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1971 DECEMBER

alumni news

UNIVERSITY OF MINNESOTA



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alumni news

UNIVERSITY OF MINNESOTA

DECEMBER 1971

VOL. 71, NO. 4

in this issue

The 1971 December issue features MINITEX, the Minnesota Interlibrary Teletype Exchange, a bold, innovative program designed to share the resources of the University of Minnesota Library with nearly every citizen in the state. Through MINITEX the University has moved into the future of meeting Minnesota's higher educational demands.

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ALUMNI REACTION

A FEW OBSERVATIONS ON MINNESOTA FOOTBALL

In the last Alumni News you were trying to explain the lack of interest in University Sports functions, especially football. Perhaps a few observations might be in order.

First the colleges are trying to play like the pros and are not succeeding. If we want to see pro football we have plenty of opportunity. I go to college games to see college football, but it has been ruined by the payment of players, the recruitment from all over the country, and by the coach calling all the plays, sometimes, it seems to me and others, rather stupidly. The recent Michigan game for example.

Second, the abandonment of alumni priority for tickets. This was a mistake and immediately caused many alumni who wanted single game tickets to drop Minnesota football from their plans. I can see the present priority system for season tickets, *provided it is enforced*. There are many sitting in Sections 24, 25 and 26 who are relative newcomers, while many long-time supporters without, shall I say "influence," are still sitting in Sections 22 and 23. I cannot cite cases, but I do know friends who have found it impossible to get moved even though they have been long-time supporters. I think a very careful check should be made of the season ticket program to see that University Alumni have preference when openings occur, over the general public and even supporters of the Williams Fund and other cash contributory programs.

Third, I feel some priority system for University Alumni should be worked out for single game tickets. Perhaps Sections 26 (not presently taken by season tickets and visiting game tickets) could be set aside for Alumni up to say the Monday before the game. If there was demand enough Sections 27 and 28 could be handled the same way. Returns from visiting teams could perhaps be included. It is a sorry state when University Alumni wanting single game tickets can write to the out of state team and buy better seats than they can get at home.

Perhaps a program of this type would help bring back the at-present disgruntled alumnus for at least a few games.

Giving the game back to the kids and letting the quarterback run the team without the continual shuffling back and forth of a player with instructions would also help make the game more interesting.

With a few exceptions I have seen every Minnesota home game since 1918 and expect to see many more as long as my legs will carry me up to the top of the Stadium. I do hope, though, that they will give the game back to the kids.

Larry Clark '22BSB
Edina, Minnesota

WHAT'S WRONG WITH MINNESOTA FOOTBALL?

What's wrong with Minnesota football? Here is the gist of the talk at our coffee table:

1. Start with a new coach, who wants the boys to hate him;
2. One who wants to win and can fire the fellows up to win;
3. Who can use imagination in calling plays, like *not* kicking on fourth down (especially when the other team is ahead by three or four touchdowns anyway);
4. Who can take *our own State* boys and teach them to mash and bash and move that ball. To get in there and *work*, damnit *work*.
5. Who won't alibi every week that the boys were either UP or DOWN, ON or OFF;
6. Who can drill, drill, drill and work, work, work until half the squad quits — then make a winning team out of those who didn't.

Additional Ideas:

1. If you *really* don't care to win, don't have a team;
 2. Never hire another coach like Wes Fesler;
 3. Nothing personal against Murray Warmath — but we can field a winning team out of Minnesota boys alone just like Bernie did — no need to recruit all over the country.
- Donald W. Steinkraus, '48BSAg
White Bear Lake, Minnesota

WARMATH FOOTBALL IS DULL, DULL, DULL!!

I have been concerned for some time, as I am sure many alumni have, with the status of football at the U. Your editorial is the best analysis of the situation I have seen and brings up many very pertinent points. In my book two factors far outweigh any of the others — one you mentioned and one you didn't. The first is the problem of getting decent seats. I have averaged one game a year with my family and until you helped us

out this year the seats have always been in the bowl — a dismal place to watch a football game.

The point I felt you skirted in your editorial is the fact that Warmath football is dull, dull, dull!! It wouldn't be so bad if it was winning football, but it is not. Obviously, I am speaking merely for myself, but I know many many Gopher alumni who feel the same way. Most of us would still rather go to a Gopher game than to the Vikings, Northstars, or what have you. Give us a winning team and some chance to get decent tickets and we will be back in droves.

Thanks for letting me vent my spleen.

J. R. Sjolander '50BChem
St. Paul, Minnesota

ON THE PULSE OF THE REAL TROUBLE . . .

Several of us in this area have read your editorial "Points of View" in the November issue. We feel you have not put your finger on the pulse of the real trouble.

Once Minnesota was a power to be feared by everyone, and it could be again — IF you played some

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THE WATERBIRD FLEET

ALUMNI REACTION

interesting, exciting and inspiring football, instead of the inept-robot-like type of ball that has been played for near 18 years. What really puzzles us is how this condition could exist for so long!

You draw an example with Wisconsin. We don't agree. Wisconsin has the Packers and Milwaukee Bucks for professional competition, and the short distance from Madison today with "I" highways and big cars is not a deterrent. Further, the Packers have state-wide T.V. coverage, which is absent in the Twin Cities.

This season Wisconsin has averaged 68,130 customers per game. This is certainly due to the type of football they are playing, despite the fact that they are not winning all their games. Elroy Hirsch has put new blood and inspiration into the school. They will be a power to watch.

Our simple solution for the anemia at Minnesota is acquire a coaching staff that can again produce an old-

style "Giants of the North" team that will gain the respect and fear of all opponents. Enough of character building!

*Jos. E. Kratt 25BA
LaCrosse, Wisconsin*

UNITED ACTION IS CALLED FOR NOW!

Just a note to compliment you on the most wonderful article in the November issue of the Minnesota Alumni News. I have never seen a more intelligent report on an athletic situation. Certainly, everything you say in that article is completely true, especially the final phrase where united action *now* is called for.

I agree with you, also, that the Minnesota situation is extremely unique and that Marsh Ryman and his staff have done everything possible to rejuvenate the program. Although I have only been associated with Marsh some two and one-half years, I find him to be a very astute businessman and a leader among the Athletic Directors in the Big Ten. On the theory that the Conference is only as strong as its weakest link, I sincerely hope all Minnesota alumni will rally and be individually concerned about the future of athletics at Minnesota.

*Elroy L. Hirsch, Director of Athletics
University of Wisconsin*

THE REPORT WAS GREATLY EXAGGERATED

Regarding the item in the current issue of the Alumni News (1971 November) stating that I died on May 10, I must say (like Mark Twain in similar circumstances) that the report was greatly exaggerated. The compiler of your obituary section must have heard or read of the death on that date of my wife, Mary B. Wilson, and misunderstood the announcement as referring to me. However, I don't think that you reported my wife's death, she being a graduate of the University of Wisconsin.

At any rate, I am still in circulation and more or less actively practicing law — as witness the enclosed clipping anent the luncheon in honor of my 85th birthday arranged by the firm with which I am associated. If you want further proof of my continued existence I can produce my driver's license, recently renewed for another four years, with my doctor's approval.

Of course, life at any age is uncertain, and for all I know I may be knocking at St. Peter's gate before this letter reaches you. However, here I am at the moment, and a correction in your next issue of the error above mentioned will be appreciated.

*Chester S. Wilson '08BA '12LLB
Stillwater, Minnesota*

the new economy. what's in store for retailers like Gamble-Skogmo?

DKQ has a strategy. do you?

What will happen to earnings of retailers? And to consumer buying attitudes?

If Nixon's proposals have raised questions for you, our research department's two new reports will be of interest. One covers retailing in general; the other is a new report on Gamble-Skogmo.

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alumni news

POINTS OF VIEW



All of us are conscious of the rapid rate of change in our daily lives — change so rapid in fact that to protest is the sign of the times. We don't understand what happens, we don't like the constant accelerating pace of change, so we protest — change invades all our worlds — all at the same time, politically, economically, socially, technologically and educationally. Change brings discomfort and anxiety to many people.

It is being proclaimed that the world is in the midst of a great technological revolution, causing change greater than any period ever before. Some call it an explosion of knowledge, and some call it the new-Renaissance.

Is it any wonder then that our whole educational system is in the process of change — at all levels and including higher education?

Colleges and universities today still follow the same pattern as when they first began in the Middle Ages: In that day a few scholars gathered together to teach — disciplines were few. But students likewise were few. The medieval college and university were small, secluded places. There were few books; libraries were small and uncommon. Each university was an entity in itself with little or no contact with other like places.

Today we still cling to the original pattern, except everything is completely different — the world is small, communication instantaneous, any place in the world is only a few hours away. Whereas even 50 years ago only a few received a college education, today 45% do and tomorrow the number will be much larger. The university of today is a huge place — and growing in size and complexity all the time; faculties run into the thousands; classrooms, laboratories and office buildings take up acres of land. Each institution in the country tries to be the best in everything, in teaching, in research, in service, in physical facilities. Competition is fierce between institutions of higher learning for the distinguished faculty member, for the brightest student.

But changing it is. University trustees and administrators are fast realizing that with the great influx of students, quality education cannot be maintained in everything — that priorities have to be set. The realization is here that it is financially impossible for each institution of higher learning to provide the best and the most of everything. So universities are going to have to share the load. Working together, institutions are going to have to determine what they can do best so that on a regional basis quality education will be available for all who want it. Only in this way is quality education financially feasible in tomorrow's world.

A second necessary step is the decentralization of our large universities. The convergence of thousands of faculty, students and staff upon a specific place (campus) at practically the same time to

attend class just doesn't make sense in this electronic world of ours. The logistics problems involved, such as transportation, parking and housing, make it an impossible situation. Instead, the various colleges and schools of a university will be located separately within a metropolitan area — or a county or state. No longer will it be necessary to have a main campus as such. Because of closed circuit TV, tape recorders and computers, the home, the office or the factory will be the classroom. In a small way this is now being done at Minnesota in the new *UNITE* program (University Industry TV Education) reported in the November issue of Alumni News.

But beyond decentralization, we can no longer think of education as a series of pre-determined steps — pre-school, kindergarten, elementary, secondary, college, post college. *Education must be dealt with as a way of life.* There was a time, now past, when college education lasted a lifetime — now it is but the first step, and tomorrow it will be central to our daily existence from the time we are born until we die.

Up until now higher education has been a commodity to be bought on the market. If you had the money you could get a college education; but no longer. Education must be for all, equal and universal (now only 70% finish high school). Modern technology, bringing education into the home and into learning centers spread throughout a city or area, will allow each individual to progress according to their ability and motivation.

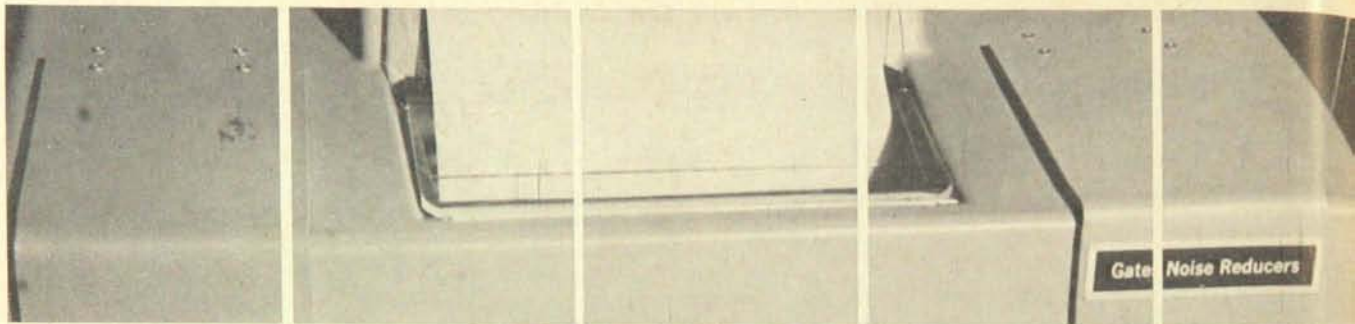
The great libraries of the nation (and world) must be made available to all. Many educational institutions have fine libraries, many more are marginal or inferior. For instance, the University of Minnesota library is one of the ten largest university libraries in the country. With modern technology it is now possible to share the great educational libraries of this country. For instance, the University of Minnesota shares in a Center for Research Libraries with other Big Ten Schools and the University of Chicago. Also the University shares its fine library not only with the other colleges of the state, but with the state's public libraries as well in a program called *MINITEX* as reported in this issue of the Alumni News.

The day is soon coming when we will no longer have colleges and universities as we know them. The educational process will not be the matter of going to school — but a programmed process of learning brought to each child and person as a part of daily living — when that day arrives equal educational opportunity will be a reality.

The University of Minnesota is a changing, developing institution — it is an exciting place and an institution you can be proud of.

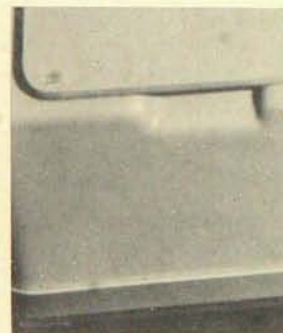
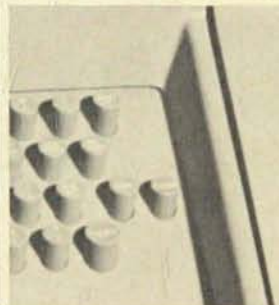
Ed Havelle

**Working together,
institutions are going
to have to determine
what they can do
best so that on a
regional basis
quality education
will be available
for all who want it.**



MINITEX

Bringing the University Libraries
to every citizen of Minnesota.



THE University of Minnesota Library today is available to nearly every citizen of the state of Minnesota through a unique library-sharing system called MINITEX (Minnesota Inter-library Teletype Exchange).

What began three years ago as a pilot research study to determine the feasibility of better sharing the University of Minnesota Library resources has become a reality, and a very exciting one.

The University of Minnesota Library is the largest library resource available from the Canadian border to Texas, from the Mississippi River to the West Coast.

It is a library system that not only serves an extremely large geographic area, but is also one that is located in a state that

divides its public support for higher education among state and junior colleges and the University. Consequently, the same public money is building libraries all over the state, as the junior, state and the University continue to grow and expand to meet Minnesota's higher educational needs.

In a time when money is tight, when it would take millions of dollars to bring the libraries of the state and junior colleges to an optimum standard of excellence, it only makes sense that the state's higher educational institutions should tie into the University of Minnesota Library.

It also makes sense that the state's other library resources, those of the private institutions and of the public libraries, be shared, too.

The original MINITEX pilot project, which operated from funds provided jointly by the Louis W. and Maud Hill Family Foundation and state and federal Title III funds through the State Department of Education, was launched to determine whether it was possible to produce library material in a format and quickly enough to be useful to a student or faculty member outstate, what would be the cheapest yet most efficient way to run such a system, and finally, what effect such sharing would have on the primary users of the University Library system.

During 1969 and 1970, when the study was conducted, there were 11 participating libraries representing the University's two branches at Duluth and Morris,

state and private colleges, a junior college and two public libraries.

Since the group was experimental, they set up specific guidelines for operating the system, and produced a procedure manual for each library to follow.

"Luckily, what we set up worked very smoothly," Mrs. Alice Wilcox, director of the MINITEX system at the University of Minnesota Library, said.

The MINITEX participants decided that all interlibrary connections would be via teletype in order to generate enough copies of a request so it would not have to be copied again, consequently eliminating errors.

"There are two reasons why the system doesn't use a telephone," Mrs. Wilcox said.

"Many of the requests are very long and in foreign languages, so it is very difficult to transcribe them correctly over the phone. Also, 75% of the MINITEX requests are from periodicals, and the library currently receives about 40,000 periodicals, excluding those in the bio-med library.

"There could be another 50- to 80,000 periodicals on the Twin Cities campuses, nobody is sure.

"If the request isn't correct, it can be very difficult to find it among all these periodicals.

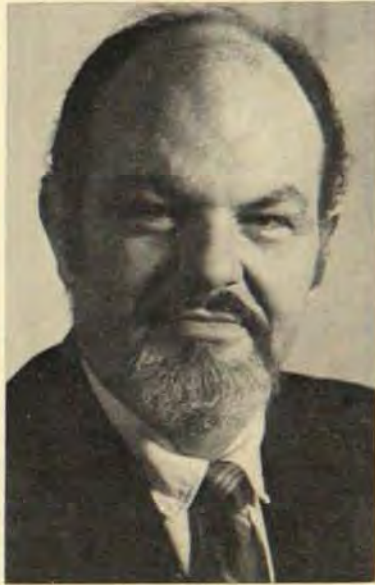
"A teletype is an untended machine. Anyone can put a request out on it at any time, and four copies of that request will be produced on the receiving machine. These are enough copies for our purposes.

"On the teletype, once the bibliographic material is written down, it doesn't need to be copied again.

"One of our greatest library expenses is correcting errors," Mrs. Wilcox said. "The teletype allows MINITEX a minimum of error."

"The teletype is also adaptable to a simple format."

Each of the libraries partici-



**"This is a revolutionary and innovative concept."
John Robson**

MINITEX has become an essential part of the lives of many faculty and students at Southwest Minnesota State College (SMSC). As a new institution which first opened its doors in 1967, SMSC has had to face the problem of providing for the research of faculty members and advanced undergraduates with relatively limited library resources. We were very fortunate in being included in the pilot project of the MINITEX experiment.

During the first year, SMSC ranked fifth in the state in the use of MINITEX, despite the fact that our enrollment at that time was half that of any other state college. Of that use, 58% was faculty and 38% was undergraduate students. For the period between July 1 and October 31, 1971, use has increased to four and a half times what it was for the same period two years ago, and student use has climbed to 56% of the total.

Faculty and students are loyal supporters of MINITEX and were very much concerned for its future during the last legislative session. Many of them wrote or talked with legislators to indicate their concern and to gain support for continuation of the project. Our holdings are still far too small to support specialized research by advanced students or faculty, and the availability of the vast holdings of the University of Minnesota to our college community out on the plains is invaluable. Use increases daily and once a patron has discovered the ease with which the system serves him, he becomes a loyal supporter and user.

This is a revolutionary and innovative concept. Its success is due mostly to the willingness of the University to make its materials available, and to provide necessary support services. I can think of no better way that the University can serve the entire state than by making its wealth of resources readily available to all citizens. MINITEX is a giant step in that direction.—John Robson, Director of Instructional Resources, Southwest Minnesota State College, Marshall, Minnesota

MINITEX

pating in the study were provided with teletype equipment in order to run a custom, expedited service of book loan and photocopy of journal articles.

Any member of the MINITEX system had instantaneous access to the University Library through its teletype. As soon as they were able to process a request in their own libraries, they put it on the teletype, and, in a few moments, the University Library MINITEX staff had that request.

"In the beginning, the program was something like a wheel with spokes," Mrs. Wilcox said. "The outstate requests would come into the University Library, the sharing hub, were filled here and then sent out.

"When a request came in for a book or photocopy, one of our student messengers would find out if the University owned the request and where it was located in our 20 libraries on the Minneapolis and St. Paul campuses.

"The messenger would then retrieve the material, either charge it out or photocopy it, prepare it for mailing and send out the request.

"We were able to get about 78% of the material back to the requesting library within 48 hours of their requests," Mrs. Wilcox said.

MINITEX is fast because it is custom service and because its work is self-contained. MINITEX has installed its own photocopying equipment in key places throughout the Twin Cities campus, and prepares its own material for mailing.

The MINITEX messengers are also important to the system's speed. Because they are graduate students from a variety of disciplines, they are familiar with the majority of the depart-

mental libraries, and are able to fan out all over the campus quickly to find material.

Besides being able to expedite requests, MINITEX has found other advantages to the installation of their own photocopying equipment. Photocopies are not only inexpensive, they also cause less conflict of interests.

"Their use means that the material we are photocopying normally doesn't have to be away from its regular location for more than one hour. Consequently, the library material is available to both the primary user and the MINITEX patron.

"If we used some other method of copying, the library material might be stacked on a cart and out of circulation for much longer than an hour."

If MINITEX can't fill a request, it reports to the patron that the volume is not owned, is lost or is not circulating so they would have to use it in the library or tells the patron that it will be available later.

If the individual making the request is still interested in the volume after the latter, conditional report, then he sends his request back to MINITEX and it is activated when the volume is available.

However, this happens rarely," Mrs. Wilcox said. "We have found the cooperation among all members of the system excellent, and when we recall a book by teletype, the response is immediate.

"There is very little conflict of interest that can be documented."

The MINITEX group has found the United Parcel Service (UPS) the quickest way to send out books. UPS can usually achieve delivery within the state within 24 hours. Photocopy is best sent by first class mail; if it is mailed from the Twin Cities campus by 5 p.m. the copies will reach most areas outstate by 9 a.m. the next morning.

During the pilot project, MINITEX participants collected data on how long it took them to process a request, how long it took to deliver, and what different techniques might be used in sharing materials through the system.

At the end of the project, the data indicated overwhelmingly that MINITEX could get material to people quickly enough so that it would be useful, that it was considerably cheaper to operate a MINITEX system than to duplicate and build collections, and that there was relatively little conflict of interest between the primary library users and the MINITEX patrons. This lack of conflict of interests resulted because over 75% of the MINITEX requests were for photocopy.

During the first six months of the MINITEX operation, the University staff handled 7,378 requests. The following year, the requests totaled 25,424, or for the total 18-month period of the pilot project, 32,802.

For these 18 months, 51.7% of the requests were made by students, and 43.8% by faculty. And 62.4% of the requests were used for research and teaching.

At the end of the project, all participants felt that the experiment had been successful, and they had the facts to back up its success.

