	262	27.0%	Badminton	1	.1%	29
Checking Account	928	95.7%		3 times per year	131	13.5%	Canoeing	1	.1%	30
Savings Account	882	90.9%		4 times per year	43	4.4%				
Trust Account	123	12.7%		5 times per year	56	5.8%	Sports Attendance			
Securities	670	69.1%		More	88	9.1%	Football	494	50.9%	1
Stocks	555	57.2%				Baseball	307	31.7%	2	
Bonds	265	27.3%		Pleasure - Mode		Basketball	173	17.9%	3	
Real Estate	260	26.8%		Car	723	74.5%	Hockey	102	10.5%	4
Mutual Funds	298	30.7%		Plane	410	42.3%	Golf	37	3.8%	5
Other	32	3.3%		Rail	76	7.8%	Track	17	1.8%	6
AMOUNT OF LIFE INSURANCE				Bus	27	2.8%	Swimming	14	1.4%	7
None	39	4.0%				Tennis	12	1.2%	8	
Up to \$1,999	38	3.9%		Length of Vacation		Bowling	9	.9%	9	
\$2,000-\$4,999	36	3.8%		1 week	65	6.7%	Wrestling	6	.6%	10
\$5,000-\$9,999	51	5.3%		2 weeks	246	25.4%	Rodeos	3	.3%	11
\$10,000-\$19,999	97	10.0%		3 weeks	198	20.4%	Horse racing	2	.2%	12
\$20,000-\$29,999	109	11.2%		4 weeks	188	19.4%	Boxing	2	.2%	13
\$30,000-\$49,999	203	20.9%		More than 4 weeks	136	14.0%	Jai-Alai	1	.1%	14
\$50,000-\$99,999	193	19.9%		No vacation	3	.4%	Soccer	1	.1%	15
\$100,000 or More	112	11.5%		No Answer	133	13.7%				
No Answer	91	9.5%				COMMUNITY ACTIVITIES				
STOCKS				Activity	No.	Percent	Rank	RELIGIOUS AFFILIATION		
Up to \$4,000	157	16.2%		Community Chest,				Lutheran	273	28.1%
\$4,001-\$9,999	76	7.8%		Red Cross	130	13.4%	7	Roman Catholic	161	16.6%
\$10,000-\$19,999	82	8.4%		Chamber of				Presbyterian	115	11.9%
\$20,000-\$29,999	43	4.4%		Commerce	110	11.3%	9	Methodist	93	9.6%
\$30,000-\$49,999	47	4.8%		PTA, School Board	141	14.5%	5	Episcopal	61	6.3%
\$50,000-\$99,999	33	3.4%		Service Groups	163	16.8%	4	Congregational	51	5.3%
\$100,000 or More	70	7.2%		Civic	115	11.9%	8	Jewish	49	5.1%
BONDS				Labor Organizations	26	2.7%	11	Baptist	26	2.7%
Up to \$4,000	126	12.9%		Youth (YMCA, etc.)	187	19.3%	3	Unitarian	16	1.6%
\$4,001-\$9,999	47	4.8%		Fraternal	133	13.7%	6	United Church of Christ	13	1.3%
\$10,000-\$19,999	31	3.2%		Professional	724	74.6%	1	Christian Science	7	.7%
\$20,000-\$29,999	18	1.9%		Church	407	41.9%	2	Covenant	2	.2%
\$30,000-\$49,999	12	1.2%		Patriotic	67	6.9%	10	First Christian	2	.2%
\$50,000-\$99,999	7	.7%					Dutch Reformed	2	.2%	
\$100,000 or More	19	1.9%		RECREATION			Radio Church of God	2	.2%	
				Read	672	63.3%	1	Christian Reformed	1	.1%
				Paint	76	7.8%	8	Disciples of Christ	1	.1%
				Plays, concerts	417	42.9%	2	Latter Day Saint	1	.1%
				Photography	302	31.1%	3	Other	18	1.9%
				Lectures	300	31.0%	4	None	27	2.8%
				Write	128	13.2%	6	No reply	48	5.0%

FACULTY CLOSE-UP

CHARLES CARSON, assistant professor of geology at the University of Minnesota, Duluth, was introduced to cold climates long before he came to Duluth from Iowa State University in 1963. Since 1958 he has been engaged in research on the geology of Arctic Alaska — specifically, the morphology of arctic lake basins. Dr. Carson uses the Carbon-14 dating method to study the ancient shorelines of lakes which are located in the Point Barrow area of Alaska, and in 1965 he expanded his research to include Lake Superior and Hudson Bay. An inveterate traveler, in 1963 he visited the Scandinavian countries and Germany and spent last Christmas vacation traveling around the world. The three-and-a-half week trip, which was primarily aimed at visiting a cousin in Australia, also included stops in Honolulu, Darwin, Manila, Bangkok, Cairo, Athens, Rome, Paris and London. Dr. Carson received his BA in 1956 from Simpson College, Indianola, Iowa, where he was on the Simpson Honor Roll; his MS in 1957 from the University of Nebraska where he received a Shell Fellowship Award; and his PhD in 1962 from Iowa State University. Previously on the faculty at both Nebraska and Iowa State, he now teaches courses in geomorphology, glacial and pleistocene geology, ground water, and soils.





**The
Education
of
Ronald Reagan**

ALUMNI NEWS

The confrontation between Governor Reagan and higher education thus far has resulted in a smashing victory for the governor and a dismal defeat for the California State Colleges and especially for the University of California.

That fact should be faced by education's advocates if they hope to improve their situation in the legislative deliberations which are about to begin.

Representatives of the university, and to a lesser degree of the colleges, insist that they are doing better in behind-the-scenes discussions with the governor and his aides than appears in the public spotlight. They contend that closed-door meetings hold the key to success, that private negotiations will produce gains which public wrangling precludes.

But the evidence points in another direction.

Several weeks of private negotiations by a Board of Regents committee has resulted in a \$42 million reduction in the university's budget request from the state, with no corresponding concession by the governor.

Reagan's offer to restore \$20 million to the UC budget, to compensate for tuition revenue he knew he would not get in 1967-68 anyway, does not constitute a concession by the governor.

Budget 'Blackjacking'

In fact, by threatening the regents that he will "review our entire approach to the financing of the university" unless the regents agree to end the university's no-tuition policy, Reagan is, in effect, using the budget as a blackjack with which to bludgeon the regents into acceptance of tuition.

It is quite clear that Governor Reagan is unwilling to stop with the victory he already has scored over the regents and is determined to press his campaign against the university even harder.

To this point, the governor and Gordon P. Smith, his finance director, have demonstrated that they are unfamiliar with the elements of quality education.

When Smith speaks, as he did two weeks ago at a meeting of the Coordinating Council for Higher Education, of the possibility that UC and State college professors might teach more classes, "just to help out this one year," he displays ignorance of academic life.

The reason UC professors do not teach more classes is because they spend much of their time on research and on the kind of close instruction that is necessary with advanced graduate students.

Could State Do Without?

One could argue, perhaps, that California should not support a graduate school, with low student-faculty ratios and a heavy investment of faculty time in research. Without such an institution, it is not at all

clear where the state would get the trained manpower to run its industries, schools, hospitals or government, but at least this is a debate that has two sides.

However, the governor and the finance director have not pressed this argument. Instead, they have asked professors to teach more classes in order to help the administration through a stated budget crisis. A good professor who is asked to spend more time in the classroom and less in the library or laboratory will go to a university where such demands are not made. Able professors are in short supply and do not lack for job offers.

When the administration attempts, as it has, to increase the student-faculty ratio in the state colleges, it is tampering with one of the most delicate parts of the machinery of higher education.

Classes already are too large in most of the state colleges. Professors teach so many students they do not get to know them and the state college takes on the impersonal character which is so deplored on large university campuses like Berkeley and UCLA.

When a class is too large the professor cannot assign written work because he does not have the time to read the papers. So he turns to the multiple

Editor's Note: Educators and alumni alike are casting anxious eyes westward, watching with growing concern the activities — and antics — of the new Governor of California and his relationship with higher education in that state. The following article, Copyright, 1967, by The Los Angeles Times, and reprinted by permission, cogently expresses what is happening in California and how it affects the overall higher education picture of the country.

choice test, an inferior measurement of a college student's knowledge. Laboratory work in the sciences suffers correspondingly.

When Reagan accuses the University of California of including "intellectual luxuries" in its budget and then can name nothing more substantial than the two examples he cited, he reveals the emptiness of his argument.

His first example, a course at UC Davis where students were said to be receiving academic credit for staging political demonstrations and for hanging the governor in effigy, turned out to be an independent study program in which talented juniors and seniors study the history and tactics of non-violence.

Since non-violence has helped to reshape the political face of the modern world, from Gandhi's India to Martin Luther King's Alabama, it might not be a bad idea for university scholars and students to study the idea.

Reagan's second example was selected from out of state. He noted that a certain Midwestern university grants a master's degree in repair of band instruments and implied that the University of California offered courses of similarly dubious distinction.

On the contrary, one of the reasons UC stands so tall among state universities is that it does not offer worthless courses. Assiduous pruning by able UC faculty members, under the watchful eye of the Board of Regents and the Coordinating Council for Higher Education, make it impossible to introduce academic boondoggles into the UC curriculum.

When Gordon Smith speaks, as he has, of the possibility of reducing state support of organized research at UC, he is talking about eliminating a service which has produced a remarkable series of agricultural improvements for the state, helping to make California the nation's leading state in farm income.

UC Davis researchers changed the tomato harvesting techniques of the state by developing a mechanical harvester, then an oblong tomato which the harvester could handle more easily. Now 80 to 90% of the state's huge, lucrative tomato crop is harvested in this manner, eliminating the need for stoop labor.

At an experimental station in Shafter, in Tulare County, UC and U.S. Department of Agriculture researchers are searching for the cause of "Verticillium Wilt," a disease which has reduced the cotton crop in the eastern San Joaquin Valley by one-third since 1962.

Would Smith halt such programs, and the dozens like them, while he and the governor adjust the state's finances? The long-range loss to the state would be many times the short-term saving.

All of these austerity measures are proposed for one year only, the governor and the finance director have said.

But if Reagan and Smith truly believe that educational quality can be halted for a year, then started up again as if nothing had happened, they betray a fatal misunderstanding of the process of college and university education.

An enormous educational enterprise, like the University of California or the California State Colleges, moves forward or drops behind; it does not pause and rest, not even for one year.

And there is no guarantee that next year the same demands for "economies" will not again be made.

Even all of this damage might be repaired if the governor had displayed a true concern for the importance of higher education, but he has not done so.

He has mixed his priorities by placing budget cutting first and education second.

By proposing budget cuts which would require the university and the colleges to limit enrollment, thereby denying admission to qualified students for the first time in the state's recent history and violating the promise of the Master Plan for Higher Education, Reagan has shown an apparent disdain for values far more important than temporary economic gain.

Achievement Scorned

He has demonstrated that he does not believe it is vital for society to enable each citizen to achieve the best in knowledge and skill and understanding of which he is capable.

For generations Americans believed that the nation's future depended on free elementary and secondary schools, because ignorant citizens are useless and dangerous citizens.

California was the first state to realize that in the complex second half of the 20th century a college education, or its equivalent in technical or vocational training, is as important to a citizen as a high school education used to be.

Now other states are copying California — expanding their university and state college systems, building dozens of new junior colleges, organizing all of higher education under one supervising agency like the Coordinating Council for Higher Education, vastly expanding their financial investments in the educational enterprise.

When the rest of the country is looking to California for leadership in this field, how paradoxical it would be for California to regress!

Anti-intellectualism Feared

Other states are watching California for another reason, too. As an official of the American Association of University Professors said on a recent visit to Los Angeles, there is fear that an anti-intellectual political reactionary now governs California and is determined to bring higher education growth to a grinding halt.

In what other spirit could a public official scorn the universities for "subsidizing intellectual curiosity," as Reagan did at his last press conference? If a university is not a place where intellectual curiosity is to be encouraged, and subsidized, then it is nothing.

Many of the voters who elected Ronald Reagan were dismayed and angered by the small minority of students who demonstrated at the Berkeley campus. But there was no implication that the entire UC system or the master plan was at fault. There was no mandate to punish the university as an institution.

Yet Ronald Reagan somehow regards the troublesome minority as symptomatic of the university and, indeed, of intellectualism.

Informed people across the country believe that Governor Reagan's budget cuts, following in the wake of his campaign attacks on UC and the subsequent firing of Clark Kerr, have started the university, and the colleges, on a downward plunge that will be difficult to reverse.

If the governor is seeking to transform the University of California overnight into an institution of the second rank, and if he desires to hold back the development of a strong state college system, he has chosen the right path to reach these goals.

this is a university



Barkers barked, dancers danced, and jesters jested as the Campus Carnival roared into its 54th year last month in the University Fieldhouse. Though to all outside appearances "Carny" is all in fun, it does serve a serious purpose as well—it is by far the largest scholarship fund money-raising project undertaken by the students. All Carny profits (more than \$19,000 last year) go into University scholarship funds—SPAN, International Student Exchange Scholarship, Project Awareness Scholarships and the Social Service Council's general scholarship fund. Campus Carny dates back to May 1913 when its forerunner, the All-University Circus, stirred student imagination and faculty interest. The Circus was sponsored by the Minnesota Men's Union to raise funds for a Men's Building. According to the 1915 *Gopher*, "Nearly everyone whose fortune it was to be on campus rendered some service to the cause." The All-University Circus became an annual University event under the name of Campus Carnival in 1947. This year, 44 student groups, representing academic and professional fraternities and sororities, residence halls, scholarship achievement societies and others combined forces. When the dust had cleared, Kappa Sigma-Alfa Chi Omega and Sigma Alpha Epsilon-Pi Beta Phi were named all-participation winners. (Minneapolis *Tribune* photo)

CAMPUS CARNY



The Twin Cities area will become the amateur sports capital of the United States July 2 to 20 when more than 1,000 American men and women athletes, representing the cream of amateur competitors in several sports, participate in the 1967 Pan-American Games Trials. The Trials will determine, in large part, the composition of the U.S. team which will compete in the Pan-American Games to be held July 22 through August 7 in Winnipeg, Canada.

Hosted by the University of Minnesota, the Trials come to this area for the first time in their history. They will be, in effect, an

by mike lyons

"Olympic Dress Rehearsal." The United States Olympic Committee estimates that at least three-fourths of the athletes selected for the United States teams that will compete in Winnipeg, will represent this country in the 1968 Olympic Games in Mexico City.

"The Trials will afford a once-in-a-lifetime opportunity to observe America's best amateur athletes in action," according to Marsh

Ryman, University athletic director and chairman of the local Pan-American Policy Committee.

Final trials in the following sports will be held in the Twin Cities area this summer: athletics (track and field) for men and women, July 15-16; boxing, July 6-7; yachting for men and women, July 6-15; gymnastics for men and women, July 8-9; judo, July 7-8; and wrestling, July 3-8.

Track and field events will be held in Memorial Stadium, while both gymnastics and wrestling are scheduled for Williams Arena and judo at University High School. Wrestling competition also will be

held at Mankato and St. Cloud State Colleges. Boxing is slated for the St. Paul Armory and yachting on Lake Minnetonka. The U.S. swimming team, already selected, will perform in an exhibition in Edina July 19.

There will be training and probable exhibitions in baseball, women's basketball, men's and women's volleyball, weight lifting, field hockey, rowing, soccer, water polo and canoeing. The women's basketball team will leave July 9 for an exhibition tour in Canada.

Among the athletes on display will be such male swimming greats as freestyler Don Schollander, winner of four gold medals in the 1964 Olympics; Don Roth, Olympic gold-medal holder in the 400-meter individual medley; Bill Utley, who defeated Roth in his specialty earlier this year; and American record holders Mike Burton in the 1,650-yard-freestyle and Mark Spitz in the 100- and 200-yard butterfly events.

In track, world shot-put record holder Randy Mattson is expected to participate, along with Jim Ryun, who has world records pending in the 880 and the mile; Jerry Lindgren, American record co-holder in the six-mile and Tommy Smith, a world record threat in three events—the 100-, 200- and 400-meters.

Among the outstanding boxers will be such representatives from this region as "Boom-Boom" Miller of Wahpeton, North Dakota, and Pat O'Connor of Rochester.

During the training period, the University will feed and house the athletes, their coaches and trainers. Following the trial competition and training period, the U.S. team will be flown to Winnipeg.

One important part of the Trials already is history—the basketball trials, which were held in Williams Arena April 7, 8 and 9, and brought the nation's finest basketball talent together for three rousing sessions of the cage sport, international style. These trials

were full of surprises, and the unheralded NAIA and Armed Forces teams each won two of three games while the favored AAU and NCAA squads were able to salvage just one win apiece.

A United States all-star roster of 18 players and six alternates was selected from the players competing in the Trials to compete in the Pan-American Games. The U.S. team will be coached by Hal Fischer of the U.S. Army Special Services and his assistant, John Kundla, head basketball coach at the University. The two coaches and Hank Iba, chairman of the basketball selection committee, will pare the roster to 12 men who will comprise the actual squad which will perform in Winnipeg. The team also will play several exhibitions in this area during the trials and training period.

The roster includes the following all-stars: Centers—Bob Kauffman and Al Tucker (NAIA), Kendall Rhine (AAU) and Wes Unsel (NCAA); forwards—Sonny Dove and Don May (NCAA), Steve Jones and Jay Miller (AAU), Charles Paulk (NAIA) and Mike Silliman and John Snipes (Armed Forces); guards—Mike Barrett and John Clawson (Armed Forces), Darel Carrier and Calvin Fowler (AAU), Mal Graham and Jo Jo White (NCAA), and Henry Logan (NAIA).

An event as big and impressive as the Pan-American Game Trials involves a great amount of planning and hard work. A total of 31 committees, combining the efforts of more than 600 members from the Twin Cities area, 25 of them University staff members, have been hard at work on preparations for several months. There are 11 special planning committees and 20 committees involved with the various sports which will be represented in the Trials.

In addition to Ryman, University staff members of the Local Policy Committee are Stanley J. Wenberg, vice president for educational relationships and development; William L. Nunn, director of University relations; and Don L. Finlayson, director of housing.

Representing other schools in the Twin Cities area on the Local Policy Committee is Clarence A. Nelson, Hamline University director of athletics. Norman A. McGrew, manager of the Minneapolis Chamber of Commerce, Ervin A. Timm, manager of the St. Paul Chamber and William Davenport, representing the suburban Chambers of Commerce, also serve on the committee. Wally Johnson, University wrestling coach, is serving as executive director.

The Winnipeg Games will be the fifth Pan-American Games in a series which started in 1951 at Buenos Aires, Argentina. They have been held every four years since then. Other sites have been Mexico City (1955), Chicago (1959) and Sao Paulo, Brazil (1963).

The United States has dominated the games, winning three of four to date, by wide margins. Argentina won the 1951 games.

Modelled after the Olympics, the Pan-American Games actually had their inception during World War II, although ideas about such a sports event had been entertained without any decision for many years before this. The war prevented the holding of the Olympic Games which had been scheduled for Tokyo in 1940, and thus rekindled the latent interest in the Pan-American Game idea.

It was hoped that the Games would serve to build new and closer bonds between the American nations, while providing their amateur athletes with additional international competition equally spaced between each Olympiad. Although planning continued throughout the war, it was not feasible to hold the games until 1951.

The athletes who will compete and train here in July will determine whether U.S. supremacy in the Games is to continue. It should be a strong team, and the people of the Twin Cities area and the Upper Midwest will have a matchless opportunity for an advanced-look at the talented athletes who will comprise it.

BACK TALK

(Continued from page 6)

or any other state in the Union, for that matter.

Maybe what the Akron editorial writer was really complaining about was the fact that Minnesotans were smart enough to conceive the idea of a "perfect city, built from scratch."

The real trouble with Ohio is that it's — and you should pardon the expression — not as clean as Minnesota.

And here's the proof — straight from government records. The "Arithmetic Average of Suspended Particle Matter (Micrograms per cubic meter)" is 83 in Minneapolis. In Cincinnati, it's 157. In Cleveland, it's 128. In Columbus, it's 127.

Radioactivity of the air is higher in Ohio, too.

Putting all these facts together, we think Ohioans would find coming to Minnesota like inhaling a breath of fresh air. So we are going to turn the other cheek toward our detractors and invite Ohioans to become part of the anticipated 100,000 citizens of our "perfect city" once we get it built.

But we're going to set up decontamination units at the state line to make sure we keep OUR cities clean.

Delaware Valley Elects B. H. Boersma

Burton H. Boersma '50BA, Devon, Pennsylvania, has been elected president of the Minnesota Alumni Chapter of the Delaware Valley, covering Pennsylvania, New Jersey and Delaware.

Other officers who will serve with Boersma for 1966-67 are Richard L. Jespersion, vice president, and Neil D. Rankine '41BBA, secretary-treasurer.

Members of the board of directors, in addition to the officers, are Robert Beebe '45MSFor, Mrs. Robert DiJoseph, William M. Galbraith, Raymond R. Halik '40BChemE, Donald Lyford '24BSB and Sidney A. Parsons '25BSEE.



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ELECTION BALLOT

THE MINNESOTA ALUMNI ASSOCIATION

The accompanying list of 10 candidates is hereby certified as correct. Each Association member will vote for no more than five (5) candidates.

Signed

Albert H. Heimbach '42BBA
Thomas M. Salmen '41BA(UC)

Harold B. Shapira '31BSPhmChem
Waldo E. Hardell '26BSBus, *Chairman*

Members Nominating Committee

BALLOT

- JOHN DUXBURY '49BBA
Minneapolis, Minnesota
- HARRY HELTZER '33MetE
St. Paul, Minnesota
- OSCAR R. KNUTSON '27LLB
St. Paul, Minnesota
- DR. SHELDON LAGAARD '41BS '43MB '43MD
Minneapolis, Minnesota
- ELWOOD R. MAUNDER '39BA
New Haven, Connecticut
- JEANNETTE RIDLON PICCARD '42PhD
Minneapolis, Minnesota
- ROBERT P. PROVOST '49BSEd
Minneapolis, Minnesota
- CONWAY J. ROSELL '49BS '51DVM
White Bear Lake, Minnesota
- JOHN L. WERNESSE '30AMS
Minneapolis, Minnesota
- HOWARD F. WOO '27BA '31BArch
Minneapolis, Minnesota

1. Place X opposite each person for whom you wish to vote. Do not vote for more than five (5) candidates or your ballot cannot be counted.

2. Ballot need not be signed. If ballot is not signed, name and address *must* appear on the envelope containing the ballot. It is important that your name be legible.

3. Clip ballot and send to Executive Director, Minnesota Alumni Association, 205 Coffman Memorial Union, University of Minnesota, Minneapolis, Minnesota 55455.

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

4. Ballot must be in the office of the Executive Director by May 26 in order to be counted.



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THE UNIVERSITY

Health Sciences Education Expansion Plans Outlined

Top University educators in the health sciences presented their programs to the Regents last month — and outlined proposed plans to greatly increase the number of students to be educated in the health sciences at the University during the next 10 to 20 years. The presentation was one of a series of seminars initiated last year by the Regents on major developments at the University.

The University's program in the health sciences was given by Dr. Robert B. Howard '42BA '44MB '45MD '52PhD, dean of the College of Medical Sciences; Dr. Erwin M. Schaffer, '45DDS '51MS, dean of the School of Dentistry; Lawrence C. Weaver, dean of the College of Pharmacy; and John H. Westerman '54LLB '58BBA '60MHA, director of University Hospitals.

The presentation outlined the methods, facilities, funding and future of the University's education of medical students, dental students, students in nursing, pharmacy, public health and a dozen other existing or new programs in associated health professions. Considerable attention was given to the needs of Minnesota and the Upper Midwest for people trained in the health sciences.

The University's major \$53 million expansion plan in the health sciences was related to present programs, with emphasis on increased quality of educational programs in the health sciences, as well as a striking increase in students. Health sciences expansion was approved by the Regents last July and presented to the Minnesota State Legislature earlier this year.

The program calls for more than doubling student enrollment in the health sciences at the University,

from 3,124 students in 1966 to 6,900 students in 1986.

Price tag on the expansion proposal is \$53,440,800. This replaces a \$34 million, 10-year building program presented to the 1965 legislature which did not anticipate expansion of medical and dental classes. The new proposal represents a more comprehensive approach to health science facilities, and incorporates the enrollment expansion recommendations of the Health Manpower for the Upper Midwest Study, independently sponsored by the Hill Family Foundation of St. Paul.

It is expected that about half of the new funds will come from federal matching and private sources. The request before this session of the Minnesota State Legislature is for \$1,150,000 for the next two years to cover land acquisition costs (\$650,000) and planning (\$500,000).

The program includes an increase in the University's entering medical class from 160 to 200 students at an early date and establishes plans for expansion to 250 at some time in the future. Further medical enrollment increases are expected in intern training and graduate students (fellows and residents), at both the University's medical center and affiliated hospitals. Medical students will go from 1,290 in 1966 to 1,645 in 1973 — and to 2,105 by 1986.

Dental classes will increase by 40 per cent, from 110 to 150 students, with an eventual expansion to 200 students anticipated. Additional students in dentistry training (graduate and postgraduate students, dental hygiene, and dental assistants) will increase the total dental student population from 569 in 1966 to 1,184 in 1973.

Public health programs, such as

environmental health, hospital administration and public health nursing, will increase from 262 students in 1966 to 389 in 1973, with long-range expansion to 540 students.

Nursing programs now conducted will show the largest proportional increase (nearly 100 per cent), with student training at the University going from 417 in 1966 to 802 in 1973.

Occupational and physical therapy and 10 other existing or new professional programs in the associated health sciences also will show significant increases. These programs will expand to accommodate nearly 200 new students by 1973 and as many as 555 new students by 1986.

The proposed expansion envisions the remodeling of existing basic science buildings, the construction of a new dental building, a new outpatient clinic and hospital building (which would include 270 beds), and a new clinic research building.

The need for a modern and expanded outpatient facility was stressed. The present building was constructed in 1920.

Law School Alumni May Exchange Degrees

Former graduates of the University's Law School will be able to exchange their old LLB degrees for the new JD degree beginning this September.