Consequently, a proposal was made through the state's Higher Education Coordinating Commission (HECC) to the Legislature to fund MINITEX. And it was one of the few new higher educational programs that was funded by the Legislature in 1971 as a line item in the HECC budget.

MINITEX had the strong support of the outstate people who had participated in its pilot program, individuals, both faculty and students, who actually went to their legislators to support MINITEX.

The Legislature underwrote a MINITEX program that will

aid all four-year and above accredited institutions within the state and an unspecified number of junior colleges.

Since the original proposal indicated that any other non-profit library that had its own teletype equipment could enter the MINITEX system on a fee basis, a seven-college consortium of private institutions outside the Twin Cities area is cooperating with MINITEX as well as the CLIC group.

CLIC is composed of Augsburg, Bethel, Concordia, Hamline, Macalester, St. Catherine's, St. Thomas, and the James J. Hill Reference Library. This group has a central headquarters in the Twin Cities area and its own union catalog that interfaces with MINITEX.

The other consortium of private colleges currently involved with MINITEX includes Gustavus Adolphus, St. Benedict, St. John's, St. Mary's, St. Olaf, St. Scholastica and St. Teresa.

"This is exciting," Mrs. Wilcox said, "because this is the first aspect of making MINITEX a two-way street."

"If we need replacement copies for a journal, we can get them if the journal is owned by anybody in the MINITEX system. If we need a journal photocopy that we don't have at the University Library, we can get it if it's in the system."

A number of regional public libraries are also entering the MINITEX system, including libraries in Moorhead, St. Cloud, Mankato, Rochester, Duluth, Thief River Falls, Hibbing, Worthington and St. Paul.

"What HECC has done is make the University of Minnesota Library available to just about anyone in the state," Mrs. Wilcox said.

The libraries participating in MINITEX pay all the expenses that are generated within their own libraries, the costs of verifying requests, transmitting



**"Before the teletype network, 2-3 weeks elapsed before a request was received. MINITEX has cut this to 2 days."
Jan Schroeder**

Over 300,000 citizens of six northern Minnesota counties (St. Louis, Carlton, Cook, Itasca, Koochiching, Lake of the Woods) became patrons and enthusiastic supporters of the University of Minnesota Library when the University opened the resources of its libraries, three years ago, to the Arrowhead Region during the MINITEX project.

The informational impact of MINITEX has been tremendous for a region that is remote from large research facilities. Specialized materials that are not economically feasible to buy in a small public library for one or two patrons are both practical and economical when bought by a large University and then shared with citizens throughout the state. Our library patrons recognize this careful use of tax dollars and appreciate the efforts of the University in sharing its collection for maximum use by all taxpayers.

After a brief period of disbelief that the University was indeed opening its collections to "ordinary people" instead of only to academic personnel, hundreds of patrons have requested and received books and journal articles from the University relating to business, technology, science, engineering, city planning and to writing of all kinds. However, the heaviest use of all has been made by hospitals and physicians throughout the whole area. MINITEX has given swift and sure service when specialized information has been needed immediately by the medical community. When a surgeon needed to examine several recent medical articles before surgery scheduled for the next day, MINITEX, through special handling, was able to have copies of the articles in his hands the next morning. On the other hand, a hospital on the range is using its MINITEX requests as a buying guide to indicate areas of interest and need in acquiring materials for the hospital library.

Thus the help MINITEX gives us is twofold; one, we are able to borrow needed materials directly from the University, and two, the requests for information serve as a guide to the unmet informational needs of this area. In this way we can attempt to strengthen our own collection to meet the needs of our community. — Jan Schroeder, Assistant Director, Duluth Public Library.

MINITEX

the request, notifying patrons that material is available, distributing MINITEX material and returning books to the University, in case of book loans.

When the University entered the MINITEX program it asked all the participants to share their resources in the same way that the University was sharing theirs.

"This has had very real implications in five cities outside the Twin Cities area," Mrs. Wilcox said. In Duluth, Moorhead, Winona, St. Cloud and Northfield there are multiple higher educational institutions that are close enough geographically so that sharing is feasible between them.

"All of them have teletypes now so that they are sharing their libraries with one another, and they have the capability to go outside of the state to make library loans that cannot be made within the state.

"Sharing with your neighbors only makes sense," she said, "when you have similar curriculums. It is often easier for these institutions to find materials in each other's libraries than at the University.

"The amazing thing that MINITEX has done at the University is to demonstrate that sharing is possible."

Now that the MINITEX participants have learned to share with one another, they need to know what one another has. Consequently, the group is establishing a bibliographic base that will begin with a union catalog of the periodicals held by the University Library, and will build until a complete catalog of the unique titles available from the state's libraries is known so that MINITEX patrons can share the system efficiently.

"We have started this list of periodicals," Mrs. Wilcox said, "and hope to have the first edition ready early in 1972."

MINITEX has also been helping participating libraries with their acquisitions. Since each of the participating libraries receives a copy of its MINITEX requests, they are able to know what materials they do not own and perhaps should own.

The basic responsibility of an institution's library is to support the curriculum of that institution. MINITEX is not duplicating or replacing collections, but is enlarging them.

Several of the participating MINITEX libraries have said, that besides enriching their collections, one of the most important things that has happened because of MINITEX is the enrichment of the relationship between librarian and library patron.

Many librarians feel that their relationships with faculty and students have been enhanced because these individuals have had to interface with them in order to verify MINITEX requests. Through this interfacing, and with increased contact, librarians have been able to provide better service with the resources in their own libraries.

"It has been a real problem for a librarian to figure out what a student or faculty member really wants when they come to the desk to ask for something. So often they are so far away from what they really want.

"A greater part of a librarian's job is to determine what someone wants and then fulfill his needs. MINITEX allows the librarian to provide the best possible service to the largest number of people through the library resources of the state."

Two principles have guided MINITEX since its inception: service as seen in the interfacing of the librarian with the patron, and a cooperation that would not jeopardize a library's

primary patrons.

MINITEX has embraced these principles with ease and still is able to process 300 to 400 requests daily at the University and deliver 25% of these results within 24 hours and 75% within 48 hours.

MINITEX has also been valuable to the University in providing buying cues. When the expanded bibliographical information of the system is available, the University will be able to make wiser selections of materials that are needed throughout the state and at its own libraries.

"Instead of owning 10 copies of something, perhaps we'll find that owning something that nobody else has is a wiser way to build our collections," Mrs. Wilcox said.

Many of the outstate MINITEX requests to the University Library are in the biological sciences, chemistry, geology, ecology — items that would be available only at a large research library.

And, although outstate faculty have used MINITEX primarily for teaching purposes, a number have used the system to complete their advanced degree work and several have said they would not have been able to complete such study on state college campuses without MINITEX.

The expert staff of the University Library, the University's very fine library collections, the Higher Educational Coordinating Commission and the State Legislature have made MINITEX a reality for nearly every student and citizen in Minnesota.

"We can't say that MINITEX is the answer to all of our library problems," Rudy Johnson of the University of Minnesota, Duluth Library, said.

"But, by joining together in such an automated network of libraries, and with state support, we have been able to move, together, toward a solution."



**"Dr. Lease of our Graduate School has said that graduate work on our campus would be next to impossible without MINITEX."
Rudy Johnson**

UMD students and faculty find it hard to believe that they can get the rapid, efficient, no cost service that MINITEX offers. During the first 18 months of the MINITEX operation, members of the UMD community borrowed 2,478 items from the Twin Cities campus libraries, and the use made of MINITEX by Duluth library patrons has doubled every year since its inception. Our students no longer feel that their library resources are limited to the 150,000 volumes on the Duluth campus; they now have easy access to the 3,000,000 volumes on the Twin Cities campus, and the recently expanded MINITEX network will soon take in all libraries in Minnesota.

What do our students borrow? Three-fourths of our loans are for journal articles. The possibility of easy and rapid photocopy from the Twin Cities means that UMD does not need to maintain extensive backfiles of specialized and expensive journals. We have on occasion borrowed tapes and recordings, and borrow a great many books.

No one library could possibly purchase all the materials needed by its patrons, and the sharing of library resources through an automated network such as MINITEX not only saves us money, but it strengthens our resources. Interlibrary borrowing did exist before MINITEX, but it was restricted to research materials, and it was much too slow for academic deadlines.

The entire card catalog of the University of Minnesota has been put on 16mm microfilm and packaged conveniently in cassettes so that library patrons on coordinate campuses need only plug in a cassette into a motorized viewer to browse through the main union catalog. This catalog can be searched by subject as well as by author/title, and the patron can now identify his need by library call number for faster service. We were extremely pleased to receive this 500 cassette catalog along with the motorized viewers; this is probably the greatest thing that ever happened to the UMD Library.

The uses of MINITEX are many and varied. We in the UMD library are pleased to be able to replace missing pages from mutilated books and journals.

Dr. Thomas Chamberlain of our Geography department has observed that MINITEX helps us to attract and retain faculty engaged in research. Dr. Harry Lease of our Graduate School has stated that graduate work on our campus would be next to impossible without MINITEX.

Our library reference staff use MINITEX to refer difficult reference questions to Minneapolis, where there are more adequate library resources. A patron wanted to know if there was evidence that people can, or have ever heard, the aurora borealis. Mrs. Alice Wilcox, MINITEX project director in the Wilson Library, by consulting the Physics department on the Minneapolis campus, came up with several citations giving supporting evidence.

When students are asked how they feel about MINITEX, they say, "WOW".—Rudy Johnson, Assistant Professor and Librarian, University of Minnesota-Duluth.



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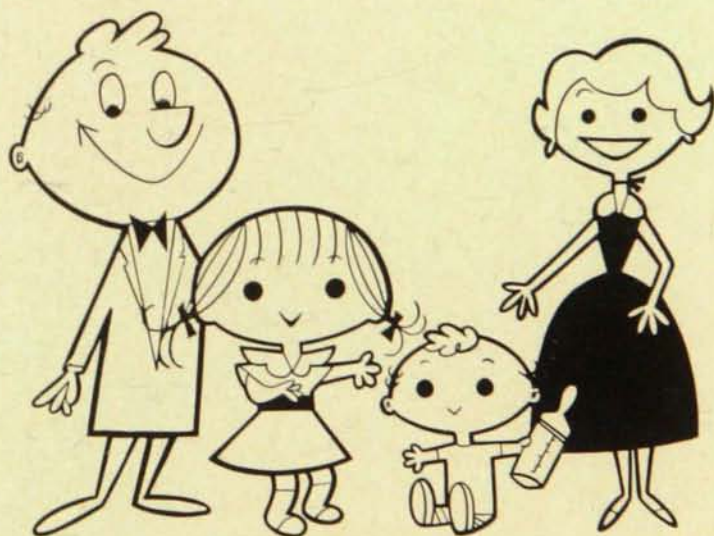
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PART TWO

"THE AFFLUENT ALUMNUS"



THE 1971 Alumni Survey, based on a two-page questionnaire that was run in *The Alumni News* during the early part of the 1971 publication year, added new dimensions to and embellished many of the statistics brought out by the Starch/Hooperating Big Ten Alumni Magazine Survey reported in the 1971 October issue of this magazine.

Starch/Hooperating's most significant finding, according to their report, was that "the average audience of the Big Ten Alumni Magazines has and realizes buying power far above the average U.S. household, and has a more affluent life style than the average U.S. household."

The 1971 Alumni Survey confirmed the affluence of the Big Ten — and particularly Minnesota — alumnus, and revealed even more characteristics of his profile.

The greatest percentage of respondents to the 1971 Alumni Survey — 13.2% — were between 46 and 50 years of age, as was true in 1970. However, a greater number of young alumni returned the questionnaire this year as compared to a year ago — 12.2% in the 26 to 30 age bracket.

Respondents 51 to 55 years old returned 10.2% of the surveys.

And, again in 1971, more male than female graduates answered our questions, 76.3% men as compared to 22.5% women. However, 5.7% more women returned the questionnaire this year than a year ago.

The 1971 statistics were based on a survey sample, selected at random, of 600 surveys, and were calculated by computer.

Fewer alumni listed themselves as married — 70.8% — than in 1970 when 77.2% did; 22.8% listed themselves as single; 3.7% as widowed; and 2.2% as divorced.

alumni news

PART TWO

A startling statistic of the 1971 Survey showed alumni families to have fewer children: 34.2% of the married couples claimed that they had no children, while 22.5% said they had two, 16.7% had three, and 10.8% had one child.

In 1970, 18.5% of the alumni polled said that they had no children.

About one-sixth of the children of all 1971 Survey respondents are attending or have attended the University of Minnesota.

Nearly 97% of the respondents graduated from the University, the greater number from the College of Liberal Arts (or College of Science, Literature and Arts) between 1955 and 1970.

The percentage of returns from the University's various collegiate units showed:

College of Liberal Arts	17.2%
Institute of Technology	13.5%
Business Administration	12.5%
Graduate School	10.0%
College of Education	9.8%
School of Medicine	7.5%
School of Dentistry	3.8%
College of Agriculture	3.7%
Law School	3.3%
School of Nursing	3.0%
Other Health Sciences	2.0%
General College	1.8%
School of Home Economics	1.8%
College of Veterinary Medicine	1.2%
School of Pharmacy	1.0%
Crookston/UMD	.8%
Mortuary Science	.8%
School of Forestry	.5%
School of Social Work	.5%
School of Agriculture	.2%
School of Journalism	.2%
University College	.2%

The greatest percentage of respondents, 21.3%, graduated between 1965 and 1970, followed closely by 21.2% who graduated between 1955-1964, 15.3% who graduated between 1945-1954, and 15.0% between 1935-1944.



MINNESOTA alumni hold positions of leadership and influence in American society — a fact also shown in the Starch/Hooperating Survey where the majority of Big Ten alumni held top management, professional and executive positions.

Among the 1971 Alumni Survey respondents, 28.3% were in managerial, official or proprietary positions; 27.5% in professional or technical positions; and 18.2% in educational positions.

Over 70% of University alumni are employed in the field in which they studied, as compared to 64% in 1970, and nearly 15% of the alumni have been with their employer for 26 or more years.

Approximately 14% of the respondents have been with their employers for one to two years, indicative of the young alumni response to the 1971 Survey, while 13.5% had been in the same job for six to ten years, and 13.2% for three to five years.

Close to 54% of the alumni surveyed are in supervisory positions on the job, and about 34% supervise one to 25 indi-

viduals, while nearly 12% supervise 26 to 500 people.

More Minnesota alumni than Big Ten alumni (as indicated in Starch/Hooperating) have continued their education.

Nearly 64% indicated that they had taken some graduate level work beyond specific degree programs, and approximately 40.9% actually achieved graduate degrees.

While the majority of Minnesotans continued their education in graduate or postgraduate courses, 11.3% took extension courses, 9.7% professional courses on collegiate campuses, and 6.7% continuing education courses or attended seminars, special meetings and workshops.

The Minnesota alumnus' income approximates that of the Big Ten alumnus. The 1971 Survey showed the five leading categories of alumni gross income to be:

\$10,000-\$15,000	21.0%
\$15,000-\$20,000	15.2%
\$20,000-\$25,000	13.3%
\$ 7,500-\$10,000	11.7%
\$25,000-\$30,000	9.0%

Nearly 3% of the respondents indicated they make \$50,000 to \$75,000 per year, and 1.5% said they made more than \$75,000.

At least 72% of the alumni surveyed own their own homes, with 72.2% valuing them at \$30,000 to \$40,000; \$40,000 to \$50,000; \$20,000 to \$25,000; and \$25,000 to \$30,000, respectively.

Almost 42% of Minnesota alumni have two cars in their families, while 41% have one and 11.8% have three.

And alumni continue to be strong investors, with 80.5% of their number having investments of some kind, the majority in stocks and mutual funds.

Approximately 98% of the respondents have a checking account, 90.5% have a savings account, and 15.7% have a trust account.

Alumni are carrying greater amounts of life insurance than indicated in past surveys:

\$ 50,000-\$99,999	22.7%
\$100,000 or more	15.0%
\$ 10,000-\$19,999	14.8%
\$ 30,000-\$49,999	14.3%
\$ 20,000-\$29,999	10.3%

And close to 94% of the Minnesota alumni surveyed carry hospitalization insurance, 70.8% of them group insurance.

A GREATER number of respondents have settled with their families in a metropolitan community, indicative of the large number of Minnesota alumni living in the five-county area surrounding the Twin Cities of Minneapolis and St. Paul. Nearly 20% chose to live in a small city, and 18.7% in a medium-sized city.

Again, Minnesota alumni show a tendency to settle and stay within the communities they choose:

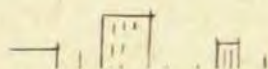
More than 25 years (in residence)	24.3%
6 to 10 years	13.2%
11 to 15 years	12.2%
21 to 25 years	11.8%
3 to 5 years	11.8%

Their first state of residence is the home state of their University:

Minnesota	41.8%
California	6.8%
Wisconsin	4.3%
Illinois	3.7%
Ohio	2.2%
Michigan	1.7%
Virginia	1.7%
Massachusetts	1.5%
New Jersey	1.5%
New York	1.5%
Pennsylvania	1.5%

Minnesota alumni show a definite tendency to stay in the

Midwest after graduation from the University. California is their second choice for a home, followed by the eastern states. Nearly 1.5% of the alumni respondents indicated that they lived in Canada or abroad.



This year Minnesota alumni are traveling less for business purposes: 36.5% less than five times, 20.2% no times and 14.7% six to ten times.

When alumni do travel for business, respondents indicated that they prefer to take either a car or plane (37.6%), or use air travel exclusively (37.2%).

Almost 75% of the respondents indicated that they traveled less than five times a year for pleasure, 8.0% indicated six to ten times, and 5.0% five times. Close to 41% prefer to take their car or a plane for pleasure jaunts, while 35.9% prefer their cars alone.

Nearly one-third of the 1971 Survey respondents have four-week vacations; 20.8% have more than four weeks; and 18.8% have two weeks.

And the majority of alumni do not take their vacations all at once, while 57.3% prefer to travel domestically and 38.2% travel both to foreign and domestic places.

Politically, just over half of the respondents claimed to be Republicans:

Republican	50.3%
Independent	28.0%
Democrat	19.0%
Nothing	1.5%
Other party	.8%

Both the Republican and Democratic parties lost University alumni over the past two surveys, with a shift of respondents into the Independent or non-committed status.

Almost two-thirds of the respondents favored the Republican candidate in the 1968 elections, while 34.5% favored the Democrat. Nearly all—93%—of the respondents voted in that election.

And how will Minnesota alumni vote in 1972?

Republican	43.5%
Democrat	30.5%
Depends	24.2%

Less than one-fourth of the respondents have held public office themselves, and of the 17.8% who have, the majority have been in city government. Only 5.8% of the alumni respondents hold office now.

Alumni political, social and economic thinking has grown more conservative or entrenched over the past year, indicative of the difficult times the United States has been facing.

	1971	1970
More conservative	22.0%	19.6%
About the same	49.3%	49.7%
More liberal	27.8%	30.7%

More than two-thirds of the respondents attend athletic events, 41.5% of them going to football games.

And the majority of alumni indicated that they joined the Minnesota Alumni Association in order to support the work of the University and of the Association.

Nearly 80% of the respondents have returned to the University campus other than to attend class reunions. Almost 20% returned to take classes or do research, 19.7% to visit friends or members of their family on the campuses, and 12.8% just to see the campus.

THE UNIVERSITY GALLERY

TODAY'S INNOVATIVE TEACHER

A million-dollar-plus instructor is still struggling to teach on the University of Minnesota campus despite a severe cutback in funds and continually limited facilities.

That million-dollar-plus instructor—the University Gallery that is tucked away on the third and fourth floors of Northrop Auditorium and in other assorted crannies—is still struggling and has not closed because a new director feels that the Gallery has an important collection of art that can and should be more fully exploited.

Frederick M. Asher, an assistant professor in the University's art history department, is that director.

When the 1971 Legislature cut the University's building program, particularly the humanities building proposed for the West Bank of the Minneapolis campus, it obliterated the space that the University Gallery had planned to occupy after too many years of cramped and poor quarters in Northrop.

The new University budget, as dictated by the Legislature, also meant that funding for the Gallery personnel would be reduced because of the austerity

program in effect for the University. Consequently, the director's salary was dropped and funding for Gallery guards cut back to the point that the Gallery will have to curtail the hours it is open for the public and University Community.

During fall quarter, most of the Gallery was open from 11 a.m. to 4 p.m., Monday through Friday, but money will be exhausted for the guards' salaries with the end of fall quarter. But Asher expects to take steps to insure the Gallery will not close.

"It seems to me that if you're going to have an art gallery, particularly one that is mainly a teaching gallery, you've closed down a section of your teaching facility when you deny that gallery funds," Asher said.

"The University Gallery is an appendage of the classroom, and does not exist just for the aesthetic titillation of the students and the University community.

"The Gallery is a very important part of several art programs that exist on the University of Minnesota campus and provides a visual awareness facility for them," he added.

During fall quarter Asher has been working to better organize the Gallery as a teaching unit that can be run with a minimum of effort. He has been working to produce a good and meaningful exhibition schedule from the Gallery's collection, as well as other Twin Cities collections, that can meet the needs of the departments using the Gallery without relying on circulating collections from Chicago or New York.

"When I speak of a teaching gallery," he said, "I don't mean one that is directed just to the various department or to art historians.

"We have a great deal to offer the Studio Art students and faculty in exhibiting their work. It is important for Studio Art students to see some of their instructors' work, to see how they resolve the same artistic problem that the students are trying to resolve."

For the first time in many years, art classes actually met in the University Gallery, and exhibitions were set up for classes that chose to use the Gallery for exhibit purposes rather than class meetings.