The Regents recently adopted the JD (Juris Doctor) degree for all graduates of the Law School, beginning this June, and in addition made the degree retroactive so that all alumni can trade their LLB (bachelor of laws) for a JD.

The University is the most recent of a number of large Midwestern universities that have switched over to the JD degree. Presently, some 70 of the 136 law schools approved by the American Bar Association have made the switch.

CAMPUS NEWS

St. Paul

Some 117 educational programs available to Minnesotans in 1967-68 through the University's Agricultural Extension Service are described in a recently-published book, "Open Doors to Learning." It is available by writing to the Bulletin Room, University of Minnesota, St. Paul 55101. . . . The late Lewis A. Campbell, former Winona County livestock breeder, was honored at the annual meeting of the Minnesota Livestock Breeders Association when his portrait was hung in the University's **Livestock Hall of Fame in Peters Hall**. . . . The 16th annual Minnesota State Fire School for volunteer and professional fire fighters was held this month on the St. Paul Campus. . . . **General science and biology teachers** from high schools in the Twin Cities area attended a special conference on natural resources last month at Camp Wilder, Minnesota. It was co-sponsored by the Institute of Agriculture and Minnesota Association for Conservation Education.

Duluth

UMD's debate team captured a **sweepstakes rating of excellent and placed 11th in a field of 167** colleges and universities competing in in the 25th Biennial National Pi Kappa Delta Tournament and Convention. . . . Alexis Jarrett, captain of the basketball cheerleading squad, has been **chosen as an instructor for the National Cheerleaders Association**. . . . Samuel Kirkwood, University biochemist, delivered the Duluth Clinic Foundation Lecture last month for the 14th Northeastern Minnesota Regional Science Fair. There were more than 100 exhibits.

Edwin C. Siggelkow, coordinator of student activities and director of Kirby Student Center, **last month was named director of Coffman Memorial Union**. . . . Peter

Ramme, Rochester, Minnesota, has been elected president of the UMD Student Association. . . . Some 200 persons attended the **first annual Patrons and Subscribers Dinner at Tweed Gallery** last month, honoring all those persons who have directly supported the Gallery program. . . . S/Sgt. Paul N. Collette and T/Sgt. Robert Stephens have been assigned as **assistant instructors to the 420th Detachment, Air Force ROTC Training Corps**. . . . A certified public accountant review course will be offered by the General Extension Division beginning May 11. Robert E. Curtis, assistant professor of business administration, will instruct the six-credit course. . . . **More than 3,500 students from 47 schools in Northeastern Minnesota** participated in the annual Region 7 State Music Festival Last Month on the Campus.

Minneapolis

Professor Harold W. Stevenson, director of the Institute of Child Development, recently was named **president-elect of the Society for Research in Child Development**. . . . W. Wesley Tennyson, associate professor of educational psychology and counselor educator, has been honored with the Certificate for Outstanding Accomplishment of the Harvard Graduate School of Education Association. . . . **Edmund A. Nightingale, professor of economics and transportation, gave the keynote address** at the First Nebraska Transportation Symposium, held recently in Omaha.

The American Philosophical Society has awarded Timothy L. Smith, professor of history, a grant of \$1,000 to support four weeks of research in Geneva, Switzerland, on the relationships between the World Council of Churches, International YMCA and refugee Orthodox congregations of Western Europe. . . . **E. G. Williamson, dean**

of students, is the new president of the American Personnel and Guidance Association. . . . Frank Benson, General College associate professor and administrative assistant, has been awarded one of the American Council on Education fellowships in academic administration. He will intern under Vernon Alden, president of Ohio University. . . . **A \$10,465 grant has been given to the University for tuberculosis research** by the Minnesota Tuberculosis and Health Association.

Thomas P. Lewis, professor of law, has been named the third member of a wage-adjustment panel to study a pay dispute between the Minneapolis City Council and police and firemen. . . . Dr. Peter Dent, School of Medicine instructor, has been awarded a five-year, **\$75,000 research grant by the Leukemia Society of America**. . . . Because of consistently poor sales, the Gopher yearbook will not be published next year. . . . The sixth annual congress of the **U.S. Student Press Association will be held at the University August 21 to 16**. . . . The Minnesota Daily has been awarded the highest honor rating—"All American"—for fall quarter by the Associated College Press critical evaluation service.

Boston College defeated the University 305-180 in the nationally-televised G. E. College Bowl last month. . . . Russell B. Adams, assistant professor of geography, will participate in a **seven-week colloquium tour of the Soviet Union** this summer. . . . Henry Borow, professor of psychological studies in the General College, recently took office as president of the 11,000-member Vocational Guidance Association. . . . William C. Rogers, director, Barbara Stuhler, associate director, and Alice Moore, program coordinator of the World Affairs Center, recently participated in a three-day course, "**Simultaneous Residential Seminars**,"

in St. Charles, Illinois. . . . Jan O. M. Broek, geography professor, is one of 15 contributors to a book just published by the American Geographical Society of New York, "The Pacific Basin: A History of its Geographical Exploration.

Two University artists—Professor Malcolm Myers, chairman of the studio arts department, and Ralph A. Brown, head of related arts at University High School—recently had an **exhibition of their work at the Kilbride-Bradley Art Gallery**, Minneapolis. . . . Robert F. Spencer, anthropology professor, recently presented the annual anthropology lectures at Wheaton College, Wheaton, Illinois. . . . Frank Elli, author of the best-selling book on prison life and conditions, "The Riot," while an inmate in Stillwater Prison, **spoke about his book and conditions in several prisons** in a special lecture last month. . . . Lieutenant Commander Harry Hollien, USNR, director of the communication sciences laboratory at the University of Florida, spoke on "Underwater Speech Communications Research" in a special lecture last month on the Campus.

Speech therapy sessions for persons who stutter are being held held from 6:30 to 8:30 P.M. Mondays in the Speech and Hearing Clinic. Fee is \$2.00 per session. . . . Senator Jacob K. Javits, (R-N.Y.), **spoke last month at a special convocation** on the Minneapolis Campus. . . . James O. C. Jonah, political affairs officer in the United Nations Department of Political and Security Council Affairs, addressed 350 members of the Model U.N. in conclave last month on the Campus. **The 10th Annual Model U.N. Assembly** was made up of students from colleges and universities in the five-state region of North and South Dakota, Iowa, Wisconsin and Minnesota, comprising the North Central District. . . . **Mark Lane, author of the best-seller, "Rush to Judgment"**—a critique of the Warren Commission's decision on the assassination of President John F. Kennedy—spoke on Campus last month.

Nils Gunnar Nilsson, cultural editor of "Kvallsposten," a daily newspaper in Malmo, Sweden, has been named an **honorary fellow for the spring quarter at the School of Journalism and Mass Communication**. Nilsson holds a scholarship from the Swedish Publicists' Club for the purpose of studying press research methods in this country. . . . Arnaud de Borchgrave, senior foreign correspondent for "Newsweek" magazine, spoke on "**American Globalism 1967**" last month on the Minneapolis Campus. His appearance was sponsored by the School of Journalism and Mass Communication. . . . **Vitaly Alekseivitch Korotich, editor-in-chief of "Ranok"** magazine, which is published in Kiev, the Ukrainian republic of the USSR, visited the School of Journalism and Mass Communication last month as part of a study of American journalism education and professional methods.

Tran Van Dinh, Washington, D.C., bureau chief for the Saigon "Post" since 1964, gave a convocation address last month on Campus. His talk was sponsored by the Minnesota chapter of SANE (U.S. Committee for a SANE Nuclear Policy), Minnesota Student Association and the department of concerts and lectures. . . . **Elmer W. Learn, assistant to President O. Meredith Wilson, spoke** on "University Development" at the April meeting of the University Dads' Association. . . . Professor Morton Hamermesh, head of the school of physics, and Hans W. J. Courant, associate professor of physics, last month **attended a meeting of high-energy physicists at Argonne National Laboratory** to discuss the new 200-billion electron volt accelerator to be built at Weston, Illinois.

An innovator and leader in medical education—and a proponent of the concept of physicians' assistants as a striking new way to alleviate the shortage of doctors—was named the **John C. and Miriam Cornelius visiting professor in medicine** last month at the University. Dr. Eugene Stead Jr., professor and chairman of the depart-

ment of medicine at Duke University School of Medicine, spent one week in April at the University's Medical Center. . . . **Professor Dale Yoder, founder and first director of the University's Industrial Relations Center**, last month was guest speaker at the Tenth Anniversary Conference of Iota Rho Chi, professional industrial relations fraternity at the University. Yoder, director of the Bureau of Business Research at California State College in Long Beach, was presented with an honorary citation, citing him as "a scholar and educator who served the University and its students well for 25 years, and who has always supported the ideals of good scholarship and professionalism in his chosen field of business administration."

Four faculty members have been named **winners of fellowship awards of the John Simon Guggenheim Memorial Foundation**. They are Carlos F. Diaz-Alejandro, associate professor of economics; William A. McDonald, professor of classics; John Overend, associate professor of physical chemistry; and Milton Sobel, professor of statistics. . . . A valuable computer tape containing annual data on about 1,000 companies for a 15-year period recently was **presented to the School of Business Administration** by Standard Statistics Company, Inc., New York, a subsidiary of Standard & Poors Corporation. The gift marks a substantial step forward in computer financial analysis research at the University. . . . Sir Terence Cawthorne, internationally-noted Otolaryngologist and past president of the Royal Society of Medicine in England, last month presented the **Joseph Bettingen Lectureship in Otolaryngology**.

Many aspects of technical writing, a field in which severe shortages of personnel exist, were discussed by leaders in industry and education at a technical communications symposium last month on Campus. Theme of the one-day program was "**The Human Element in Technical Communications**."

THE ALUMNI

Four Alumni To Be Honored At 63rd Alumni MAA Meeting

President O. Meredith Wilson, who will leave the University this summer to assume the directorship of the Center for Advanced Study in the Behavioral Sciences at Stanford, California, will address alumni for the last time next month as guest speaker at the 63rd Annual Meeting and 18th Annual Honors Presentation of the Minnesota Alumni Association.

President Wilson, who became the ninth chancellor of the University in 1960, will address alumni from around the nation at the meeting — which is the most important alumni event of the year — on Tuesday evening, June 6, in the International Ballroom of the Pick-Nicollet Hotel, downtown Minneapolis.

The meeting will begin with a reception and social hour at 6:00 P.M. in the Walnut Room, with dinner and the annual meeting getting under way at 7:00.

The president also will present the highest awards bestowed by the University and the Minnesota Alumni Association — the Outstanding Achievement Award and Alumni Service Award — to four distinguished alumni.

Special guests of honor at the meeting will be past recipients of the two awards.

Another highlight of the evening will be the announcement of MAA election results and introduction of new board members and officers to the membership by retiring MAA President Waldo E. Hardell '26BS-Bus.

Recipients of the Alumni Service Award at the meeting will be:

Douglas R. Manuel '22BChemE, Minneapolis, vice president, trade-sales for Frost Paint and Oil Corporation. It was because of his personal leadership that the Institute of Technology Alumni Association

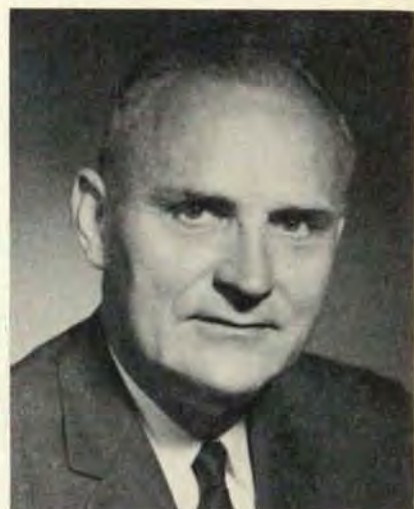
voted to become the first constituent group of the MAA. Manuel served on the Institute of Technology Alumni Board from 1944 through 1956, including 10 years as president, and served on the MAA board from 1955-56.

Charles Judd Ringer '38-'41, Wayzata, president of the Judd Ringer Corporation. Ringer, MAA national president from 1964-65, served on the MAA board from 1961 to 1965. He has served on the President's Project Advisory Committee, as alumni representative on the Senate Committee on Intercollegiate Athletics and chairman of the Minnesota Alumni Fund.

Recipients of the Outstanding Achievement Award will be:

Bert S. Cross '24-'29, chairman of the board and chief executive officer of Minnesota Mining & Manufacturing Company. Cross, who joined the firm in 1926 as a laboratory technician became a vice president in 1948, executive vice president and director in 1957 and president in 1963. He assumed his present position last year.

Chester S. Wilson '08BA '12LLB, Stillwater, Minnesota, attorney. Wilson, who was commissioner of conservation from 1943-55, was first chairman of the Minnesota Water Pollution Control Commission from 1945-53 and has taken part in consulting work in the conservation field since 1955. He continues to serve as a special assistant attorney general, and as attorney and counsel for the Pollution Control Commission.



President Wilson



Douglas Manuel



Charles Judd Ringer

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W. T. S. Thorp (center), dean of the College of Veterinary Medicine, is shown here at a special Recognition Dinner in his honor last month at the new St. Paul Hilton. Thorp, who was recognized for his 12 years at the University and his outstanding contributions to the veterinary medical profession, is shown here with Robert A. Wescott '57DVM (left), president of the Veterinary Medical Alumni Association and master of ceremonies for the dinner and program, and Robert A. Martens '56DVM, general chairman. More than 240 alumni, friends and associates of Dean Thorp attended the event and saw him receive the first Distinguished Service Award of the Veterinary Medical Alumni Association and the Karl F. Meyer Gold Headed Cane Award, given every other year by the National Conference of Public Health Veterinarians to the senior veterinarian who has made a major contribution to the advancement of public health.



Richard Kozelka '31PhD (left), professor and former head of the School of Business Administration, is shown here receiving an engraved silver tray from William Costello '50BBA, president of the School of Business Administration Alumni Association at the group's Annual Faculty-Alumni Stag March 30. Kozelka retires from the University next month to become professor and director of graduate studies in the College of Business Administration at the University of South Florida, Tampa. He was dean of the School of Business Administration from 1944-60 and since stepping down has been a professor in the School's department of quantitative analysis.

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UMD Alumni Host Students

Some 140 high school juniors from more than 20 high schools in Duluth and Northeastern Minnesota were guests last month of the UMD Alumni Association at a program designed to recognize their scholastic accomplishments and to familiarize them with the educational opportunities available at UMD.

The afternoon program included a general meeting with Tim Burgess '63BAUMD, UMD Alumni Association president; Provost Raymond W. Darland; and Thomas Chamberlin, academic dean, who spoke to the guests about higher education in general and the opportunities available at UMD in particular.

Following the meeting, the students were conducted on tours of the campus, with directors of the UMD Alumni Association and students serving as guides. Meetings with faculty members in the students' fields of interest also were held, and the day's activities were capped off with a Coke Hour in Kirby Lounge.

According to Dr. Vernon Amundson '60BS '62DDS, Association vice president and chairman of the project, "The day was designed to recognize these students for the high academic achievements they have reached thus far, as well as to acquaint them with the excellent educational opportunities available at UMD."

Owatonna Chapter

Names Morris President

Hugh Morris has been elected president; John Alexander, vice president; and Lorraine Grant '48BSHE, secretary-treasurer of the Owatonna, Minnesota, Chapter of the Minnesota Alumni Association.

Board members for the coming year are Mickey Humes '24BA, Jack Cashman '48BSAg, John W. Zwiebel '50MAAgEd, Dick Anderson '46BA and Dr. W. G. Wilkowske '62DDS, ex officio.



Virginia, Minnesota, legal profession members greet Dean William J. Lockhart (right), Law School, at the annual East Range University of Minnesota Alumni Association Dinner and Meeting recently. Dean Lockhart was speaker at the annual meeting. Pictured with him are (from left) Milton Logan '49BSL '50LLB, city attorney; Municipal Judge Ralph E. Harvey '48BSL '48LLB; William Ojala '49BA, attorney and county commissioner who served as toastmaster; Attorney Vernon Saxhaug '55LLB; and Attorney John Trenti '51LLB, president of the East Range Chapter. Special guests at the dinner were several seniors from Virginia High School who rank in the upper 5 per cent of their class.

**YOU ARE INVITED
TO THE
63RD ANNUAL MEETING OF THE MEMBERSHIP
AND
18TH ANNUAL HONORS PRESENTATION**

6 p.m. Tuesday, June 6

INTERNATIONAL BALLROOM, Hotel Pick-Nicollet, Minneapolis

All Minnesota Alumni Association members are cordially invited to take advantage of this opportunity to renew acquaintances, to meet outstanding alumni and the new MAA officers and board members. President O. Meredith Wilson will attend as a special guest and will confer two Alumni Service Awards and two Outstanding Achievement Awards. Tickets are \$5.50 each. Reservations accompanied by your check must be in the office of the Minnesota Alumni Association, 205 Coffman Memorial Union, by June 2, 1967.

Please send _____ tickets to the 63rd Annual Meeting of the Membership and 18th Honors Presentation.

Enclosed please find my check or money order in the amount of \$_____

Name

Address

City..... State..... Zip.....

Hawaii President



Ray K. Tachibana '53DDS, Honolulu dentist and 1966-67 president of the Hawaii State Dental Association, last month was elected president of the Hawaii Chapter of the Minnesota Alumni Association.

Other officers for the coming year are Dr. John T. Kometani '39MD, vice president, and Mrs. Sharon Fitch '61BA, secretary-treasurer.

Board members, in addition to the officers, are Paul S. Osumi Jr. '64BSArch, Ted Matsuo '51BA, Mrs. Grace Berg '38BSEd, Ned B. Wiederholt '50Arch '52, Mrs. Agnes T. Gaughan '27BSEd '45MA, William E. Alexander '43 and Dr. Jun-chuan Wang '46MD.

The meeting was attended by Janet Hart Widseth '39BSHE, MAA assistant director.

Meet in San Francisco

Three faculty members and 35 alumni last month attended a special Minnesota Alumni Meeting in conjunction with the National Public Administration Conference in San Francisco's Fairmont Hotel. Faculty in attendance were Drs. Lloyd Short, George Warp and Albert H. Rosenthal.

14th Business Institute

The 14th Annual Institute of the School of Business Administration Alumni Association will be held Thursday, November 2, in the Leamington Hotel, downtown Minneapolis.

MAY, 1967



Top-ranking juniors from Winona, Minnesota, high schools met Donald K. Smith, associate vice president for academic administration, at the annual Winona Chapter Alumni Dinner recently. From left, Joanne Shargey, Mary Schramm, Sandra Wershofen, Nancy Edstrom, Leanne Hansen, Elizabeth, Smith, James Henry, Mary Shargey and Paul Schollmeier. Officers elected at the annual meeting were LeRoy Backus '28BA, president; Alberta Seiz '33BS, vice president; and Mildred Kjome '51MAEd, secretary-treasurer.

Mortuary Science Elects Bob Werness

Robert G. Werness '53AMS, Minneapolis, has been elected 1966-67 president of the Mortuary Science Alumni Association.

Other officers for the coming year are Timothy Gleason '62AMS, Minneapolis, vice president, and Keith L. Nordby '47AMS, Osseo, Minnesota, secretary-treasurer.

Board members and expiration dates of their terms of office are Werness, Gleason, Wayne E. Cease '58AMS, Bagley, Minnesota; William L. McReavy '52AMS and Wallace E. Miller '41AMS, Minneapolis, 1967.

Ralph Albinson '55AMS, Donald Gearhart Jr. '61AMS; Roger L. Hauge '64AMS and Morris Nilsen '51AMS, Minneapolis; Bernard E. Williams '39AMS, St. Cloud; and Nordby, 1968.

Robert B. Knaeble '46AMS, Minneapolis; Patrick O'Halloran '60AMS and Dale E. Ellis '56AMS, St. Paul; Benedict J. Bruzek '34AMS, New Prague, Minnesota; and Ar-

thur A. Simonet Jr. '58AMS, Little Falls, Minnesota, 1969.

Immediate past president is Vernon L. Iwanoski '42AMS, St. Paul.

Pharmacy Breakfast Meeting May 8

The annual Pharmacy Alumni Breakfast, held in conjunction with the Minnesota State Pharmaceutical Convention, will be held Monday, May 8, in the Pioneer Room of the new St. Paul Hilton Hotel.

Chairman for the breakfast meeting, which will be held at 7:45 A.M., is Vergil Vergin '48BS-Phm. Master of ceremonies will be Ben T. Gilquist '29BSPhm, president of the College of Pharmacy Alumni Association and speakers will include Lawrence Weaver, dean, and Ed Haislet '31BSEd, MAA executive director.

Social Work Meeting Set

The Third Annual Meeting of the School of Social Work Alumni Association has been set for Tuesday, October 17, in Coffman Memorial Union.

Nursing Alumnae Seminar, Dinner Scheduled May 17

Jeanne C. Quint, assistant research sociologist at the University of California, San Francisco, will speak on "The Nurse as a Facilitator of Communication" at the Seventh Annual Meeting of the School of Nursing Alumnae Association on Campus this month.

The meeting, which will begin with an afternoon seminar followed by a social hour and dinner in the Campus Club, Coffman Memorial Union, will be held Wednesday, May 17.

Miss Quint is the author of numerous articles for the *American Journal of Nursing*, *Nursing Outlook* and other professional publications and her most recent article, "Awareness of Death and the Nurse's Composure," appeared in the winter issue of *Nursing Research*. She has done extensive research in nursing services and the care of dying patients, as well as in the field of nursing communication problems.

The afternoon seminar program will begin at 1:30 P.M. in Mayo Memorial Auditorium. Registration fee is \$1.00, payable at the door.

The evening banquet will begin with a social hour at 5:30 P.M., followed by dinner at 6:30. Entertainment will be provided by the Robert Mantzke Quartet and the 1942 Silver Anniversary Class will be honored.

Reservations, at \$5.00 per person may be made with the Nursing Alumnae Association, 205 Coffman Memorial Union, University of Minnesota, Minneapolis 55455.

Cline Elected Brainerd President

James E. Cline '65BA has been elected 1966-67 president of the Brainerd, Minnesota, Chapter of the Minnesota Alumni Association.

Other officers for the coming year are George Kinney '51BSFor, vice president, and Dr. William Haggberg '63DDS secretary-treasurer.



These Albert Lea, Minnesota, high school students were among those honored recently by the Albert Lea Chapter of the MAA at its annual meeting and banquet. Special scholarship pins were presented to 22 seniors who ranked in the top 5 per cent of their class during their first 11 years of education. Presentations were made by Stuart Immer '58BSAg, Chapter president, who also introduced the evening's speaker, Dean Rodney Briggs, University of Minnesota, Morris. Listening to Dean Briggs (from left) Larry Kurth, Sue Mortenson (behind Kurth), Robert Neheim, Laura Harper, Rick Dunn, Mary Colstrup, Darrel Gavle and Faye Oldert.

St. Louis Alumni Elect Fred Chipman

Fred C. Chipman '49BSE was elected president and Mrs. Elizabeth Strange, vice president, at the annual meeting last month of the Greater St. Louis Chapter of the Minnesota Alumni Association.

Other officers for the coming year are Mrs. Karleen Rosaaen '53 BSEd, secretary, and James H. Clark '57BAeroE, treasurer.

Board members, in addition to the officers, are A. C. Waldvogel '46BME, John McCormich '41-BBA, Mrs. R. C. Elliot '34BSHE and Robert B. Pettengill.

Highlight of the evening meeting, which was attended by 41 alumni, was presentation of the Outstanding Chapter Award for 1965-66 by Ed Haislet '31BSEd, MAA executive director. The Chapter was the originator of the Chapter Scholarship Fund in 1951, and since that time has contributed more than \$2,300. The maroon and gold Outstanding Chapter banner was presented to Richard C. Wallsmith '38BBA, retiring president.

Guest speaker for the evening was Elmer W. Learn, assistant to the president, who spoke on University structure, organization and curricula.

Therapists Set May 27 Meeting

The First Annual Meeting of the Occupational and Physical Therapy Alumni Association will be held Saturday, May 27, at Jax Cafe, Minneapolis.

A social hour starting at 6:30 will be followed by dinner at 7:30.

The dinner and program will honor graduating students and two of them—Marjorie Roberts from physical therapy and Marit Osland of occupational therapy—will serve as student co-chairmen of the banquet.

Students will be responsible for student ticket sales, setting the theme for the meeting, entertainment, decorations and programs. Master of ceremonies will be Catherine Aitken Buck, president of the newly-form constituent group.

Carmen N. Richards Re-elected in Florida

Carmen N. Richards '13BA, Dunedin, Florida, has been re-elected president of the Florida Suncoast Chapter of the Minnesota Alumni Association.

Other officers for the coming year, elected at the Chapter's annual dinner meeting last month, are Shirley C. Brayton '14-20, vice president; Esther Goehring '62BS-UMD, secretary; and Caryl Sly '24-27, treasurer.

Directors elected were Lawrence V. Grandchamp '49BChemE and W. Ray Smith, three years; Dr. Joseph Huseh '25DDS and Howard B. Palmer '22BSCE, two years; Lorin D. Hargrove '28BSChem and Dr. L. M. Radke '17, one year.

Mortar Board Spring Banquet Scheduled May 24

The annual Mortar Board Alumnae Association Spring Banquet in honor of Mortar Board initiates will be held Wednesday, May 24, at Holiday Inn Central, downtown Minneapolis. The banquet will begin at 6:00 P.M. in the Hall of Satellites.

Banquet festivities, which revolve around an astrology theme, will be highlighted with "Startling Predictions" by the guest speaker, Dr. David P. Campbell, director of the Center for Interest Measurement Research.

Reunion classes of 1917, 1942 and 1957 also will be honored.

Reservations must be made by Friday, May 19, with Mrs. Sara Jane Parsons, 4917 Logan Avenue South, Minneapolis, or by calling her at 922-5714. Cost of the dinner and program is \$4.25 per person and all Mortar Board alumnae are invited.

CLA Picks November 2

The Annual Meeting of the College of Liberal Arts and University College Alumni Association will be held Thursday, November 2, in the Campus Club, fourth floor, Coffman Memorial Union.



Representatives of the UMD Alumni Association and Elliott Packing Company check the weight of the giant hot dog featured in the Association's fund-raising contest at the UMD-Michigan Tech hockey games. From left to right are Tim J. Burgess '63BAUMD, president; David Zentner '59BA, past president of the Association and chairman of the fund-raising project; and Dudley Smith, vice president of Elliott Packing, which made the hot dog. The Association raised \$90 with a weight-guessing contest featuring the hot dog. Proceeds will be used to fulfill the Association's pledges to the UMD Freshman Scholarship Fund, Athletics Award Banquet and Student Contact Program. Incidentally, it weighed 38 pounds, 1½ ounces.

WHERE DO YOU STAND?

Shown below are Minnesota Alumni Association membership rankings for the month of March, 1967, 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	19.9%	9
Social Work	15	21.0	7
Education	3	17.1	12
Institute of Technology	2	21.6	6
Medicine	4	36.2	3
Nursing	11	15.7	15
Dentistry	7	29.0	4
Dental Hygiene	16	13.5	16
Agriculture, Forestry			
Home Economics	6	16.3	13
University of Minnesota, Duluth	8	16.2	14
Business	5	23.2	5
Pharmacy	12	40.4	1
Law	10	18.5	10
Veterinary Medicine	13	39.8	2
Mortuary Science	14	20.6	8
General College	9	17.2	11

Catherine Buck Heads New Group

Catherine Aitken Buck '58BS, Minneapolis, has been elected president of the newest MAA constituent group, the Occupational and Physical Therapy Alumni Association.

Other officers, elected February 27, are David F. Griggs '54BS, Rochester, vice president; Patricia Hemmelgarn '66BS, Minneapolis, secretary; and Mary K. Cowan '65BS, Minneapolis, treasurer.

Board members, and expiration dates of their terms of office, are James Pohntilla '52BS '66MS, Mrs. Martha Brown '66BA and Janet Flint '50BS, 1968;

Catherine Ann Milota '64BS, Miss Cowan and Miss Hemmelgarn, 1969; Marion Annette Calph '49BS, Mrs. Buck and Griggs, 1970.

Ex officio members of the board are Wilbur L. Moen '49BA '52BS, assistant professor and director of physical therapy, and Marvin G. Lepley '52BS, assistant professor and director of occupational therapy.

Golden Anniversary For Class of 1917 To Be Held May 24

A full day of activities, beginning with morning registration and coffee and ending with a 6:30 P.M. dinner at the Alumni Club, Sheraton-Ritz Hotel, has been mapped out for the Fiftieth Anniversary Reunion of the Class of 1917.

The Golden Anniversary Reunion will begin at 9:30 A.M. Wednesday, May 24, with registration and coffee in Room 320, Coffman Memorial Union. At 11:00 A.M. Class members will review the Cap and Gown Day Parade from reserved seats on the steps of Northrop Memorial Auditorium, and special seats have been reserved for the Cap and Gown Day Convocation at 11:30.

At 1:00 P.M. the Class will be

the luncheon guest of the Minnesota Alumni Association in Room 337 of Coffman, followed by a bus tour of the campuses at 3:00 with only one stop — tea at Eastcliffe, the home of President and Mrs. O. Meredith Wilson.

In the evening, activities will move from the Campus to the Alumni Club. A social hour, dinner and entertainment will begin at 6:30.

Reservations for parking, the luncheon, bus tour, tea and Alumni Club dinner must be made by Wednesday, May 17, at 205 Coffman Memorial Union, University of Minnesota, Minneapolis 55455.

Chairman of the day's activities is Paul W. Frenzel '17LLB and co-chairman is Clara MacKenzie Bierman '17BA.

Ridlington President Of Aitkin Chapter

Kerm Ridlington '51BS has been elected president of the Aitkin, Minnesota, Chapter of the Minnesota Alumni Association.

Other officers for the coming year are Gordon Root '61AMS, vice president, and Mrs. John Soderquist '59BS secretary-treasurer.

Members of the board of directors, in addition to officers, are Milton Knutson '53BSPhm, Fred Hasskamp '35AMS, Dr. Larry Peterson, Jack Hanlon '52BSPhm, Gordon Oberg '58MA, Robert Lehman and Mrs. Esther Warner '31BS, ex officio.

Palmer to Head Redwood Falls

Robert Palmer '47BCE has been elected 1966-67 president of the Redwood Falls, Minnesota, Chapter of the Minnesota Alumni Association.

Serving with Palmer during his term of office will be Ernest Johnson, vice president, and Robert Kleinart '54AA, secretary-treasurer.

Members of the board of directors are Mrs. J. C. Barnes '58ALA, Dr. James Flinn '49MD, Don Orth, Earl Tighe, Edwin A. Larson '46BBA '47AMS and Kerm Nelson '37BSPhm.

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AROUND & ABOUT



Micheels '41PhD



Abrams '41



Olson '54PhD

Graduate School

Alvin S. Eurich '29PhD, president of the Aspen Institute for Humanistic Studies, Aspen, Colorado, and former executive director of the education division of the Ford Foundation, last month gave the dedication address at Centre College's new Grace Doherty Library as a highlight of the annual Alumni Day program. He is a 1966 recipient of the University of Minnesota's Outstanding Achievement Award.

'33

Dr. Herbert Pollack '33PhDMed, a senior research member of the Institute for Defense Analyses, Arlington, Virginia, recently received the Outstanding Civilian Service Medal for his services to the U.S. Army as an adviser to the Chief of Research and Development. A recognized international authority and leader in medicine, he was cited for his "profound advice, penetrating analyses, and sage counsel in the medical sciences, and his rare perception and dedication to medical research to support Army requirements which provided the guidelines for an ever-expanding military medical research program.

'35

John A. Madigan '35MA, associate professor of physics at the College of St. Thomas, has been named by the college's faculty members as "professor of the year." He will be honored at the annual meeting and dinner of the St. Thomas Alumni Association this month.

'41

William J. Micheels '38MA '41PhD, president of Stout State University at Menomonie, Wisconsin, last month gave the keynote address to a group of educators, businessmen and industrialists gathered at Jersey City State College. An internationally-recognized authority in occupational education, he also serves as general consultant to the Center for Occupational Education being established at that school. In 1964 he was selected as "Man of the Year" by the Educational

Exhibitors Association, and in 1965 received the University's Outstanding Achievement Award.

Richard S. Abrams '39BS '41MSChemE has been named president of the newly-formed Materials Systems Division of Union Carbide Corporation. He joined the firm in 1941 at the Tonawanda plant of the Linde Division of the corporation. During his career with the firm he has been identified with various areas of the corporation's business, including silicones, olefins and building materials. From 1964 until his present appointment, he was president of the Food Products Division.

Dr. William M. Hart '41PhD has been appointed professor of surgery and head of the section of ophthalmology at the University of Missouri Medical Center. He formerly had taught at Temple and Georgetown Universities and most recently was director of the Eye Research Foundation of Bethesda, a private institution affiliated with the University of Maryland.

'44

Roy W. Tess '44PhD has become tech-

nical planning supervisor in charge of coatings and polymer applications in the commercial development department of Shell Chemical Company's Industrial Chemicals Division, New York. He formerly was a chemical research supervisor at Shell's Emeryville, California, research center. He was co-winner of the Roon Foundation Award in 1967, presented annually for outstanding basic research in the field of surface coatings.

'51

Hans Lennart Zetterberg '51MA has been appointed to the sociology faculty at The Ohio State University and will become department chairman effective October 1. A member of the Columbia University faculty in 1953-54, since 1965 he has been executive director of the Tri-Centennial Fund of the Bank of Sweden, Stockholm, which was established to develop sociological research.

Bishop James P. Shannon '51MA, auxiliary bishop of the St. Paul-Minneapolis Archdiocese, has been elected president of the Minnesota State Junior College Board, which operates 14 junior colleges.

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Pratt '28BSPHm



McGuire '39BSFor



Netz '66BA

Bishop Shannon, pastor of St. Helena's Church, Minneapolis, was one of the original members of the board, which was established by the 1963 state legislature. He is believed to be the first Catholic prelate to hold such a position in this country. Last year he was appointed to a one-year term as president of the Association of American Colleges. Former president of the College of St. Thomas, he is a 1960 recipient of the University's Outstanding Achievement Award.

'53

Louis R. Lavine '53PhD, manager of advanced programming for the Graphic Systems Division of RCA, Princeton, New Jersey, last month was one of nine panelists who participated in the Spring Joint Computer Conference in Atlantic City, New Jersey. The conference is one of two sponsored annually by the American Federation of Information Processing Societies to encourage exchange of information on advanced developments in computer-related fields.

'54

Robert E. Brown '54MA, superintendent of schools at Eveleth, Minnesota, has been named superintendent of the St. An-

thony School District in suburban Minneapolis. Brown has been superintendent at Eveleth since 1961, where he was a former principal. He also has been a principal in Spring Valley, Howard Lake and Bertha, Minnesota.

William A. Olson '54PhD has been named director, animal health development, for Smith Kline & French Laboratories, Philadelphia pharmaceutical firm. He joined the firm in 1965 as director of pre-clinical investigations in the Infectious Disease Department, a post he held until his recent appointment.

Forestry

John R. McGuire '39BSFor has been appointed deputy chief of the Forest Service in charge of programs and legislation. In his new position, with headquarters in Washington, D.C., he will be responsible for developing and analyzing long range forestry and conservation programs of the U.S. Department of Agriculture's Forest Service. He also will provide Forest Service Liaison with other federal agencies as well as with congressional leaders on matters dealing with forestry and conservation. He has held a number of responsible positions with the Service

and since August 1963 has served as director of the Pacific Southwest Forest and Range Experiment Station, with headquarters in Berkeley, California.

Pharmacy

Harold W. Pratt '28BSPHm, director of professional services for Walgreen Drug Stores, Inc., has been appointed to the Board of Consulting Pharmacists, an advisory group established in 1965 by the Pfizer Laboratories Division, Chas. Pfizer & Company. He began his career with Walgreens in Minneapolis in 1928 as a pharmacist and assistant manager and has held his present position since 1952. In 1962 he was named "Pharmacist of the Year" by the Illinois State Pharmaceutical Association.

UMD

Michael V. Karnis '47BA, Washington, D.C., will be appointed director of International Studies and professor of speech at Louisiana State University, effective June 1. For the past three years he has been chief of the Special Exchange Branch in the Department of State. He also has served as administrator of Department of State cultural centers in Colombia, South America, and as cultural affairs officer in American embassies in Ecuador, Chile and Uruguay.

'55

Neil Waldo '55BA has been promoted to distribution industry manager of the Information Records Division of International Business Machines Corporation, Dayton, Ohio. He joined the firm in 1956 as a sales trainee in Minneapolis. He was promoted to manager of the Bismarck, North Dakota, branch office in 1964 and subsequently to marketing manager of the Twin Cities Manufacturing and Distribution office.

'66

David E. Netz '66BA was commissioned an Army second lieutenant after graduating from the Infantry Officer Candidate School at Ft. Benning, Georgia, last month.

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McDavid '46BME



Donahue '49BME

Institute of Technology

Sidney H. Acker '23BSME '29MSME and Mrs. Acker, the former Jeannette Kirchner '21BA now are living in Sarasota, Florida. Prior to his recent retirement, he was chairman of the department of mechanical engineering at Vanderbilt University. He is a veteran of World War I and II and a retired colonel.

'37

Robert B. Ellis '37BSChem has been promoted to managing director of Minnesota Mining & Manufacturing Company's subsidiary in Caracas, Venezuela.

'42

Robert C. Bertelsen '42ChemE has been promoted to manufacturing manager of Minnesota Mining & Manufacturing Company's Photographic Products division.

William J. Benjamin '42ChemE has been appointed engineering research supervisor in charge of plant design at Shell Development Company's Emeryville, California, research center. He joined the center research staff in 1948 as an engineer.

'46

J. C. McDavid '46BME has been named assistant general superintendent of manufacturing at American Saint Corporation's plate glass plant at Greenland, Tennessee. He started over 20 years ago with the firm's predecessor, Blue Ridge Glass Corporation. He is a member of the American Society of Mechanical Engineers.

'49

Thomas P. Donahue '49BME has been named production planning manager at American Motors Corporation Milwaukee Body Plant. He held various management assignments in manufacturing, industrial and plant engineering and material control with the Ford Motor Company in Detroit from 1953 until he became manager of plant engineering at American

Motors in 1965. Prior to that, he was with the U.S. Gypsum Company at Detroit from 1949 to 1953.

College of Liberal Arts

Nils William Olsson '35BA, U.S. foreign service officer, will become director of the American Swedish Institute in Minneapolis on September 1. He will end his government service June 30 to visit Norway and Sweden in July and August. At present he is visiting professor of history at the University of Indiana under the sponsorship of the State Department. Olsson has served in Norway, Sweden and Iceland and his latest writing on Swedish-American history will be published this spring in Chicago and Stockholm.

'39

Allan J. Walsh '39BA, vice president-public relations of Kerker-Peterson, Inc., Twin Cities advertising and public relations agency, has been accredited by the Public Relations Society of America.

'42

James H. Pearce '42BS has been named director of corporate communications for The Dow Chemical Company, Midland, Michigan. He joined Dow in 1948 and spent a year in technical service and development before moving to the Camden office in 1949 as a chemicals salesman. He was named chemicals supervisor there in 1954 and returned to Midland in 1956 as manager of fabricated products sales in the Plastics Sales Department. He became head of Special Chemicals Sales in 1962 and was appointed sales manager for the Packaging Department when it was formed in 1964.

Richard Fryklund '42BA, military writer for the Washington Star, has been named deputy assistant secretary of defense for public affairs. He joined the Star staff in 1952, was its military writer covering the Pentagon since 1959. He won the Raymond Clapper Award in 1961 for the best Washington correspondence, a citation from the Overseas Press Club in 1958 for coverage of the aftermath of the Polish uprisings, and two



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'47

Norman H. McMillan '47BA has been appointed senior vice president for planning and marketing of N.W. Ayer & Son, Inc. He joined the advertising agency in 1954 as a member of the plans and marketing department. He was appointed supervisor in 1956, group supervisor in 1959, vice president and associate director of the department in 1961 and director of the department in 1965.

'49

William J. Caruson '49BA has been promoted to merchandising manager of related retail products in Minnesota Mining & Manufacturing Company's Retail Tape and Gift Wrap division.

'51

Charles J. Fillmore '51BA, associate professor of linguistics, was one of five Ohio State University faculty members



McMillan '47BA

to receive a \$1,000 Alumni Award for Distinguished Teaching.

Law

Morris Hursh '30BA '30LLB, commissioner of the Minnesota Department of Public Welfare for the past 12 years, recently was named social worker of the year by the Minnesota Chapter of the National Association of Social Workers. Hursh has worked for nine Minnesota governors.

'40

Stephen F. Keating '40BSL '40LLB, president and director of Honeywell, Inc., recently was reappointed to a one-year term as a public adviser to the Midwest Stock Exchange.

'50

Arthur W. Larson '50BSL has been promoted to director of sales-national chain headquarters and military, for The Liberty Cherry & Fruit Company, Covington,



Polzak '58LLB

Kentucky. Larson, who resides in Kenwood, Ohio, will be responsible for all national chain headquarters programs and contacts, along with military and export sales for Liberty.

'58

Austin G. Anderson '58LLB, director of the Department of Continuing Legal Education of the University's General Extension Division, has been appointed executive secretary of the Minnesota State Bar Association. He will continue to direct the University department on a reduced-time basis. Following graduation in 1958, he engaged in general practice at Marble, Minnesota, and in 1962 became director of the Institute of Continuing Legal Education of the Illinois Bar at Springfield, Illinois. He served in that capacity until December 1964, when he joined the University of Minnesota.

James A. Polzak '58LLB has been named marketing manager for new products in The Pillsbury Company's food service division. He has been a commercial research analyst the past two years on food service projects and his research was a major factor enabling the division to introduce 21 new products this year.

Agriculture

William J. Donwen '57BSAgEcon has been promoted to manager, pesticide products, in the Agricultural Division of Allied Chemical Corporation. Donwen, formerly an executive assistant in the division, has been with the corporation since 1957 when he joined the pesticide sales department of Allied Chemical's former General Chemical Division.

Dentistry

Dr. Lyle A. Brecht '39DDDS, past president of the Dental Alumni Association, last month was named 85th president of the Minnesota State Dental Association. He is a past president of the Minneapolis District Dental Society, a former member of the Dental School faculty and a member of the American College of Dentists and the Minnesota Prosthodontic Society.

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DEATHS

Dr. Albert M. Brandt '05MD, Bismarck, North Dakota, died August 27 at age 86.

Ole L. Titrud '07BSAg, Berea, Ohio, died April 5 at age 93 in a Berea hospital. He was one of the first teachers at Berry College and Mount Berry School for Boys, both near Rome, Georgia, where he spent 23 years teaching agriculture. He moved to Berea in 1938 after retiring as a teacher.

N. L. Larson '07BSPHm, Atwater, Minnesota, died October 28 in a Willmar, Minnesota, hospital.

James M. George '10LLB, Winona, Minnesota, died March 31 at age 79. He founded his own law firm in Winona in 1912 and was nationally known because of his activities in Chamber of Commerce, Better Business Bureau and the National Association of Direct Selling organizations. During World War I he served as an Army artillery captain.

William J. McNally '11BA, New Richmond, Wisconsin, died April 2 at his winter home in Scottsdale Arizona. He was an author, playwright, drama critic, overseas correspondent and newspaper editor. He was chairman of the board of WCCO radio and television, Twin Cities, president of the Minnesota Tribune Company and a vice president and director of Doughboy Industries.

Richard Cantillon '17BA, Beverly Hills, California, died March 15 in a Los Angeles hospital at age 69. Cantillon, who studied law at Columbia University and the University of Southern California, maintained law offices in Beverly Hills and represented defendants in some of Southern California's most famous criminal cases during his law practice that began in 1921.

Dr. Arnold Larson '18MD, Detroit Lakes, Minnesota, died January 25. He retired last year after 35 years of general practice in Detroit Lakes.

Dr. Carl G. Swendseen '18MD, Pompano Beach, Florida, died April 9 at age 72. He formerly had been a prominent ear, nose and throat specialist in Minneapolis from shortly after World War I until he retired in 1941. He was a member of the American College of Surgeons, and at one time was chief of staff at Minneapolis' Swedish Hospital. He moved to Florida about 10 years ago.

Edward Holien '23BArch, Santa Fe, New Mexico, died March 24 after a long illness. He was an architecture instructor at North Dakota State University, assistant professor of architecture at the University of Minnesota and design critic for the School of Architecture at New

York University. Early in his career he helped design New York's Rockefeller Center.

Emily R. Kneubuhl '23BSEd, Minneapolis, died March 23. From 1908 to 1917 she had been a principal in Minneapolis elementary schools and was a former director of political education for the Minnesota League of Women Voters and was a member of the Mayor's Advisory Committee for revision of the Minneapolis city charter. She had been active in Democratic party politics and had served as an alternate delegate to national conventions in the 1940's. She also was former executive secretary of the National Federation of Business and Professional Women's Clubs, Inc.

Dr. Jesse P. Nehring '29MD, Preston, Minnesota, died January 25. He was a member of the American Academy of General Practice.

Tom E. Davis '31LLB, Willmar, Minnesota, died March 28 in Fort Myers, Florida, at age 59. He was an attorney in Willmar and a former city attorney.

Dr. Sigwert Wallace Simonson '31MD, Prairie Lake, Wisconsin, died November 4 at age 60. He was for many years a general practitioner in the Gunderson Clinic, LaCrosse, Wisconsin.

Helen J. Walsh '31BSEd, St. Paul, died April 12 at age 73. She was a teacher in the St. Paul public school system for 47 years prior to her retirement in 1963.

Dr. John C. Barton '34MD, Riverside, California, died March 15 at age 59. A member of the California Medical Association and the Riverside County Medical Association, he also belonged to the Psi Upsilon national fraternity and Nu Sigma Nu medical fraternity. In 1933 he became a member of the Honorary Scientific Society and that same year won the Minnesota Academy of Medicine Prize for original research work. He had practiced in Riverside since 1949.

Dr. John P. Bonner '36DDS, St. Paul, died March 26 at age 77. He had practiced dentistry in St. Paul for 49 years before retiring in 1961.

Dr. George R. Crisler '35-'37Gr, Winter Park, Florida, died September 26 at age 64. Dr. Crisler received the BS, PhD and MD degrees from the University of Chicago and taught at the University of Missouri School of Medicine and West Virginia University School of Medicine before becoming a fellow in medicine in the Mayo Graduate School of Medicine in 1935.

Dr. William T. Walsh '38MB, '39MD, Minneapolis, died April 6 at age 56. He practiced medicine in Minneapolis and was chief of staff at St. Barnabas Hos-

pital in 1956. He served as a major and flight surgeon in the Air Force during World War II.

Gordon Bickert '40LLB, Elmsford, New York, died March 17. He practiced law in New York City.

A. Donald Beattie '42BSEd, dean of the school of business and economics at Wisconsin State University, Whitewater, was one of eight educators killed March 23 when their plane crashed into a mountain peak in stormy weather near Da Nang, South Vietnam. The educators were on a U.S. State Department study mission studying high school and higher education problems in Vietnam. They had planned to visit South Vietnam's most prominent university, in the ancient imperial capital of Hue. Their plane went down in bad weather near the South China Sea not far from Da Nang, 380 miles northeast of Saigon.

Dr. A. W. T. Edwards '59-'60Gr, senior lecturer in the School of Physiology of the University of New South Wales, Kensington, Australia, died December 9 at age 39. From 1959-60 he studied at the Mayo Graduate School of Medicine as a research assistant in the cardiovascular research laboratory.

Carl F. Seagren '65BAUMD, 25, from Grand Rapids, Minnesota, was killed March 20 in Del Rio, Texas, when the car in which he and another Air Force officer were riding plunged into a canyon near the Rio Grande River. Seagren, a lieutenant, had completed his pilot training and would have received his pilot's wings March 29.

Thomas E. Shannon '64-'65, U.S. Army second lieutenant, was killed recently while on a combat operation in Vietnam. Shannon, 22, had been shipped to Vietnam last August.

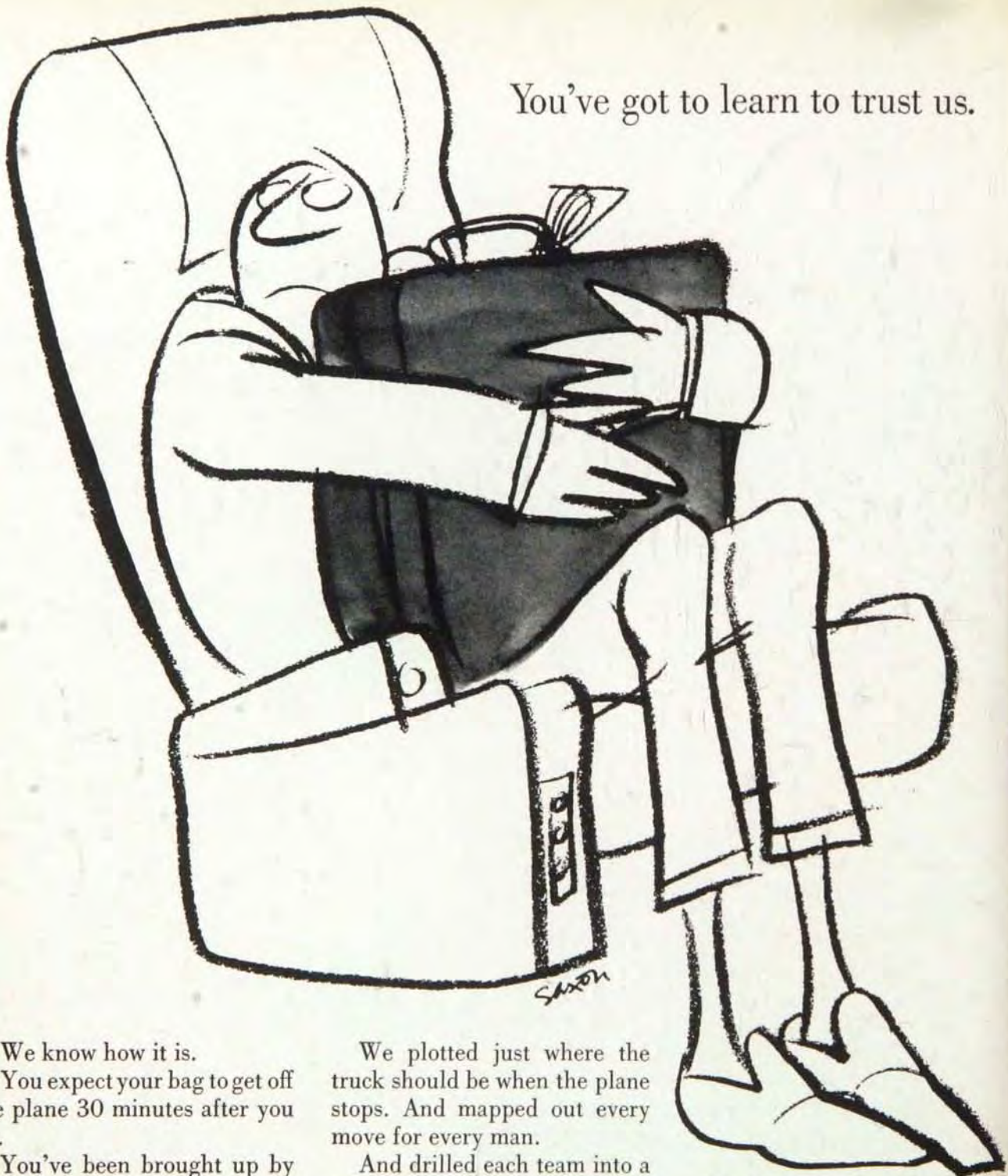
Patrick T. Mercier '65-'66, a U.S. Army Specialist 4, was killed recently in combat action in Vietnam. Mercier, 20, had enlisted in the Army about a year ago.

FACULTY

Mrs. Israel A. Kreiner, Casper, Wyoming, died April 11 at age 69. She was a former faculty member of the School of Social Work. She became a juvenile counselor in Casper in 1959 and retired a year ago. In March she was named Social Worker of the Year by the Wyoming Chapter of the National Association of Social Workers.

Raphael Merrick, 65, an assistant lecturer in the school of chemistry where he had been employed 43 years, died March 29 when a fire swept his Minneapolis home. Mrs. Merrick also was killed.