Even though the University Gallery is now attached to the Art History department it is much more than just a part of that department. Asher feels that the Gallery can grow to serve a number of campus units, among them the Studio Arts, Classics, Anthropology and Related Arts departments.

He has contacted a number of individuals who have been and are involved in archeological excavations outside of the United States, and is building an exhibition of both the objects and photographs of their excavation work.

"All of the people I have contacted in the Classics and Anthropology departments have been very eager to have such an exhibition," he said.

Asher has also inaugurated a

new policy to get everything out of the Gallery's storerooms, except the more expensive art objects which he is allowing out on long-term loans to members of the University administration.

"It's much better to get these works out of storage and on exhibition where they can be seen," Asher said. But, he added, the cost of insurance this involves takes a significant part of the Gallery's budget.

The majority of the Gallery's holdings have been in storage. And, even though the storage facilities have crudely controlled heat and humidity, they are still a step ahead of most of the facilities in the Twin Cities area because the Gallery staff was innovative with what they had.

Although the Gallery does not have a collection of great and famous art masterpieces, it does have a superb collection of the basic works of some important artists, a small sculpture collection, a small minor arts collection and some outstanding period collections, such as that donated by Hyleton Thomas, consisting of 18th century furniture, prints, drawings and so forth.

The acquisitions of the University Gallery have nothing to do with normal University funding. The Gallery receives the majority of its acquisitions as gifts or uses the money from its trust funds to make purchases. Its holdings are currently valued at over \$1 million.

The Gallery also has a shops facility with personnel trained to frame art objects and/or prepare them for display or storage, or crate them properly for loan to other galleries.

The Gallery staff would like to be more involved in the University's Master of Fine Arts program, but the Gallery has had to limit its participation in this program because of space limitations.

The pictures that accompany



LEE BJORKLUND
MFA EXHIBITION: RECENT PAINTINGS
(Through December 5)

Earlier this year, Lee Bjorklund's art work, "An Acre of Space," was recognized by the *Minneapolis Star* in its May 14 edition, in connection with the opening of the Minneapolis' Walker Art Center and its exhibition, "Works for New Space."

His recent work — large scale paintings with silver surfaces — are being shown at the University Gallery as an MFA exhibition.

Bjorklund has been known as an exhibiting artist in the Twin Cities for a number of years, particularly for his work in the 1966 Biennial of Painting and Sculpture, Walker Art Center; the Arts Festival, Coffman Gallery, 1967; the exhibition, "Some Young Minnesota Artists," University Gallery, 1967; and a Five Man Show, at the Jewish Community Center, St. Louis Park, 1971.

He has also been active as an art instructor at the University of Minnesota and at the Minnetonka Center for Art and Education.

A Minnesota native, Bjorklund holds a BA degree from the University.



KITT WEBER
MFA EXHIBITION: "ENVIRONMENT"
(Through December 5)

Born in the Midwest, Kitt Weber came to the University of Minnesota in 1970 after a number of years of art study in New York City, that included Art Students League classes during and after her junior and senior high school years. She has taken classes at the National Academy of Design, Corcoran Institute of Art, Washington, D.C., and received a BFA degree from St. John's University, New York City, in 1970.

Ms. Weber's "environment" pieces were selected to be a part of a group art show this fall at the Jewish Community Center, St. Louis Park, Minn. Previous exhibitions of her work have been presented by the Arts Students League and the University Gallery of St. John's University, the latter as a one-man show in 1970.

Her current one-man exhibition at the University Gallery on the fourth floor of Northrop Auditorium is work presented as the Master of Fine Arts exhibition.

Ms. Weber's sculptures, which she calls "environments," are created by amassing polyurethane film and spraying it with metallic paint.

this article are from the MFA program, and were provided to The Alumni News by Emily Andersen, a candidate for a master's degree in art history and museology from the University, who was recently appointed curatorial assistant for the Gallery. She is also continuing as director of the Studio Arts Gallery and is in charge of

student exhibitions at the University Gallery.

Although the Gallery does not have its own slide collection, it will, on request, open its collections to any scholar or individual with a legitimate interest in art, and set up the art objects for photographing, as well as provide photo flood lights.

alumni news

UNIVERSITY GALLERY

"In the past," Asher said, the Gallery has tried to function like an urban museum. I think this is inappropriate to its area. It is more important that the Gallery tie into the University's teaching departments."

Asher does not think that the Gallery's teaching capabilities end with the members of the University community.

"Our obligations to the community are very great," he said. "We are not here just to educate, in factory-fashion, a number of students who happen to come to our classes or to the Gallery."

The new director hopes, eventually, to extend the Gallery into the community.

"We should have a lecture series along with guided tours," he said. "We have no formalized tours at the moment, but if someone were to contact us, we would set up a lecture tour of whatever part of the Gallery collection they wish to see. We have already done this in the past."

Asher, who received his bachelor's degree from Dartmouth College and his master's and PhD from the University of Chicago, is a specialist in the art of South Asia, particularly that of India. Before coming to the University, he was a member of the faculty at Lake Forest College, Illinois for three years.

He and his staff are taking the time and making the effort, with large amounts of dedication, to revitalize an important art collection for the University and Twin Cities community.

dave shama's gopher tales

THE time was last spring and University of Minnesota basketball coach Bill Musselman was on the telephone talking to a high school player.

The young man had an interest in the University of Maryland and told Musselman so.

"Coach (Lefty) Driesell says Maryland is going to become the UCLA of the East," he said.

Musselman replied, "Look to the East. Look to the West. Soon Minnesota will become the UCLA of the Midwest."

That day can't come soon enough for the 31-year-old Musselman who left a superb record at Ashland College last spring to become coach of the Golden Gophers.

"I hate to lose; no, I can't stand to lose," Musselman said. "I won't lose. When I came here last spring some of the players got to talking about how many games we were going to lose. Some said five, six, seven, eight. . . ."

"I can't stand to think about losing any. My players know that now. They've seen me get mad in practice and throw my whistle on the floor. Some times I get home and start to wonder why I do things like that. The reason is because I care what kind of a team we are."

Shortly after Musselman was appointed Gopher coach he surveyed the returning talent and decided the Gophers needed

help immediately. During the spring and summer he recruited three junior college players to supplement the returning talent.

Musselman chose a different approach than did former coach Bill Fitch, now directing the Cleveland Cavaliers. During Fitch's two seasons he began to build the Minnesota program with freshman players.

"We have two players on our frosh team who are on scholarship," Musselman said. "People have questioned me about it, but it all gets back to wanting to win right away.

"If we wouldn't have gotten junior college help we wouldn't have had a chance in the Big Ten race. I'll admit I made a mistake on this junior college business—I didn't take enough players. I should have taken five."

The junior college transfers are 6-foot-7 Clyde Turner, 6-foot-9 Ron Behagen and 6-foot-2 Bob Nix. All are first team types. Musselman regrets not recruiting two more junior college players to lend competition in practice and depth in event of injury.

When the Gophers began the season they had only a few reserves with height. Injuries and ineligibility reduced the number during fall practice.

"At one point our second team was made up of five guards," Musselman said.

A second team which averages 6-foot-2 isn't much competition for a first unit which goes 6-foot-7, 6-foot-9, 6-foot-8, 6-foot-9 and 6-foot-4.

During most of fall practice the Gophers prepared for the December 1 opener against North Dakota with a first team line-up of (according to height) Clyde Turner, Ron Behagen, Jim Brewer, Corky Taylor and Keith Young. The sixth man was Bob Nix.

The six have impressed even Musselman, the Gophers' severest critic. In practice the first five (all underclassmen) have often shot close to 55 percent, dominated the boards and held their teammates to a percentage of about 32 percent.

Much of the scoring has been done by Turner, Behagen and Brewer.

Musselman says Turner is one of the best shooters he has ever seen. Turner has an outstanding 15-foot jump shot and soft touch. Last season he averaged 26 points per game for an Illinois junior college. In some scrimmages he has scored as many as 41 points, shot 62 percent and led the team in rebounding.

Behagen has been slowed by sickness and a twisted knee in fall practice, but has still managed to play superbly. He, too, is an extraordinary shooter for a tall player and holds records

GOPHER TALES

which surpass Turner.

The native of New York City is one of only three players ever to make all-city in his junior year. The other two are NBA all-stars Lew Alcindor and Connie Hawkins.

Referring to his potential and his fall illness, Musselman says of Behagen, "If Ron is in good shape he could be the best player in the country."

Behagen is so mobile Musselman will play him at guard on defense.

Brewer, who averaged 16.4 points and 13 rebounds as a sophomore last season, is improved. Musselman has Brewer playing a more disciplined game.

Instead of roaming the court trying to swat balls out of the air or gunning a jump shot from 20-feet, Brewer is now content to play his own area or man on defense and take percentage

shots on offense. Musselman has Brewer playing close to the basket and the 6-foot-8 junior has been effective in his new position.

"Jim will help our scoring and defense, but more than anything else he is our man on the boards," Musselman said. "He is a great board man."

Taylor has been Musselman's special project in fall practice. As a reserve last year, Taylor lacked confidence. His shooting was poor, he committed foolish fouls and his rebounding was inconsistent.

Musselman, however, sees potential.

"Corky is very quick and mobile for his size," Musselman said. "He can really jump, too. I've been determined to play him because of his potential and the extra size he combines to give us with the three other big men."

Young is the lone sophomore of the first five. He has been pressed for his starting point position on offense by Nix. Both possess similar skills: good ball

handling, passing, outside shooting and leadership (particularly Nix).

Musselman has indicated that his starting five may change throughout the season. The positions which appear most vulnerable are those which have been held by Taylor and Young.

Guard Robert Murphy, a 10-point per game starter last season, is the Gophers' seventh man. Guard Greg Troland is another reserve who Musselman might look to for help.

As was expected the fall practice was a period of adjustment. At Ashland Musselman's teams were among the most difficult in the NCAA small college division to score points against.

Musselman expects the Gophers to be just as reluctant to give up points. The Gophers play a match-up zone defense which has man-to-man tendencies.

Former Gopher center Tom Masterson who has scrimmaged on the second team against the first calls it "the best defense I've ever worked against."



pressed with the first team's rebounding abilities, too.

"Playing against all those big guys really wears you down," Masterson said. "They all come charging the ball like a wild herd."

Musselman says the offense looks too good at times.

"I've never had a team that could score like this one," Musselman said. "We get streaks where it's two points every time we get the ball."

Musselman doesn't try to hide his opinion that he expects the Gophers to compete with defending champion Ohio State, Michigan, Purdue and Illinois for the Big Ten championship.

And Musselman has enough imagination to let his mind wander to the national scene now and again. The Gopher coach knows this is an unusual season in college basketball. Graduation has stripped many teams of stars, and the warring pro leagues have done likewise.

"This is going to be a year of opportunity for some teams," Musselman said. "There may be a surprise team or two which is going to sneak into the national spotlight.

"But you know something? A lot of the best teams at the end of the year will be the same schools which have been on top in the past.

"The reason is tradition and pride. At UCLA, for example, they'll have a young team, but those guys know they're expected to win. They know they have to win because UCLA is a winner. It gives a team confidence and a special lift to have that tradition and pride.

"That's what we're trying to build here this season. We've got to get over that first hurdle. Our players should be thinking this is the year to begin to build Minnesota basketball.

"This pride and tradition is business . . . this could make us . . . or kill us. We've got to believe we can't lose."

BUDGET REPORT SHOWS UNIVERSITY OPERATING COSTS \$260 MILLION PLUS

The costs of operating all campuses and stations of the University for the fiscal year ending June 30, 1971, totaled \$264,298,812. The State of Minnesota provided 34.2 percent of the funds to cover costs, according to the annual University fiscal report released in November.

In addition to its operating expenses, the University invested \$33,291,481 in the construction and remodeling of buildings and the purchase of land.

The vice president for finance, planning and operations, James F. Brinkerhoff, reported that \$138,257,654 was spent last year for the instruction of students and instruction-related activities at the collegiate level and for departmental research on all campuses.

Budgeted and sponsored research expenditures amounted to \$42,918,404. The cost of extension and public service activities such as the General Extension Division, Agricultural Extension Service and the Bell Museum of Natural History totaled \$22,335,737.

The total expense for student aid was \$8,010,632.

Other major expenditures were in housing, food and other service areas which are self-supporting, totaling \$37,698,792; and \$15,697,977 for heat, light, power and maintenance of University facilities.

The University's overall operating costs were \$259,919,196, while transfers, increases in obligations and other adjustments added \$4,379,616 for the total of \$264,298,812.

The state provided \$90,377,553

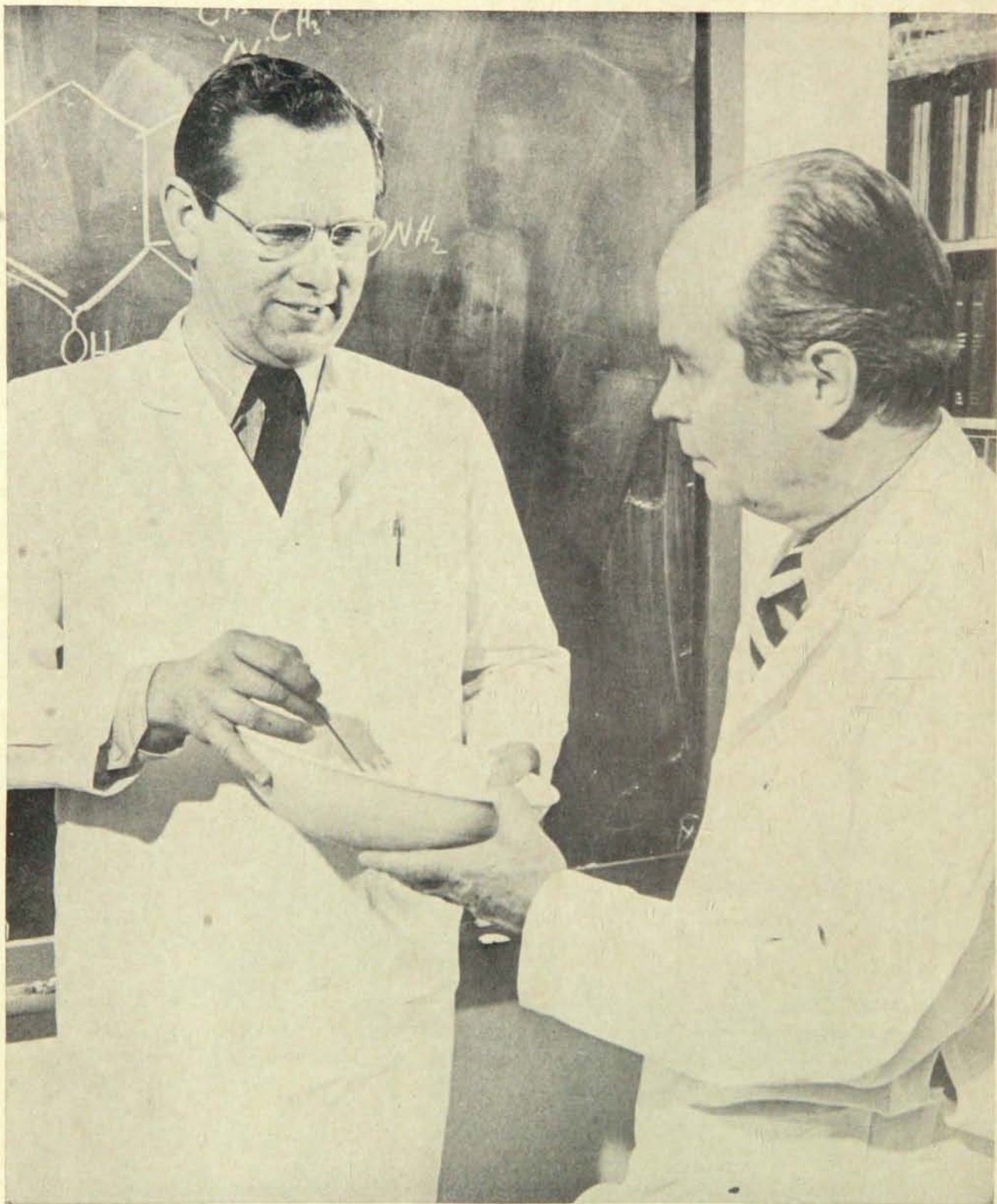
or 34.2 percent of the funds. These support funds consisted of the Legislative general appropriation of \$74,157,669; \$2,198,307 for the care of special patients at University Hospitals; and a Legislative allotment of \$14,021,577 for special projects carried on by the University for the general benefit of Minnesota's citizens.

These special projects include agricultural extension work and research, business and economic research, medical research, operation of the Minnesota Rehabilitation Center, the Child Psychiatric Hospital, the Multiple Sclerosis Clinic, the Institute of Child Development, Family Practice and Community Health, and several others.

The University's sources of operating income other than the State are appropriations from the Federal government (\$5,170,960); student tuition and fees (\$24,860,738); self-supporting auxiliary services (\$33,923,680); gifts, grants and contracts (\$63,602,067), and fees for services such as those provided at University Hospitals (\$44,372,979).

Expenditures for building, remodeling and land purchases, totaling \$33,291,481, were distributed as follows: Minneapolis campus, \$15,732,178; St. Paul campus, \$6,422,623; Duluth campus, \$5,333,922; Morris campus, \$2,962,472; Crookston and Waseca campuses, experiment stations and "other outlying facilities", \$2,840,286.

At the close of the fiscal year, the market value of the investments in the University total endowment fund totaled \$81,627,373.



THE CHEMICAL SYNTHESIS THEORIES of Dr. Michael Martell '54BS '58PhD, left, and Dr. James H. Boothe '43PhD, recipient of the University of Minnesota Outstanding Achievement Award, led to the development of Minocin® minocycline, a fourth-generation tetracycline antibiotic of Lederle Laboratories. Both men are research scientists for Lederle, Dr. Boothe since 1943 working in the the fields of vitamins, cancer chemotherapy, antibiotics and other medicinal chemistry problems, and Dr. Martell, working in the areas of antibiotics and chemotherapy of bacterial diseases until 1970 when he became manager of product development, Medical Research, Cyanamid International.

The boil on Marilyn Rose's eyelid was puzzling.

Even more serious were the additional 67 boils which developed, and the passing of the infection to her husband. Several trips to the family physician proved fruitless; despite treatment with some of the most modern potent drugs known in 1955 — penicillin, tetracyclines and others — the boils persisted.

Her daughter was sent to stay with relatives to eliminate any chance of the infection striking her, thus completely destroying the family's normal life.

Marilyn's infection came to the attention of the medical department of American Cyanamid's Lederle Laboratories in Pearl River, N.Y., where she worked as a secretary. The stubborn resistance of the boils prompted taking a smear sample to be cultured for laboratory study.

Dubbed Staph Rose after its donor, the culture lived on in the laboratory as the object of intense interest on the part of Lederle scientists.

This culture became an integral part of the costly search for a new, more potent antibiotic, a drug that could prove effective against an expanded range of infections, including the doggedly resistant Staph Rose.

Spearheading a team of more than 150 scientists and technicians, Drs. James Boothe '43PhD and Michael Martell '54BS '58PhD undertook a research campaign that Dr. Boothe summarized as:

"Since the existing tetracyclines were ineffective against quite a number of infections, our theory was that by changing the molecular structure we might find a more potent compound — one having a still wider spectrum of therapeutic activity."

Minocin® minocycline was the result.

MINNESOTA PEOPLE

However, before success was achieved more than \$7 million was spent on research and development, more than \$3 million in new plants and equipment, a total of some 400,000-man hours were expended and more than 10 years passed.

Such painstakingly slow, expensive progress usually accompanies the development of significant new pharmaceuticals.

And, particularly a powerful new, totally innovative tetracycline drug whose need rose from hospital reports showing increasing difficulties with resistant staphylococcal and streptococcal infections, boils and carbuncles, pneumonia, sinusitis, laryngitis and a host of other ailments.

Dr. Boothe, then a veteran of 12 years with Lederle as a research scientist, had been working in this direction for many years.

His personal honors in science were numerous and included a part in the discovery of folic acid and of cancer treatment compounds. He was active in the development of Achromycin, one of the most widely prescribed antibiotics in the world.

The University of Minnesota honored him with an Outstanding Achievement Award in 1962 for his work in the fields of vitamins, cancer chemotherapy, antibiotics and other medicinal chemistry problems.

Research in the tetracycline area usually revolves about testing with soil cultures. Dr. Boothe, however, tried a new approach for tetracycline re-

search — synthesis. Instead of searching for a new soil culture, he would modify the existing chemical structure of the parent tetracycline in an attempt to create a more effective compound.

The search was slow. More than six years passed during which hundreds of compounds were formulated, checked and re-checked, tested and re-tested against Staph Rose and other highly resistant organisms.

"Most were less active than the original compounds. A few showed about equivalent activity, and one or two showed superiority in some properties, but overall were not good enough.

"It was frustrating and discouraging," Dr. Boothe said.

Dr. Martell, a young scientist who had joined the Boothe research group only months earlier — after post-doctorate study at the University of Minnesota as an Alfred P. Sloan Fellow and at the University of Illinois as a U.S. Public Health Fellow — studied the data on previous attempts to enhance the tetracycline molecule's antibacterial activity through chemical introduction of nitro and amino groupings.

He then sought approval to conduct a chemical synthesis which would involve the introduction of a second basic group into the molecule, the dimethylamino grouping.

Key members of Boothe's team at first disagreed on the course the experiments should take, but, "fortunately for us," Dr. Boothe said, "we decided to go along with Mike's thinking."

The breakthrough came July 5, 1961. A compound developed by Dr. Martell in association with Dr. Boothe was injected into five Staph Rose-infected mice.

The next morning when the mice were checked they were found alive.

(Continued on page 35)

THE UNIVERSITY

TWENTY PERCENT OF UNIVERSITY STUDENT BODY RECEIVES FINANCIAL AID

Nearly one out of every five students on the University's Twin Cities campuses will receive some kind of financial aid this year: an estimated 8,000 students out of a student body of approximately 43,000 will receive loans or scholarships from University funds or through programs administered by the institution.

These students are sharing an aid fund which totals \$7,544,175 — an average of \$943 per recipient.

Last year's aid fund was \$6,187,000 — an average of \$838 for each student who received financial aid.

This year's average aid figure of \$943 compares with costs of \$2,000 for a student who commutes from home, and \$2,550 for a campus resident to attend the University. These are figures which the University's Office of Student Financial Aid (OSFA) recognizes as minimum budgets against which requests for financial aid are balanced.

The minimum budgets include costs of tuition and fees, books and supplies, and incidentals such as medical costs, recreation and grooming.

Due to this fall's increase in tuition and fees — which rose an average of \$26 per student per quarter — and the increase in the cost of living, about 1,000 more students applied for aid this year than last.

"Although the University received about 15 percent more federal money for financial aid in 1971, this will only help meet the increased cost of attending

the University," said Samuel R. Lewis, newly named OSFA director.

In the last seven years, the total amount of aid available from the University to its students has grown from slightly over \$2 million — an average of \$427 per recipient — to the present \$7.5 million-plus figure.

The number of students receiving aid has also increased, from an estimated 5,000 recipients in 1964 (about 15 percent of that year's student body) to the present estimate of 8,000.

Several sources contribute to the University's financial aid total. The federal government has been the largest provider, especially through its National Defense Student Loan program which this year is providing \$2.8 million to University students. The College Work-Study program, for which the federal government provides the majority of the funds, grew by about \$200,000 this year over 1970's total of \$809,000.

Private groups and individuals sponsored about \$300,000 in scholarships for students this year.

"The University is providing a substantial portion of the aid being awarded in 1971, including \$600,000 in scholarships and \$500,000 in loans from University monies," Lewis said.

However, he emphasized that the amount of aid money available is not enough to meet students' needs.

"We could use considerably more money for the present student body," he said. "The Col-

lege Work-Study program alone could utilize three times the \$1 million now available."

The number of students who borrow money from off-campus sources is probably greater than those who receive University aid, according to Lewis.

He estimated that 8,000 to 10,000 students this year will borrow \$8 to \$10 million through the Federally Insured Student Loan program — an average of \$1,000 per student.

U ENROLLMENT CONTINUES TO INCREASE SLIGHTLY

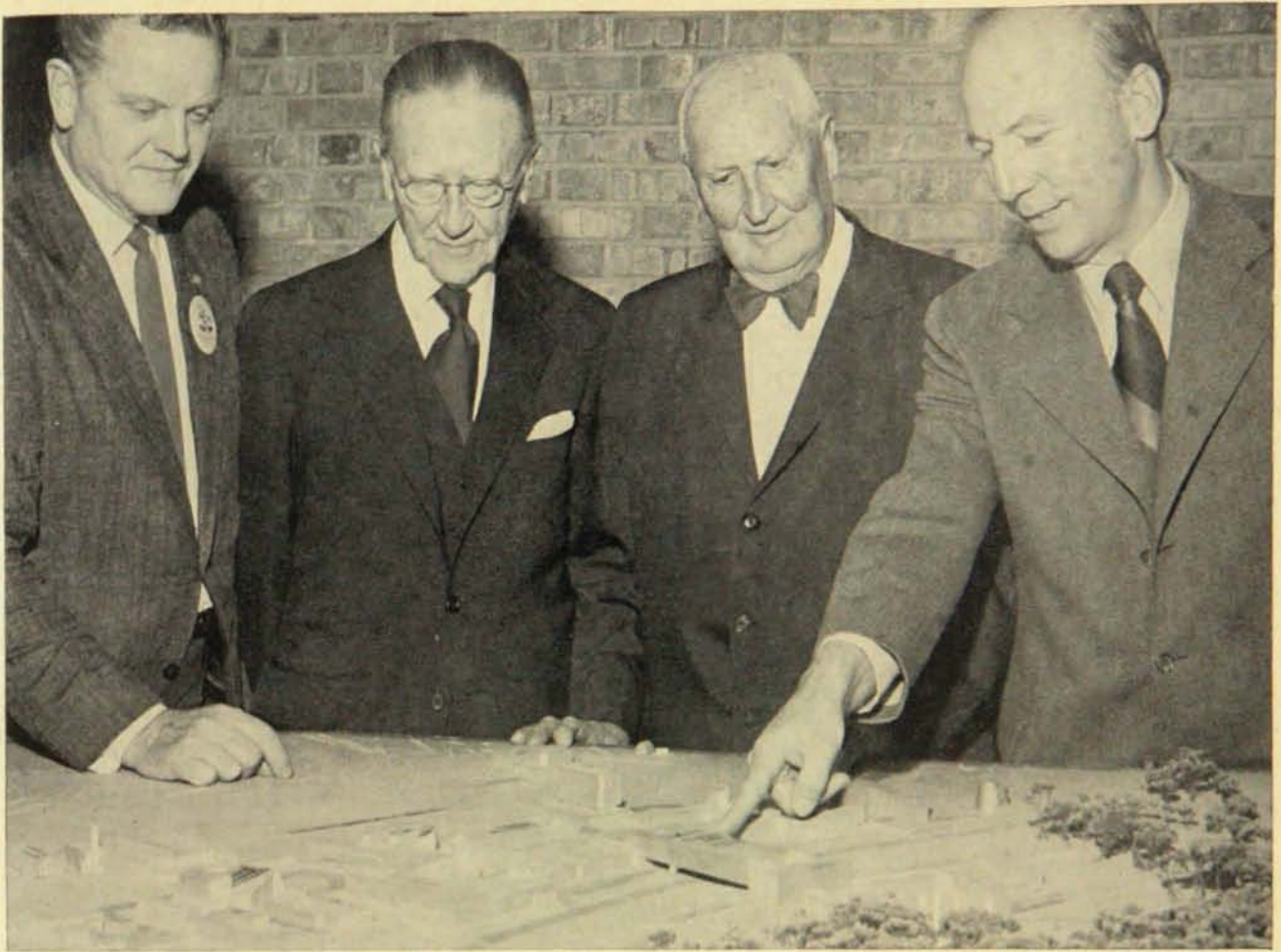
Enrollment of regular daytime students at the University increased by just 194 students this fall over last year's fall enrollment — to 51,245 from 1970's enrollment of 51,051.

These figures indicated only the number of students who had registered at all campuses by October 8, not how many actually paid fees or who registered after that date.

The University's coordinate campuses will report slightly higher figures because of the advanced processing done on these campuses.

Duluth has reported 5,367 students, including graduate students; Morris, 1,714 students; Crookston, 526; and Waseca, 134.

Figures for the four campuses this year as compared to 1970 show the Twin Cities campus



PRESIDENT EMERITUS J. L. MORRILL recently visited the Minneapolis and Duluth (UMD) campuses of the University of Minnesota. He is shown above, second from the left, during his late October visit to Duluth. With him looking at a model of the UMD campus are, from the left, UMD Provost Ray W. Darland, former University Regent Dick Griggs and Assistant UMD Provost Robert Heller.

at 43,061 (up 183 students over 1970), Duluth down 192 students, Morris down 7 students and Crookston up 95.

A surprising enrollment increase occurred in the College of Liberal Arts (CLA), the University's largest college, which was anticipating a six percent decrease in new students. CLA was one of several colleges asked by University President Malcolm Moos to set an enrollment ceiling due to legislative cuts in the University's budget.

When it appeared early this fall that CLA enrollment was below the projected and controlled ceiling, the ceiling was lifted, but an increase in new

student enrollments and an increase in the number of upperclassmen returning, accounted for a total CLA increase of 247 students.

The Law School, whose enrollment is usually steady, shows an increase of 49 students. And the Institute of Technology, which experienced a 33 percent decline in new student enrollments, shows a total decrease of only 153 students, due to a higher retention rate of upperclassmen.

The total freshman class is 8,188 at all campuses, compared with 8,639 last year.

Of the total freshman class, 5,796 are on the Twin Cities campus, 1,058 at Duluth, 525 at

Morris, 260 at Crookston, and 99 at Waseca.

Registration figures for the various colleges and divisions of the University, at the end of the second week of classes, show the General College at 3,057 students (down 212 from 1970); University College at 297 (up 172); Agriculture, Forestry & Home Economics at 2,943 (up 77); the Medical School at 789 (up 84); Medical Technology at 140 (up 17); Mortuary Science at 95 (up 23); Occupational Therapy at 60 (up 3); Physical Therapy at 97 (up 1); the School of Nursing at 307 (up 33); Public Health at 223 (up 15); the School of Dentistry at 453 (up 30);

THE UNIVERSITY

Dental Hygiene at 125 (up 1); the College of Pharmacy at 325 (up 31); the College of Education at 2,851 (down 261); the School of Business Administration at 1,131 (up 97); the Graduate School on the Twin Cities campus at 7,408 (down 165); the Graduate School on the Duluth campus at 116 (up 7); the Graduate School of Medicine at Mayo in Rochester at 501 (no change over 1970); Veterinary Medicine at 255 (up 17); and Biological Sciences at 324 (up 100 students).

NEW ENGINEERING PROGRAM PROMISES EDUCATION, JOBS

A program to guarantee engineering students a free education, salaried work experience and a job after graduation was initiated at the University's Twin Cities campus this fall.

The Mineral Resources Research Center at the University and the U.S. Bureau of Mines are cooperating in the effort to attract students to mining careers and finance their education through a work-study arrangement.

Up to 10 students may participate each year in the program which is open to students interested in any area of engineering, although the majority probably will come from mineral and geological engineering areas.

The cooperative work-study program will operate on a 12-month basis with students attending the University for a period, then working for the Bureau for an equal time period. For instance, a student may study at the University for a quarter, then work at the Bureau for three months. A student could enter

the program immediately after high school graduation.

The Bureau will pay participating students' tuition, fees, books and travel expenses, plus a salary while he is working. The students must go to work for the Bureau after graduation, however, or pay back their educational expenses.

James Guentzel, University coordinator for the program, said the Bureau is attempting to initiate similar work-study programs at all mining schools in the nation.

"Since the Bureau is basically an experimental lab, the type of work a student will do there could include mine design, tunnel safety, or surveys and investigations, under the guidance of professionals," Guentzel said.

The program will require five years for the normal four-year undergraduate degree. Heads of engineering divisions within the University's Institute of Technology will make the decisions on participants.

A similar program already exists in the civil engineering division, the main differences being the guarantee of employment after graduation and earlier entry provided on the Bureau's program.

90% OF FROSH MED STUDENTS ARE STATE RESIDENTS

More than 90 percent of this year's freshman class at the University Medical School are state residents.

There were almost 1,700 applicants for the 227 openings compared with 980 applicants last year. According to Dr. W. Albert Sullivan, dean of admissions, one out of every 16 applicants to medical schools in the country applied to the University of Minnesota.

He emphasized that non-residents were not considered unless they had some state tie.

Two hundred students are from Minnesota and another 12 come from neighboring states.

Of the state residents, 60 percent come from the six-county metropolitan area; 4 percent from Rochester, and 2½ percent from Duluth. The rest are from 61 communities all over the state.

The freshman class includes 24 women and 14 students admitted under a minority-student program. Dr. Charles McKhann, program director, explained that three Chicano and 11 black students were accepted in this third year of the program. Currently there are 12 other students from the program in Medical School.

About one-third of the freshmen took their pre-med training at the University of Minnesota; 35 percent took it at other schools in the state, 6 percent at schools in surrounding states.

The Medical School is in the second year of a federally financed Physicians Augmentation Program which permits the acceptance of 60 more students than would normally be admitted.

REGENTS APPROVE HUMAN SERVICES TRAINING PROGRAM

A program to train paraprofessional workers for the human services fields was approved recently by the University's Board of Regents.

The program is being offered through the General College and the department of psychiatry. Initially, a maximum of 30 students will be enrolled each year, with recruitment directed to persons now employed in the human services—such as employees in mental hospitals, county welfare departments, correctional systems, day activity centers and, institutions for the retarded, hospitals, schools or nursing homes.

The purpose of the new program is to upgrade the quality of services provided for clients and patients by human service institutions, and to upgrade the skills of the paraprofessional



in human services so that he may overcome rigid stratification of education and employment and wasteful repetition of training and experience.

The program will consist of six quarters – about two academic years – of classroom and practical preparation, and courses will include human growth and development, psychology, communication skills, behavior problems of children, crime and delinquency and the helping process.

Practical assignments will be given in more than one setting and will be closely related to the academic work.

Because participants will come into the program with different backgrounds, each program will be individually prepared.

Certificates from the U's department of psychiatry will be awarded to those who successfully complete the program. Individuals, who otherwise qualify and meet requirements, may also apply for the General College Associate in Arts or Bachelor of Applied Studies degrees.

The program will be conducted in cooperation with other similar programs offered in the state by both public and private institutions.

REGENTS APPROVE SEATING OF SIXTEEN NON-VOTING STUDENTS ON COMMITTEES

The Board of Regents has approved the seating of 16 non-voting students on eight of its committees, excluding the executive committee.

Earlier, the Board's faculty, staff and student affairs committee had passed Regent Elmer Andersen's motion that students be seated as non-voting members of the committees on a trial basis until the end of the school year. Recognizing that other special interest groups,

such as the faculty, might ask for similar representation, Andersen said his motion specifically excludes any other additions during the trial period.

Regent Loanne Thrane amended the motion to add 16 students, instead of 8, and both the amendment and the motion were passed by the committee and subsequently by the full Board.

In specifying that the only addition during the trial period would be students, Andersen said he was willing to exclude any other groups because "students are what it's all about, they're what we're here for."

Student body presidents from Crookston, Duluth, Morris and the Twin Cities expressed displeasure with the Regents' action.

In a statement following the Regents' action they said the Regents' had "drastically altered" the plan students had proposed for the seating of students on committees. The student leaders are unhappy with the provisions denying students the right to vote and with the selection process utilizing the University Senate committee on committees, which they said is dominated by faculty.

ERRATUM

Chester Wilson '12LLB, Stillwater, Minnesota, was erroneously reported as deceased in the 1971 November issue of The Alumni News. We have heard from his brother Henry, a 1922 Institute of Agriculture graduate, that Wilson is very much alive and active. Although he retired in 1970 from a Stillwater law firm, he still works for the group when they are short-handed.

The Alumni News apologizes for its error.

alumni news
**AROUND
 AND ABOUT**

BUSINESS ADMINISTRATION

'26

Waldo E. Hardell '26BSB, retired consultant for Alexander & Alexander, Inc., Minneapolis, and a past president of the Minnesota Alumni Association, was recently appointed by Minneapolis mayor Charles Stenvig to head a special citizens "Jobs for Vets" committee. Similar local committees are being set-up all over the nation to help returning Vietnam veterans find jobs in local business and industry. These vets are being specially helped under the Employment Act of 1971 since national surveys have shown them to have the highest percentage of unemployment. Through the unemployment Act, Minnesota is receiving \$22 million in funds to help returning Vietnam vets find local, county and state government jobs. The local committee has received strong support from the Minneapolis business community, backed by active participation in its purely volunteer work. The committee recently finished a very successful October campaign because of the efforts of the VFW, American Legion, Greater Minneapolis Chamber of Commerce and The National Alliance of Businessmen. Hardell's committee is composed of 35 leading businessmen engaged actively in veteran employment. His group has established a Minneapolis hot-line for returning veterans and for business and industry inquiries — the number to call is 333-6653.

'39

George F. Gustafson '38BS '39MS has joined the Bloomington (Minn.) firm of LaHue Investment Company, Inc., as a registered representative.

'47

Louis R. Brewster '47BBA, Plymouth, Minn., vice president and general manager of Cat Pumps International, Minneapolis, has been elected president of the Minnesota World Trade Association. He was named "1969 Minnesota World Trader-of-the-Year" by the Greater Minneapolis Chamber of Commerce.



HARDELL



BREWSTER



BROWER



FINN

Gerald W. Brower '47BBA has been named director of taxation and assistant secretary of The Pillsbury Company. He has been active in the field of corporate taxation for 20 years and currently is national vice president of the Tax Executives Institute.

'48

Michael C. Finn '48BBA has been named general manager of the General Electric Lamp Division's new lamp sales department at Nela Park, Cleveland, Ohio. He joined GE in 1948 as a salesman with Lamp Division's northern sales office in Minneapolis.

'51

A. Nord Bjorke '51BSB, Schwenksville, Pa., has been elected assistant vice president, Insurance Company of North America. He joined INA in 1954 as a technical representative in Minneapolis.

'52

William L. Meck '52BBA, West Chester, Pa., was elected assistant secretary, Insurance Company of North America recently. He joined INA in 1955 as a special agent in the company's Minneapolis service office.

'53

Richard P. Hoyland '53BBA, form-

An RCA Fellowship in Science and Engineering honoring Elmer W. Engstrom '23BSEE, former president of RCA, has been established at the University.

Candidates for the Fellowship should be full time pre-doctoral graduate students in electronics, electrical engineering, computer/information science or engineering, physics or mathematics. The Fellowship, which is open to both men and women and includes payment of full tuition, a stipend to the fellow and a grant to the department in which the fellow is majoring, began with the 1971-72 academic year and is expected to continue for 10 years. The selection of the fellow will be handled by the University.

Engstrom, who is currently a trustee of the University Foundation, served as president and then chief executive officer of RCA before retiring as an employee in 1969 after more than 45 years of service. He continued on the board of directors and as chairman of the executive committee until he chose earlier this

year not to stand for re-election to the board.

Prior to his being named RCA president in 1961, Engstrom spent many years directing the research and engineering activities of the Radio Corporation of America (now the RCA corporation). Beginning in the early 1930's, he assumed immediate supervision of RCA's television research program, leading to the development of a practical commercial black-and-white television system in 1939. In the postwar years, as head of RCA laboratories, he directed a similar program that led to the achievement by RCA of the compatible all-electronic color television system.

Engstrom has received 18 honorary degrees from colleges and universities in the United States and Europe. He has also been presented with the University's Outstanding Achievement Award, the rank of Commander of the Royal Order of Vasa by the King of Sweden, and the Founders Award of the Institute of Electrical and Electronics Engineers.



HOYLAND



OLSON



AMDAHL



MESJAK



TILLESKJØR

erly senior securities analyst with All States Management Co., Los Angeles, Calif., has been named vice president-investments in the trust department of National City Bank of Minneapolis.

'56

Robert C. Olson '56BBA, New Canaan, Conn., is currently serving as senior vice president-operations of Data Processing Financial & General Corporation. He joined the firm as a vice president in 1969 after 13 years with IBM.

'57

John D. Flakne '57BBA, Skokie, Ill., who joined Montgomery Wards in 1961 as a media contracts specialist and became media research supervisor in 1965, has been appointed to the newly created position of retail promotion business manager.

'58

B. J. Amdahl '58BBA has been elected a director of The Cornelius Company, international manufacturer of beverage vending and dispensing equipment. He is vice president, finance, and treasurer of Cornelius.

Fred R. Friswold '58BBA, vice president and director of Dain, Kalman & Quail, Inc., has been promoted to vice president of retail administration. He joined the firm in 1958.

'60

Theodore C. Mesjak '60BBA has been appointed manager of the Cleveland, Ohio mortgage loan regional office of the Northwestern Mutual Life Insurance Co., Milwaukee, Wisc. He has been district manager of NML's Minneapolis mortgage loan office since 1969.

Darrell E. Tilleskjer '60BBA has been appointed to the newly-established position of controller at Paul Burke and Associates, Inc., Minneapolis. He comes to his new post from Premium Service Corporation where he held a number of managerial accounting positions.

'61

Jerry C. Figenskau '61BBA has been transferred to the Hormel Company's Corporate offices in Austin, Minn., to become product marketing manager in the Grocery Products

division. He has been with Hormel since graduation.

'64

John F. Crinklaw '64BBA, who has been with National City Bank of Minneapolis since 1969, has been named investment officer in the bank's investment department.

'65

H. James Roitenberg '65BSB, security analyst in the research department of Dain, Kalman & Quail, Inc., Minneapolis, has been elected an assistant vice president of the regional investment banking firm. Before joining DKQ in 1967 he was employed by the Duluth, Missabe

'15

Sigurd Hagen '15BA of Connecticut was one of four Moorhead State College alumni to receive the 1971 Distinguished Alumnus Award. Hagen is also a recipient of the University of Minnesota's Alumni Service Award. He has been the MAA's key man in the New York City alumni chapter for nearly 40 years.

'26

Carl O. Mohr '26BA, noted entomologist, mammalogist, parasitologist and a true ecologist, has become the first emeritus member of the Wildlife Disease Association. The author and co-author of numerous professional



FIGENSKAU



CRINKLAW



WOOD



WARD

and Iron Range Railway Co. as a financial analyst.

'66

Grant L. Wood '66BBA, Robbinsdale, Minn., has been promoted by International Multifoods to product manager for Kretschmer Wheat Germ. After two years in the U.S. Army, he joined the diversified foods company in 1968 as a market research analyst.

'69

Raymond J. Hanson '69BBA has joined Geigy Agricultural Chemicals, a division of CIBA-GEIGY Corporation, Ardsley, N.Y., as a field representative. Prior to joining Geigy, he was a sales supervisor with Smith-Douglas, a division of Borden Chemical.

papers, he is also a gifted illustrator and painter.

'40

Army Colonel Linus P. Ward '40BA, Colorado Springs, Colo., was recently assigned as special assistant to the commanding general, Army Air Defense Command, for the Modern Volunteer Army at Ent Air Force Base, Colo.