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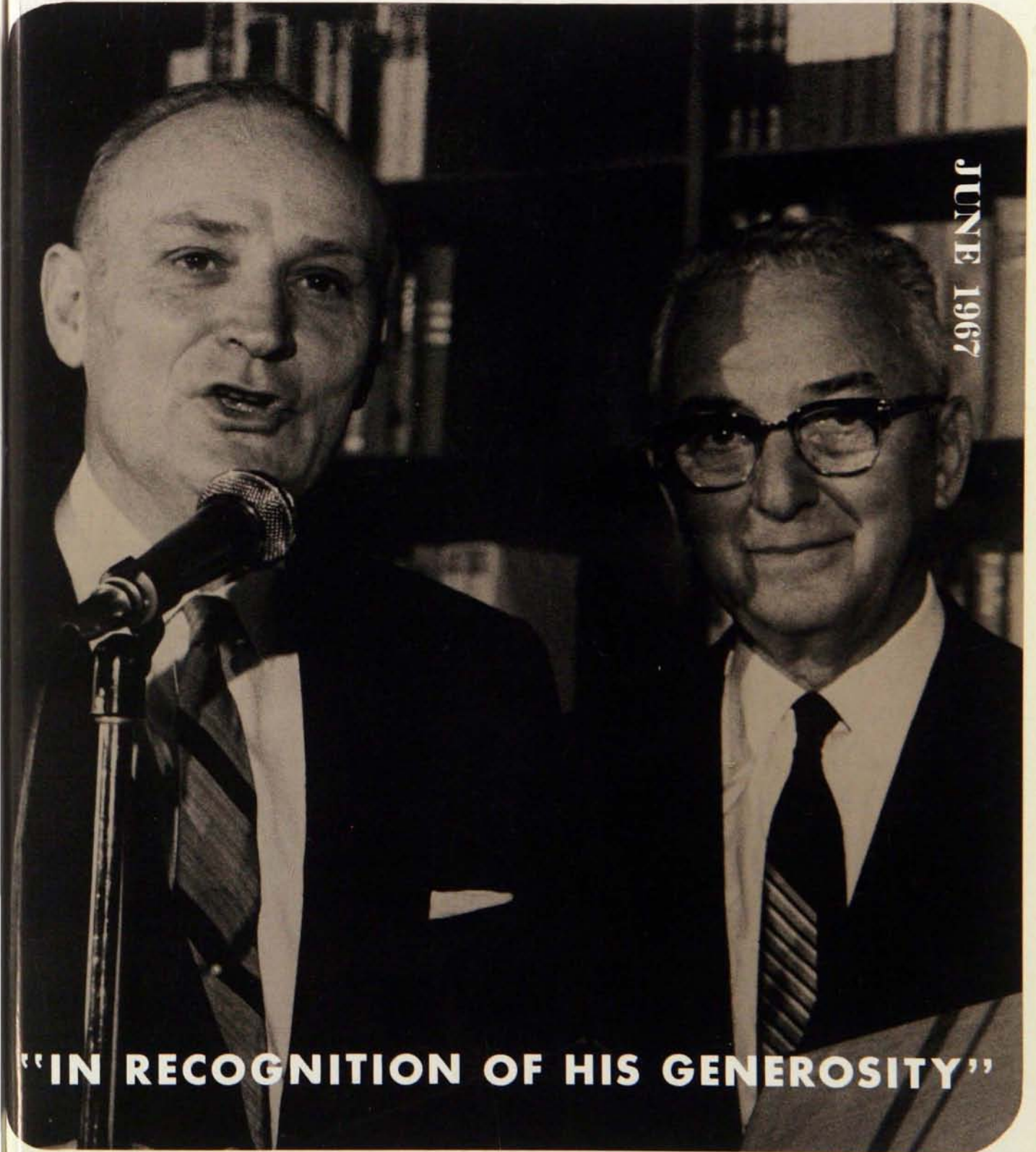
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THE UNIVERSITY OF MINNESOTA

ALUMNI NEWS

JUNE 1967

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Donald W. Schneider, '49 — Mpls.

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Evanston
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James R. Steirly, '66 — Minneapolis
David B. Clarren — Minneapolis

Thomas J. Crosby — St. Paul
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John J. Huss — Minneapolis
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Francis Prinz — Fort Worth
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Raymond W. Schultz — Minneapolis
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THE UNIVERSITY OF MINNESOTA ALUMNI NEWS

(Our 67th Year)

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Joseph H. Davidson '56BA.....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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BACK TALK

Sirs:

I have read with amazement your article entitled "The Education of Ronald Reagan." The article is signed "Alumni News," hence, I expect the Alumni Association takes responsibility for the article.

Sufficient to say that Ronald Reagan is under a mandate from the PEOPLE of the State of California, of which I and my family are one. As an alumnus of the University of Minnesota, of Harvard, and as a citizen of the State of California, I want for my children and for all children the finest education that can be secured, but at reasonable costs.

The people of the State of California were completely fed up with the lack of leadership and with the waste and extravagance of not only the administration of the State, but with the administration of the University. This was expressed by the vote of the PEOPLE overwhelmingly in the last election.

I, for one, sincerely hope and pray that the administration of this nation and all of its subdivisions gets returned to the PEOPLE. I think the ALUMNI NEWS would do well to consider the fact that Ronald Reagan is carrying out the will of the people of the State of California—the ALUMNI NEWS and other vested interests notwithstanding.

R. J. Swenson '29BBA
Pasadena, California

Editor's Note: The article referred to was Copyright 1967, by The Los Angeles Times, and was reprinted with their permission.

Sirs:

Just a note to let you know I certainly appreciated the worth of the article in the May issue of the ALUMNI NEWS concerning Ronald Reagan, governor of California.

Have a daughter in San Francisco who is an art student and certainly she does *not* appreciate Reagan at all.

Margaret Hass '26BSB
Outlook, Montana

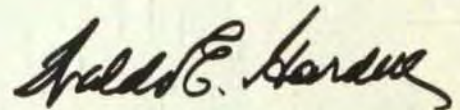
An Open Letter to the Class of '67

Dear New Alumnus . . .

You have earned a fine privilege to have graduated from this University. I urge you to use it well because our congratulations carry with them a pride in what you have accomplished and for that which you anticipate for the future.

Poor Richard's Almanac has a maxim which could nicely be your theme — "Employ thy time well, if thou meanest to gain leisure!"

Best Wishes.



President, Minnesota Alumni Association

Sirs:

The May issue of THE ALUMNI NEWS carries a very interesting article: "The Affluent Alumnus, 1967." But I have one complaint.

You have made a foreigner out of me!

The article states: "The Survey drew replies from 45 states, the District of Columbia and six foreign countries — Austria, Germany, Korea and Puerto Rico, one apiece; Vietnam, two; and Canada, five."

Well, since 1917 everyone born in Puerto Rico is a native-born citizen of the United States. I was born there in 1921.

R. A. Narvaez, Associate Professor, University of Minnesota

Editor's Note: We stand corrected.

Sirs:

I want to thank you for your article, "The Education of Ronald Reagan." Sometimes it is hard to be objective about a problem you live with. Your article expresses my opinion very well.

I am a graduate of the University of Minnesota with a degree in aeronautical engineering. I am especially proud of the University

when an employment interviewer remarks on the high quality of my degree.

I have also been proud of the educational system of my adopted state, California. I base this on my own experiences in the junior colleges and universities in the Los Angeles area and my young son's experience in the Los Angeles School System. I only hope Mr. Reagan can be stopped before real damage is done. I am impressed with most of the young people of the area, and impressed with their approach to education.

I believe a country grows only as its people grow. At present the educational opportunities in California have been a positive benefit to this growth. I do hope it can continue.

Maxine Glaser Scheller
'49BAeroE
Hollywood, California

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ALUMNI NEWS

One of largest private gifts

Phillips Gives \$1.5 Million For Medical Research

The University of Minnesota last month accepted a gift of \$1.5 million from Jay Phillips, Minneapolis businessman and philanthropist, one of the largest private gifts in Minnesota philanthropy.

The funds are for a medical research building, to be called the Jay Phillips-Owen H. Wangensteen Research Center. Dr. Wangensteen, world-renowned surgeon who retires this month after 37 years as head of the department of surgery in the University's College of Medical Sciences, is a long-time friend of Phillips.

The gift was presented by Phillips in a brief ceremony at the monthly meeting of the Board of Regents, held in the Arthur Upson Room of Walter Library. The Regents then gave Phillips a citation of appreciation "in recognition of his generosity to the University and of his concern for the needs of medical research.

Attending for the occasion were several board members and officers of the University of Minnesota Foundation—of which Phillips is secretary — including Carlyle E. Anderson '32BBA, Evanston, Illinois, chairman of the board, and Arnulf Ueland '17BA, Minneapolis, Foundation president.

The Foundation, formed in 1962, seeks private funds for important needs of the University for which state tax money generally is not available.

The Jay Phillips-Owen H. Wangensteen Research Center will house research laboratories and other facilities to serve departments within the College of Medical Sciences, including the departments of medicine, pediatrics, obstetrics and gynecology, otolaryngology, ophthalmology and radiology. The research will be closely related to the clinical care and treatment of patients. The Center also will include a laboratory for Dr. Wangensteen.

Because the new Center is for

medical research, it will be eligible for matching funds from the U.S. Public Health Service, and thus will be approximately a \$3 million building. It will be an integral part of the University's plans for long-range expansion in the health sciences, for which planning funds were requested from the State Legislature. Its proposed location is next to the Diehl Hall laboratories and Bio-Medical Library.

University President O. Meredith Wilson said, speaking of Phillips, "He is a warm, generous spirit who, even when his own strength was impaired, gave liberally of

COVER PICTURE: Jay Phillips (right), Minneapolis businessman, is shown receiving the Regents' Citation from President Wilson "in recognition of his generosity to the University and of his concern for the needs of medical research."

himself, of his time and energy to make sure that the University of Minnesota Foundation was well launched . . . The spirit of his gift even exceeds its material value. Jay Phillips, Rose Phillips and their family have a special place of honor at the University . . ."

Dr. Robert B. Howard, dean of the College of Medical Sciences, stated, "My immense gratitude to Mr. Phillips is shared by the entire faculty. His gift is an excellent example of how private funds can help develop the necessary physical facilities at the University, and also demonstrates that a faculty of high quality, such as the one we have here, is able to attract the private financial support we need so vitally. The new Research Center will certainly ease some of the extreme crowding we are presently suffering."

Anderson commented, "That dramatic benefits to man's physical life

will flow from Jay's gift is obvious. Possibly not so obvious is the stimulus it will provide those of us who are considering what philanthropic responsibilities we should meet to nurture the University and all that she does."

Phillips is chairman of the board of Ed Phillips and Sons Company, largest independent wholesale distributor of distilled spirits, a company which was founded by his father in 1912 as a newspaper, candy and tobacco agency in their home town of Manitowoc, Wisconsin. His son, Morton B. Phillips, is president.

Education and medicine are two of Phillips' major interests, and he selected the University for his most recent gift both because of its excellent accomplishments in these areas and because its influence is so far-reaching in the state, the nation and the world.

"The University does a fantastic job in training and teaching doctors," he has said. "I believe it has one of the best medical schools in the country."

Phillips likes to refer to his contributions as "seed money" because he hopes the gifts he makes will raise the interest of others to give also.

"I am sure there are many people who would like to contribute to the University's many programs," he says. "It's just a question of attracting their interest and finding the right project for the right person."

Mr. Phillips is a "doer" as well as a "giver." He has actively participated in the development of Mt. Sinai Hospital, Minneapolis, instigating its founding in 1951, contributing heavily to its financial support, and serving as its permanent president. The National Society for Crippled Children and Adults, Inc., of which he is a trustee and former vice president, also has benefited greatly both from his

(Continued on page 31)

MEMO

From
ED HAISLET
Executive Director

TO: Association Members
SUBJECT: The College Tax Credit Plan

With the cost of going to college continually rising, there is real apprehension on the part of many that financial means is more and more becoming the yardstick for determining eligibility for educational opportunity.

Recently published by the American Council on Education is a study of the freshman class of 1966. It shows that students attending public institutions generally come from families with lower income levels than students at private institutions, and are more dependent on work and personal savings to finance their freshman year. The study supports the conclusion that students at public institutions are less able than students at private institutions to keep up with the mounting costs of obtaining a higher education.

Nationally, more than 40 percent of all families have incomes of \$5999 or less, but only 19.5 percent of college freshmen come from families in this income range. Nationally, less than eight percent of all families have incomes of \$15,000 or more but 21.1 percent of college freshman come from families with incomes this high.

In each of the last three sessions of our Congress a bill has been introduced which would reduce the federal income tax for those who are paying expenses for college students. The so-called Ribicoff Bill was defeated in the 88th Congress by a Senate vote of 48-45; again in the 89th Congress by a 47-37 vote, but April 14 of this year the Senate passed the bill 53-26.

It is time now that alumni, students and parents become informed on the college tax-credit proposal now before Congress because as one alumnus wrote to me, "why shouldn't a hard pressed taxpayer with several kids in college get some kind of a tax break?"

The Ribicoff plan proposes that anyone who pays money to a college for tuition, fees, and books can subtract up to \$325 from his Federal Income Tax. It includes parents, students or anyone who helps pay. It should be noted that the tax credit is not limited to the taxpayer's own children or dependents. In order to receive a \$325 tax credit, however, payment would have to total at least \$1500 not including room and board.

The plan works like this: for the first \$200 paid for tuition, fees, books and supplies you would receive a 75% tax credit or \$150; on the next \$300 paid, a 25% tax credit or another \$75.00, on the next \$1000 paid, a 10% tax credit or another \$100, a total and maximum credit of \$325.00.

It is obvious that the "tax credits offer the most help to those who need it the least, while giving the least help or none at all, to those who need it the most." Although percentage benefits are higher for low income families, dollar benefits are clearly higher as income rises up to \$25,000, while benefits to those with lower incomes steadily decrease to the vanishing point. For example, the relatively high income family, paying tuition of \$1500 or more a year could deduct as much as \$325 from their tax bill, whereas the low income families paying little or no federal taxes would receive no benefits under the plan.

Actually the poorer families would find it more difficult to meet consequential higher college expenses. Why? Proponents of the bill have made it clear that its essential purpose is to give tax support to educational institutions proportional, at least to some extent, to free charged students. Since fees would have to be raised to provide the additional income desired, the benefit would be to the college, not the taxpayer. To the extent that fees are raised, students from low-income families would find their educational costs increased rather than decreased. Institutions with low tuition charges

would be placed under pressure to increase them in order to collect Federal Aid in this manner.

Senator Eugene J. McCarthy, '39MA, speaking to this point says, "Advocates say to the educators that it will provide \$1 billion for education. They say to the parents and others that they will gain \$1 billion in tax reduction. If the people who are paying the bill get their tax reduction, then the educators will not get the money. If the educators raise their tuition cost, then the people who are paying the tuition will not get the benefit. We cannot have it both ways."

The bill actually short-changes the taxpayer of the States which are giving the most support to their state colleges and universities through low tuition charges. Because they are already paying higher taxes to support higher education in their state schools, taxpayers would receive smaller tax credits.

Also the tax-credit plan seems to by-pass the constitutional provision against using public funds for discriminatory purposes. By raising tuition, all colleges and universities — whether they adhered to nondiscriminatory policies or not — could receive the indirect government assistance that tax-credits would provide. For instance, it would be available to parents in southern states who removed their children from integrated public schools and placed them into segregated private schools.

The United States Treasury Department points out that it would cost 1.5 billion dollars to finance the Ribicoff plan. Because the cost of the tax credit plan is so great many top educators and educational associations greatly fear an erosion of the direct support now given to colleges and universities for scholarships, student loans, research grants, new facilities, etc.

Institutions of higher education must keep down their charges to students and parents by increased support through both private and public channels. "If student charges are permitted to continue to rise more rapidly than the level of income — which they have done steadily in recent years — more and more students will need special aid and more and more programs must be devised to assist them, unless educational opportunity is to be denied."

The Ribicoff Bill is opposed by many of the major educational associations of the country, including the National Association of State Universities and Land Grant Colleges and the Association of State Colleges and Universities. "The Associations take the position that, to the extent Congress finds it in the National interest to provide either general or specific-purpose support from public funds for institutions of higher education, ways can and should be found for doing this which retain the principle of public accountability for the expenditure of public funds, which are fiscally and educationally sound, and which do not in their operation discriminate against large groups of students and institutions. The tax credit approach does not meet these standards."

The Ribicoff bill probably will not pass Congress this year, but it will be back next year with renewed force. The college tax credit idea appeals to many who do not understand what is involved. It must be defeated, this session and next — write your congressman and Senator to state your opposition — do it today — and be on the lookout for the bill at the next session of Congress.

Sincerely,

Ed Havel



Books are not absolutely dead things, but do contain a potency of life in them to be as active as that soul was whose progeny they are; nay they do preserve as in a vial the purest efficacy and extraction of that living intellect that bred them. John Milton

Once again it is time to turn our thoughts – and this particular issue of the ALUMNI NEWS – to the role of Continuing Education.

There seems to be no disagreement that the institution and/or the Alumni Association has a continuing responsibility for the intellectual development of alumni.

Indeed, in the lifetime of the alumnus, continuing education is a vital and necessary activity. Continuing Education programs are for alumni the key to what is now known and what once was taught.

The once clear-cut differentiation between student and alumnus is rapidly becoming blurred as both institutions and alumni recognize that the pursuit of learning is a life-long process. The search for truth cannot stop with the acquisition of a degree for truth, like the horizon, keeps moving as one approaches it. The ever-increasing number of scholars in any one

A further advantage of Continuing Education is the opportunity to explore fields of study that were missed the first time around. The truly curious and imaginative student is often frustrated because the requirements of most professional and technical curricula mitigate against branching off into areas not directly pertinent to the vocational goal. The many resources of the University can only be sampled by any one student in the time allotted to obtaining a degree.

Opportunities and facilities for the education of adults at every level and for a variety of purposes have been expanding rapidly in recent years, and no one foresees any curtailment in the demand for such resources.

However, the growing “continuing education” movement, in which the University of Minnesota has been a leader, goes beyond *adult* education to emphasize a whole new educational pattern. If education is to be

CONTINUING EDUCATION

field of study, plus more refined and sophisticated methods of inquiry, have contributed to an “explosion of knowledge” that challenges the imagination. If we accept the assumption that “men are ennobled by understanding, then we must also accept the challenge of keeping abreast of new developments.

Graduates with advanced or professional degrees tend to keep current with their areas of interest through professional journals and meetings. However, the liberal arts graduate often does not have these opportunities. By providing an overview of “what’s new” in various areas – and even, indeed, what *areas* are new to the liberal arts – augmented by a reading list which provides the opportunity for additional guided study, many of the departments of the College of Liberal Arts are cooperating to provide alumni with a contact with the very *heart* of the University, *what it teaches*.

The impact of these new developments may vary with the length of time a person is away from the Campus. However, even the most recent graduate should welcome the overview of a particular field. Using the reading lists as they are provided each year will maintain intellectual erudition without the decrement too often accepted as a necessary concomitant to life in the “real” world.

of pervasive significance in all aspects of one’s life, then it must demonstrate its relevance to the younger students.

The young man must look not only to a vocation and possible military service, but beyond to the responsibilities of being the head of a family and an active citizen in a changing community. He can reasonably expect to change vocations one or more times, or else find that his chosen vocation demands several adaptations, both in his training and in his abilities.

A young woman can properly expect to assume many roles in her lifetime: student, wife, mother, citizen, and increasingly, career woman. The discontinuities in most women’s careers make their problems of vocational training even greater than the average man’s.

Continuing Education recognizes that a life pattern is made up of a multitude of interests, needs and responsibilities, and stresses the need to *plan ahead*. It also emphasizes the importance of keeping in touch with advances in substantive information, as well as continuing the development of one’s capacity to assess facts and reach logical conclusions. It acknowledges that adults *can* and *do* find learning an exciting process.

ART HISTORY

The growing awareness of art and the expanding conception of what constitutes a work of art are reflected in the curriculum and staff of the Department of Art History.

The curriculum has been expanded to include courses on Scandinavian, Classical and Oriental art, at both the survey and seminar levels, and during the next school year (but unfortunately, for that year only), a full program of Islamic art will be presented by a visiting scholar from Turkey. Courses in the decorative arts are now in preparation, and that there is a need for them is evident from the lively response to the series of six lectures on American antiques, organized for the Extension Division by the Department of Art History.

An increasing number of "mature" students are enrolling in courses in Art History, but for those who are unable to attend on a regular basis, the opportunities for continuing education are almost equally numerous.

Through the General Extension Division, courses are offered evenings which closely parallel the day-school curriculum. For women who want to sharpen their art acumen, a special seminar on "Art and Perception" is presented by Professor Donald Torbert, with the assistance of lectures from Art History and allied areas, for the Continuing Education for Women program. Members of the Department also participate in Neighborhood Seminars.

During the past year the Department of Art History also has sponsored or supported a number of public lectures on a wide variety of subjects: Professor Bates Lowry of Brown University on "The Palace at Versailles," Helen Lowenthal of the Victoria and Albert Museum on "Chinoiserie in England," Rev. Harry Vanderstappen of the University of Chicago on "Chinese Painting, Tradition and Imitation," and Professor Edward Maser of the University of Chicago on "The Final Flowering of German and Austrian Art of the 18th Century."

Gombrich, E. H., *Norm and Form*. London: Phaidon Press. 1966.

Holt, Elizabeth, *Literary Sources of Art History*. Princeton University Press.

Holt, Elizabeth, *From the Classicists to the Impressionists*. Garden City: Doubleday Anchor. 1966.

Herbert, Robert, *Modern Artists on Art*. Englewood Cliffs, New Jersey: Prentice-Hall Spectrum. 1964.

Janson, H. W., *The History of Art*. Englewood Cliffs: Prentice-Hall. 1963.

Lowry, Bates, *The Visual Experience*. Englewood Cliffs: Prentice-Hall. 1964.

Panofsky, Erwin, *Meaning in the Visual Arts*. Garden City: Anchor Books. 1955.

The following series:

Art, Ideas, History. Broad cultural coverage and excellent illustrations. Ex., Eugenie de Keyser. *The Romantic West, 1789-1850*. Geneva: Skira. 1965.

The Pelican History of Art. Specialized studies of art according to period. Ex., Rudolf Wittkower. *Art and Architecture in Italy, 1600 to 1750*. Baltimore, Maryland: Penguin Books. 1958.

BIOLOGY

One of the first undertakings of the College of Biological Sciences when it began its operations in the fall of 1965 was to design a unified undergraduate Biology major. The major is available both to students in the College of Biological Sciences and to students in the College of Liberal Arts.

The new major reflects the profound revolution which has swept through the biological sciences in the last two decades. It is designed both to prepare students for graduate work in any of the biological disciplines, and to provide a broad background in biology for students who do not expect to continue their formal education beyond the bachelor's degree.

Since most of the central concepts of biology apply universally to all living things, it replaces several more specialized majors, including botany and zoology. In as much as organisms are made of molecules which follow the rules of physics and chemistry, the new major demands a background in mathematics and the physical sciences. If a student is to gain a well-rounded background, he will have little or no time to specialize in any one aspect of biology as an undergraduate. The major thus consists of a core of required biology courses which build on the student's background of mathematics, chemistry and physics.

Biology majors complete the third quarter of analytical geometry and calculus (Math 44), a year of general chemistry, two quarters of organic chemistry and a year of physics. They may begin their biology courses either by taking General Biology (10 credits) or, preferably, Principles of Biology (3 credits). They continue by taking a quarter each of Animal Biology, Plant Biology, Microbiology and Biochemistry.

These courses serve as prerequisites for Genetics and Ecology.

Students complete the core program and the CLA major with Field Biology, General Physiology and Developmental Biology.

As students move through the above core courses,

more and more physical science courses are needed as prerequisites. Hopefully, upon completion of the core, they are ready to specialize in any area of biology, and have gained an appreciation of the discipline as a whole.

One of the best ways to "catch up" with current trends in biology is to read an introductory text. Several of the better texts are listed below.

INTRODUCTORY TEXTS

- MacArthur, Robert H., and Connell, Joseph H., *The Biology of Populations*. New York: John Wiley & Sons, Inc. 1966.
- Moore, John A., *Heredity and Development*. New York: Oxford University Press. 1963.
- Nason, Alvin, *Textbook of Modern Biology*. New York: John Wiley & Sons, Inc. 1965.
- Simpson, George G., and Beck, William S., *Life - An Introduction to Biology*. New York: Harcourt, Brace & World, Inc. 1965.
- Stern, Herbert, and Nanney, David L., *The Biology of Cells*. New York: John Wiley & Sons, Inc. 1965.
- Telfer, William, and Kennedy, Donald, *The Biology of Organisms*. New York: John Wiley & Sons, Inc. 1965.
- Weiss, Paul B., *The Science of Biology*. 2nd edition. New York: McGraw-Hill Book Company, Inc., 1959.

OTHER READINGS

- Allen, John M., *The Nature of Biological Diversity*. New York: McGraw-Hill Book Company, Inc. 1963.
- Asimov, Isaac, *The Genetic Code*. New York: The New American Library-Signet Science Library Book. 1963.
- Bell, Eugene, *Molecular and Cellular Aspects of Development*. New York: Harper and Row. 1965.
- Cairns, John, Stent, Gunther S., and Watson, James D., *Phage and The Origins of Molecular Biology*. Cold Spring Harbor, Long Island, New York: Cold Spring Laboratory of Quantitative Biology. 1966.
- Cheldelin, Vernon H., and Newburgh, R. W., *The Chemistry of Some Life Processes*. New York: Reinhold Publishing Company. 1964.
- Christensen, Clyde M., *The Molds and Man*. Minneapolis: University of Minnesota Press. 1961.
- Fogg, G. E., *The Growth of Plants*. Baltimore: Penguin Books, Inc. 1963.
- Grobstein, Clifford, *The Strategy of Life*. San Francisco: W. H. Freeman and Company. 1965.
- Jensen, William A., and Kavaljian, Leroy G., *Plant Biology Today*. Belmont, California: Wadsworth Publishing Company, Inc. 1963.
- Johnson, Willis H., and Steere, William C., *This Is Life*. New York: Essays in Modern Biology, Holt, Rinehart and Winston. 1962.
- Kennedy, Donald (ed.), *From Cell to Organism*. Readings from "Scientific American," W. H. Freeman Co. 1967.
- Lwoff, Andre, *Biological Order*. Cambridge, Massachusetts: Massachusetts Institute of Technology. 1962.
- Merrell, David J., *Evolution and Genetics*. New York:

Holt, Rinehart and Winston, 1962.