'48

Mrs. Marion P. Downs '48BA, Denver, Colo., director of clinical audiology at the University of Colorado Medical Center, has been promoted to assistant professor of audiology in the division of otolaryngology in the School of Medicine. She has been a member of the medical faculty since 1959.

'52

Louis J. Jansa '52BA was recently appointed an assistant administrator

LIBERAL ARTS

alumni news
**AROUND
AND ABOUT**



BOTZ



TAYLOR



JANSA



MANTHEI

in charge of all financial matters of Herrick Memorial Hospital, Berkeley, Calif. Previously he was a principal budget analyst in the office of the president at the University of California.

'56

Richard J. Botz '56BA has been appointed manager-employee and community relations at General Electric's circuit and protective devices department. He joined the company in 1956 as a member of the relations management program.

'61

Paul A. Taylor '61BA, Plymouth, Minn., has been promoted to general manager of International Multifoods Kaukauna Dairy Company in Kaukauna, Wisc. He joined the Minneapolis-based diversified foods company in 1962 in a management training program.

'63

Thomas R. Hedin '62-62, an associate dean of students and assistant professor of psychology, is presently serving on the student personnel staff of Lewis and Clark College, Portland, Ore. While at the University of Minnesota, Hedin was the coordinator of the Freshman Financial Aid Program.

'64

James W. Eckblad '64BS, currently an instructor in the department of entomology and limnology at Cornell University, will join the biology department at Luther College, Decorah, Iowa, this fall.

Dennis G. Sherva '64BA, formerly a vice president in the research department of Smith, Barney & Company, Inc., has joined Baker, Weeks & Company, Inc., in the investment firm's research department.

'67

Army Staff Sergeant Thomas F. Brothen '67BA, Minneapolis, recently received the Army Commendation Medal while serving with the 1st Cavalry Division (Airmobile) near Phuoc Vinh, Vietnam. He earned the award for meritorious service as a noncommissioned officer in charge of the mental hygiene clinic in the headquarters and service company

of the division's 15th Medical Battalion.

Harvey C. Olson '67BA, Faribault, was recently promoted to Army Specialist 5 while serving with the 159th Engineer Group near Long Binh, Vietnam. He entered the Army in May 1969.

'68

Specialist Four Frederick T. Abuan '68BS, St. Paul, recently received the Army Commendation Medal, awarded for meritorious service. Abuan is assigned to the U.S. Army Strategic Communications Command Signal Support Detachment in Vietnam.

Army Specialist 4 Theodore T. Haugen, Jasper, recently received the Army Commendation Medal near Saigon, Vietnam for meritorious service. He is assigned as a repairman in the Signal Support Agency Phu Lam.

Army First Lieutenant Timothy W. Jorissen '68BA, Minneapolis, a supply officer for Headquarters Company, 1st Battalion, 12th Cavalry of the 1st Airmobile Cavalry Divi-

sion, recently received his fourth award of the Bronze Star Medal near Bien Hoa, Vietnam.

'69

Army Second Lieutenant David M. Nisbet '69BS, Matawan, N.J., was recently assigned to the 4th Transportation Command in Vietnam as a motor officer in the command's Headquarters Company near Long Binh.

Gregory S. Wong '69BA, Minneapolis, was recently promoted to Army Specialist 4 while serving with the Second Armored Division at Fort Hood, Texas. He is assigned as an information specialist with Headquarters and Company A of the Division's 124th Maintenance Battalion.

Army Specialist 4 Michael B. Dardis '69BA, Princeton, Minn., recently received the Army Commendation Medal near Song Be, Vietnam. He is assigned as a chart operator with Battery A, 1st Battalion, 77th Artillery of the 1st Airmobile Cavalry Division.

'70

Rexford A. Loker '70BA, Neenah, Wisc., was recently promoted to Army Specialist 4 near Chu Lai, Vietnam, where he is serving with the 39th Engineer Battalion.

Mrs. Toyse Ann Kyle '70BSED '70BA, Brooklyn Center, recently joined the staff at Brooklyn Center High School where she teaches speech, communications and theatre arts. She is also working as a teaching specialist in the English department at the University and as a freelance producer-writer of local educational television tapes for KTCA-TV.

LAW

'22

Alfred J. Schweppe '22LLB, retired chairman of the Seattle Crime Prevention Advisory Commission, was recently honored by Seattle police for "Distinguished Service" as chairman of the Citizen's Advisory Group since 1969. The plaque's inscription

Senator Hubert H. Humphrey '39BA delivered the Fourth Annual Harold S. Diehl Lecture in mid-October at the 99th Annual Meeting of the American Public Health Association in Minneapolis.

The annual Diehl lecture honors the former chief medical officer of the American Cancer Society who had previously served as dean of the University of Minnesota Medical School for 25 years. Dr. Diehl '18MD '21MSMed is the author of *Tobacco and Your Health: The Smoking Controversy*, the standard book on the health hazards of cigarette smoking.

Humphrey's lecture was delivered at a luncheon sponsored by the American Association for World Health, the American Cancer Society, the Public Health Cancer Society of America and the American Public Health Association.

WASHINGTON STATE BAR NEWS



GIANT AT THE BAR

described the attorney as "Seattle's Finest Citizen." Schweppe said that the work of the commission in helping inform the public of methods of crime prevention has had an impact on the crime rate locally. "The police alone can't enforce the law . . . It takes citizen cooperation," he said.

'31

Frank M. Rarig, Jr. '29BA '31LLB, Afton, Minn., resigned in June after 31 years as the executive secretary of the Wilder Foundation. Two notable Wilder Foundation projects that bloomed under Rarig's administration include the Wilder Residence complex on St. Paul's West Side and the 18-acre campus of the Child Guidance and Development Center, St. Paul. The residences are for the elderly and the center for children. For the next year Rarig will be a consultant to the Foundation.

'52

Russell M. Bennett '52LLB has been elected to a two-year term as a director of Gamble-Skogmo. Bennett is an attorney and partner of the Minneapolis law firm of Haverstock, Gray, Plant, Mooty and Anderson. He joined the firm in 1954.

'66

Paul G. Brewer '66JD, Winona, Minn., has been appointed to serve as assistant county attorney by the Winona County Board of Commissioners. Before coming to Winona, Brewer was a resident of Bismarck, N.D., where he was recognized as "Young Man of the Year" in 1960.

'67

Richard D. Manthei '67JD, who joined the American Hospital Supply Corporation in 1970 as attorney-regulatory affairs, has been promoted to assistant secretary. Earlier he served as attorney for Eli Lilly and Company, Indianapolis.

GRADUATE

'48

Mrs. Kay W. Blair '48MA '62PhD, St. Paul, has joined the staff of Hamline University, St. Paul, as a part-time instructor. Her most recent

ALFRED J. SCHWEPPE '22LLB, Seattle, Wash., was recently saluted by the *Washington State Bar News* as a cover personality for his "great service to the Bar for more than forty years" and for a career that "has exemplified the best traditions of the profession."

Schweppe moved from Minneapolis to Seattle and was admitted to the bar there the year of his graduation. Two years later he formed his own firm, and in 1929, at the ripe age of 31, became dean of the law school at the University of Washington.

He left the deanship in 1930 to re-enter private practice as a partner in the firm of McMicken, Ramsey, Rupp & Schweppe, and has remained there since.

Schweppe, as an unstinting worker for the Washington State Bar Association, particularly during its organizational years, has served that group as executive secretary and president. He has also worked hard for the American Bar Association, as a member of several standing committees, a veteran member of the House of Delegates, and actively on the Board of Editors of the *ABA Journal*.

Schweppe, who has edited two definitive books on Federal Court procedure, has become famous in Seattle in recent years as a keeper of the public conscience.

alumni news
**AROUND
AND ABOUT**



McGRATH



HILGENDORF



WALSH



GLADEN

teaching position was that of assistant professor of mathematics, Minnesota School of Mathematics and Science Center, University of Minnesota, from 1965-68.

'55

John Furlong '54BS '55MA '57PhD, vice president, Stout State University, Menomonie, Wisc., and president of the West Central Wisconsin Alumni chapter, is part of a three-man team serving for two months in South Vietnam as consultants for the U.S. Department of State. The team will evaluate secondary education and make recommendations on needs for improvements. This is Furlong's second trip to Vietnam; he participated in a similar study in 1967.

'57

Theodore M. Nelson '49BS '57MA '61PhD, dean of psychological services at the University of Northern California, Greeley, was the keynote speaker at the recent New Mexico Personnel and Guidance Association Convention in Santa Fe.

'61

Dr. Bailey L. Donnally '61PhD, professor of physics at Lake Forest College, Lake Forest, Ill., whose last "serious bout" with black-and-white photography ended, he said, when he was a collegiate yearbook picture editor, has won a gold medal at the Seattle International Exhibition of Photography. The prize-winning photograph, "Russian Cathedral", was taken on a trip to the Soviet Union four years ago, and was one of three of his works accepted for exhibit.

'66

Gerhard J. Joseph '66PhD has been promoted to the rank of professor by Herbert H. Lehman College of The City University of New York. He is a member of the college's English department.

'68

Karl F. Swingle '68PhD has been promoted to research specialist in pharmacology at the 3M Company, St. Paul. He joined 3M in 1968.

Stephen E. Frantzich '68MA, Robbinsdale, Hamline University's newest and youngest trustee,

attended his first board meeting in January. He was chosen earlier this year by the alumni association to fill a new board position created especially for a recent Hamline alumnus. Frantzich received his MA from the University and is currently working on his PhD in political science.

INSTITUTE OF TECHNOLOGY

'10

Farrington Daniels '10BChem '11MS, Madison, Wisc., recently visited the University of Minnesota to celebrate the 75th Anniversary of the founding of Sigma Xi, honorary scientific society. Daniels, who was representing the University of Wisconsin, had been initiated by the Minnesota chapter 60 years ago. He is the holder of a University of Minnesota Outstanding Achievement Award.

'42

Henry P. "Hank" Huff '42BAeroE, Hillsborough, Calif., as president and chief operating officer of Trans International Airlines (TIA), one of the world's largest vacation charter carriers, is responsible for all facets of TIA's activities. He was elected TIA president in 1969 after serving as executive vice president since 1964 when he joined the company. Huff has been a director of the airline since 1967. From 1962 to 1964 he was executive vice president and director of Slick Airways, Inc. Earlier he had served Slick as vice president of operations and maintenance, operations manager and chief engineer. He began his professional career as an aerodynamics and flight test engineer for Curtiss Wright Corp.

'45

Dr. Walter E. Haris '45PhDChe of the University of Alberta (Canada) was the recipient of the 1969 Fisher Award in Canada. This is the highest award for any analytical chemist in that country and in the United States.

'50

Henry E. Hennis '50BChem, Coleman, Mich., a scientist in the Midland division of Dow Chemical U.S.A.

who has devoted a 15-year Dow career to organic chemistry, has been named an associate scientist. Hennis is the author of 15 scientific publications and 25 U.S. patents, and has presented scientific lectures throughout Dow and at professional meetings.

'54

Donald E. McGrath '54BGE has been named general manager of Cornelius Manufacturing Company Limited, a Canadian subsidiary of The Cornelius Company, international manufacturer of beverage vending and dispensing equipment.

'59

Allan D. Hilgendorf '59BS, Menomonie, Wisc., has been awarded a Shell Merit Residency for study in physics during 1971-72 at Cornell University, Ithaca, N.Y. The Shell program was started in 1961 to help improve high school science and mathematics teaching. Currently on leave from his job as a physics instructor at Stout University, Menomonie, Hilgendorf studied at Stanford University in 1965 under a Shell Merit Fellowship and in 1970-71 at Cornell under a Shell Junior Residency.

'64

Dennis F. Walsh '64BArch has been named chief designer for the Minneapolis branch office of Ellerbe Architects. He joined the firm in 1969 after having been associated with the architectural firm of Hellmuth, Obata & Kassabaum, Inc., St. Louis.

'67

Alfred M. Gladen '67BEE, Columbus, Ohio, has been appointed manager of digital system test, control systems division, Industrial Nuclear Corporation. He joined IN in 1967 as a field staff engineer.

'70

Four University alumni have recently joined the Dow Chemical Company at its Midland division. The men include Lawrence D. Berg '70BCE, who is working in the Halogens Research laboratory; Peter A. Doty '70BMetE, working in the Materials Engineering laboratory; Michael R. Heller '70BCE, in the



MEHLUM



PERKINS



GALE



TIBBETTS



CUSHING



HAALAND

Agriculture Chemicals production department; and Lester D. Nichols '70BCE, in the Special Assignments program.

DENTISTRY

'23 Dr. Howard B. Shepard '23DDS, a general practitioner who has been actively involved in dental affairs ever since graduation, recently received the merit award of Lambda Delta Sigma from the Lincoln Dental Society. He was president of the Kenwood-Hyde Park (Ill.) branch of the Society in 1970-71. Dr. Shepard has also been active in the Boy Scouts, receiving the Silver Beaver Award for his work.

'40 Dr. Charles J. Mehlum '40DDS, Phoenix, Ariz., was recently elected president of the Arizona State Dental Association. He is also president of the Pacific Dental Federation and the American Association of Pedodontic Diplomates, a member of the board of directors of the American Academy of Pedodontics and of the house of delegates of the American Society of Dentistry for Children.

MEDICAL SCIENCES

'22 Dr. James B. Vail '19BS '21MB '22MD has recently retired in Santa Cruz, Calif. He left Minnesota, after 18 years of practice in the state, for five years active duty with the U.S. Navy where he was attached to the U.S. Marine Corps; he became regimental surgeon of the 8th Marine Regiment and later chief of staff at the U.S. Navy Special Convalescent Hospital in Santa Cruz. Later he was retired as a commander, U.S. Naval Reserves. During 25 years of general medical and surgical practice in Santa Cruz, Dr. Vail has been active in professional, community and cultural affairs. He was recently honored by election to life membership in the American Academy of General Practice, and

to senior membership in the Pan-Pacific Surgical Association. In 1968 he was awarded a 50-year diamond football "M" pin at the Annual M Club banquet on the University of Minnesota campus.

'30

Dr. James E. Perkins '30MD, managing director of the National Tuberculosis and Respiratory Disease Association, has been selected for membership in the Society of Scholars of The Johns Hopkins University. The Society honors former postdoctoral fellows at Johns Hopkins who have gained marked distinction in their fields of academic or professional interest.

'38

Dr. Harry A. Hanson '33BS '37BMed '38MD, Rochester, N.Y., has been appointed medical director of the Eastman Kodak Co. He has been with Kodak since 1940, except for five years of service in the U.S. Marine Corps.

Dr. Arthur M. Olsen '38MS, Rochester, Minn., professor of medicine at the Mayo Graduate School of Medicine, has been appointed to the National Advisory Heart and Lung Council of the National Heart and Lung Institute.

'41

Dr. Elizabeth Miller '41BS, a professor of oncology at the McArdle Laboratory of the University of Wisconsin School of Medicine, along with her husband, also a professor in the same field, has received the Bertner Foundation Award. The Millers were recognized for "their contributions to knowledge of chemical carcinogenesis, and for their invaluable leadership and direction in the attainment of an understanding of the mechanisms of cancer induction in man."

'51

Lee W. Stannard '51BS has been elected a vice president of corporate development at Hawthorn Melody, Inc., dairy and specialty food product subsidiary of National Industries, Inc., Chicago.

'54

Dr. Emery A. Johnson '54MD, assistant surgeon general and

director, Indian Health Service, was awarded the Public Health Service Meritorious Service Medal recently for his "successful and eminent public health career, his outstanding achievements in a total comprehensive health services program utilizing consumer involvement, and for his contribution in elevating significantly the level of health among the American Indian and Alaska Native population."

'55

Charles Gale '55MPH '58PhD, Indianapolis, Ind., who joined Eli Lilly & Company in 1962 as a senior

alumni news

MINNESOTA PEOPLE

The scientists' first thoughts were that something had gone wrong with the test. They had been living with a frustrating resistance problem for so long that it just seemed implausible that the mice survived the injection.

The tests were repeated and the results were the same. The new compound was shown to be unique — on each occasion it was tested Minocin® minocycline broke down the high resistance factor of Staph Rose and arrested the organism.

After more than eight years of testing, Minocin® was finally proven both safe and efficacious in the treatment of a wide range of ailments.

Drs. Boothe and Martell were instrumental in the development of a drug that is very probably the end result of one of the most exotic processes ever used in the manufacture of an antibiotic.

alumni news **AROUND AND ABOUT**

virologist in veterinary research, has been promoted to a research associate. He has played a major role in research programs for vaccines for farm animals and pets.

'56

Dr. John A. Gronvall '53BA '54BS '56MD, Ann Arbor, Mich., has been named dean of the University of Michigan Medical School and director of the Medical Center. A former associate dean of the Medical School, he has been acting dean and director since April 1970.

'57

Dr. LaVonne B. Bergstrom '53BA '57MD, Denver, Colo., a member of the faculty of the University of Colorado Medical Center since 1968, has been promoted to assistant professor of otolaryngology in the University of Colorado School of Medicine. She joined the medical faculty as an assistant in surgery and was promoted to instructor in otolaryngology in 1969.

Mark H. Tibbetts '53BS '57MHA, Menomonee Falls, Wisc., who has 13 years' experience in the administration of general hospitals, has been named the administrator of the Woodstock/East Health Center, Milwaukee, Wisc. He previously was the administrator of Community Memorial Hospital in Menomonee Falls.

'58

Dr. Frederick V. Featherstone '54BA '58MD has been appointed deputy associate administrator for operations, Health Services and Mental Health Administration, in the Department of Health, Education and Welfare. He has been an officer in the Public Health Service Commissioned Corps since 1958.

'60

Dr. James E. Marquardt '60MD, assistant clinical professor of psychiatry and medical director of the Wardenburg Student Health Center at the University of Colorado Medical Center, recently became a member of the Medical Board of the University of Colorado Hospitals.

'63

John G. King '63MPH, Edina, has been elected to the Fourth North-

western National Bank of Minneapolis' board of directors.

'65

Martin A. Tullis '65MHA has been appointed project director-shared services of the Research and Educational Foundation of the Ohio Hospital Association, Columbus, Ohio. He was formerly administrator of Wilson Memorial Hospital, Sidney, Ohio.

Dr. Raymond C. Doberneck '65PhD, professor of surgery at the University of New Mexico School of Medicine, Albuquerque, has received a \$2,323.00 grant from the Milheim Foundation to study the problem of swallowing after removal of cancerous tumors from the throat and neck. "In a year or so, with six well-studied patients, we'll have more information on swallowing techniques than now exists in the world," the doctor has said.

'67

John C. Cushing, Jr., '67MHA, Minneapolis, has been appointed administrator of Northern Pacific Hospital, St. Paul. He had previously been the assistant administrator of The Eitel Hospital, Minneapolis.

'68

Dr. John E. Haaland '68PhD, Westport, Conn., has become vice president of systems and research for a new multiphasic health-examination center operated by Health Service Systems. He is also a director of the Food and Drug Research Laboratories, Inc. department of ecological sciences. Dr. Haaland, known as an expert in lunar surface habitability, was formerly a research associate in the University of Minnesota's department of genetics and cell biology, and principal research scientist in Honeywell's biotechnology and environmental factors group, Minneapolis.

'69

Dr. David Osbourne '69PhD(Med), an associate consultant in clinical psychology at the Mayo Clinic, Rochester, Minn., has been appointed a consultant in clinical psychology.

Dr. Lee C. Detenbeck '69MS has been appointed a consultant in orthopedic surgery at the Mayo Clinic, Rochester, Minn. In 1968 he was awarded the Richards travel fellowship in orthopedic surgery by the American Academy of Orthopedic Surgeons.

AGRICULTURE

'32

F. Eugene Nelson '32BS '34MS professor of dairy and food sciences and of microbiology and medical

technology at the University of Arizona, was the recipient of the American Dairy Science Association (ADSA) Award of Honor at the ADSA annual meeting in June. Nelson has served as president of the group. He was editor of the *Journal of Dairy Science* from 1947-52, and the 1953 recipient of the ADSA Borden Award, recognizing his research on dairy products.

'39

Richard H. Bonde '30BSAg, manager of the Grade A Fluid Milk division of Land O'Lakes, Inc., Minneapolis, was the team leader and milk handling and marketing specialist on a five-man team of dairy specialists sent by the Agency for International Development (AID) of the U.S. State Department to India. The group advised the National Dairy Development Board of India on its "Operation Flood", a giant cooperative dairy project. When completed, the project is expected to "flood" the cities of New Dehli, Calcutta, Modras and Bombay with high quality, low cost milk.

Another Minnesota man, Lloyd L. Ulyot, who has a master's degree in agricultural economics, and is past president of the St. Paul Bank for Cooperatives, was the area development and finance specialist on the team.

'44

Roland M. Hendrickson, '44BSAg, vice president and general manager, Agricultural division, Pfizer, Inc., New York, was recently elected to a three-year term on the Animal Health Institute's (AHI) board of directors. The AHI is the national trade association representing manufacturers of animal health and nutrition products. Hendrickson, who joined the Pfizer division in 1962, previously served as a regional manager of General Mills, Inc.

EDUCATION

'50

William H. Forsberg '50BS, principal of the Zachary Lane School, Plymouth, Minn., is president of the National Association of Elementary School Principals (NAESP). He has been active in the state and national affairs of his profession for many years and has served NAESP in several capacities.

JOURNALISM

'35

Thelma Thurston Gorham '35BA '52MA, nationally-known newspaper-woman and public relations administrator, is currently working toward a PhD degree in journalism and

mass communications at the University of Minnesota where she is an instructor in the Journalism School. Mrs. Gorham also serves as a stringer correspondent for the Johnson Publications and as senior editor for *New Lady* magazine. She is the author of the book, *Meeting The Challenge*.