- Moore, John A., *Ideas in Modern Biology*. Garden City, New York: The Natural History Press. 1965.
- Reed, Sheldon C., *Parenthood and Heredity*. New York: John Wiley & Sons, Inc. Science Editions. 1964.
- Spratt, Nelson T. Jr., *Introduction to Cell Differentiation*. New York: Reinhold Publishing Corp. 1964.
- Stanier, Roger Y., Doudoroff, Michael, and Adelberg, Edward A., *The Microbial World*. 2nd edition. Englewood Cliffs, New Jersey: Prentice-Hall, Inc. 1963.
- Stebbins, G. Ledyard, *Processes of Organic Evolution*. Englewood Cliffs, New Jersey: Prentice-Hall, Inc. 1966.
- Watson, James D., *Molecular Biology of the Gene*. New York: W. A. Benjamin, Inc. 1965.

BIOMETRY

Biometry is a new interdisciplinary field in the biological and medical sciences. It interrelates mathematics, computer science and statistics in the study of quantitative concepts and research procedures of the biological sciences.

Developments both in biology and in each of these fields have contributed to the establishment of biometry. The recent and elaborate instrumentation of the biologist's laboratory has produced large quantities of data on biologic phenomena resulting in the need for methods and techniques for analyzing them.

The theoretical bases for these techniques of analyses are established by mathematical statistics, a comparatively new discipline. In addition, for problems involving extensive computation, the recent and widespread establishment of computers in medical centers has made available virtually unlimited technical means for their solution.

Biomathematics is that aspect of biometry concerned with the development of formal probability and mathematical models for various biologic phenomena. The mathematical physicist has constructed models for phenomena in the physical sciences for well over one hundred years. Only relatively recently have mathematical theories appeared in biology.

One of the first examples is the formulation of a mathematical theory for the circulatory system, with a pump in an elastic reservoir having peripheral resistance. Another early example is the development of the theory of interaction of species in terms of mathematical models of the process of competition for food.

With recent findings in the biological sciences at the

micro-unit level of phenomena, mathematical theories for the transport of ions through membranes, probability models for cell division, growth of cell populations, cell differentiation and the development of form or pattern in the adult species have appeared. Other models attempt to describe the behavior of the peripheral and central nervous systems, pharmacological action of drugs, and the metabolism of particular substances, such as glucose, iodine and calcium. Still others attempt to express pulmonary function and the theories of learning and vision in terms of mathematical and probability models.

Biomedical computing is that area of biometry concerned with data processing. In addition to usual data analysis, it includes storage, retrieval and transmission of information. These four aspects are combined in many on-line activities of data processing.

In these projects, discrete and continuous signals from biologic systems are received, immediately analyzed and returned to the biologist or physician for the monitoring of the processes.

An example that is currently being developed at the University is the monitoring of a patient in the operating room.

The patient's heart rate, systolic and diastolic blood pressures and electrocardiogram and other variables will be continuously measured, transmitted to the computer, analyzed and reported to the operating room team.

Another project is the development of a large hospital data system on tape, and its updating as new patient-information becomes available.

The computer is frequently used to model or simulate physiologic systems. Variations in the conditions of the system can easily be evaluated by making the appropriate changes in the computer and noting the effect on the solution as given by the computer. If the computer is a good simulation to the process, only those conditions yielding desirable solutions may be checked by experimentation on the actual physiological process.

Biostatistics is that area of biometry concerned with the collection, classification and scientific evaluation of data in the life sciences. The central problem in biostatistics is inference from incomplete information.

During the past fifty years, a large body of mathematical theory for inference has been developed to provide a logical basis for drawing scientific conclusions when less than complete certainty is possible. With the application of this theory, accurate predictions concerning the efficacy of a treatment can be made after treating only a small number of patients.

Similarly, using statistical techniques, a heart specialist can determine which symptoms and laboratory tests are critical in diagnosing the nature of heart defects. Statistical theory may also be used to estimate the parameters of the probability and mathematical models for biologic phenomenon, and to test hypotheses concerning the validity of the model when data are available.

These are three areas now emphasized in the curriculum offerings of the undergraduate program in Biometry at the University. With the renaming of the major (formerly Biostatistics), and the broadening of course offerings, the Biometry degree provides strong preparation for the undergraduate who is interested in both mathematics and biology, and wants to combine these interests for a broad education in the life sciences.

GENERAL BOOKS

- Cox, D. R., *Planning of Experiments*. Wiley. 1958.
Huff, D., *How to Lie With Statistics*. Norton. 1954.
Moroney, M. J., *Facts from Figures*. Penguin. 1956.
Stacy, R. W., and Waxman, B., *Computers in Biomedical Research*. 2 Vols. Academic Press. 1965.
Wallis, W. A., and Roberts, H. V., *Statistics: A New Approach*. The Free Press. 1956.
Waterman, T. H., and Morowitz, H. J. (eds.), *Theoretical and Mathematical Biology*. Blaisdell. 1964.

TECHNICAL BOOKS

- Bailey, N. T. J., *The Elements of Stochastic Processes With Applications to the Natural Sciences*. Wiley. 1964.
Brownlee, K. A., *Statistical Theory and Methodology in Science and Engineering*. 2nd edition. Wiley. 1965.
Cochran, W. G., and Cox, G. M., *Experimental Designs*. 2nd edition. Wiley. 1957.
Fisz, M., *Probability Theory and Mathematical Statistics*. 3rd edition. Wiley. 1963.
Graybill, F. A., *An Introduction to Linear Statistical Models*. Vol. 1. McGraw-Hill. 1961.
Institute of Electrical and Electronic Engineers, Annual Conference on Engineering in Medicine and Biology. Vol. 8. 1966.
Lotka, A. J., *Elements of Mathematical Biology*. Dover. 1957.
Rashevsky, N., *Some Medical Aspects of Mathematical Biology*. C. C. Thomas. 1964.
Society for Experimental Biology, Models and Analogues in Biology. Academic Press. 1960.
Stein, M. L., and Munro, W. D., *FORTTRAN Introduction to Programming and Computers*. Academic Press. 1966.
Wilks, S. S., *Mathematical Statistics*. 2nd edition. Wiley. 1962.

CHILD PSYCHOLOGY

The psychological development and behavior of the child is receiving more attention than ever

before. The number of students pursuing graduate degrees, and the volume of research being undertaken, indicate that child psychology is in the midst of the most rapid growth period in its history.

Whether the training and research is centered in departments of psychology or, as at the University of Minnesota, in separate departments of Child Psychology, the search for new knowledge is characterized by its increasing reliance on experimentation, as opposed to observational techniques.

The information about children's behavior found in practical writings on child development (Spock, for example) is based largely on the work of Gesell and others who took as their task the description of changes in children's behavior with age. Age does not cause behavior, or changes in behavior. The experimental work of the sixties is focussed on causes, on the processes underlying change, rather than change-with-age itself.

Three areas of research are particularly illustrative of this emphasis: cognitive development, infancy, and social learning. Each is the focus of investigation in many research centers, including the University's Institute of Child Development.

The theory of cognitive development propounded by Jean Piaget, the Swiss psychologist, has been a fruitful source of inspiration for research. Considerable attention is being devoted to the role of visual stimulation in the perceptual, cognitive, and social development of the infant.

It now seems likely, for example, that the psychological deficits characteristic of institutionalized children stem from the relative absence of changes in visual and other forms of stimulation during periods in infancy when such sensory inputs are necessary for normal development. Likewise, it now appears probable that the mother's provision of stimulation in infancy plays a significant role in the development of the infant's attachment to the mother.

Studies of social development in childhood have focussed recently on the process of imitation and the conditions under which exposure to models strengthens certain behaviors in the child, e.g., aggression, altruism. Exposure to models, be they parents or peers, can strengthen or suppress many forms of social behavior. It is hoped that from such basic research on the development of normal infants and children can come answers for those who must deal with many pressing social problems involving children, including frustrated and questioning parents.

Baldwin, A., *Theories of Child Development*. Wiley, 1966.

Bandura, A., and Walters, R. H., *Social Learning and Personality*. Holt, Rinehart and Winston, 1964.

Decarie, Teresa G., *Intelligence and Affectivity in Early Childhood*. International Universities Press, 1965.

Flavell, J., *The Developmental Psychology of Jean*

Piaget. Van Nostrand, 1963.

Foss, B. M. (ed.), *Determinants of Infant Behavior*. Wiley. Vol. I (1961), Vol. II (1963), Vol. III (1965).

Hoffman, M. L., and Hoffman, L. W. (eds.), *Review of Child Development Research*. Russell Sage Foundation. Vol. I (1964), Vol. II (1966).

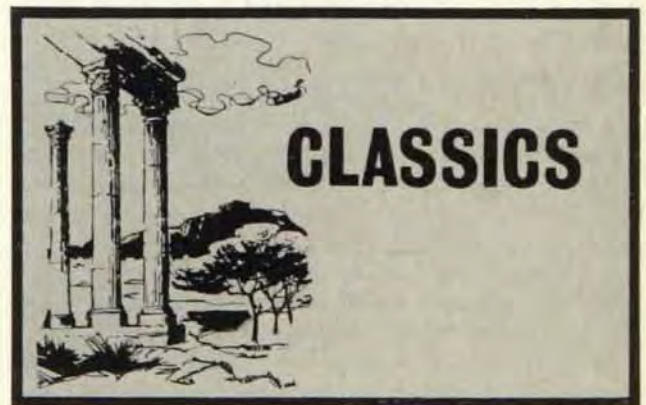
Kagan, J., and Moss, H., *Birth to Maturity*. Wiley, 1962.

Lipsitt, L. P., and Spiker, C. C. (eds.), *Advances in Child Behavior and Development*. Academic Press. Vol. I (1963), Vol. II (1965).

Schaffer, R., and Emerson, P. "The development of social attachments in infancy. *Monographs of the Society for Research in Child Development*. Vol 29, No. 3, 1964.

Stevenson, H. W., Hess, E. H., and Rheingold, H. L. (eds.), *Early Behavior*. Wiley, 1967.

Wallach, M. A., and Kogan, N., *Modes of Thinking in Young Children*. Holt, Rinehart and Winston, 1965.



In 1967-68 the Classics Department will add course work in a new area of ancient studies. Dr. Tom Kraabel ThD will come to us from the Harvard Divinity School to strengthen the scholarly aspect of the University's program in religious studies. He will offer new courses in ancient and Hellenistic religions, as well as the history of Christianity.

Kraabel's training and experience will serve him well in this position. He has been a Lutheran pastor in Minneapolis, an archeologist and synagogue specialist on an archeological expedition to the Near East; he has studied at Luther College (Iowa), the University of Iowa, Luther Seminary (St. Paul) and Harvard Divinity School.

Another equally important area of increased activity will be in the study of the classical languages themselves. Additional sections, some of them for Honors students, are planned for both Greek and Latin courses.

Beginning and intermediate Latin courses will be introduced in evening classes of the General Extension Division for the first time in 1967-68. These two year-long course sequences will be offered by the Classics Department on the St. Paul Campus.

The increased interest in the classical languages themselves derives from the increased awareness of the importance of contacting the ancients *directly*, rather than depending on translation alone.

ANCIENT RELIGIONS

Barrett, C. K. (ed.), *New Testament Background: Selected Documents*. London: S.P.C.K. 1956.

Carpenter, H. J., *Popular Christianity and the Early Theologians*.

Cross, F. M., *The Ancient Library of Qumran and Modern Biblical Studies*. New York: Liberal Press. 1953.

Deissman, Adolf, *Paul: A Study in Social and Religious History*. New York: Harper. 1957.

Dibelius, Martin, *Jesus*. Philadelphia: Westminster Press. 1949.

Freund, W. H. C., *The Early Church*. Philadelphia: Lippincott. 1966.

Fuller, R. H., *The New Testament in Current Study*.

Grant, F. C., *Hellenistic Religions*. New York: Liberal Press. 1953.

Jones, A. H. M., *Constantine and the Conversion of Rome*. London: Hodder & Stoughton. 1948.

Nilsson, M. P., *Greek Piety*. Oxford: Clarendon Press. 1948.

Nock, A. D., *Conversion*.

Nock, A. D., *Conversion: The Old and the New in Religion from Alexander The Great to Augustine Of Hippo*. Oxford: Clarendon Press. 1933.

Nock, A. D., *Early Gentile Christianity and Its Hellenistic Background*.

Stevenson, James, *A New Eusebius*. New York: Macmillan. 1957.

Wallace, A. F. C., *Revitalization Movements*.

LATIN

Parker, W. R., *The Case for Latin*. Published jointly in "Proceedings of The Modern Language Association of America," September 1964, and in "Classical Journal," October 1964.

GREEK

Finley, M. I., *The Ancient Greeks*. New York: Viking Press. 1967.

Freshman English requirement — it does not figure directly in continuing education. All who communicate have a continuing interest in it, however, which is currently both served and stimulated by the rapid growth taking place in the fields of knowledge which are foundational to the arts of communication.

Research and publication take place as usual in the more traditional studies, such as stylistics, logic, rhetoric and linguistics, but in addition, there are studies proceeding in places which formerly were foreign and remote from the point of view of teachers of composition and speech.

For example, new methods of analyzing and teaching the structure of discourse on paragraph-to-essay scale are under investigation in the Center for Research in Language & Language Behavior at the University of Michigan. Psycholinguists and language-and-literature people are working together on matters of language learning and the determination of language proficiency in the Center for Research in Human Learning at Minnesota.

Specifically related to the teaching of composition and communication, where exposures of pedagogical shortcomings have been recurrent, there is now a constructive undertaking: *Research in the Teaching of English*, a twice-yearly publication just begun by the National Council of Teachers of English. It has been founded in hope of supplying the shortage of empirically tested methods and reducing the excessive diversity of theory which may be seen in courses over the country.

By way of anticipation, an event of considerable interest to teachers in the Upper Midwest is scheduled for next spring. The Conference on College Composition and Communications, an offshoot of the NCTE which is devoted to the arts of discourse, will hold its annual meeting in Minneapolis.

Following is a sampling of recent publications — some written as textbooks, but all works of general interest. They are grouped according to their bearing on the successive concerns of the course; first, the English language; second, rhetoric applied to deliberation and persuasion; and third, communication through the mass media.

ENGLISH LANGUAGE

Brown, Huntington, *Prose Styles*. Minneapolis: University of Minnesota Press. 1966.

DeCecco, John P., *The Psychology of Language, Thought and Instruction*. New York: Holt, Rinehart and Winston. 1967.

Dinneen, Francis P., *An Introduction to General Linguistics*. New York: Holt, Rinehart and Winston. 1967.

Stageberg, Norman C., *An Introductory English Grammar*. New York: Holt, Rinehart and Winston. 1966.

RHETORIC APPLIED TO DELIBERATION

AND PERSUASION

Alexander, Hubert G., *Language and Thinking*. New York: D. Van Nostrand Company. 1967.



SINCE THE Communication Program offers only a course of a kind regarded by faculties as filling a threshold place in the curricular structure — the

Johannesen, Richard L., *Ethics and Persuasion*. New York: Random House. 1967.

COMMUNICATION THROUGH MASS MEDIA

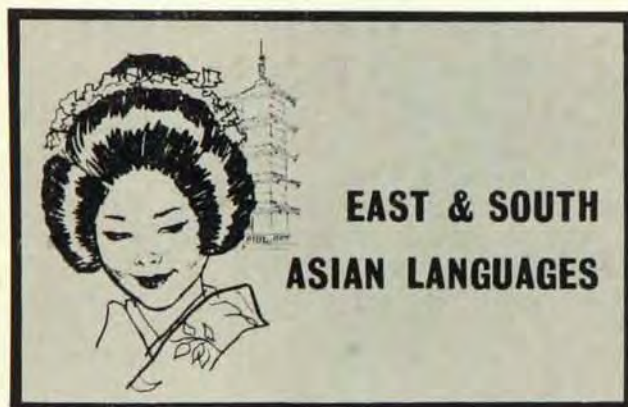
Berelson, Bernard and Janowitz, Morris, *Reader in Public Opinion and Communication*. New York: The Free Press. 1966.

Deer, Irving, and Deer, Harriet A., *The Popular Arts: A Critical Reader*. New York: Charles Scribner's Sons. 1967.

Gross, Gerald, *The Responsibility of the Press*. New York: Fleet Publishing Company. 1966.

Hall, Stuart, and Whannel, Paddy, *The Popular Arts: A Critical Guide to The Mass Media*. Boston: Beacon Press. 1964.

MacDougall, Curtis D., *Understanding Public Opinion*. Dubuque: Wm. C. Brown. 1966.



A wide variety of Asian languages is offered by the Department of East and South Asian Languages, including regular instruction in Chinese, Hindi, Japanese, Sanskrit and Tibetan. And, next fall, new courses will begin in Avadhi, Bengali, Gujarati, Luchuan, Marathi and Thai.

The courses in each of the languages available seek balance among the three aspects of language study: language competence, study of linguistics, and the study of literature and culture. In addition to the undergraduate major programs in Chinese, Japanese and Indian languages, the master's degree is now awarded in Chinese and Japanese, and a doctoral program is being presented for the fall of 1967.

With the expansion in literary and linguistics specialties, and increasing support in the form of faculty appointments on other disciplines concerned with Asia, the library facilities of the University have made excellent progress, as well.

South Asian studies flourish under the support of the Hill Family Foundation Grant and because of the presence of the nationally-famous Ames Library of South Asia. Similarly, the East Asian Library, under the distinguished directorship of Dr. Kaiming Chu, curator emeritus of Harvard Yenching Library, has grown to prominence among Midwestern libraries.

Studies in East and South Asian Languages and Area Studies are supported by U.S. Office of Education National Defense Foreign Language graduate fellowships.

As an important and active participant in Asian area activities at the University, the Department of East and South Asian Languages will continue the expansion and improvement of South Asian language study under the stimulation of the newly-established National Defense Education Act South Asian Language and Area Center.

CHINESE LANGUAGES AND LITERATURE

Birch, Cyril, and Keene, Donald (eds.), *Anthology of Chinese Literature*. New York: Grove Press. 1965.

Chao, Y. R., *Mandarin Primer*. Cambridge: Harvard University Press. 1948.

Karlgren, Bernhard, *The Chinese Language*. New York: Ronald Press. 1950.

Liu, Wu-chi, *An Introduction to Chinese Literature*. Bloomington: Indiana University Press. 1966.

JAPANESE LANGUAGE AND LITERATURE

Keene, Donald, *Anthology of Japanese Literature*. New York: Grove Press. 1956.

Reischauer, Edwin O., *Japan Past and Present*. New York: Knopf. Revised 1953.

Sansom, George, *Japan: A Short Cultural History*. New York: Appleton Century. Revised 1944.

Warner, Langdon, *The Enduring Art of Japan*. New York: Grove Press. 1952.

INDIAN LANGUAGE AND LITERATURE

Dimock, E. C., *The Thief of Love*. Bengali Tales from Court and Village. 1963.

Gargi, Balwant, *Indian Folk Drama*. 1966.

Lal, P., *Six Sanskrit Plays*. New Directions Press. Paperback. (Very readable, modern translations of classical works including "The Little Clay Cart.")

Markandaya, Kamala, *Nectar in a Sieve*. Signet Books. (The author is said to be the ablest Indian novelist now writing in English. This book was once a Book-Of-The-Month-Club selection.)

MAHFIL. A quarterly magazine of South Asian Literature. Generally contains original poems or short stories by Indian or Pakistani authors. Special issues from time to time cover a single topic. Literary reviews are found in each issue. Cost is \$2.50 per year from: Box 39, Foster Hall

University of Chicago
Chicago, Illinois 60637

FAMILY STUDY CENTER

The Minnesota Family Study Center is a regular department in the College of Liberal Arts. It was established at the University in 1957 as an inter-divisional agency for the facilitation and coordination of research

and graduate training for students of marriage and the family. It also became the departmental "home" for the Family Studies Program in 1959.

This undergraduate program, through its courses on the Minneapolis Campus, as well as summer, extension and correspondence offerings, teaches some 1,200 students annually. Course offerings include "Dynamics of Dating, Courtship, Marriage;" "The Home, Its Furnishings;" "Parenthood;" and "The Educated Woman in the U.S."

In fall quarter 1967 a new course will be offered. Family Studies 100 is entitled "Human Sexual Behavior," and will provide for upper division and graduate students an area of study that heretofore has not been available. This course is taught by senior faculty, and planned as a pre-professional one, will be meaningful for students who are preparing for a career in teaching, medicine, the mental health field and many others.

These courses are designed for students who seek better understanding of the human and social relations which serve as the basis for all family interaction. They are primarily directed toward a better understanding of the students of themselves, as women and men, who are day by day acting out their roles as family members.

The demand for well-trained professional specialists in marriage and the family is steadily increasing, be they teachers or counselors on various educational levels, or researchers. The Center addresses itself to this need in a variety of ways:

(1) The Family Sociology Graduate Training Program, supported financially by the National Institute of Mental Health to train family specialists. Graduate students majoring in sociology are given intensive graduate instruction in the family field.

(2) The Postdoctoral Marriage Counseling Program, also supported by the National Institute of Mental Health, which operates on three levels: (a) seminars offer theoretical work in the area of marital interaction and marital counseling; (b) a practicum experience in which trainees are placed in social and psychological agencies where they do marital counseling under agency supervision; (c) a weekly "sensitivity training" session in which trainees learn to become more insightful in their own activities, primarily by having other trainees scrutinize their every move.

(3) Faculty members of the Center also offer a practicum experience in college teaching under the official course title of "Materials and Methods in Marriage and Family Education." Students—graduate students in sociology, psychology and educational psychology, for the most part—are given theoretical background in seminars and at the same time observe regular instructors in their courses. The quarter immediately following this experience, the seminar members teach these courses under the supervision of the regular instructor while continuing their seminar work at the same time.

Faculty members of the Center are in constant demand for speaking and consulting engagements throughout the University and local and state community groups. These include fraternity and dormitory or-

ganizations, PTAs, churches, Governor's conferences, national and international meetings and professional workshops. In this way, the staff shares with a wide circle of individuals their understanding and know-how of the modern American family.

Christensen, Harold (ed.), *Handbook on Marriage and the Family*. Chicago: Rand-McNally and Company. 1964.

Ford, Clellan S., and Beach, Frank A., *Patterns of Sexual Behavior*. New York: Harper and Row. 1951.

Handel, George (ed.), *The Psychological Interior of the Family: A Sourcebook for the Study of Whole Families*. Chicago: Aldine Publishing Company. 1967.

Levy, John, and Monroe, Ruth, *The Happy Family*. New York: Alfred A. Knopf. 1952.

Sussman, Marvin B., *Sourcebook in Marriage and the Family*. Boston: Houghton-Mifflin Company. 1963.

Family Process. Semi-annually. New York: The Family Institute.

Journal of Marriage and the Family. Quarterly. Cleveland: Western Reserve University.

GERMAN

The German Department, working with the Center for Programmed Learning, is now prepared to make a preliminary codification of a complete college academic year of Beginning German Instruction.

The entire program consists of (1) 61 television tapes of 45-minutes length; (2) a text of programmed instruction in grammar; (3) an audio tape series for processing the grammar instructional materials; (4) a text of instruction in programmed response to target language stimuli; (5) an audio tape series for processing the response materials; (6) a text of vocabulary units; (7) an audio tape series for the vocabulary units; (8) a program for processing reading assignments; (9) a brief handbook of procedures for classroom instructors.

The 61 television units organize and define the work of the course. Each television unit defines, explains and illustrates how each unit assignment is to be learned and examined.

The grammar instruction and the response instruction alternate until the vocabulary units and finally the reading units are added to the instructional tape, as well. The sixty-first tape is an examination tape, and is longer than the preceding 60 instructional tapes.

This codification presently taking place is based upon the detailed, syllable-by-syllable, examination of eight students' learning procedures during one year, and upon data collected from another year's instruction of 120

students, twenty of which were not at the University of Minnesota.

When the complete instructional program has been codified, we will record and print the entire program, examine it once more in experimental sessions in the coming academic year, and then turn the entire package over to a German instructor or instructors in still a further experimental program to see if the instructional package, controlled and motivated by the television tapes, will operate itself successfully without the intervention of the authors and experimenters.

One particularly interesting yield from the experimentation so far is the demonstrable need for student interaction with other students and a live instructor. Complete programming, that is, self-instruction without fellow students and without a live instructor, either breaks down completely or leaves the student so poorly motivated that his learning yield from the course is demonstrably low. Further studies in this, however, are necessary.

One further yield from the work to the present is the evident need for skilled instructors, the program demanding instructors with very high language skill. The program does not eliminate the instructor, on the contrary, it makes more evident the need for his skills but it does, at the same time, define his task so as to get the highest possible classroom, and hence instructional, efficiency.

It is hoped that ultimately, when a demonstrably viable program of German language instruction has a relatively fixed form, that this second language feed-in program can be used as the basis for psycho-linguistic experimentation in investigations of the nature of language, language learning and, a distant but persistent dream, of the nature of the human mind.

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The discipline of history, which records changes occurring in time, is itself subject to changes in the course of time.

Once upon a time, a respectable historian could define history quite simply as "past politics." This nineteenth-century emphasis on political and constitutional history, the result of the concern of the nineteenth century with political reform, came to be challenged, particularly in the 1930's, by an emphasis on economic history, coinciding with crises in the economic order. The clash of ideologies in the next decade brought an increasing stress on intellectual history.

At the present time, and not unrelated to our still-growing realization of the complexities of modern society, the most promising area of development is that amorphous field known as "social history" and its sub-specialties: urban history, the history of minorities, the history of migration and immigration, religious history, the history of education. Similarly, our current concern with the non-Western world has brought "booms," first to Russian history, and now to Asian history. The realization of these shifts in professional emphases has brought about a greater self-consciousness among historians, resulting in a concern for the theory and methodology of history.

Despite these shifts, the older interests in history have retained much of their vitality. Political and constitutional history is vigorously pursued, though emphasis is now placed on the development of administration and the analysis of political processes.

Economic historians pay greater attention to economic theory; intellectual historians are more concerned with the relation of thought to action. The profession changes slowly, resisting as well as responding to current fashions. The theoretical constructs of the social sciences are handled very cautiously by the historian, who still keeps one foot in the humanities. No matter what may be the prevalent interests of the academic or

the general society, the primary reason for studying history is simply that it is fun.

All these various interests are reflected in the Department of History of the University. Most of the expansion of the past decade has taken place in the non-Western areas and the sub-specialties of social history. The Department has sponsored such related programs as the Center for Immigrant Studies and the Social Welfare History Archives. Traditional areas, however, are no less vigorous; in particular, our ancient history section has developed into one of the leading centers for graduate study in that field. A large department, unbound to any doctrine, is able to include representatives of all approaches to its subject.

Specialization, however, brings its own penalty. As advanced research demonstrates the complex dimensions of historical truth, it becomes increasingly difficult to communicate this truth in general terms to a non-professional audience. By his training, the historian is inherently suspicious of the generalization which he must nonetheless make in order to keep his subject comprehensible. He has not resolved the tension between accuracy and intelligibility; but he has not yet given up the attempt to communicate without distortion.

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JUNE, 1967

HUMANITIES

PROJECTS in Continuing Education are abetted by significant and substantial contributions from the Humanities Program.

Continuing Education fosters the sustenance and expansion of intellectual interests by women and men whose post-college careers and commitments have limited or curtailed their contact with the academic environment and, more particularly, with regular formal study in liberal arts and humanities.

Offerings in 1966-67 included two seminars for women and one seminar for men. All of the seminars were presented in conjunction with the Department of Special Courses.

The men's seminar covered "Tension and Change in the New Europe." Its orientation was defined by the disciplines of history, international relations and political science, and by a conspectus of modern world literature.

The main seminar for women centered on "New Worlds of Knowledge" in the natural sciences, the social sciences and the humanities. These three areas correspond to the three divisions of the College of Liberal Arts at the University. As a supplement to the investigation of the humanities, a special women's seminar in "Existentialism" was developed. This course directed attention to religious and atheistic existentialism, new movements in existentialist theology and existentialist literature, and the "death of God" debate.

Participants in the seminars were introduced to the most recent trends in contemporary science, religion, art and politics, and to many books and articles which provide detailed explication and study of such trends. Special lecturers were enlisted from the faculties of the University and Macalester College.

The nature of the Continuing Education seminars is such that participants may often determine — by their questions, contributions and suggestions — the direction and character of the course materials. Seminar registrants note the applicability of lecture subjects to their various individual professions and livelihoods and, in so doing, add considerable depth to the initiated discussions. When sufficient interest in a special topic or idea is evident, new or supplementary seminars are fashioned to accommodate those concerned.

Continuing Education courses are carefully planned and coordinated so as to combine scholarly resources with variety and flexibility of presentation.

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JOURNALISM & MASS COMMUNICATION

The past academic year has been one of consolidation and reaffirmation of goals and educational objectives for the School of Journalism and Mass Communication in its 50th year as a professional school within the Arts College of the University.

This regrouping of curricular, staff and professional aspects has done much to impress upon students and faculty alike the overriding importance of two-way communication within a teaching and research unit whose primary objective is furnishing the world's mass media of communication with ever-better personnel, techniques and resources.

No better illustration of this point is available than that of the School's Liaison Committee, a student-faculty group established three years ago. Officers of the committee, elected by their fellow students, have the advice of two faculty members (one appointed by the director, one elected by the students) but act and make recommendations as an independent body. The committee meets regularly, often with the director and other faculty members, to offer constructive criticism and, in general, to attempt to present the student approach to problems and issues confronting the School. A highlight of the committee's activities this past year has been publication of "The Open Door," a booklet designed to tell Minnesota's high school seniors and other young people about professional education for mass communication at the University.

The Liaison Committee was active, too, in helping to remind alumni, journalists and the general public everywhere that journalism education at Minnesota is now "golden" in point of vintage as well as in the matter of pre-eminence. Dr. Ralph D. Casey, the School's emeritus director now living in his native state of Washington,

serves as Honorary Chairman of an anniversary observance committee of distinguished alumni and professional friends. Symposia, publications and special convocations, together with joint observances with the Minneapolis *Star & Tribune*, observing its 100th anniversary, highlight the School's activities in commemoration of its first 50 years and dedication to a continued enhancement of the profession it serves.

The School's enrollment—pushing this year past a record high of 400 undergraduate and graduate students—is now served by a full-time faculty of 16. Increasingly, the Murphy Hall staff gains recognition throughout the world for its distinctive contributions to both the research literature of this multi-disciplinary field and to the ranks of the most-lauded journalists practicing their profession in every facet of mass communication.

The School's director, Dr. Robert L. Jones, becomes next year the president of the Association for Education in Journalism, the national body of journalism educators. Professor Edwin Emery continues as editor of *Journalism Quarterly*, the renowned scholarly publication of the profession, edited previously by Professor Raymond B. Nixon of the School's senior faculty.

Other members of the faculty have served in the past year as educational and government advisers and resource persons in Asia, Europe and South America, as international and national bodies, as well as private foundations, call upon Minnesota's journalism educators and research specialists to contribute to the universal cause of better mass communication.

Within the University, too, the School of Journalism and Mass Communication offers generously of its resources and staff in search of a heightened sense of awareness of and involvement in the issues and ferment of the total community. Murphy Hall faculty members are active participants in Twin Cities civic improvement organizations, in helping the state government in the areas of public information and public relations, and in cooperating with other private and public institutions of higher learning in devising journalism curricula appropriate to the needs of the state.

As it forges into its fifty-first year, the School of Journalism and Mass Communication takes pride in its role of leadership in U.S. journalism education and the plaudits it has received. The School also calls upon its alumni and friends everywhere to join with it in a re-dedication to the high purpose and indispensable functions of free journalists manning free instruments of mass communication in conditions of freedom everywhere in the world.

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LIBRARY SCHOOL

The contemporary role of the library, and therefore of the librarian, was outlined recently before the National Advisory Commission on Libraries by Dr. Lester Asheim, director of the American Library Association Office for Library Education.

"Libraries are social agencies which both affect and are affected by the social milieu in which they operate. Thus such well known phenomena as the current explosions — of population, of education, of information — have a direct influence on our needs and responsibilities. For example, new technological developments, many of them not within the field of librarianship directly, affect the kind of information that people need, and the means through which they get it. Information, and getting it, are an important responsibility of libraries. . . . In every field of study, thought, and action where new ideas and new approaches are being introduced, the effective library must not only keep abreast of the developments but anticipate them."

Libraries, then, are concerned not only with yesterday's knowledge but also with today's and tomorrow's, with the total spectrum of changing, expanding human knowledge. Libraries are vitally concerned with the new purveyors of information, the film, the tape, the record, the data processing machine as well as with the traditional printed page. Knocking at the library door is the child who must learn three times more than his parents, the student whose numbers will increase by 70% in the next ten years, the researcher who will see the book collections in the great research libraries double every twelve years, the general reader with increasing leisure time. For Everyman, the library is the "platform for uninhibited leaps."

In these circumstances, the role of the librarian as the link between knowledge and the many special needs people have for it is becoming increasingly complex and difficult. It demands mental muscle: intellectually, no other profession demands a greater breadth of knowledge from its members. It demands moral muscle: the defense of the freedom to read falls on every librarian who is challenged by a pressure group trying to shape a library's collection.

This need for professional stamina explains why the

minimum education for a librarian today is five years of college. The first four years of undergraduate study should provide a wide liberal arts background with a subject specialization. It does not matter which area of knowledge is covered by the undergraduate major. Humanities, social sciences, natural sciences, physical sciences, mathematics, languages — the library field can use all of these.

The fifth year is one of graduate study in library science, leading to a master's degree. Now the library science student begins to learn the truth of Samuel Johnson's dictum, "Knowledge is of two kinds: we know a subject ourselves, or we know where we can find information upon it."

The Library School of the University of Minnesota, one of thirty-six accredited library schools in the United States, provides basic programs of study which are planned according to the special abilities, backgrounds and aims of the individual college graduate. Two special programs have been designed which are of particular interest: one for biomedical librarianship and one for the liberal arts graduate who lacks a teaching certificate but who wishes to enter school librarianship.

For the professional librarian today, this five-year preparation is only a beginning.

Cyril O. Houle, professor of education at the University of Chicago, has suggested that the major present thrust in continuing education is the need of the practicing professional to keep up with knowledge related to his profession. What a challenge for the librarian who takes all knowledge, its organization and dissemination, as his domain!

Study beyond the master's degree has become as necessary for librarianship as for other professions. Advanced degrees in an academic discipline or in a related professional field have become increasingly important as one form of continuing education for the librarian. Specialization in a particular aspect of librarianship has been encouraged by the availability, in 1966-67 for the first time, of federal funds for study beyond the master's level.

Present day library education aims to prepare students for the inevitable changes libraries must make to keep pace with the expansion of information. To this end, the Library School has added special courses in information retrieval techniques and library mechanization to its curriculum, and in 1964 the Center for Documentation and Information Retrieval was established as an affiliate of the Library School.

Preparation for the future is important for all professions, but it has a particular urgency for the library profession, which serves the needs of all other disciplines.

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LINGUISTICS

Language is so central to man and his works that we find it difficult, if not impossible, to conceive of human life without language. This observation, a truism, yet profound in its implications, finds expression in the fact that concern with language forms an integral part of many disciplines. Indeed, fascination with and study of language is probably as old as man himself, who might as appropriately be designated as *homo loquens* as *homo sapiens*.

This widespread concern with language is probably the main reason why linguistics has only relatively recently been recognized as an independent discipline. Developments at the University of Minnesota illustrate this well. Course offerings in linguistics, under various departmental rubrics, are not new, yet as a department

linguistics is new; the Department of Linguistics was established in 1966.

Linguists today are unhappy with what is originally their own designation of linguistics as simply "the scientific study of language." Whatever else linguistics is, it does not have a monopoly on the scientific study of language.

The hallmarks of linguistics are: (1) The study of *language, not, primarily languages*. The latter are seen as exponents of the former, and although the study of languages undoubtedly will always remain an integral part of linguistics, as a means to an end, the objective remains an understanding of language and an attempt to build an explanatorily adequate formal model of language.

(2) The study of *language as an end* in itself. Many disciplines study language, but as a means to some other end. The literature is most certainly interested in language, but only because this is the medium with which the literary artist works. Linguistics alone studies language with no other end in view.

(3) The study of *language in terms of itself*, in terms of its internal or deep structures, and not in terms of its users or the purposes for which its users employ it.

In spite of the relative newness of linguistics as an independent discipline, recent decades have seen exciting developments and the emergence of various competing approaches or so-called schools of linguistics. The Department of Linguistics, recognizing this fact, has decided as a matter of policy to provide work in as many of these approaches as possible. In 1967-68, the Department will have on its staff representatives of approaches commonly, but inaccurately, identified as structural, tagmemic, and transformational.

For the nonspecialist, there is unfortunately very little worthwhile literature in linguistics. Popularizations abound, but they are almost uniformly bad, collections of trivia and folklore about language.

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MICROBIOLOGY

Where once the bacterial cell was of interest as a primary cause of disease, the chemical and physiological processes displayed by microorganisms have become the focal point of Minnesota's microbiologists.

No longer is the intact microbial cell considered "out of bounds" to those searching for the elements that constitute life. The researches of the department of microbiology reflect the conviction that, in these minute organisms, the clue to elucidating unsolved biological problems will be found.

In carrying out its mission of advanced teaching and training in all areas of modern microbiology, curiosity about microbiological life processes and the persistence to follow experimental findings are attributes the department seeks in prospective students. A balanced department reflects intriguing investigations in all phases of this basic science.

Virology

Molecular virology at Minnesota is particularly concerned with an attempt to elucidate the biochemical processes involved in the penetration of RNA viruses into normal cells, in the production of viral RNA and protein in the cell, and in the assembly of these components into effective virus particles.

Immunology

The immunochemistry of exotoxins and endotoxins and their role in host-parasite relationships represents a major area of investigation. Group A streptococci and certain Gram-negative bacteria are included in these studies in an attempt to understand the basic mechanism of rheumatic fever and lethal shock.

The ontogeny of the immune response is being revealed through an investigation using the experimental miniature Hormel pig obtained by hysterectomy and reared in germ-free environment.

Quantitative studies of the roles of antibody, complement and lysozyme in the killing and lysis of Gram-negative bacteria are giving particular attention to the relationships and interactions of these reagents.

Another area of interest involves the antigenic structure of normal, cultured and cancerous cells. Various problems related to the aging of cells and tissues such as chromosome status, auto-antibodies, responsiveness to infection and cancer development are being investigated.

Microbial Genetics

Genetic studies on the fine structure of Streptomyces reveal aspects of their morphology, the relationship existing among the Actinomycetales and other microbes,

and the mechanisms by which genetic information is converted into physiological activity.

Strains of Streptomyces are also employed as the hosts in host-parasite interactions to study the effect of these viruses on the internal development of the host cell and the role of DNA in this development.

Cell Physiology

The mechanism by which a specific protein is synthesized from a mixture of 20 amino acids is being investigated in the Gram-negative organism *Escherichia coli*, concurrent with the means by which genetic information pertinent to this specific sequence of amino acids is transmitted to the enzyme-forming machinery.

The polypeptide antibiotic, Bacitracin, is produced only by a sporulating culture of the bacteria, *Bacillus licheniformis*. To determine more about the nature of antibiotic production, the metabolic reactions necessary for spore formation by this organism have initiated a study of those enzymes and enzyme systems necessary for spore formation and which are synthesized by the cell after completion of its log-phase growth.

An insight into the general problems of morphogenetic change and regulation of metabolic events is being elucidated by an investigation of the fruiting myxobacterium, *Myxococcus xanthus*. These studies aim at the characterization of a relatively undefined group of bacteria.

Soil Microbiology

The fluorescent antibody technique, which permits direct microscopic detection of *Aspergillus flavus* in normal soil environments, has been pioneered and is continuing in the department as a means of investigating problems in the ecology of microorganisms in complex natural environments.

Bibliography

By its nature, the science of microbiology is in a constant state of flux. For this reason, journals are recommended as the best means of continuing education.

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Journal of Immunology

Journal of Experimental Medicine

Journal of Molecular Biology

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Nature

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Immunochemistry

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MIDDLE EASTERN LANGUAGES

The Middle East stands at the crossroads of three continents. It has played an important role in world history in ancient, medieval and modern times. Its importance does not lie solely in the Suez Canal and oil, but in the many contributions to Western civilization from time immemorial. It is the home of the alphabet, and the birthplace of the three great monotheistic religions—Judaism, Christianity and Islam—that have played a great role in the life of mankind.

There has been a great interest in Middle Eastern studies in our academic institutions. Although Arabic, the language of some ninety million people, has been taught at the University of Minnesota for a number of years, the need for the study of more Middle Eastern studies has been felt for some time. This awareness led to the establishment of a full-fledged Department of Middle Eastern Languages in 1965.

The department aims to acquaint the student with Middle Eastern languages, in order to enable him to read and do research in these languages and their literatures; to equip him with a speaking knowledge of at least one Middle Eastern language; and to acquaint him through original texts and through English translations with the culture of the peoples of the Middle East.

The department offers at present a major in Arabic, and presently is preparing a major in Hebrew for the BA, and a major in Arabic for the MA.

The department offers courses in Arabic and Hebrew at the elementary, intermediate and advanced levels. Among its other offerings are courses in Arabic literature, the development of the Arabic language, history of the Arabs, intellectual life in Islam, Hispano-Arabic culture; ancient Israel, comparative Semitics, Ugaritic and Aramaic, and others. The department closely cooperates with the Romance Languages and the History Department in the cross-listings of the following courses: Hispano-Arabic Culture, Ancient Israel, and History of the Arabs.

The department has in one year undergone a broad program of expansion. It presently has four full-time faculty members. Philip K. Hitti, a distinguished Arabist, was visiting professor in the department last spring.

Intensive courses of Arabic and Hebrew will be offered at the Summer Session. The courses will deal with grammar, vocabulary and the reading of easy texts, with constant drills and laboratory aids. They will cover an entire year's work, are open to anyone, and can be used to help fulfill a student's language

requirement.

Both Arabic and Hebrew possess rich literature of long standing. It suffices to say that Hebrew is the language of the Bible, with portentous significance both to Jews and Christians.

Arabic also has great religious significance among some 400 million people. It is the predominant language of the Middle East, spoken by about ninety million people living in Morocco, Algeria, Egypt, Tunisia, Lybia, the Sudan, Lebanon, Syria, Iraq and the entire Arabic Peninsula.

All in all, the department hopes to meet the growing needs of students who may wish to pursue scholarship, engage in business, or work for the government and international agencies.

The department was able to secure some 8,000 Arabic titles this year, and looks forward to securing more books in Arabic and Hebrew.

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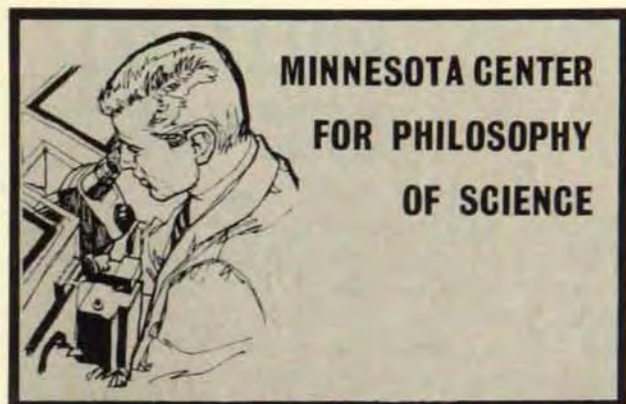
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During the 1966-67 academic year, the Minnesota Center for Philosophy of Science has continued its intensive research in the areas of philosophy of physics and of psychology, as well as in the general logic and methodology of science.

Professor Grover Maxwell has been on sabbatical leave at the University of London (London School of Economics and Political Science), where he pursued investigations in the logical structure of scientific concepts and theories. He has presented occasional lectures in various colleges of London University and in Cambridge, England. His research is culminating in a new and original view of the relations of scientific theories to their observational evidence.

Professors Paul E. Meehl (of the University's psychology department) and Herbert Feigl (director of the Center) have collaborated on a project involving certain aspects of the psychology of language, and also, more fundamentally, the casual determination of human behavior.

During spring quarter, colloquia were held with the staff and graduate students of the Human Learning Center, mainly on the philosophical, logical and mathematical aspects of psycholinguistics, and of rule-governed behavior in general. Among the major participants were Professors J. J. Jenkins, W. A. Russell and P. E. Meehl, psychology; E. E. Engeler, mathematics; and Herbert Feigl.

Another set of colloquia concentrated on such philosophical issues of modern physics as the logic of space-time concepts; determinism vs. indeterminism in microphysics. The principal participants were Feigl, Dr. Laurence Victor, Dr. J. Bub and a group of graduate students, well-versed in theoretical physics.

University of Minnesota Press last year published a *Festschrift* in honor of Feigl, recently named a Regents' Professor of Philosophy. The book was edited by Professors P. K. Feyerabend, University of California, and Grover Maxwell, University of Minnesota, and was titled *Mind, Matter and Method*.

In September 1967, University Press will also pub-

lish a monograph on "The Mental and Physical" with a "Postscript After Ten Years" by Feigl. The demand for this essay, originally published in the *Minnesota Studies in the Philosophy of Science* in 1958, continues to be so great, and the responses to its contents in many books and periodicals so numerous and varied, that University Press decided to bring out this long essay, together with a sizable *Postscript* of 1967, as a separate small volume in paperback.

The Center has had several visitors this year, and expects many more during 1967-68. Among the most prominent are Dr. Robert McLaughlin, Australia; Professor Richard Schlegel, Michigan State University; Professor George Schlessinger, formerly Australia, but now at the University of North Carolina; and Professor Ray Bradley, New Zealand.

Professor Feigl has presented lectures dealing with topics of Center research at Johns Hopkins University, the University of Hawaii, Michigan State University and at the meeting of the Western Psychological Association in San Francisco.

An important conference on the relations of theory and experience - mainly in the physical sciences - was held in May 1966 at the University. Among the major participants were Professors P. Achinstein, Johns Hopkins; B. Aune, University of Massachusetts; R. Buck and W. Salmon, Indiana University; J. Cornman, University of Rochester; William Craig and Feyerabend, University of California; A. Grünbaum, University of Pittsburgh; R. N. Hanson, Yale; C. G. Hempel, Princeton; M. Hesse, Cambridge, England; E. McMullin, Notre Dame; and William Rozeboom, University of Alberta.

The Center has finally succeeded in appointing (part-time) a competent historian of science (especially of modern physics), Dr. Roger Stuewer, who will join the Center's staff this summer. Another part-time appointment is Professor Keith Gunderson, UCLA, who will collaborate in the Center's work on philosophical problems of psychology. He also will collaborate in our work in the philosophical aspects of psycholinguistics.



The Departments of Music and Music Education function administratively under a single chairman,

but they are academically controlled and budgeted separately in the Colleges of Liberal Arts and Education.

While this structure does not allow for the advantages of autonomy usually enjoyed by the typical school of music, it has provided a cooperative environment which strikes an excellent balance between the fields of research, creativity, performance and methodology.

The respective staffs recognize a very real need for both depth and breadth in all these areas, and this sharing of a philosophy of "training the complete musician" has fostered graduate programs of distinction in the fields of musicology, music education and composition. As an additional result, exploration in the musical context of related liberal arts fields has come about, and strong ties with the Department of American Studies, Sociology and Anthropology have been established and encouraged.

The Departments of Music and Music Education have expanded in rather a spectacular manner in the last two years. The rapid incorporation of a total performance program includes the encouragement of a Collegium Musicum, live chamber music and groups to illustrate and provide laboratory exercise for courses in the history of performance practices.

In addition, new staff members are being added to strengthen the graduate programs already established. Plans for offering a major in music therapy are now in progress, and this program will be expanded into the graduate level as soon as it is feasible. Ethnomusicology is being stressed because of the unlimited possibilities for research in the Upper Midwest area among ethnic groups, particularly among the Scandinavian peoples. The famous Kugler instrument collection now in our library offers an excellent opportunity for research in early American instruments, particularly in the building and rebuilding of these instruments. The merger with the MacPhail School of Music in downtown Minneapolis offers an unlimited means for implementing and developing procedures and techniques in the teaching of music.

Because the Minneapolis Symphony Orchestra is housed on the Campus, first-chair performers from the orchestra are available for the instructional staff to provide first-rate instruction on every orchestral instrument. Other cooperative efforts with members of the orchestra provide for an enriching musical experience for students in the Departments.

Classroom, office and rehearsal facilities are crowded and present a pressing need. Preliminary plans for new facilities have been presented and are now being considered. Enrollments on the undergraduate level have doubled in the past two years, and the level of talent and intelligence of this new group is significantly higher than ever before. It is inevitable that many in this group will continue their education beyond the baccalaureate degree.

It is hoped that local sources of scholarship funds can be found to assist these undergraduates and graduates in their pursuit of a thoroughly professional training in music.

POLITICAL SCIENCE

As with other academic disciplines, the major sub-fields of Political Science have grown larger in number, more specialized in their interests and research, and much more active in the pursuit of knowledge and the publication of the results thereof. For this reason, it seems desirable to deal with one sub-field at a time rather than attempting to reflect trends across the complete discipline. This year we have chosen to focus on *international politics*.

The revolutionary full-scale involvement of the United States in international affairs that might be said to have begun with the end of the Second World War has been matched by an equivalent expansion of academic attention to the problems and patterns of international politics. Literally thousands of books and articles have been devoted to the analysis of current policy questions and problem-areas and prescription regarding them. At the same time, there has been an increasing effort to apply to the study of international politics the theories and methods of the contemporary social sciences. An introduction to some of the recent theoretical writing in this field is to be found in Charles McClelland's *Theory and the International System*.

One field that has received greatly increased attention is military strategy, weapons and capabilities and their implications for American foreign policy. Nuclear weapons, and theories regarding their use (or deterrence of their use), represent a central problem, but in recent years, limited war and counter-insurgency have become increasingly important topics. Morton Halperin's *Contemporary Military Strategy* provides a useful introduction to these problems. *Problems of National Strategy*, edited by Henry Kissinger, includes contributions by many of the most important writers in this field. A lucid and succinct analysis of the problems of arms control and disarmament is Hedley Bull's *The Control of the Arms Race*.

Increasing experience with foreign assistance programs and, particularly, with the problems of the so-called developing countries, has produced a greater awareness of the complexities involved and the limitations on what can be quickly accomplished, and a growing literature reflecting these conclusions. Three recent studies are Charles Wolf's *United States Policy and the Third World*, David Baldwin's *Foreign Aid and American Foreign Policy*, and John D. Montgomery's *The Politics of Foreign Aid*.

While the factors that influence the formation of American foreign policy are given increasingly detailed and systematic attention, the same kind of analysis has begun to be applied to foreign policy-making in other countries. In *Foreign Policy and Democratic Politics*, Kenneth Waltz systematically compares the British and American political systems from a foreign policy-making point of view. Karl Deutsch and his colleagues have analyzed French and German attitudes on European integration and world politics in *France, Germany and the Western Alliance*.

In the area of international organization, the description of institutions and analysis of particular events still characterizes much of the writing. Scholarly concern for building an orderly and peaceful world also remains high, as evidenced by the four volumes of *The Strategy of World Order*, edited by Richard A. Falk and Saul H. Mendlovitz. In recent years, however, the tools of the behavioral sciences have increasingly been applied to the field. Hayward Alker and Bruce M. Russett, *World Politics in the General Assembly*, illustrate the trend with a study based on factor analysis or roll-call votes.