'52

Burt E. Nelson '52BA Hamburg, N.Y., is the editor of the *Buffalo Volkstreund*, a German language weekly that was picked as part of a U.S. Information Agency display that toured West Germany in early May as part of a German-American Friendship Week. Nelson, who is also weekend photo editor and copy editor of the Buffalo (N.Y.) *Courier-Express*, is credited with reviving the German-language weekly. He has also held staff positions with the Niagara Falls (N.Y.) *Gazette*, the *Saratogian* of Saratoga, *Schenectady Gazette*, *New York Journal-American*, *New York Daily News* and with the *Willoughby* (Ohio) *News-Herald*.

'61

Frank L. Greenagel '61BA '63MA '65PhD has joined Litton Educational Publishing, Inc., New York, as manager of corporate development. For the past two years he had been marketing director for the Royal Typewriter division of Litton Industries.

'69

Steven Reidell '69BA, Minneapolis, recently became a public relations associate with Carmichael-Lynch Advertising, Inc., Minneapolis. He formerly worked for the Twin Cities public relations firm of Padilla, Sarjeant, Sullivan and Speer, and the public relations department of the Minneapolis Park and Recreation Board.

VET MED

'59

Lieutenant Colonel Robert R. Jorgensen, Sr., '59BS '59DVM, '65MPH, was recently assigned to head the special studies team in the resources analysis group of the U.S. Surgeon General's Resources Management office. The colonel was commissioned in the Veterinary Corps in 1959.

NURSING

'67

Miss Judith M. Bellaire '67MSNur has been appointed an assistant professor in the University of Colorado School of Nursing. While at Minnesota she specialized in public health nursing. She went to the Colorado University Medical Center in 1968 for advanced training as a pediatric nurse practitioner.



HEGG



NYQUIST



WARREN

Three University of Minnesota graduates have distinguished themselves in their careers with Libbey-Owens-Ford (L-O-F) company, and all three have held vice presidencies with the company.

Clinton F. Hegg '39BArch, became L-O-F vice president-marketing in January 1968.

Hegg joined the company in 1939 following graduation from the University, and was assigned to the Dallas office as a field sales representative. He became Dallas district manager six years later, and then went to Toledo, Ohio, in 1949 as assistant to managers of distributor and industrial sales.

In 1951 Hegg became general sales manager, Fiber Glass division, and the following year was named vice president, general sales manager, and a director of L-O-F Glass Fibers company. He became vice president-sales in 1959. Hegg is also chairman of the L-O-F Export Company and chairman of the board of Bogardus, Wilson, Ltd., of Western Canada.

Hegg served from 1941 to 1945 as a general staff corps officer, 14th Anti-Aircraft Command in the Pacific, and in 1945 was assistant AA officer, Headquarters, S.W. Pacific, with the rank of lieutenant-colonel.

The Minneapolis native is an elder in the First Presbyterian Church, Maumee, Ohio, a trustee of Riverside Hospital, and on the board of directors of Junior Achievement.

Currently a L-O-F consultant, Dr. Roy A. Nyquist '27BAE was for a number of years vice president-technical policy. As a consultant, his vast knowledge gained in almost a half century in the glass industry is still available to the Toledo-based firm.

Nyquist joined L-O-F in 1934 and has been with the company ever since. Previously he had worked for A. Bentley & Sons Company, engineers and contractors, from 1927-1934.

At L-O-F Nyquist was promoted to assistant chief engineer in 1944,

advanced to chief engineer seven years later, was named director of engineering in 1955, and promoted to chairman, technical policy committee, in 1960.

He was named vice president-technical policy in 1964.

Among a number of corporate assignments, Nyquist has served as a director and member of the executive committee of the Societa' Italiana Vetro, an Italian glass manufacturer.

During WWII he served as Battalion S-3 and Battalion executive officer of the 493rd Anti-Aircraft Battalion.

In 1960 Nyquist received an honorary degree, Doctor of Engineering from the University of Toledo in connection with the dedication of a new engineering and science building at the school.

Active in numerous professional organizations, he was elected "Toledo's 1968 Engineer of the Year" by the professional and technical organizations of the Toledo area.

Richard E. Warren '39BEE has been vice president-engineering with L-O-F since 1969. Previously, he was executive director of engineering and has held a number of technical positions with the company.

Warren joined L-O-F in 1953 as an electrical engineer and in his career with the company has supervised the electrical installation on several of L-O-F's major expansion projects.

Before joining L-O-F, Warren was with the Westinghouse Electric corporation in Pittsburgh, Cleveland and in Toledo.

During WWII he served four and a half years with the U.S. Navy Bureau of Ships in Washington, D.C., under Admiral Rickover.

Warren is a senior member of the Institute of Electrical & Electronics Engineers, American Management Association, national, state and local professional engineering societies, and other technical, community and social organizations.



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TWO DAYS

The "Garden Isle" of **KAUAI**

- Leave Saturday morning by first class jet.
- From the Wailua River Pier, on the eastern shore, tour by excursion boat the world famous Fern Grotto.
- Then for a change visit Mori's Cactus Gardens.
- Bring your camera along for the trip to Waimea Canyon on the southwestern slope of the island.
- Visit the beautiful Kalalau Valley, the spectacular Napali Cliffs, and other unusual sights.
- Return late afternoon to the Kauai Surf Hotel.
- Saturday evening come to the special "Aloha Farewell Party."
- After a leisurely Sunday morning return to Honolulu in time to join the others on the charter flight back to Minneapolis.

Special Tour Price: \$79⁰⁰ per person
based on two per room occupancy



THREE DAYS

The "Valley Isle" of **MAUI** and the "Garden Isle" of **KAUAI**

- Depart Friday morning by jet to Maui. Tour Kluia in the south and the 4,000 ft. deep Iao Valley.
- Then to the western end of the island to visit the former Hawaiian capital, and whaling center, of Lahaina.
- A short trip north you will be in Kaanapali and the Sharaton Maui Hotel for the night.
- After a morning of leisure jet to Kauai.
- Tour the Waimea Canyon, the "Grand Canyon of the Pacific."
- Saturday night at your hotel, the Kauai Surf Hotel, join with the other Gophers on the island for an "Aloha Farewell Party."

Special Tour Price: \$119⁰⁰ per person
based on two per room occupancy

HAWAIIAN HOLIDAY

MARCH 19-27, 1972

Treat yourself to a

SUN BREAK

Eight spectacular days, seven wonderful nights at the sumptuous new Sheraton-Waikiki Hotel, located right on Waikiki Beach in Honolulu. The tour includes:

- Round trip, first class, air transportation, Minneapolis to Honolulu, Hawaii, via Western Airlines—Jet Charter, only 133 passenger capacity;
- Special Hawaiian Lei Greeting on arrival;
- Special Welcome Cocktail Party at the Hotel;
- A full-course dinner and stage show in the famous Royal Hawaiian Hotel;
- All airport transfers in Honolulu, luggage and portage charges included;
- U.S. Departure Tax included, plus Hawaii taxes;
- Farewell MAI TAI Party;
- Experienced tour director to assist you in every way; hospitality desk at the hotel.

SPECIAL PACKAGE PRICE

\$389⁰⁰ *per person
from Minneapolis

* plus 10% taxes and services. Based on two-per-room occupancy.



Make Your Reservation
TODAY

Send to:

Ed Haislet

Minnesota Alumni Association
2610 University Avenue
St. Paul, Minnesota 55114

OFFICIAL RESERVATION FORM

Please make _____ reservation(s) in my name. Enclosed is my check for \$_____ to cover my reservation(s).

NAME _____

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CITY _____ STATE _____ ZIP _____

M.A.A. MEMBERSHIP NUMBER _____

\$100 deposit per person. Reservations to be paid in full January 5, 1972. Make checks payable to "Minnesota Hawaiian Holiday." Tour open only to members of the Minnesota Alumni Association and immediate family in household.

Please indicate relationship of person(s) accompanying member.

THE MINNESOTA CLOCK



Eli Terry (1772-1852) was one of America's outstanding Colonial clockmasters — an innovator, a Craftsman par excellence, and a far-seeing business man. From his drawing table and workshop in Plymouth Hollow, Connecticut, came clocks that take first place in the respected traditions of early American clock history. And among his many beautiful designs, is one of the year 1816 which has been considered one of his most noteworthy — extremely simple, graceful, unobtrusive, fine. It is called "Presentation." The clock pictured here recaptures the lines and the spirit of this 1816 masterpiece of Mr. Terry and, as a Presentation Piece, serves to perpetuate his important contribution to the Colonial period. We inscribe, on the dial, in three lines, whatever inscription you want; and we place in the lower panel a photograph of Coffman Union on Campus.

"The Presentation", measuring 14" x 9" x 4", entirely hand-crafted in New Hampshire, is in rich honey pine, hand-rubbed to a warm antique glow. It has a guaranteed electric movement of the best quality for long, quiet and trouble-free dependability.

Since these clocks are hand-made to individual order, please allow about three weeks for delivery. Print clearly on your order the inscription as you want it to appear on the dial.

Regular model with cord postpaid in the United States \$53.50.

Cordless battery powered model runs for one year on a regular flashlight battery. Postpaid \$57.50. We think it is a perfect gift for birthdays or other anniversaries and occasions that should be singularly observed.

MINNESOTA ALUMNI ASSOCIATION UNIVERSITY OF MINNESOTA
2610 UNIVERSITY AVENUE, ST. PAUL, MINNESOTA 55114

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

_____ Regular Minnesota Clock (\$53.50)

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Minnesota residents add sales tax.

To be inscribed as follows: PLEASE PRINT

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Address _____

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HUNDREDS SOLD

Your clock will safely reach its destination. It is substantially packed in a heavy corrugated carton fully lined with heavy packing material.

1972 JANUARY

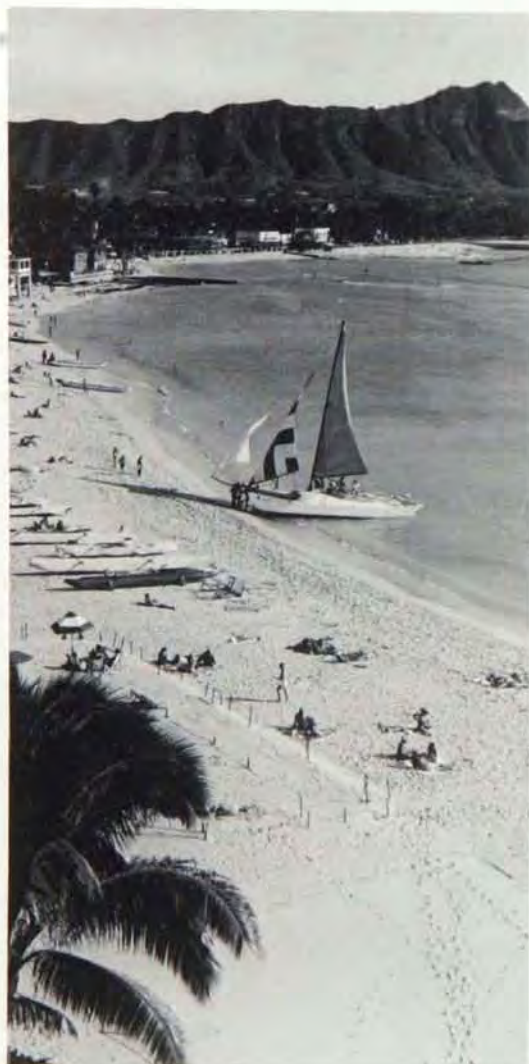
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alumni news

UNIVERSITY OF MINNESOTA



HAWAIIAN HOLIDAY



MARCH 19-27, 1972

Treat yourself to a

SUN BREAK

Eight spectacular days, seven wonderful nights at the sumptuous new Sheraton-Waikiki Hotel, located right on Waikiki Beach in Honolulu. The tour includes:

- Round trip, first class via Western Airlines—Jet Charter, Minneapolis to Honolulu. Depart Minneapolis 8:15 a.m. March 19; arrive Honolulu 2:10 p.m. the next day. Depart Honolulu 5:00 p.m. March 26; arrive Minneapolis 6:05 a.m. March 27.
- Special Hawaiian Lei Greeting on arrival;
- Special Welcome Cocktail Party at the Hotel;
- A full-course dinner and stage show in the famous Royal Hawaiian Hotel;
- All airport transfers in Honolulu, luggage and portage charges included;
- U.S. Departure Tax included, plus Hawaii taxes;
- Farewell MAI TAI Party;
- Experienced tour director to assist you in every way; hospitality desk at the hotel.

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Also these

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Special side trips to



THE ISLAND PARADISES OF MAUI & KAUAI

TWO DAYS

The "Garden Isle" of **KAUAI**

- Leave Honolulu 8:00 a.m. Saturday, March 25, by first class jet.
- From the Wailua River Pier, on the eastern shore, tour by excursion boat the world famous Fern Grotto.
- Then for a change visit Mori's Cactus Gardens.
- Bring your camera along for the trip to Waimea Canyon on the southwestern slope of the island.
- Visit the beautiful Kalalau Valley, the spectacular Napali Cliffs, and other unusual sights.
- Return late afternoon to the Kauai Surf Hotel.
- Saturday evening come to the special "Aloha Farewell Party."
- After a leisurely morning, return Sunday afternoon, March 26. Arrive in Honolulu 3:30 p.m. in time to join others on the charter flight back to Minneapolis.

Special Tour Price: \$79⁰⁰ per person
based on two per room occupancy

THREE DAYS

The "Valley Isle" of **MAUI**
and the "Garden Isle" of **KAUAI**

- Depart Honolulu 8:00 a.m. Friday, March 24, by jet to Maui.
- Tour Kluā in the south and the 4,000 foot-deep Iao Valley.
- Then to the western end of the island to visit the former Hawaiian capital, and whaling center, of Lahaina.
- A short trip north you will be in Kaanapali and the Sheraton Maui Hotel for the night.
- After a morning of leisure jet to Kauai.
- Tour the Waimea Canyon, the "Grand Canyon of the Pacific."
- Saturday night at your hotel, the Kauai Surf Hotel, join with the other Gophers on the island for an "Aloha Farewell Party."
- After a leisurely morning, return Sunday afternoon, March 26. Arrive in Honolulu 3:30 p.m. in time to join others on the charter flight back to Minneapolis.

Special Tour Price: \$119⁰⁰ per person
based on two per room occupancy

alumni news
POINTS OF VIEW



Ours is a very unique University in that it belongs to all the people of the State more so than any other state university that you can name. Situated in the heart of a large metropolitan area, and in the center of the State, the growth and development of the University has been closely tied to the growth and development of the State.

More than 215,000 degrees have been granted by the University, and more than a half million others have matriculated at the University but never received a degree. There is hardly a family in the State that hasn't been directly touched by the University in some way or that won't be touched in the future. The University is an integral part of the life of the people of the State with campuses in Duluth, Crookston, Morris and Waseca. With its general and agriculture extension division, the University reaches out into every community and rural area.

In the large metropolitan area, thousands of Minnesota citizens are on the campus each day as a part of their daily lives. They attend concerts, lectures, seminars, meetings, athletic events and programs, University theatre, the Metropolitan Opera, the Minnesota Orchestra — just to name a few.

The campus isn't a place you remember. The sharp edge of change — the accelerated speed of change that touches all our lives every day — is even more pronounced at a great institution of learning like the University of Minnesota. Our University must change to keep pace. It is a *developing University*, not the same as it was, not the same as it will be, a most exciting place.

The most obvious changes are the ones we can see. The original campus located around the knoll was oriented toward University Avenue. In the early 1930's the center of the campus shifted toward Washington Avenue and the Mall. The West Bank and the new Washington Avenue bridge has changed all that. The *bridge is the center* of the campus, and the new West Bank campus has changed the looks and the *feeling* of the entire campus.

The old Seven Corners area is long gone. Right now it is a "hippie hangout," but is changing radically. It is now a part of a housing redevelopment-urban renewal program. The rebuilding of Seven Corners has begun and, when finished, will make the area one of the most exciting *new* neighborhood-communities in the country. It lies within the freeway development and will serve the University, Augsburg, St. Mary's and Fairview Hospitals.

The West Bank campus now houses the School of Business Administration, two Liberal Arts classrooms, Blegen and Anderson Halls, the new \$10-million Wilson Library, two 12-story dormitory buildings named in honor of William T. Middlebrook and a new Performing Arts building which is in the last stages of completion. (Continued on page 6)

THE MINNESOTA ALUMNI ASSOCIATION

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alumni news

UNIVERSITY OF MINNESOTA

JANUARY 1972

VOL. 71, NO. 5

in this issue

Minnesota's seven Nobel Prize Winners — in Physics, Chemistry, Physiology & Medicine and in Peace — have brought fame to the University of Minnesota. They have distinguished themselves and other faculty and alumni of the institution by their achievements and we are justly proud of these men. Read about them, and other outstanding alumni inside this issue.

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Mary Lou Aurell '62BAJourn Editor
Vergal Buescher Cover and Consultant Artist
Edwin L. Haislet '31BS '33MA '37EdD Managing Editor

Second class postage paid at St. Paul, Minnesota and at additional mailing offices, under Act of Congress of March 3, 1879. Annual dues of the Association are \$10, of which \$4 constitutes a year's subscription to The Alumni News. Subscription for non-alumni, \$4 per year. National advertising representatives, Select Media, Inc., 10 East 40th Street, New York City, New York 10017; Published monthly from September through June by the Minnesota Alumni Association, 2610 University Avenue, St. Paul, Minnesota 55114. Telephone (612) 373-2466. Member of the American Alumni Council.

Six years ago, controlled enrollment was started, along with a new mission – to make the University predominantly a senior college, professional and graduate school.

alumni news **POINTS OF VIEW**

The East Bank, or original campus, is still the core of the University with the large, professional schools and colleges located there: The Health Sciences, Law, Technology and Education, plus Liberal Arts and the Graduate School. The first phase of the \$147-million Health Sciences complex, located on Washington Avenue at Harvard, is being built – 10 stories of structured steel. This \$28-million segment will house Dentistry and Clinical Medicine.

Great changes have taken place on the St. Paul campus which now houses the Colleges of Agriculture, Veterinary Medicine, Biological Sciences, Forestry and Home Economics.

How Big is the University?

It still is the largest, single-campus University in the country (43,678). Total enrollment is 51,245 students with 5,230 at Duluth, 1,709 at Morris, 513 at Crookston, and 115 at Waseca, our newest two-year technical school.

By design, the 1971 Freshman Class enrollment of 8,188 is down for the fifth straight year. Males outnumber females 31,882 to 19,363, but the percentage of women has continued to rise slightly the past number of years to today's 38%. In addition to regular daytime enrollment, there are another 20,717 students enrolled in non-collegiate programs – a grand total of 71,902 students, all of which require 6,727 faculty and 9,432 staff members.

Enrollment figures by college are of interest:

CLA	17,501	Bio Sciences	324
Grad School	8,025	Nursing	307
IT	3,938	University College	297
General College	3,057	Vet. Medicine	255
Ag-Forestry-HomeEc	2,943	Public Health	223
Business	1,131	Med. Tech.	140
Medicine	822	Dental Hygiene	125
Law	742	Physical Therapy	97
Dentistry	453	Mortuary Science	95
Pharmacy	325	Occupational Therapy	60

What does it cost to attend the University?

Resident tuition and fees for most colleges is \$200 per quarter or \$600 per year.

Non-resident tuition and fees for most colleges is \$479 per quarter or \$1,437 per year.

Total resident costs, if living on campus, are about \$2,600 a year; for non-residents living on campus, \$3,400; *if living at home*, the costs are about \$1,500; if in Dentistry, Medicine or Veterinary Medicine, the costs are \$3,100 a year for residents, \$3,900 for non-residents.

What kind of a University?

For years – but not by choice – the University was the Junior College for the Twin Cities area. Six years ago, *controlled enrollment* was started, along with a new mission – to make the University predominantly a Senior College, Professional and Graduate School, with 50% of its enrollment in unique or special undergraduate programs, and graduate and post-graduate programs. The remaining

50% of the students would be in lower division and general programs. The University is fast achieving that objective, mainly because of the new State Junior College system that has six junior colleges in the Twin Cities area.

Curricular changes and new programs are many. A brief listing might include:

- A Center for Regional and Urban Affairs.
- A Department of Criminal Justice.
- A Public Administration Center.
- A new Family Practice and Community Health program.
- A new Three-Year Medical Curriculum.
- A new Department of African-American Studies.
- A new Department of Indian-American Studies.
- A new Computer Science program.
- A new Landscape and Architectural Program to meet changing environmental needs.
- A new Department of Ecology and Behavioral Biology.
- A new School of Statistics.
- A new major in Radio and T.V. Broadcasting.
- A new *Living-Learning Center* where formal University learning opportunities are joined with other learning opportunities in the larger community.
- A Center for Curriculum Study (Improvement of Institution).
- A new *Educational Development Fund* — 3% of the instructional budget now goes to finance educational development in the departments, schools, and colleges and will crosscut college lines. Ours is the first University in the country to do this.
- An *Experimental College* — where individual learning contracts are negotiated between students and guidance committee.
- A *University Without Walls* for those who cannot get to the University. This entails non-traditional learning experiences such as work-study, and validation of past learning and testing cooperative learning arrangements with adjunct faculty in the community.
- A new *Two-Year Medical College* at University of Minnesota, Duluth, with emphasis on initial training in Family Practice.
- Starting next Fall, a new *Four-Year Medical School at Mayo Clinic*, Rochester, Minnesota, opening with 40 students. This school will be affiliated with the University's Medical School.
- A *Community University Health Care Center* located in the Minneapolis Model City — a multi-disciplinary program primarily for child care where physicians, psychologists, social workers, senior medical students, all work together to find the best combination for complete health care.
- Minitex* — a new program of sharing, via computers, the resources of the University of Minnesota Library with all the public libraries in the State as well as all the colleges of the State.
- UNITE* — a new program of the Institute of Technology, teaching live classes on campus and beaming them via closed TV equipped with talk-back facilities to seven industries of the State including I.B.M. of Rochester.