The United Nations is now relinquishing some of the limelight to such studies of regional organizations as Henry Kissinger's examination of NATO, *The Troubled Partnership*, and Robert W. MacDonald's *The League of Arab States*. The specialized international agencies have also drawn growing attention. Ernst Haas, *Beyond the Nation-State*, applies some of the theories of functionalism to the International Labor Organization while James P. Sewell, in *Functionalism and World Politics*, analyzes the performance of the World Bank. A general study by Jack C. Plano and Robert E. Riggs, *Forging World Order*, represents a blend of the institutional approach with the newer emphasis upon regional organization, functional organization, and aspects of political behavior. The second edition of Lincoln P. Bloomfield, *The United Nations and U.S. Foreign Policy*, reflects a continuing concern for the articulation of world organization with national interests.

Alker, Hayward and Russett, Bruce M., *World Politics in the General Assembly*. New Haven: Yale University Press. 1965.

Baldwin, David A. (ed.), *Foreign Aid and American Foreign Policy*. Frederick A. Praeger. 1966. Paperback.

Bloomfield, Lincoln P., *The United Nations and U.S. Foreign Policy*. Little, Brown. 1967. Paperback.

Bull, Hedley, *The Control of the Arms Race*. Frederick A. Praeger. 1965. Paperback.

Deutsch, Karl W., Edinger, Lewis J., Macridis, Roy C., and Merritt, Richard L., *France, Germany and the Western Alliance*. Charles Scribner's Sons. 1967. Paperback.

Falk, Richard A., and Mendlovitz, Saul H. (eds.), *The Strategy of World Order*. 4 Vols. World Law Fund. 1966. Paperback.

Haas, Ernst B., *Beyond the Nation-State*. Stanford University Press. 1964.

Halperin, Morton H., *Contemporary Military Strategy*. Little, Brown. 1967. Paperback.

Kissinger, Henry A. (ed.), *Problems of National Strategy*. Frederick A. Praeger. 1965. Paperback.

Kissinger, Henry A., *The Troubled Partnership*. McGraw-Hill. 1965. Available in paperback.

McClelland, Charles A., *Theory and the International System*. Macmillan. 1966. Paperback.

MacDonald, Robert W., *The League of Arab States*. Princeton University Press. 1965.

Montgomery, John D., *The Politics of Foreign Aid*. Frederick A. Praeger. 1962. Paperback.

Plano, Jack C., and Riggs, Robert E., *Forging World Order*. Macmillan. 1967.

Sewell, James P., *Functionalism and World Politics*. Princeton University Press. 1966.

Waltz, Kenneth N., *Foreign Policy and Democratic Politics*. Little, Brown. 1967. Paperback.

Wolf, Charles Jr., *United States Policy and the Third World*. Little, Brown. 1967. Paperback.

PSYCHOLOGY

The prediction of behavior is the fond dream of the psychologist. When it comes to the activities of psychologists themselves, however, prediction seems impossible, and even the task of describing what is currently taking place is hazardous.

A rapid sampling of recent publications in the field tempts the unenlightening conclusion that everything that can be happening in the field, is happening. Certainly, so much is going on in the expanding profession of psychology that no one person is competent to evaluate the entire endeavor.

Perhaps the best that can be done is to pass on the general impressions which have been gleaned from the flood of material which has crossed one professor's desk. The selection is unrepresentative, the method is unsystematic and the conclusions are unjustifiable. However, if something of the sense of excitement and promises which rises out of the subject matter itself can be transmitted to the reader, a purpose will have been served.

It is interesting to speculate that general psychology today is organizing itself around three ways of viewing its problems. No one way is dominant, and all the

ways are in one fashion or another reactions to the behavioristic learning theories which provided the framework of thinking by psychologists for so many years.

One way of attacking the problems of psychology is to take seriously the dictum that the subject matter of psychology is behavior, defined as the overt movements of the organism in the environment. If so, say the advocates of this view, it is to the control of such behavior that the efforts of psychologists should be directed.

Speculation as to the physiological underpinnings of behavior, or as to the hypothetical constructs—"mentalistic way stations"—which may lie behind behavior, is to be avoided. Rather, the specifically manipulable external variables which ultimately control behavior are to be isolated and their effects determined.

This radical form of behaviorism is obviously derived from the contributions of B. F. Skinner, but not all of its adherents would call themselves Skinnerians. Some would emphasize their theoretical "neutrality" and insist that their concern for the detailed analysis of the empirical variables governing behavior is simply a hygienic tactic to avoid the excesses of loose theorizing about ill-defined situations. Some are applied psychologists who see untapped potential for modifying socially significant behavior through the effective use of the empirical law of effect.

Another emerging view is represented by Humanistic Psychology. This point of view does not accept behavior as the exclusive subject matter of psychology, and stresses subjective experience as a legitimate concern of the psychologist.

It has long historical roots in phenomenological, or introspective, psychology but it is a stranger to the American scene because of the long reign of behaviorism in this country.

Unlike the European existential psychologists, the American humanistic psychologists have an optimistic opinion of human nature. They suggest the desirability of research with mature, well-functioning persons in the belief that more knowledge about the self-actualizing tendencies of individuals would lead to a more complete understanding of human potential. The major representatives of this view are Abraham Maslow, who is the president of the American Psychological Association at this time, and Gordon Allport.

A third way of seeking for explanations in psychology might be termed the cognitive-structural approach. It, too, rejects the traditional behaviorism, but it remains objective in its methodology, borrowing terms and strategies from recent developments in computer technology.

It believes that behavior, as such, may be in principle impossible to predict in detail. It suggests that psychology should try to understand the capacities or competencies for generating behavior which characterize human beings.

Such an understanding would let us know what an individual is capable of doing even if it might not allow us to predict precisely what he would do in a given situation, it is held. The emphasis in this group is upon the concepts, rules and cognitive structures which regulate behavior. To date, they have had their major influence in the areas of developmental psychology and psycholinguistics.

CONTINUING EDUCATION

CONTINUED

Below are listed some recent publications which exemplify these three ways of viewing psychological problems, and lest the reader be misled into the impression that these exhaust the possibilities, a final section of general reading on other matters is added.

BEHAVIOR MODIFICATION

Krasner, L., and Ullmann, L. P., *Research in Behavior Modification*. Holt, Rinehart & Winston. 1965.

Skinner, B. F., *Science and Human Behavior*. Macmillan. 1955.

Ullmann, L. P., and Krasner, Leonard (eds.), *Case Studies in Behavior Modification*. Holt, Rinehart & Winston. 1965.

HUMANISTIC PSYCHOLOGY

Allport, G. W., *Becoming: Basic Considerations for a Psychology of Personality*. Yale University Press. 1955.

Cohen, John., *Humanistic Psychology*. Collier Books. 1962.

Maslow, A. H., *Toward a Psychology of Being*. Van Nostrand (an Insight Book). 1962.

COGNITIVE-STRUCTURAL APPROACHES

Chomsky, N., *Syntactic Structures*. Norton & Company. 1957.

Flavell, John., *The Developmental Psychology of Jean Piaget*. Van Nostrand. 1967.

Reitman, Walter., *Cognition and Thought*. John Wiley & Sons. 1965.

OTHER REFERENCES

Boring, E. G., and Lindzey, Gardner (eds.), *A History of Psychology in Autobiography, Volume V*. Appleton-Century Crofts. 1967.

Psychology Today. A new periodical on psychology for the educated non-professional. CRM Associates, 1330 Camino Del Mar, Del Mar, California 92014.

Contemporary Psychology. A journal of reviews, published by the American Psychological Association, 1200 17th Street, N.W., Washington, D.C. 20036.

SCANDINAVIAN

The Department of Scandinavian has undergone a broad program of expansion in all areas in the past two years.

Until 1965, the department offered courses only in the Norwegian and Swedish languages, as well as a substantial number of courses covering Scandinavian literature in both depth and breadth. Students interested in a Scandinavian major were able to pursue a course of study leading to the BA and MA.

Then, in the fall of 1965, the only center of northwest European language and area studies in the United States was established at the University under the auspices of the U.S. Office of Education. With the availability of new funds, both from the University and the government, the Department of Scandinavian, as a member of the Center, has increased its staff and course offerings, and has established a program leading to a PhD in the Scandinavian language and literature.

A number of three-year Title IV and one-year Title VI National Defense Education Act fellowships also have been granted to promising graduate students for major and minor work in Scandinavian.

We have added Danish, Finnish and Old Norse to our language program. Among the new linguistics and literature courses are The Structure of the Scandinavian Languages, The History of the Scandinavian Languages, The Icelandic Saga, Scandinavian Folklore, and courses in late medieval, Renaissance and 18th century literature.

In the fall our staff will be strengthened further by the addition of Dr. Meri Lehtinen, assistant professor of Finnish, the author of the basic Finnish text used in our language program. We hope that we will soon be able to fill new positions in Danish and in Scandinavian literature.

The Center for Northwest European Language and Area Studies has strengthened the University's Scandinavian offerings in other areas, too, with new positions in Scandinavian history and political science.

LANGUAGE TEXTBOOKS

Danish

Bredsdorff, Elias, *Danish: An Elementary Grammar Reader*. Cambridge University Press. 1958.

Koefoed, H. A., *Modern Danish Prose*. Copenhagen: Host and Söns forlag, Norlev & Koefoed, *The Way to Danish*. Copenhagen: Munksgaard. 1964.

Finnish

Lehtinen, Meri, *Basic Course in Finnish*. Indiana University Publications. 1963.

Norwegian

Chapman, Kenneth G. (ed.), *Basic Norwegian Reader*. New York: Holt, Rinehart & Winston. 1966.

Haugen and Chapman, *Spoken Norwegian*. Revised. New York: Holt, Rinehart & Winston. 1964. Tapes and records available for independent as well as classroom study.

Swedish

Beite, Hildeman, Higelin, *Learn Swedish*. Stockholm: Almqvist & Wiksell. Beite, Englund, Higelin, Hildeman, *Basic Swedish Grammar*.

Söderbäck, *Advanced Spoken Swedish*. Rock Island, Illinois: Augustana Book Concern.

LITERATURE, HISTORY AND CIVILIZATION

General Scandinavian

Arneson, B.A., *The Democratic Monarchies of Scandinavia*. 2nd edition. New York. 1949.

Friis, Henning, *Scandinavia Between East and West*. Ithaca and New York: Cornell University Press. 1950.

Lauwerys, J. A. (ed.), *Scandinavian Democracy. Development of Democratic Thought and Institutions in Denmark, Norway and Sweden*. Copenhagen. 1958.

Shirer, W. L., *The Challenge of Scandinavia*. London. 1956.

Social Affairs Ministries of Denmark, Finland, Iceland, Norway and Sweden, *Freedom and Welfare: Social Patterns in the Northern Countries of Europe*. George A. Nelson (ed.). 1953.

Iceland

Anderson, Rheodore M., *The Icelandic Family Saga: An Analytic Reading*. Harvard Studies in Comparative Literature. No. 28, 1967.

Norway

Downs, Brian, *Modern Norwegian Literature*. Cambridge University Press. 1967.

Larsen, Karen, *A History of Norway*. Princeton and Oxford for the American-Scandinavian Foundation, 1950.

Storing, James A., *Norwegian Democracy*. Boston. 1963.

Sweden

Afzelius, N., *Books in English on Sweden*. Stockholm. 1951.

Andersson, Ingvar, *A History of Sweden*. London. 1956.

Andrén, Nils, *Modern Swedish Government*. Stockholm: Almqvist and Wiksell.

Gustafson, Alrik, *A History of Swedish Literature*. The American-Scandinavian Foundation. 1961. Contains an extensive list of English translations of Swedish literature.

Denmark

Danstrup, John, *A History of Denmark*. Copenhagen: Wivel. 1948.

Manniche, P., *Living Democracy in Denmark*. Copenhagen. 1952.

Mitchell, P. M., *A History of Danish Literature*. Copenhagen. 1957.

Ravnholt, Henning, *The Danish Co-operative Movement*. Copenhagen: Det dansk Selskab. 1950.

SOCIAL WORK

The American community grows more conscious of and concerned about human welfare each year. Technological advances, economic development and improvements in the quality of living are viewed for their contributions to human welfare rather than instruments of manifest destiny, power or progress per se.

This changing psychology, placing emphasis on human values, is in sharp contrast to the public opinion of a half-century ago.

As a result, social work is accepted as an important service in our society and social work programs, public and private in auspice, have expanded significantly. A concomitant growth of the social work profession has occurred to the point where there are about 45,000 professionals, but there are over 100,000 social welfare jobs in the professional and sub-professional categories.

The profession of social work is known primarily for service to mankind in many fields of practice. But, increasingly, the profession is also known for its scholarship.

Since the publication in 1917 of Mary Richmond's book, *Social Diagnosis*, the bibliography of social work has grown in numbers and sophistication. The last decade seems like a veritable avalanche of important writing.

Were we to roughly classify this recent outpouring of books and articles into categories, we could name at least four general classes of publications about:

(1) human social problems, such as poverty, discrimination, delinquency, disability and personal as well as social disorganization;

(2) social policy measures calculated to improve our society and the lot therein of all people, especially the deprived, despised and neglected ones;

(3) social work methods of helping individuals and families through social casework and social group work, and helping communities and agencies through social work administration-community organization;

(4) social welfare manpower and professional education.

We recommend that those who wish to keep abreast by reading begin with two basic source publications. These are: (1) *Encyclopedia of Social Work*, which contains chapters on all significant aspects of social work, with each chapter furnishing a selected bibliography should one wish to pursue that topic in depth; and (2) *Abstracts for Social Workers*, a quarterly publication giving reference to all the significant periodical articles.

The readings suggested below will be useful in broadening one's understanding of social work through some of the recent literature of good scholarship, although it may not provide a full range of works about social work. It is suggested one seek advice should the fuller range of readings be desired.

Abstracts for Social Workers. Quarterly. New York: National Association of Social Workers.

Bernstein, Saul, *Alternatives to Violence*. New York: Association Press. 1966.

Chambers, Clarke A., *A Seedtime of Reform*. Minneapolis: University of Minnesota Press. 1963.

Cohen, Wilbur J. and others, *Social Work Education and Social Welfare Manpower*.

DuBois, Rachel Davis, and Mew-Soong Li, *The Art of Group Conversation*. New York: Association Press. 1966.

Duvall, E. and S. (eds.), *Sex Ways - In Fact and Faith*. New York: Association Press. 1966.

Encyclopedia of Social Work. New York: National Association of Social Workers. 1965.

Feingold, Eugene, *Medicare: Policy and Politics*. San Francisco: Chandler Publishing Company. 1966.

Ferguson, Elizabeth A., *Social Work - An Introduction*. New York: Lippincott Company. 1963.

Geismer, Ludwig, and LaSorte, Michael A., *Understanding the Multi-Problem Family*. New York: Association Press. 1966.

Konopka, Gisela, *The Adolescent Girl in Conflict*. Englewood Cliffs, New Jersey: Spectrum Books-Prentice-Hall. 1966.

King, Clarence, *Working With People in Community Action*. A VISTA Kit Book. New York: Association Press. 1966.

Martin, John M., and Fitzpatrick, Joseph P., *Delinquent Behavior - A Redefinition of the Problem*. New York: Random House SS24. 1965.

Mahoney, Stanley C., *The Art of Helping People Effectively*. New York: Association Press. 1967.

Naylor, Garriet H., *Volunteers Today - Finding, Training and Working With Them*. New York: Association Press. 1967.

Pins, Arnulf M., *Who Chooses Social Work, When and Why?* New York: Council on Social Work Education. 1963.

Ross, Murray G., and Hendry, Charles E., *New Understandings of Leadership*. New York: Association Press. 1965.

Schottland, Charles I., *The Social Security Program in the United States*. New York: Appleton-Century-Croft. 1963.

Smith, Arthur Edmund, *Social Welfare: Principles and Concepts*. New York: Association Press. 1966.

The Social Welfare Forum. National Conference on Social Welfare. Columbia University Press. 1966.

Young, Whitney M., *To Be Equal*. New York: McGraw-Hill. 1964.

Youngdahl, Benjamin E., *Social Action and Social Work*. New York: Association Press. 1967.

Wright, Russell B. (ed.), *Our Troubled Children – Our Community Challenge*. New York: Edwin Gould Foundation for Children. 1966.

Will, Robert E., and Vatler, Harold G., *Poverty in Affluence*. New York: Harcourt, Brace. 1965.

Wittenberg, Rudolph M., *The Troubled Generation*. New York: Association Press. 1966.

SOCIOLOGY

Sociology, together with the other social sciences, represents a development in the intellectual disciplines of Western man intrusive between the humanities and physical sciences.

Since its establishment in the 19th century, sociology has continued to expand, and in the 20th century has become increasingly prominent in the liberal arts curriculum of the University. The expansion of the undergraduate teaching program in sociology in response to the widespread tendency by contemporary students to turn to the social sciences and, in particular, to sociology for orientation to the contemporary world, has given it a function that once sent Western man to the humanities.

As an academic discipline, sociology in large measure is an invention of the great universities of the American Midwest, where the first departments of sociology were set up and where the first graduate programs were established. After World War I, sociology departments in the coastal regions of the United States began to form in increasing numbers. The Harvard department, for example, was established only in 1930, and then by recruitment for this purpose of Pitirim A. Sorokin from the Minnesota department.

The formation of new sociology departments was slowed by the depression of the 1930's and by World War II in the 1940's. Hence, academic sociology came into the period of its flowering in the post-World War II period, with the formation of hundreds of new departments and expansion of hundreds of others. In the 1950's and 1960's, the formation of academic sociology departments both in European universities and in various developing countries, following the American example, has continued at an accelerated pace.

The dual heritage of sociology from humanism and from physical science has continued to be both a blessing and a curse, both in its internal service to universities and its expansion around the world.

The humanistic traditions of sociology have great appeal to the teachers and students in undergraduate courses. The scientific traditions of sociology have great appeal to the students and teachers in graduate courses. Unsolved problems between these traditions have often led to graduate and undergraduate pro-

grams which, in part, conflict with one another.

The scientific traditions of sociology are most attractive in their diffusion to old areas of Western culture, while the humanistic traditions of sociology are most attractive to many developing nations, such as India. International contrasts are one product of such differential reception. In America, the scientific-positivistic wing of sociology decidedly dominates the whole, though the humanistic wing is sustained by an articulate minority.

In American sociological theory, the two foremost positions are presented by Structure Functionalism (which is strongest on the East and West Coasts) and Social Behaviorism (which is strongest in the Midwest).

The first of these positions conducts its analyses of society from the standpoint of the presumed primary reality of the collective and the whole-part relations (functions) of its components.

Social Behaviorism conducts its analyses of society from the standpoint of the presumed primary reality of the individual and his actions, treating all collective formations as behavioral by-products. The major problem area of contemporary sociology in the minds of most students is social change. In the study of social structure, the single most significant trend is continuing concern with the large scale organization.

In the development of special sub-areas, the major development has been the tendency of the old "Social Problems" courses to split into a complex family of specialized studies, research areas and courses such as: The Sociology of Aging; The Sociology of Health; The Sociology of Medicine; The Sociology of Mental Health.

THE STATE OF SOCIOLOGY

Berger, Peter, *Invitation to Sociology*. New York: Doubleday-Anchor.

Sibley, Elbridge, *The Education of Sociologists in the United States*. Russel Sage Foundation.

Stein, Maurice, and Vidic, Arthur (eds.), *Sociology on Trial*. Englewood Cliffs, New Jersey: Prentice-Hall.

SOCIAL THEORY

Gross, Llewellyn (ed.), *Sociological Theory: Inquiries and Paradigms*. New York: Harper & Row.

Martindale, Don, *The Nature and Types of Sociological Theory*. Boston: Houghton Mifflin.

Martindale, Don, *Community, Character and Civilization*. New York: The Free Press of Glencoe.

Sorokin, Pitirim, *Recent Sociological Theories*. New York: Harper & Row.

SOCIAL STRUCTURE

Blau, Peter M., and Scott, Richard W., *Formal Organizations*. New York: Doubleday-Anchor.

Etzioni, Amitai (ed.), *Complex Organizations*. New York: Holt, Rinehart and Winston.

Martindale, Don, *Institutions, Organizations and Mass Society*. Boston: Houghton Mifflin.

SOCIAL CHANGE

LaPiere, Richard, *Social Change*. New York: McGraw-Hill.

Martindale, Don, *Social Life and Cultural Change*. Princeton: D. Van Nostrand.

Zollschan, George and Hirsch, Walter, *Explorations in Social Change*. Boston: Houghton Mifflin.

SOCIAL PROBLEMS

Cuber, John F., *The Significant Americans*. New York: Appleton Century.

Goffman, Erving, *Asylums*. New York: Doubleday-Anchor.

Martindale, Don (ed.), *National Character in the Perspective of the Social Sciences*. The Annals of the American Academy of Political and Social Science. Vol. 370, March 1967.

Vold, George, *Theoretical Criminology*. New York: Oxford University Press.

Ward, David A., and Kassebaum, Gene C., *Women's Prison: Sex and Social Structure*. Chicago: Aldone.

SPEECH, COMMUNICATION & THEATER ARTS

Our discussion of new trends and our list of new books are both divided in a way that corresponds to the three major divisions of our department—Public Address, Speech Science, and Theatre Arts.

Public Address, Broadcasting, Interpretation, Communication

Several new books as well as articles in professional journals indicate a revival of interest in speech criticism.

Our field has long stressed speech criticism, but there seems to be new emphasis on its application to contemporary public address and on connecting speech criticism closely to undergraduate teaching. The literature indicates that perhaps teaching speech to undergraduates is becoming more like graduate education—more theoretical, analytical and experimental, with less emphasis on speech performance.

Oral interpretation seems to be expanding greatly at the graduate and undergraduate levels. National and regional conventions are devoting more meetings to the professional discussion of oral interpretation, and this discussion indicates that the numbers of students taking courses in the area are growing. Oral interpretation, too, seems to be shifting in emphasis to the point that less attention is given to performance than formerly, although the shift may be only from solo to ensemble or group reading techniques.

The department's Second Annual Symposium on Communication was held in May under the direction of Professor Donald R. Browne. The topic was "The Public's Responsibility Toward Broadcasting." Speakers were drawn from the broadcast industry, broadcast education, the Federal Communications Commission,

and public interest groups.

Theatre Arts

The living stage continuously explores its function as a mirror of man: professionally and elegantly produced classics and contemporary plays refine one standard by which audiences and non-commercial theatres may be judged; college, university, and community theatres provide vital, immediate theatre experiences for their students and members; and "underground" theatre probes theatrical and dramatic form and content through "happenings," "events," and other examinations of the possibilities of "total theatre."

The education of stage artists in leading universities now includes BFA and MFA programs which focus specifically on the professional training of actors, directors, playwrights and designers. Hopefully, the graduates of these programs will furnish the continuing lifeblood of the new resident theatres throughout the country. In time, it is not inconceivable that American theatre will be decentralized from New York, with many stages throughout the country serving as regional focal points of activity, each with its distinctive style, goals and techniques.

Drama itself seems to be re-adjusting its sights; after a binge of Absurdist Theatre, many of the established, as well as the younger, dramatists are less concerned with psychological probings and with self-identity, and more inclined to evaluate the world around them.

This has taken the form of protest plays (reminiscent of the Thirties), of improvisational drama in which the actors are called upon to give immediateness to the theatrical matters at hand, of plays which look upon the theatre as a laboratory for testing social and political theses, and of dramatic pieces which both attempt to extend theatrical experience beyond the formal stage and auditorium and utilize new materials and techniques to produce startling effects for otherwise complacent audiences.

In short, the theatre of the Sixties most assuredly is in ferment and full of great expectations; only time and audiences will be able to tell if all the "sound and fury" is meaningful and lasting.

PUBLIC ADDRESS, BROADCASTING, INTERPRETATION, DEAN, COMMUNICATION

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STUDIO ARTS

The Department of Studio Arts is a new department formed last July, and is devoted solely to the Fine Arts.

Five areas of study are offered: painting and drawing, sculpture, ceramics, printmaking, and photography and film. A graduate MFA degree is offered by the department and in the fall of 1968 a new undergraduate degree, the BFA, will be available to students who wish to major in art.

A large offering of art courses is offered each year to current students and postgraduates in the Extension classes held in the West Bank Campus Art Building. Any course offered by the department is available to students, and classes are taught by regular staff members.

We have current exhibitions of art work on display in the Art Building, and a committee within the department that selects exhibitions and discusses art programs that are held in Coffman Memorial Union Gallery. This is of interest to people in all areas, as Faculty Art Shows from universities and colleges throughout the state are included.

Through the offering of classes in painting, printmaking, photography, drawing, sculpture and ceramics in the evening classes, and with an expanding policy of exhibitions, we feel that many alumni will find the Studio Arts a contributing force in their plans for "continuing education" at the University.



PHILLIPS

(Continued from page 5)

generous contributions and his fund-raising efforts.

One of the most highly respected businessmen in the Upper Midwest, Phillips was elected president of the Greater Minneapolis Chamber of Commerce in 1961, and now serves as a director. He is one of two persons in the Twin Cities who personally owns a seat on the New York Stock Exchange, and is a director of the First National Bank of Minneapolis, and North Central Airlines. He also is chairman of the board of Century Metalcraft Corporation, Los Angeles, and a director of National Presto Industries, Inc., Eau Claire, Wisconsin, of

Twenty-six junior honor students and their counselors from six Rice County, Minnesota, schools were guests recently at the annual meeting of the Faribault Chapter of the Minnesota Alumni Association. More than 75 attended the dinner and heard as guest speaker Professor William McDonald, director of the University Honors Program. Master of ceremonies was Robert Burke '55GC, president of the Chapter and Faribault recreation director.

which his brother, Lewis, is chairman of the board.

During his busy career he has been a director, trustee, or has held responsible office in more than thirty organizations. Currently he is a fellow and trustee of Brandeis University, a director of the Minneapolis Symphony Orchestra, the Minneapolis Federation for Jewish Service and the Minneapolis Chapter, Boy Scouts of America. His wife, Rose, shares her husband's humanitarian views and is, herself, a woman of many philanthropies.

On the wall of Phillips' office is a collection of philanthropic and civic plaques and awards representing the honors which have come to him throughout his lifetime. To Phillips, the value of these honors lies primarily in the attention attendant upon them, which he hopes will encourage other people to participate in community philanthropies and enjoy the pleasure of sharing.

As he says, in his quiet way, "I get a kick out of it. It adds joy to living."