Student Changes

The University is and will continue to be primarily a commuting campus — only 5,500 of its students live in dormitories. Sixty-five percent of the students work full or part time. The University has always been very liberal as regards students. It was the first university to have a Student Bill of Rights; since 1924 there have been students on the University Senate (faculty) Committees;

(Continued on page 8)

Your

MINNESOTA PLAQUE



This large, colorful plaque has been custom-designed for the Association. It makes an impressive wall display for office, study, recreation room—even the outdoor patio . . . Completely waterproof.

New "space-age" material duplicates the feel, weight and appearance of natural wood. Hand-finished in rich brown and official University colors. Measures 14" x 17" x 1 1/2".

Price for members \$13.95; non-members \$16.95. Postage prepaid.

Minnesota residents add 4% sales tax to TOTAL order.

Send to:
Minnesota Alumni Association
2610 University Avenue
St. Paul, Minnesota 55114

Enclosed please find my check for
\$ _____

Kindly ship _____ Minnesota Plaques

Name _____

Address _____

City _____

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CRANBROOK SCHOOLS... where learning only begins in the classroom.

The setting of the Cranbrook Schools is a rolling 300-acre campus in Southeastern Michigan, just two hours' travel from nearly every major city.

The educational concept is to help each student find his unique self. This is accomplished through individual attention, a solid core of college preparatory and wide-ranging elective courses plus student-designed and run extra-curricular activities.

The facilities at the Cranbrook Schools are incomparably appropriate to this philosophy. Kingswood and Cranbrook share their spacious campus with Cranbrook Academy of Art, Cranbrook Institute of Science, Christ Church Cranbrook and Brookside Elementary School. Among these institutions, students find people to help them stretch and grow, whatever their interests.

The coordinate program for girls in grades 7-12 at Kingswood and for boys in the same grades at Cranbrook allows both, in either school, to benefit from the courses and social programs that meet their needs and academic goals.

Boarding and day students are now being accepted for 1972-73 at both schools. For more information write: Admissions Office, Cranbrook Schools, Box 803-N, Bloomfield Hills, Michigan 48013.

alumni news **POINTS OF VIEW**

the University has always had a very liberal speakers policy that allows student groups to bring in speakers of their choice; at present, one-third of the memberships of the University Senate are students; and, very recently, two students have been added to all-Regent committees.

There has been a real emphasis on the *disadvantaged student*. In 1969-70, \$397,876 was spent — an average of \$1,247 per recipient — to aid 319 minority students of which 226 were black, 37 American Indian, 20 Spanish American, three Oriental American and 33 white.

Over \$8 million was spent in 1970-71 for *student scholarships* and fellowship assistance. *Total student loan funds* amounted to \$17,584,222. In addition 15,500 part-time jobs both on- and off-campus were filled by the University Student Employment Service.

What does this all cost?

For the next two years (1971-73), the University appropriation from the Legislature was \$204,171,374.00 of which \$162,174,982.00 goes for General Operation and Maintenance.

In addition, the University was allotted \$40.6 million for new buildings.

Even so, the University is in the process of retrenchment — a 6% cut in budgets was mandatory this year (1971-72); a 6% cut has been established for 1972-73, with possible additional cuts foreseen for both 1973 and 1974.

It should be noted that while the Legislature furnished the University \$204 million for the next biennium, over the next two years the University will be spending more than \$535 million, the difference being tuition, fees, gifts and grants.

Ed Havelle

ONE-THIRD OF PHARMACY STUDENTS ARE WOMEN

More than one-third — 36 percent — of this fall's entering students in the University's College of Pharmacy are women, according to the college's assistant dean for student affairs.

These women comprise more than half of the 40 first-year students that were accepted, and more than 25 percent of the new second-year students, ac-

ording to Assistant Dean Frank DiGangi. Sixty second-year students began classes this fall.

Female students now constitute 23 percent of the University's total pharmacy student enrollment of about 330. However, only about 10 percent of the nation's practicing pharmacists are women.

The American Association of Colleges of Pharmacy has reported that the 1970-71 enrollment of 15,097 included 3,029 women or about 20 percent of the total, DiGangi said.



MINNESOTA'S NOBEL WINNERS

THE reputation of the University of Minnesota as an institution of higher education has been enhanced in no small way by the success and renown of its graduates and faculty.

Perhaps no award has distinguished the University more than the prestigious Nobel prizes which have been received by four University of Minnesota graduates and three faculty members.

The Nobel Prize was established in the will of Alfred Bernhard Nobel, the Swedish chemist and inventor of dynamite and blasting gelatin. Five prizes are awarded annually to those who "have conferred the greatest benefit on mankind, in the field of physics, chemistry, physiology or medicine, literature and peace."

The first Minnesota alumnus to receive a Nobel Prize in Physics was Ernest O. Lawrence who received the award in 1939. Two faculty members, Philip S. Hench and Edward C. Kendall, shared the Prize in Physiology and Medicine in

1950, and, in 1956, a faculty member and alumnus, John Bardeen and Walter Brattain, shared the Nobel Prize in Physics.

Alumnus Melvin Calvin received the Nobel in Chemistry in 1961, and Norman C. Borlaug, the Peace Prize, in 1970.

LAURENCE '23MA, was honored in 1939 for his invention and development of the cyclotron and the results he obtained with it, particularly with radioactive elements.

A Canton, South Dakota native, he received his PhD from Yale University in 1925 and stayed at Yale for three years, first as a National Research Fellow and later as an assistant professor of physics.

In 1928 Lawrence was appointed an associate professor of physics at the University of California, Berkeley, and two years later, a full professor, becoming Berkeley's youngest full professor. Nine years later he

was named director of the University's Radiation Laboratory, a post he held until his death in 1958.

During WWII Lawrence made vital contributions to the development of the atomic bomb, and, after the war, played an important role in obtaining an international agreement to suspend nuclear testing.

Lawrence invented the cyclotron in 1928, a mechanism that accelerated nuclear particles to extremely high velocities without using high voltages. When these swiftly moving particles bombarded atoms of various elements, they disintegrated them and formed, in some cases, completely new elements. It was through such a process that hundreds of radioactive isotopes of the known elements were discovered.

Working with his brother, Lawrence studied the medical and biological applications of the cyclotron, and eventually he became a consultant to the Columbia Institute of Cancer. *(Continued on page 10)*

NOBEL WINNERS



ERNEST LAWRENCE

As he built larger and more powerful versions of the cyclotron in his Berkeley laboratory, Lawrence used the instrument to artificially generate cosmic particles called mesons, and later antiparticles.

Lawrence was a prolific writer with an exceptional breadth of interest and also the inventor of a method to obtain a time interval as small as three billionths of a second in order to study the discharge phenomena of an electric spark.

Before his death in 1958, he found a very accurate method for measuring the e/m ratio of the electron — one of the fundamental constants of nature.

DRS. EDWARD C. KENDALL and **PHILIP S. HENCH** received the Nobel Prize for Physiology & Medicine because of their research in hormones and the resulting discovery of

cortisone and its use as a therapeutic agent.

Dr. Kendall was educated at Columbia University where he received his BS, MS and PhD degrees in chemistry. From 1910 to 1911 he was a research chemist for Parke Davis & Co., Detroit, Mich., working on the thyroid gland. He continued this research at St. Luke's Hospital in New York until he was appointed head of the biochemistry section in the Graduate School of the Mayo Foundation, part of the University of Minnesota, in 1914.

A year later he was appointed director of the division biochemistry and, subsequently, professor of physiological chemistry.

When he retired from the Mayo Foundation in 1951, Dr. Kendall accepted a position as visiting professor in the department of biochemistry at Princeton University. He still holds this position today.



EDWARD C. KENDALL

Although his greatest achievement was his work with the hormones of the cortex of the adrenal glands, Dr. Kendall is also known for his isolation of thyroxine, the active principle of the thyroid gland; his



PHILIP S. HENCH

crystallation of glutathione, whose chemical nature he established; and for his efforts on the oxidation systems in animals.

At the same time that Dr. Kendall was working with the hormones of the cortex of the adrenal glands, investigations of the adrenal cortex were being carried out simultaneously though independently by Dr. T. Reichstein in Zurich, Switzerland, who would share the Nobel Prize. After a number of years, the hormones of the adrenal cortex were isolated, identified, prepared synthetically in small amounts and subsequently produced on a commercial scale large enough to study their physiological effects.

When one of these hormones was given to arthritic patients by Dr. Philip Hensch, who was also associated with the Mayo Foundation, the anti-inflammatory effect of the compound — cortisone — was discovered. Although it was not a curative substance, cortisone's discovery was a great step forward in our modern knowledge of the hormones of the adrenal cortex and their uses in medicine.

Since he has retired to Princeton, Dr. Kendall has continued his study of the chemistry of the adrenal cortex.

Dr. Hench became associated with the Mayo Foundation as a fellow following his internship at St. Francis Hospital, Pittsburgh, Pa. In 1923 he became an assistant in the Mayo Clinic, then head of its department of rheumatic diseases, and after a brief period of study at Freiburg University in Munich, an instructor, assistant professor, associate professor and, in 1947, a professor of medicine in the Mayo Foundation.

In 1942 Dr. Hench became a lieutenant colonel in the Medical Corps, and later chief of the Medical Service and director of the Army's Rheumatism Center at the Army and Navy Hospital. When he left the Army as a colonel in 1946, he was an expert consultant to the Army Surgeon General, a position he held until his death.

While at the Mayo Foundation, Dr. Hench specialized in arthritic disease. Besides successfully treating patients with cortisone, he also was successful with ACTH, a hor-



WALTER BRATTAIN

monone produced by the pituitary gland which stimulates the adrenal gland.

Dr. Hench died in 1965.

DR. JOHN BARDEEN, who shared the 1956 Nobel Prize in Physics with Walter Brattain for their work in developing the transistor, a device which replaced electronic tubes in many appliances, received his BS in electrical engineering from the University of Wisconsin. After work at the Gulf Research Laboratories in Pittsburgh, on the development of methods for the interpretation of magnetic and gravitational surveys, Bardeen went to Princeton University in 1933 to take graduate work in mathematical physics, and became interested in solid state physics.

From 1935-38, he was a junior fellow at Harvard University in the Society of Fellows, working on the problems in cohesion and electrical conduction in metals and the level of density of nuclei. He received his PhD degree from Princeton in 1936.

Dr. Bardeen was an assistant

professor of physics at the University of Minnesota from 1938 to 1941 when he became a civilian physicist at the Naval Ordnance Laboratory, Washington, D.C. There he worked on underwater ordnance and mine-sweeping.

After the war he joined the solid state research group at Bell Telephone Laboratories and remained there until 1951 when he became a professor of electrical engineering and physics at the University of Illinois. He has also been a member of the Center for Advanced Study since 1959. He still holds both positions.

In 1957 Dr. Bardeen and two of his colleagues proposed the first explanation of superconductivity, and he has devoted most of his research efforts since then to further extensions and applications of this theory.

Dr. Walter Brattain, jointly with Dr. Bardeen, invented the point contact transistor which led to their Nobel Prize.

Brattain, who received his PhD degree from the University of Minnesota in 1929, has been a staff member of the Bell Laboratories since that date. His chief field of research was with the properties of solids.

And his chief contributions to solid state physics, besides the invention of the transistor, are the discovery of the photo-effects at the free surface of a semiconductor, and work leading to a better understanding of the surface properties of semi-conductors, the latter which was first undertaken with Dr. Bardeen.

Dr. Brattain, who retired from his position as a research physicist with Bell Telephone Labs in 1967, also has worked with the division of War Research at Columbia University and as a visiting lecturer at Harvard University. He is currently a part-time professor at Whitman College in
(Continued on page 12)



JOHN BARDEEN

NOBEL WINNERS



MELVIN CALVIN

Walla Walla, Washington, and specializes in the study of semiconductors.

DR. MELVIN CALVIN, who received his PhD from the University of Minnesota in 1935, was honored with the Nobel Prize for Chemistry in 1961 for establishing the chemical reaction that occurs during photosynthesis.

A St. Paul native, Dr. Calvin has been a professor of chemistry at the University of California, Berkeley, since 1947, and is also currently director of the Laboratory of Chemical Biodynamics and associate director of the Lawrence Radiation Laboratory.

Dr. Calvin's scientific life began with his thesis on the electron affinity of halogens which he pursued and completed at the University of Minnesota. Following two years of post-doctoral work in Manchester, England, he was invited to Berkeley as an instructor and his interest



NORMAN BORLAUG

turned to the general theoretical aspects of organic molecular structure and behavior. It was from two important publications during this period that he worked on *The Color of Organic Substances* and *The Theory of Organic Chemistry* that his fundamental interest in the behavior of organic molecules in their most detailed terms developed.

This interest, combined with an earlier interest on the catalytic behavior of coordination compounds, became natural parents of his preoccupation with photosynthesis. The preoccupation resulted in the publication of *The Path of Carbon in Photosynthesis*, and since that time has extended into the general problems of biology. His laboratory at Berkeley is presently peopled by scientists from both sides of chemistry — physics and biology.

DR. NORMAN E. BORLAUG '37BSFor '41 MS '42PhD (plant pathology and genetics) received the 1970 Nobel Prize for his part in the develop-

ment of high-yielding varieties of wheat — a key factor in the "Green Revolution."

More specifically, he developed a dwarf variety of wheat, with stiff and short stems that can be heavily fertilized to produce a high yield. These strains have been disease-resistant and adaptable to a wide variety of climates and have contributed to the development of a new "miracle" rice in the Orient.

Following his graduation from the University, and after two years as a plant pathologist at the E. I. du Pont Nemours, Delaware, Dr. Borlaug joined the Rockefeller Foundation's field staff in Mexico where he was in charge of wheat improvement, and began a career that would result in the Nobel Peace Prize.

As a result of worldwide interest in his work on scientific wheat production, the Rockefeller and Ford Foundations, cooperating with the Mexican government, established the International Maize and Wheat Improvement Center.

Today Dr. Borlaug heads that Center and a team of scientists from 17 nations who are experimenting with new types of high-yielding grains and training young wheat scientists from all over the world.

In November of this year, in a paper to the governing conference of the U.N. Food and Agriculture organization, Dr. Borlaug warned that if agriculture is denied the use of such chemicals as DDT because of unwise legislation that is now being promoted by a powerful group of hysterical lobbyists, the world will be doomed not only by chemical poisoning but from starvation.

"If we recall that 50 percent of the present world population is undernourished and that an even larger percentage, perhaps 65 percent, is malnourished, no room is left for complacency." Dr. Borlaug said.

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"INDEPENDENT STUDY THROUGH CORRESPONDENCE:

Just Slightly Ahead Of Its Time . . .

WHEN, in the spring of 1967, the Correspondence Study Division of the National University Extension Association voted to change its name to Independent Study it was both a response to changes which had already taken place and a prelude to innovations to come. Correspondence study — an old standby once shunned as too difficult, too expensive and somehow less prestigious than on-

campus study — had already begun to come into the space age with a vengeance.

Complete with modern technology and refined educational techniques, independent study through correspondence has emerged as a viable and relevant form of education in a day when these are key words in educational circles. And the reasons for this new-found

Modern educators today are repeating at every turn the need for more options, more individualized instruction . . .

prominence reside in the very nature of modern life. With knowledge multiplying at a phenomenal rate, more and more people are realizing that education must be a lifelong process.

As John Gardner put it, "We must drop the increasingly silly fiction that education is for youngsters." Rather, men and women will, in the future, undertake a program of continuing education from the time they leave high school through a long and useful retirement.

For many, however, especially in those years when they are actively engaged in a vocation or raising children, it may be impossible to return to the University. And this is where independent study fills a vital need. In Minnesota, as in many other states, Independent Study — a service of the General Extension Division — brings the University to the people.

Evelyn Wynne, a Wayzata (Minn.) housewife with three children, took a basic psychology course last summer from Minnesota's Department of Independent Study.

"It was simply more convenient," she said. "A regular University course just didn't fit into my schedule."

And thousands of others — housewives, teachers, businessmen, secretaries, clergymen and servicemen — have joined Mrs. Wynne in taking University of Minnesota independent study courses at their convenience. Many of them with degrees already, they chose this flexible way to keep learning simply because they could do it without leaving their homes and occupations.

In June, 1971, a total of 12,712

students were actively enrolled in independent study courses through the University of Minnesota. Their ultimate goals included earning credit toward high school graduation, working toward an extension certificate, initiating and continuing college study (for some, even while still in high school), and expanding their fields of interest through college or non-credit courses.

Nearly two-thirds of them lived in Minnesota, but some corresponded from as far away as Dahomey, West Africa. In all, 50 states and 25 foreign countries were represented.

Convenience is not the only way in which independent study meets the educational needs of the space age. Modern educators today are repeating at every turn the need for more options, more individualized instruction and more relevant living experiences.

At its best, independent study offers all three. As Roger Young, director of the University's Department of Independent Study, explains it: "Independent Study truly answers the call of many educators for 'less time — more options.'"

"Independent Study students choose their own conditions and time for study and progress at their own rate. They may enroll at any time, take up to a year (or more) to complete each course and take exams when they're ready. And our open enrollment policy makes this kind of educational experience available to virtually everyone — young and old alike."

If they have the inclination, independent study students also have the time to explore an area of special interest with the guidance of an instructor who can guide and encourage them to continue their explorations as long as they wish.

INDEPENDENT study also offers students the opportunity to combine the practical with the theoretical in a way that is not possible for most regular students.

A boy traveling in South America, for example, can study Latin American culture, Spanish and geography of South America through correspondence while he is traveling — thus enhancing both his study and his travel by their combination. Or, a girl working for the summer in a neighborhood youth center can study psychology, sociology or recreation while she's working, gaining new insights and invaluable skills which she can apply now rather than four years from now.

University of Minnesota independent study courses allow high school students, too, to explore alternatives or to sup-

Mrs. Elizabeth Fisher, the author of this article, is the coordinator of curriculum in the University's Department of Independent Study. A member of the University's staff since July 1970, she holds a bachelor of arts degree from the University of Missouri.

INDEPENDENT STUDY

plement their regular public school experiences. Brian Brooks for example, is spending the year in the northern Canadian wilderness with the Plaisted family. For Brian this is a chance of a lifetime. He has not had to interrupt his studies, however, because while he is there he is spending some of those long winter days studying American government and English by correspondence. When he returns home, Brian will have earned two units of high school credit and he will have had an experience of which few people can boast.

Rebecca Anderson of Wayzata is trying to finish high school faster than usual by taking extra courses through the Department of Independent Study. For Rebecca, this means she has to pay more attention to what she is studying, but it's worth it.

"I'm forced to work harder," she explained, "but I'm learning a lot faster."

Bruce Boettcher is able to take a high school course in second year German even though his local school district in Jordan, does not offer it.

And other students — high school dropouts, unwed mothers, prisoners — who cannot or do not want to attend regular classes, can also continue their education and even begin college without having to return to school.

The thoroughness of instruction by means of study outlines, reference books and sometimes records and tapes helps to increase the versatility and flexibility of this method. For

each course, a study outline is developed which contains instructions regarding method, explication of the text where needed, and reading and writing assignments. In addition, the student receives mailing labels, lesson slips and other forms necessary to expedite the process of communication between student and instructor. Modern correspondence instruction also makes use of films, film strips, cassette tapes and other auditory and visual media as appropriate for enrichment and reinforcement of learning.

But, by far the most important element in independent study is the individual, personal exchange between student and teacher. The process is simple: the student submits a lesson assignment along with comments or questions he may have about that lesson. The instructor then carries out his role of mentor, guide, critic and friend — reading (or perhaps, these days, listening to) the student's answers, noting good and bad points as well as problems in language, organization, thinking, assimilation and application.

He then writes (or sometimes, records) his comments to the student, guiding him in his further development, pointing out problems, encouraging him to improve, and otherwise adapting his instruction to the specific and personal needs of that particular student.

With this first exchange, student and instructor begin a personal relationship which often goes beyond course content and lasts long after the course is finished. Ask any independent study instructor. He will usually be able to tell you something about each of his students: where he works, his interests, his ambitions and even something about his family. For some instructors this is quite a feat. The independent study instructor in general psychology has had as many as 450 students at one time. Such is the nature of the method, however, that she is able to treat each one as if he were in a "class by himself."

A problem certainly not unique to the seventies, but one which has reached critical proportions in these days of rising costs, swelling population and overburdened taxpayers, is the question of how to provide quality education at low cost for growing numbers of students. Again, independent study can provide a partial answer. Minnesota's Department of Independent Study enrolls approximately 5000-7000 new students each year, servicing lessons for over 12,000 continuing students at any one time. This is more undergraduates than were enrolled last year at Harvard and MIT combined. And the potential for expansion is unlimited.

Unhindered by problems of space, room scheduling, teaching loads and closed sections, the Department can offer virtu-

Correspondence students learn at least as well, and in many cases better, than students of equal ability who receive instruction in other ways.

ally limitless number of courses to anyone wishing to enroll. The curriculum now includes nearly 300 college, high school and non-credit courses and new courses can be developed for a comparatively small investment.

It is not even necessary to provide faculty offices. The Department of Independent Study's 156 faculty members work (like their students) at home, traveling or wherever they are. Thus it is not only possible to serve an unlimited student body, but it is also possible to have a large and distinguished faculty without building a single building.