"Music at Minnesota" Summer Session Highlight

An exciting leap into the field of the performing arts was taken last year by the University. Summer Music at Minnesota, a comprehensive program designed for the artist, student and listener, offered a new dimension to music education throughout the Upper Midwest.

A second giant step is about to be taken. Summer Music at Minnesota will be expanded this year to the full term of the first Summer Session.

A popular feature of last year's program, Music 60, will be offered again this summer. The nine-session course, entitled "An Introduction to Orchestral Repertoire," may be taken for credit or audited.

The full Minneapolis Symphony Orchestra will be utilized during the course, in addition to performing groups from the Contemporary Dance Studio, Summer Session Chorus and chamber music ensembles composed of Symphony musicians. Study will concentrate on the influence of dance movements on classical composers; the dimensions of chamber music from the Middle Ages to the Renaissance and Gothic eras; and full orchestra demonstration of sound patterns that have altered the language of music.

Lectures, to be conducted Tuesday and Thursday evenings, beginning June 13, will be given by George Trautwein, associate conductor of the Symphony; Arnold Caswell, professor of music education; Paul Fetler, professor of music; and Elliott Carter, noted American composer.

Carter and Stanislaw Skrowaczewski, musical director of the Minneapolis Symphony, will co-direct a five-day Contemporary Music Workshop during the summer program. Workshop members will attend Symphony rehearsals

designed to illustrate Carter's lectures. Focus will be on the compositions and devices used by the contemporary composer in writing for the symphony orchestra.

Two new features of the 1967 Summer Music at Minnesota program will be a High School Music Teachers' Workshop and an Opera Workshop. The former will involve 40 music teachers in an intensive five-week program of study and performance.

The Opera Workshop is a joint effort of the University Music Department and the Center Opera Company, and will be conducted at the MacPhail Center for the Performing Arts. It will offer training for singers on both beginning and advanced levels, plus training in body movement, stage direction and individual and group ensemble work.

Elementary and secondary music education workshops also will be held to acquaint teachers with new approaches to contemporary music through reading and listening.

Prospective eleventh and twelfth grade high school students will be on campus for four weeks of the program. The gifted young musicians will receive college-level instruction in music literature, theory and creativity, as well as individual and group instruction for voice and instrument.

Five outdoor performances by the Minneapolis Symphony Orchestra will be presented on Friday evenings during the Summer Music at Minnesota program. The Family Twilight Concerts will be held at Memorial Stadium, and the Orchestra will play from the new, 16,000-square-foot stage of a portable Wegner showmobile.

Olympic Trials Here in July

The cream of men and women athletes from all over the United States—some 600 in all—will be in the Twin Cities area July 2 to 19 to compete in the U.S. Trials for the Pan-American Games to be held July 22 through August 7 in Winnipeg.

Completed earlier this year were the U.S. Pan-American basketball trials. The all-star team selected from these trials will engage in several exhibitions during the July 2-19 period.

The Trials, hosted by the University, come to this area for the first time in history. The Olympic Committee estimates that at least three-fourths of the athletes selected for the U.S. team to compete in Winnipeg will represent this country in the 1968 Olympic Games in Mexico City.

A total of 31 committees are engaged in planning for the Trials. Of these, 11 are special planning committees and 20 are individual sports committees. More than 600 persons are involved in the committees, including some 25 University staff members.

Final trials in the following sports will be held in the Twin Cities area: athletics (track and field) for men and women, July 15-16; boxing, July 6-7; yachting for men and women, July 6-15; gymnastics for men and women, July 8-9; judo, July 7-8; wrestling, July 2-15.

Teams in the following sports will be determined by committee action: baseball, women's basketball, men and women's diving, men and women's swimming, men and women's volleyball, and weightlifting.

Trials to be held elsewhere are field hockey, rowing, shooting, soccer and water polo.

Track and field events will be held in Memorial Stadium.

Malkerson Heads Board of Regents; Mayo Steps Down

The University Board of Regents last month elected Honorable Lester A. Malkerson '35BAgE its new chairman, succeeding Honorable Charles W. Mayo '31MSSurg, who resigned the chairmanship he had held since 1961.

Dr. Mayo is the first Regent in 20 years to resign as chairman before the end of his Regency term. He indicated, however, that he would fill out the remaining four years of his term as Regent.

Honorable Marjorie J. Howard '24BA was re-elected vice chairman of the Board of Regents.

In resigning, Dr. Mayo also resigned as head of the Regents' nominating Committee, the group to select candidates for the University presidency. The Board of Regents last month approved a new committee composed of Regents Albert V. Hartl, chairman; Otto A. Silha '40BA, Fred J. Hughes '34LLB and Elmer L. Anderson '31BBA.

Hockey Schedule Opens November 7

A 28-game hockey schedule—including 15 in Williams Arena and 13 on the road—has been announced for the 1967-68 season.

The Gopher play an intra-squad preview game on Tuesday, November 7 and will meet an alumni team on Saturday, November 11 before opening their league schedule against UMD in a single game at Duluth on November 18. First conference foe at Williams Arena is Colorado College December 1 and 2.

Highlight of the home schedule will be the Big 10 Tournament in Williams December 28, 29 and 30. The Gophers will face Colorado College, North Dakota, Michigan State, UMD and Michigan in conference games at home. The University of Wisconsin will make a two-game stand at Williams on February 9 and 10.

JUNE, 1967

19 Faculty, 80 Staff Will Retire

When the annual Faculty and Staff Retirement Party at the University was held last month in the Frederick Mann Court in the Architecture Building, 99 faculty and staff members were honored for their total of 2,191 years of service to the University.

The list of names of those retiring during 1966-67 includes 19 faculty members with 752 years of service and 80 civil service employees who have been employed at the University for a total of 1,439 years.

Topping the list of faculty members, in matter of longevity of service, are six with 40 or more years: Professor Gertrude Gilman, director of University Hospitals (through last December 31), 46 years; Professor Mary E. Malcolm, music department, 45 years; Professor Helen Hart, department of plant pathology and physiology, UMD, and Professor Richard L. Kozelka, business administration, each with 44 years; Dr. Owen H. Wangenstein, professor and head of the department of surgery in the College of Medical Sciences, 42 years; and chemistry Professor Robert S. Livingston, 40 years.

Retiring after 30 or more years on the University faculty will be Neith E. Headley, assistant professor of elementary education, and Ione Jackson, associate professor of dentistry, both with 39 years; Theodore S. Weir, associate professor and assistant superintendent of the Excelsior fruit farm, 38 years; Harold D. Smith, director of University Bookstores, 37 years; and Professor Lawrence R. Boies, otolaryngology, and Willem J. Luyten, astronomy, each with 36 years.

Two West Bank Buildings Named

Two West Bank buildings were named in honor of two distinguished faculty members in dedication ceremonies last month.

The West Bank Classroom Building was named Blegen Hall in honor of Professor Theodore C. Blegen '12BA '15MA '25PhD, dean of the Graduate School from 1940 to 1960 and history department faculty member from 1927 to 1960.

A new classroom building now under construction was named Anderson Hall in honor of William Anderson '13BA, member of the political science faculty from 1916 to 1957 and chairman of that department for 17 years.

Both men are recipients of the University's Outstanding Achievement Award, Anderson in 1959 and Blegen in 1962.

Natural History Museum Re-named For James Bell

The Minnesota Museum of Natural History last month was re-named in honor of the late James Ford Bell '01BA, former University Regent and major contributor to the Museum.

The founder of General Mills, Inc., Bell served on the Board of Regents from 1939 until his death in 1961. A lover of the outdoors, he financed the major part of the construction of the Museum in 1940 and contributed many specimens and exhibits. The Museum had been housed in a number of Campus locations since its beginning in 1875.

He also spearheaded a drive to raise funds for the new annex in 1960, contributing \$25,000 of the more than \$300,000 which was raised. The State Legislature provided additional funds.

1967 Williams Fund Sets \$100,000 Goal

The University kicked off its 1967 Henry L. William Scholarship Fund drive last month with sights set on a \$100,000 goal, the highest in the Fund's 19-year history.

Last year's Williams Fund drive raised a record total of \$74,714, eclipsing the goal of \$66,000 by more than \$8,000 and exceeding by \$24,000 the previous high.

THE ALUMNI



Dr. Paul H. Cashman (right), assistant vice president for educational relationships and development, was guest speaker at the annual meeting of the St. Cloud, Minnesota, Chapter of the MAA recently. Pictured here with Cashman are (left to right) Jerry Weyrens, vice president; Ray Galarneault '59BA, newly-elected Chapter president; Dr. John Pike '33DDS, immediate past president; and Mrs. Mary Weyrens '63BSHE, secretary-treasurer.

Moorhead-Fargo Elects Gunhus

Gunder Gunhus '53LLB has been elected president, Perry Clark

'47BArch, vice president, and Mrs. Neal Bradburn '48BSMedTech, secretary-treasurer, of the Moorhead-Fargo Chapter of the Minnesota Alumni Association.

Members of the 1967-68 board of directors are Dr. John Wilson '50DDS, Jacob Kiefer Jr. '56BA, Ed Kolpack '49BA, Don Brodale '49BBA, Homer Saetre '50LLB, Mrs. Vincent Murphy, Carl White '41LLB, Alden Gjevre '58LLB and Frank Knox '42LLB, ex officio.

1937 MB's Plan Thirtieth Reunion

Members of the Class of 1937 Medical School MB's will hold their 30th Reunion next fall in conjunction with the Minnesota-Michigan State Homecoming Game on October 21.

Headquarters for the reunion will be the new St. Paul Hilton Hotel.

Chairman of the Reunion Committee is Dr. Lloyd S. Sherman and co-chairman is Dr. Lyle J. Hay.

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Dr. Milo J. Peterson '34BSAg, professor and chairman of the department of agricultural education, is shown here with officers of the Pope County Chapter of the MAA at their recent annual meeting. Pictured (left to right) are Mrs. Harold Irgens '48SchSocWk, vice president; Peterson; H. M. Halverson '57MAEd, president; and Lowell Doebbert '49BAAgEd. Not pictured is Jack Morris '62BSAgEd, newly-elected secretary-treasurer.

Hokenson Heads Dayton Alumni

Lynn N. Hokenson '44BME has been elected president of the Dayton, Ohio, Chapter of the Minnesota Alumni Association, replacing John S. McCollom '42BAE.

Other officers, elected recently at the second annual Spring meeting of the Chapter, are Kenneth Underwood '50BEE, vice president, and James Micklos, secretary-treasurer.

Board members are Richard L. Warner '46MA and Edwin Hanson, one year; Melvin Reid '22BSPhm and Dr. H. S. Gogstetter '22DDS, two years; and Joseph Ranta '56BSFor and John E. Graff, three years.

On November 11 the Chapter will sponsor a bus trip to the Minnesota-Purdue football game in Lafayette, Indiana.

Carlton County Chapter Elects

James Wolner '48BA has been elected president, Loren Palmer, vice president, and Elizabeth Anderson, secretary-treasurer of the

Carlton County Chapter of the Minnesota Alumni Association, Cloquet, Minnesota.

Members of the board of directors are Harry Newby Jr. '65LLB, William Grovelle, Dick Schantz-Hansen, Frank Raushel '50BME, Jean Vossen '64BSHE and Harvard Dyvig. Lyle McGladry '28BME, immediate past president, will serve ex officio.

Fund Contributors Listed

Alumni contributors to the Minnesota Alumni Fund, whose names were inadvertently omitted in the 1966 Honor Roll of Contributors, include:

Selma L. Apman, Bozeman, Montana
 Kate C. Beals, La Jolla, California
 Ruth C. Breiseth, Kenosha, Wisconsin
 H. Donald Campbell, New York, New York
 W. N. Matheson Jr., Bridgeville, Pennsylvania
 Dr. Leif R. Strand, Wayzata, Minnesota
 Eva Tripp, Minneapolis
 Stuart V. Willson, Altoona, Wisconsin

Mortuary Science Holds 25th Reunion

A contribution of \$370.00 to the Silver Anniversary Fund — the largest amount ever contributed to the Mortuary Science Class Fund — was the highlight of the Silver Anniversary Reunion of the Class of 1942 last month at the Radisson Hotel, Minneapolis.

Several Class members who were unable to attend the reunion may send their gifts to Professor Robert Slater, Silver Anniversary Class Fund, 205 Coffman Memorial Union, University of Minnesota, Minneapolis 55455.

Checks can be made payable to the Alumni Fund and are, of course, tax deductible.

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Miami President



Earl R. Truax '48BA, promotion manager of the Miami Herald Publishing Company, has been elected president of the newly-organized Miami Chapter of the Minnesota Alumni Association.

Other 1967-68 officers are Merle Litman '53LLB, vice president; Mrs. Ruth Meyers, secretary; and Gerald L. Sicard '65BSEd, treasurer.

Board members are Mrs. Bernard Marder '45BA and Dr. Ted Berman '31MD, one year; Alan L. Linoff '56BA and Richard Hausler '47LLB, two years; William E. Loucks '43BME and Dr. Luke Rader '44BA, three years.



Carmen N. Richards '13BA, Dunedin, Florida, is shown here receiving the Alumni Service Award from University Vice President Stanley J. Wenberg. The award was presented last month at the annual meeting of the Minnesota Alumnae Club in St. Paul. Mrs. Richards joined the Alumnae Club in 1945 and served in many offices, including the presidency from 1958-60. In 1964 she moved from Minneapolis to Florida, where she organized the Suncoast Chapter of the MAA and became its first president, a position she still holds.

Medical Technology Elects First Officers

Mrs. Patricia Bordewich '52BS '62MS, an assistant professor in the University's department of laboratory medicine, has been elected president of the newest constituent

group of the Minnesota Alumni Association, the Division of Medical Technology Alumni Association.

Other officers for the coming year are Mrs. Frances Hanson '31BS, vice president, and Mrs. Jean Sampson Rushay '50BS, secretary-treasurer.

Members of the first board of directors are Gordon H. Herbst '56BA '58BS '65MS, Mrs. Charlotte Buchen '35BS and Mrs. Babbette Rosen '42BS, one year terms; Mrs. Artis M. Lott '38BS, Mrs. Mariellen Palm '44BS and Mrs. Barbara G. Cohen '57BS, two year terms; Mrs. Bordewich, Mrs. Hanson and Mrs. Rushay, three year terms.

Joseph Karesh Heads Northern Californians

Joseph Karesh '29BA has been elected 1967-68 president of the Alumni Chapter of Northern California, San Francisco.

Other officers for the coming year are Robert E. Parker '43BA, vice president, and Maurice J. Nelson '61LLB, secretary-treasurer.

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New officers of the Marshall, Minnesota, Chapter of the Minnesota Alumni Association are (left to right) Bruce V. Pierard '31LLB, president; Mrs. Roy Enquist '60Nurs, secretary-treasurer; and Dr. Owen Germundson '61DDS, vice president. New board members elected include F. J. Meade, B. A. Bisbee '22BSEE and Mrs. Perry Banks '59BSHE. Other board members are James Wetherbee, Mrs. Josephine Soustegard, Tom Osterberg and George Minehart, ex-officio.

Los Angeles Alumni Elect William Koch

William H. Koch, Canoga Park, California, has been elected president of the newly-reorganized Alumni Chapter of Southern California.

Goal of the Chapter is to reach the some-3,000 Minnesota alumni living in the area.

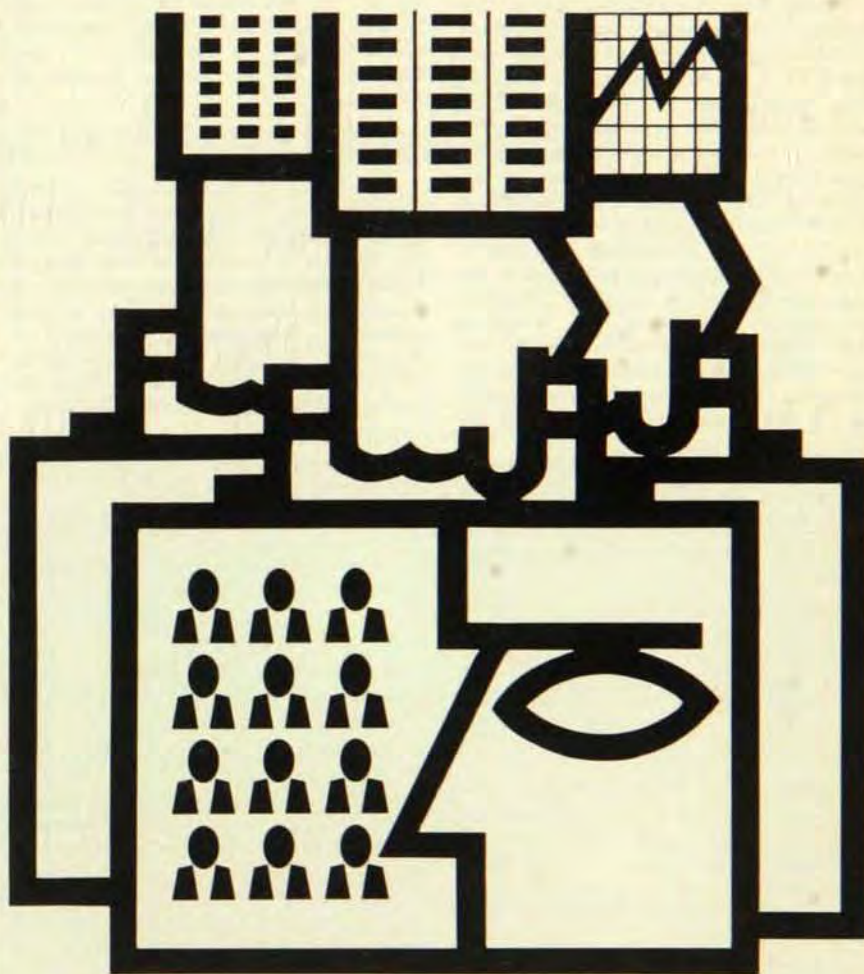
Other officers for the coming year are William Mich '47BBA, Pasadena, vice president; Oscar Inouye '49BSEd, North Hollywood, secretary; and Judith Widlund '59MA, Temple City, treasurer.

Members of the board of directors elected last month are Charles Baston '42BAeroE and Francis Koppala '63BBA, one year; Warren Collins '33BEE and Dennis Donovan, two years; Ich Takahashi and W. S. Caldwell '43PhD, three years.

Alumni in the area wishing information may contact Koch, 19915 Roscoe Boulevard, Apt. 24, Canoga Park, telephone 341-5167; or Sherry Smith '66BSUMD, membership chairman, at 1631 North Allen Avenue, Apt. 18, Pasadena, telephone 797-8081.

JUNE, 1967

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DEATHS

Rewey Belle Inglis '08BA '23MA, first woman ever to receive the University's Outstanding Achievement Award, died April 29 at age 81. She headed the English department of University High School from 1915 to 1931 and was an assistant professor in the College of Education from 1923 to 1931. She was co-editor of three English textbooks and in 1929 became the first woman president of the National Council of Teachers of English. She was a past president of the Minneapolis YWCA board of directors, Minneapolis Branch of the American Association of University Women and the Minneapolis Council of Church Women. She also served as a member of the MAA board of directors and last March was named an honorary permanent member of the national board of directors of the YWCA.

Hilda S. Nystrom '09BA, Minneapolis, died May 15 at age 80. She was a retired school teacher.

George Brohaugh '10BAEd, St. Cloud, died April 20 at age 86. He was superintendent of schools at Willmar, Minnesota from 1919 to 1929. He retired in 1929 but returned to teaching at Alexandria from 1942 to 1948 when he moved to St. Cloud to operate a woodwork shop.

Ingvar Husby '15BSAg, Minneapolis, died May 8 at age 80. He founded the Salt Supply Company and retired five years ago after 39 years with the company. He was a 50-year member of the "M" Club, lettering in basketball in 1913 and 1914.

Dr. Walter S. Broker '18MD, Battle Lake, Minnesota, died February 25 while spending the winter in Florida. He was 70 and was in general practice for many years in Battle Lake, also serving as superintendent of the Otter Tail and Fair Oaks sanatoriums in the area.

Dr. John L. Mulder '18MD, Salmon, Idaho, died December 21 at age 75.

Harold Parker '19LLB, Wadena, Minnesota, died May 6 at age 72. Since 1950 he had been president of the First National Bank of Wadena, where he was a lifelong citizen and participated in several civic activities and service organizations.

Harrison Schmitt '21BA '22MS '26PhD, a consulting geologist for major mining firms, died last fall at age 70. A Harrison Schmitt Memorial Fund recently was established at the University of Arizona to aid other students of mining and geology. Since 1957 he had worked in the rich mining area of southwestern United States, at the Esperanza Mine near Tucson, Arizona. He was a member of the Western New Mexico University

Board of Regents from 1961 to 1964 and served as its president.

Dr. Ernest A. Olson '23MD, Pine Island, Minnesota, died January 23 at age 67. He maintained his practice until he was hospitalized 10 days before his death. In 1965 he was honored by the community for 41 years of practice in Pine Island.

Elmer O. Peterson '23BBA died December 9, 1966.

Dr. Arthur C. Kerkhof '25BS '27MB '28MD '31MS '35PhD, prominent Minneapolis cardiologist, died last month at age 63. He was a member of the national board of directors of the American Heart Association and was chairman of the American Therapeutic Committee on Education. He also was past president of the Association of Minnesota Internists and of the Minnesota Heart Association.

Dr. Victor M. Vaughan '27MD, Truman, Minnesota, died January 26 at age 68. He was a general practitioner.

Waldo Edwardson '27BSPhm, Columbia Heights, Minnesota, died March 8. He was a life member of the Minnesota Alumni Association.

Hiram E. Barg '28BSEd, Milwaukee, Wisconsin, died last July 28 at age 65. For 20 years he was assistant director and business manager of the Milwaukee Vocational School.

Dr. Frank D. McKenney '31MS, San Diego, California, died February 5 in a San Diego hospital at age 61. Since 1941 he had been director of the Biological Institute of the San Diego Zoological Society and since 1943 also had conducted his own pet hospital. He was president of the San Diego County Veterinary Association in 1943 and for two years was a delegate from that organization to the California Veterinary Medical Association.

Roger J. Cumming '32BA, Washington, D.C., died April 29 at age 57. A 1965 recipient of the University's Outstanding Achievement Award, Cumming was chief of social work research at the Veterans Administration Department of Medicine and Surgery. He joined the VA in 1947 and was director of social work until 1964, when he left to become chief of the Community Resources Section of the Social Security in Baltimore. He assumed his most recent position last January. In 1940, while working as a lecturer and personnel officer in the Minnesota Welfare Department, he was named one of the 10 most outstanding young men in Minnesota.

Dr. William Rademaker '35MD, Tacoma, Washington, died April 26, 1966.

Dr. William T. Walsh '38MD, Wayzata, Minnesota, died April 6 at age 56. He was former chief of staff of St. Barnabas Hospital, Minneapolis.

Dr. Leonard E. Rothman '39MD, Mil-

waukee, Wisconsin, died March 15 at age 54. He was co-founder of the Medical Surgical Clinic in Milwaukee.

Warren W. Kilbourne '36-'39, St. Paul, died May 16 at age 50. From 1936 to 1938 he was a tackle on the Minnesota football squad and played as a tackle for the Green Bay Packers from 1939 to 1941.

Mrs. Eva C. Townsend '39BSEd, Minneapolis, died May 16 at age 78. She was a retired teacher.

Marvin W. Horstman '41BSEd, Faribault, Minnesota, died last month at age 51. Since 1944 he had been headmaster of St. James Episcopal School for Boys.

Donald E. Hunder '46LLB, Minneapolis, died April 20 at age 45. A blind Minneapolis attorney, he was secretary of the Minnesota Organization of the Blind and president of the Braille and Sight Saving School Alumni Association. He also was a member of the Governor's Advisory Commission on Services to the Blind and was active in other organizations for the blind.

Richard Moll '53MA, a psychology professor and researcher at Georgia Tech, died April 6 in Atlanta, Georgia.

Richard J. Davis '54-'56, a U.S. Army captain, recently was killed in Vietnam. Davis, a company commander in the engineer corps of the 1st Cavalry Division, died of wounds suffered May 10 when he was hit by sniper fire. He was a 1961 graduate of the U.S. Military Academy at West Point.

Neal L. Foker '57BA, U.S. Army captain, died last April at Ft. Bragg, North Carolina. Foker, 37, was a career Army officer and in January 1966 was awarded the Bronze Star medal for meritorious service in Vietnam.

FACULTY

Henry E. Hartig '18BSE '24PhD, Robbinsdale, Minnesota, former chairman of the department of electrical engineering, died April 21 at age 75. He retired from the University in 1960 after being a faculty member for 41 years. He was department chairman from 1946 to 1956. He was a fellow and past chairman of the Institute of Electrical and Electronics Engineers and a fellow of the Institute of Radio Engineers.

Harold A. Whitaker, Minneapolis, died May 1 at age 84. He was former director of the sanitation division of the State Health Department and former professor of public health engineering at the University. He also had served as consultant to the World Health Organization in Geneva, Switzerland, and had received the first annual Harvey G. Rogers Award for work to preserve the quality of Minnesota's water resources.

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Last year, thanks to Paul Meyers and his fellow-instructors, 116,000 men completed almost 2.5 million man-hours of instruction at the 30 GM Training Cen-

ters from coast to coast . . . the largest automotive training network in the world.

It's another reason why you get a better buy in a General Motors car. When it comes to service, General Motors is doing something about it.

Paul Meyers, instructor, GM Training Center, Warren, Michigan



Are you travelling
on business, Mr. Tannen?



Mr. Tannen may be nine years old to his mother but he looks like a professional traveller to us.

And a pretty big spender when it comes to plane tickets.

So we've put in any number of services he won't find down the street.

A 30-million-dollar reservations computer, for instance.

Just to keep people from wandering around our terminals muttering.

This computer keeps track of every seat we have and everybody with a ticket and everybody on standby.

And the bowl of chili you ordered. And the rental car you want waiting. And even the airline you're connecting with.

We run this airline with the heavy traveller in mind.

The "full treatment" is the

only treatment we have.

So the moment a Travel Agent booked Mr. Tannen on American, he looked big for

his age to us.

All right, Mr. Tannen, put down that cocktail list and drink your ginger ale.

American Airlines

The airline built for professional travellers. (You'll love it.)