A number of "open universities" have recently come into existence, in fact, employing largely this method of off-campus study. The appearance of such programs as University Without Walls, New York's Empire State College, California's Chico State System, and Minnesota's Metropolitan College attest to the growing need for and faith in long-distance individual instruction. Such developments are indeed good news for students and educators alike. In spite of the fanfare, however, the method is not really new. The University of Minnesota has, since 1909, quietly provided off-campus study opportunities for nearly 185,000 students in all parts of the globe.

For some, the possibility of extensive study outside the classroom borders on educational heresy. Research by distinguished educators, however, has consistently called into question the assumption that classroom instruction is the only valid method of study. In an

experiment recently conducted at Antioch College, in eight different courses, groups of students were subjected to differing modes of study involving varying degrees of face to face student-teacher contact. There were no important differences to be found in student achievement among the different procedures. Other experiments in other colleges have yielded similar results.

Professor Gayle Childs of the University of Nebraska summarizes his findings in this way. "Correspondence students learn at least as well as, and in many cases better than, students of equal ability who receive instruction in other ways."

The classic bit of research that documents this testimony was conducted several years ago by the University of Wisconsin department of psychology and reported in *The Journal of Higher Education*. Several sections of the introductory course in psychology on the University of Wisconsin campus were taught by the same instructor who was in charge of the comparable correspondence course. Exams were identical.

The result. "The performance of the correspondence-study group did not differ from that of the campus group."

Why correspondence instruction measures up so well may partially be explained by the results of an experiment reported by Mabel S. Noall of Boston University in *The Jour-*

nal of Educational Research. Dr. Noall sought to answer the question, "Which method of study contributes most to student learning and retention of facts: reading with note-taking, reading, listening with note-taking or listening?"

According to her tests, the methods rank in the order in which they are listed. As you can see, reading with note-taking is an integral part of correspondence study.

Independent study by correspondence, then, has a long and distinguished history of providing convenient, flexible and low cost quality education to people of all ages and a variety of interests. But departments of independent study — including Minnesota's — have not been willing to stop there. The application of new technology and new educational techniques is making it possible to provide even better, more personal instruction to correspondence students.

Cassette tapes for independent study have added a whole new dimension to correspondence learning. Students are now able to *hear* their instructor's comments and notes as well as read them. The use of cassettes may also break the writing/reading barrier that has, in the past, kept many students from successfully pursuing independent study. When students can both listen to taped instructions and record their answers, the need to learn and respond only through the written word is reduced. Thus students who have reading and writing problems may now take advantage

INDEPENDENT STUDY

of independent study opportunities which were never before available to them.

The use of tapes also opens up whole areas of instruction which were formerly impossible to offer through independent study. Courses in music, speech, language and physical education can now be offered using taped music, phonetics and directions for using the hands, eyes or body in a way not possible while reading. More traditional courses can also be enhanced by the addition of great speeches, interviews or motivational material on tape. The added dimension of sound with its enormous potential will also be a great learning aid to students with educational handicaps, including the blind who have had very limited educational resources available to them.

The Department of Independent Study at the University of Minnesota currently offers three high school courses and one college course using cassette tapes for instruction. The college level course is "Efficient Reading." The course emphasizes speed reading, but it also seeks to improve comprehension and vocabulary. Dr. James Brown, professor of rhetoric who is the author of the course, believes the course could not have been formulated without the development of the cassette recorder since it is the recorder that makes possible the individualized instruction vital to this course. The prerecorded tapes contain a unique system of pacing guides, timing sig-

nals, lectures and instructions that in the past have required the presence of an instructor. The course integrates print and tape to present a stimulating system of instruction.

Two other college-level courses are presently being developed using tapes for instruction. "Harmony," a music course, is especially suited to the tape method of instruction. It deals with melody harmonization, major and minor scales and four-part chords. Students will now be able to hear examples of these musical qualities as well as read about them. It is now possible to incorporate in the course exercises in ear training and pitch which could never be included before.

"How to Study" is a course concerned largely with attitudes and motivation and their relationship to satisfactory scholastic performance. The instructor's tentative plans are to use tapes for lessons concerned with concentration, listening skills, note-taking and relaxation, as well as to make extensive use of tapes for motivational activities vital to a course of this type.

The cassette recorder was introduced into three high school level courses on the theory that tapes might make the difference between a high school dropout and a high school graduate. By offering correspondence courses in which the assignments may be either written out or recorded on tape, the project attacks a problem common among high school dropouts: a lack of ability to communicate well on paper. When confronted with a question that would normally require a written essay, the student may instead record his answer

on tape, expressing himself in a manner presumably more comfortable than formal writing. Three ¼ unit mini-courses: "Straight Thinking," "Youth in Conflict" and "Meaning and Self-discovery in Literature" now offer high school students the option of oral rather than written expression.

THE Department of Independent Study has also developed "alternatives within alternatives" to allow off-campus students even more flexibility in determining how and what they study. Students enrolling for "Credit by Examination" study even more independently than regular correspondence students. With the use of the study guide and texts, they prepare completely on their own to take the course final examination which, if they pass it, qualifies them for credit in the course. Another option available to independent study students is the "Honors Alternative" in which both the method of study and the method of evaluation are agreed upon by the student, the instructor and the Department of Independent Study.

Groups of students wishing to combine classroom contact with independent study may also choose the "Community Classroom" method. Thirty or more students anywhere in Minnesota may meet together for in-person lectures, discussions or "tele-lectures" using two-way amplified telephone communication, television and television tapes, and other audiovisual aids.

(Continued on page 38)

CLASS OF 1946 HAS REUNION BY MAIL

THE CLASS of 1946, graduating from the University the year after the end of the Second World War, stepped into a world new to an Atomic Energy Commission, a United Nations headquarters in New York, Harry Truman's "Fair Deal" and the beginnings of the Cold War.

Twenty-five years later, through Reunion By Mail forms, we find that those Minnesota alumni who left a university campus to pursue jobs, professions and just plain living in a postwar environment were successful in many ways.

From the College of Dentistry, Dr. Jack L. Anderson, Wayzata, is a successful pedodontist, having headed a number of professional groups . . . M.D. Rolf L. Andreassen is a Minneapolis cardiolo-

gist . . . Bob Anthony is controller for Hopkins' Dale Tile Co. . . . Bessie Alcorn (MEd) retired in 1963 after teaching in Ashland, Wis. . . . Don Allen (Bus) is a senior systems engineer with St. Paul's 3M Co. . . . Chuck Alstad (IT) manages the business information services of Dow Chemical in Midland, Mich. . . . Ginny Aluni (MedTech) works at Minneapolis' Vets Hospital.

Judge Douglas Amdahl (Bus) writes that he is currently a judge of Minnesota District Court after practicing law and serving as assistant county attorney and a Municipal Court judge.

Russ Armstrong (NavSci) is a professional sales department representative with the C. V. Mosby Co., St. Louis, Mo. . . . Jan Thomas Bennitt (SLA) is an

Edina, Minn. homemaker . . . M.D. Bob Breitenbucher, an associate professor of medicine at the University of Minnesota, is the proud papa of seven children, five daughters, ages 12 to 16; and two sons, one a senior in the University's Medical School and the second a University CLA senior.

Marilyn Tucker Budge (MedTech), Honolulu howeswife, has spent a number of years in volunteer work . . . Frank Burns (Bus) is an alternate agent cashier for the Veterans Administration, St. Paul . . . Margaret Bushnell (SLA) is currently a vice president and member of the board of directors of Pitman Publishing Corp., N.Y. . . . Mary Morse Cargill (SLA) is an Edina, Minn. housewife . . . Art Carlson (SLA) is an area manager for St. Paul's 3M Co. . . . Doris Lycander



POSNICK

NERENBERG



ZUMBERGE



ANDERSON



FREY

REUNION BY MAIL

Carlson (Duluth) is a housewife and assistant secretary-treasurer of the Carlton County Farmers Mutual Fire Insurance Co. . . . Walter S. Carpenter (Bus), president of the Minneapolis Park and Recreation Board, is president of Minnesota Tree, Inc. . . . Ann Cham (SLA) is personnel manager and corporate vice president-treasurer in the M & M Executive Service Inc., Minneapolis . . . Mert Christgau (IT), avid aviator and ham radio operator, is an engineer for 3M, St. Paul . . . Sherm Cole (Ed), a high school counselor in Houston, Minn., served one term as Houston mayor.

Dolores Schultz Colesworthy (Nur) is an instructor at Abbott-Northwestern School of Nursing, Minneapolis . . . Mary Lou McLearn Conde (SocWrk) is a busy Colorado Springs doctor's wife and civic leader . . . Edie Holmes Couillard (Nur) works as a part-time nurse at St. Mary's Hospital, Minneapolis, and manages seven children at home . . . Eleanor McManmon Daly (PT) listed herself as chief physical therapist at St. Paul's Highland Chateau . . . Walter Dodge, Jr. (Duluth) drives a bus for the Duluth (Minn.) Transit Authority and is justly proud of his wife's band, "We Plus Three."

Journalism graduate Charles Duncan is associate dean of faculties at the University of Oregon, Eugene . . . Alice Korhonen Einerson (Duluth) keeps busy teaching part-time in the Montevideo (Minn.) public schools . . . Northwestern Bell's Omaha (Neb.) office has a top public affairs coordinator in Duane Fieck (IT) . . . Ed Fier (Ag) works as a vocational director for the New Ulm (Minn.) public schools . . . Shirley Miller Fogle (Nur) is a Silver Spring, Md., housewife.

Herbert Gardner, Richfield, Minn., is personnel director for the Minnesota Department of Public Welfare . . . Seve Gaustad (Bus), credit manager and mem-

bership controller for United Grocers, Ltd., lives in Richmond, Calif. . . . Ernest Gebhart (For), Columbus, is division chief and state forester for the Ohio Department of Natural Resources, Division of Forestry & Reclamation . . . Bill Gephart (IT) works as director of manufacturing at UNIVAC, Roseville, Minn. . . . M.D. Tom Gibbons, in private practice in Albuquerque, N.M., has had a busy career as an author and teacher . . . John Gobershock (Bus), an active Mill Valley, Cal., scout leader, is a marketing specialist in railroads for Standard Oil Company of California.

Barbara Swanstrom Gonnella (UC) is a Minneapolis housewife. . . . Lee Gottstein (IT), inventor of a grouting device for the internal repair of sewer lines, is president of the Roto-Rooter Corp. of Minnesota and of the American Pipe Services, Inc., St. Louis Park . . . Harvey Green (GC) manages the North Central Airlines station in Alpena, Mich. . . . Sanford Gruenberg (IT), Minneapolis, is president of the H. S. Horwitz, Inc., mechanical contractors . . . Liz Haglund (Nur) a commissioned officer in the Public Health Service since 1948, is currently a regional PHS nursing consultant in San Francisco. She was awarded a commendation medal in 1964 . . . Ruth Hall (PH) is a consultant nurse for the U.M.W.A. Welfare and Retirement Fund, Knoxville, Tenn. . . . Owen K. Hallberg (For), St. Paul, is a director, member of the board and head of public relations of Land O'Lakes, Inc. . . . Dr. Don Hannon (MD) is in private practice in St. Paul.

Evelyn Harne (HEc), St. Paul, is assistant state leader of 4-H and Youth Development for the University of Minnesota . . . Walt Harvey (Ed), an active educational author, is currently director of research, state aids and statistics for the Minnesota Department of Education . . . A resident of Seven Oaks, Kent, England, Henry Hauser, Jr. (IT) is director of technical services for UOP Processes International. He holds one patent.

Jim Hazen (Bus), agency manager for Home Life Insur-

ance Co. of N.Y., lives in Orinda, Cal. . . . Melva Hegland (Med Tech) supervises hematology in the clinical lab of the Holbrook-Haill Medical Group, Tucson, Ariz. . . . Betty Franklin Hennem (Nur) directs the daytime Activity Center for Retarded at Patterson House, Cloquet, Minn. . . . Lew Hill (SLA) is commissioner of urban renewal for the City of Chicago . . . Julian Hoshal (Journ) is director of University Relations for the University of Minnesota, Duluth.

SLA graduate Barbara Fennema Howell, Rolla, Mo., a research associate at the University of Missouri, has published a number of articles in chemical journals . . . Lorraine Dobmeier Jacobson (Nur) is an obstetrical nurse at the West Anaheim (Calif.) Community Hospital . . . Beatrice Bohmert Jenny (Ed) lives in Arlington Heights, Ill., with her husband and three children . . . Russell Jones (Grad) is a political science instructor at Grand Rapids Junior College, Mich. . . . Hy Johnson (Bus) is vice president, treasurer and chief financial officer of the Otter Tail Power Co., Fergus Falls, Minn. . . . Carol Johnston Justyn (PH) works as a public health nurse for the San Joaquin (Calif.) Local Health District . . . Maxine Berman Katz (UC) Minneapolis, is active civically and in a number of religious organizations . . . William Kendall (Grad), author of books on personnel selection, heads Kendall, Bowers & Schwartz, Inc., New York.

Ruth Brin Kirschner (Ed), an author of articles on children's art in teaching manuals, lists herself as a housewife and substitute teacher in the St. Louis Park (Minn.) public schools . . . Margaret Dahl Kline (HEc) is a Minot, N.D. housewife . . . Bob Knaeble (MortSci), part owner of Knaeble Funeral Home, Minneapolis, is the father of 12 children, ages 21 to 1. Three of them are in college, three in high school, four in grade school and two are pre-schoolers.

Co-author of *Children's Art Education*, Estelle Hagen Knudsen (Ed) is an Eden Prairie, Minn. homemaker . . . Dick Kruger (IT), vice president of J. T. Thorpe

(Below) WALTER DODGE, JR., '46 Education grad, takes his leisure on an outdoor fireplace at a park somewhere in the Duluth (Minn.) area. (At Right) MARGARET FOLEY POLLEY, center, '46 University College grad, and her husband, Dr. Ida Polley '55PhD, asked direction of a London bobby on a long walk back to their hotel from the London Zoo. The Polleys were on a European jaunt with their two teen-age sons earlier.



HALLBERG

& Sons, Inc., Emeryville, Cal., has completed 27 years of service in the Naval Reserve . . . Lois Bratt Kurzeka (Bus) is a Minnetonka, Minn. housewife . . . Lois' husband, Bob, also a 1946 Business Administration graduate, is vice president, sales administration for Investors Diversified Services . . . Eddie Larson (Bus), owner of Larson's Home Furnishings, Inc., Marshall and Redwood Falls, Minn., has headed a number of civic groups and was a Jaycee Outstanding Young Man of the Year . . . Emma Larson (SLA) is a librarian in East High School, Wausau, Wis. . . . Larry Lechner (Ed) works as superintendent of schools in Forest Lake, Minn. . . . Shirley Maison-neuve Ledwith (Nur) is assistant director of nursing at Mt. Sinai Hospital, Minneapolis.

Housewife Elaine Zwiener Lee (SLA) lives in LaCrosse, Wis. . . . Cynthia Spees Liebert (Med Tech) makes her home in Milwaukee . . . M.D. Roger Lienke is an associate professor and director of the Division of Family Medicine at the University of

Oklahoma, Oklahoma City . . . August Lindquist practices law in Winona, Minn. . . . Dr. Roger MacDonald, a private practitioner in Grand Marais, Minn. and "builder, designer, inventor or author of six children," received a 1966 award from the American Cancer Society for contributions to the control of cancer.

Martha Gold Madsen (HEc), president of the Shining Mountains Girl Scout Council, lives in Helena, Mont. . . . Fritz Maresh (MortSci) is the owner of a Funeral Home as well as a complete home furnishings and appliances store in Silver Lake, Minn. . . . Dr. Jack Maunder is in active ob-gyn practice in Edina, Minn. . . . Surgeon Bob Maxeiner works with the Surgical Consultant's Professional Association in Edina . . . Walter McGuire (LibSci) who flies as a hobby, is an assistant professor of library science at New Mexico State University, Las Cruces . . . Dr. Elaine Thompson McKenzie (MD) practices in St. Paul . . . Mary Hart Anderson Messick (UC) lives in Excelsior, Minn. with her

husband and three children . . . Dr. Gene Meyerding (MD) practices general surgery in Medford, Ore.

Merle Stone Miller (Ed) teaches in the Crookston, Minn. public schools . . . Betty Howe Mobley (PT) is in private practice and also works as a physical therapist at the Valley Park Convalescent Hospital, Mill Valley, Cal. . . . Associate professor Donna Davis Morgan (SLA) teaches at the City College of New York . . . Jean Hugos Mulvahill (MedTech), Minneapolis, retired as a lab technician in 1956 . . . Georgia Vanderloh Mulville (Nur), Minneapolis, works as an office nurse and manager for Dr. Joseph Masee . . . Shirley Trantanella Munson (HEc), winner of an achievement award from the Minnesota Society of Packaging Engineers, is an assistant professor of horticultural science at the University of Minnesota.

Phyllis Sather Myking (IT), Fridley, Minn., works as a librarian in the Anoka County Library . . . William Nash (IT), Omaha, is a self-employed building contractor

REUNION BY MAIL

... Dr. Loran Nelson (M.D.), a St. Paul physician specializing in colon and rectal surgery, is past president of the Ramsey County Medical Society . . . Rene Losk Nerenberg (SLA), Winnetka, Ill., is an associate in the Center for Educational Development at the University of Illinois Medical Center.

Robert Neumann (Grad) is currently U.S. Ambassador to Afghanistan. He holds the Legion of Honor from France, the Order of Merit from Germany, and a special medal from the University of Brussels . . . Dr. Bill Nienaber (DDS), president of the Minnesota Dental Association and a Minneapolis dentist, simply lists his occupation as "busy" . . . Dr. Don Nollet (MD), Hibbing, Minn. pathologist, was named the 1969 "Man of the Year" by the Aesolapian at the College of St. Thomas . . . Dr. Chuck Nordin (MD), Des Moines, Iowa, is chief medical director of Equitable of Iowa.

Harding Orren (LLB) is an attorney and managing partner of Robins, Davis & Lyons, Minneapolis . . . Onalee Fanslow O'Hearn, Richfield, Minn., is an assistant instructor in maternity nursing at St. Olaf College . . . Clarence Olson (Ag), Madison, Wis., an assistant professor and extension dairyman at the University of Wisconsin, has received an outstanding alumni award from Farmhouse Fraternity . . . Ione Meyer Olson (Nur), a Minneapolis housewife, is president-elect of the Fairview Hospital Auxiliary . . . Lola Berglund Ouska (Nur) works as a head nurse in the psychiatric unit of the National Institute of Health Clinical Center in Bethesda, Md. . . . Sidney Parkans (SLA) is a self-employed geology consultant in Houston, Texas . . . "Red" Peterson (Bus), vice president and treasurer of the Toro Manufacturing Corp., Bloomington, Minn., is Republican

County chairman . . . George Petre (IT) practices law with Petre & Zimmerman P.C. in Greenwood springs, Col.

Bettian Fremland Pollack (GC), St. Paul, lists herself as "gardner, interior decorator, cleaning woman, seamstress, psychologist, nurse, counselor, companion, cook, bookkeeper and secretary in the best job there is - wife and mother" . . . Margaret Foley Polley (UC), East Lansing, Mich. homemaker, was an active Democrat until her marriage in 1953 . . . Virginia Hoffman Poole (Nur) is the day supervisor of nursing service at Gaston Episcopal Hospital in Dallas, Texas . . . And her husband, William Poole (IT), is a consulting engineer and chief electrical engineer for Zetterlund Boynton Co. & Associates in Dallas.

"Trevie" Hugo-Smith Pope (SLA), Minneapolis housewife, works part-time as an assistant discharge planner at St. Luke's Hospital . . . Dr. Irving Posnick (DDS), Minneapolis dentist, is a fellow in the Academy of Dentists for the Handicapped and president-elect of the American Society of Dentistry for Children. The Posnicks have three sons at the University - a senior in the Dental School and a junior and freshman . . . Dick Post (LLB), St. Paul, an editor of the *Minnesota Law Review*, is secretary and general counsel at Minneapolis Honeywell . . . Olive Quello (SLA) is supervisor of the child services unit for Minneapolis' Family & Children's Service . . . Lorraine Radtke (Journ), public relations director of the Home for Aged Lutherans, Wauwatosa, Wis., has served four terms as director of the Milwaukee School Board.

Dr. Mel Reeves (Med) is in private practice, thoracic surgery, in Portland, Ore. . . . Jeanette Cohen Richards (PH), the mother of five children, works as a public health nurse for the Santa Clara (Calif.) County Health Department . . . Etta Lazar Rikes (MedTech) lives with her husband, the owner of Southview Chevrolet, and five sons in St. Paul . . . Lois Reid Ryan (HEC) Minneapolis, is manager of the Test Kitchen, Food Services division, of the Pillsbury Company

. . . Robert Rydholm (SLA) is a vice president and group head of the Campbell-Mithun, Inc. advertising agency, Minneapolis . . . Marion Sandberg (MedTech) works at St. Joseph Mercy Hospital, Mason City, Iowa.

Edward Sandelin (IT) works as an operations research analyst at the U.S. Air Force SAC Headquarters in Omaha, Neb. . . . Dr. Ken Sanderson (DDS) practices dentistry in Worthington, Minn. . . . Dr. John Scanlon (DDS) is a self-employed dentist in St. Paul . . . Jean Parker Schmid (Ed) is a Greeley, Col. homemaker . . . Mary Hayden Schnugg (SLA) lists herself as a Orinda, Cal. housewife and mother of 13 children . . . Mary Benson Seeler (Ed) is a teacher at the Linden, N.J. junior high school and mother of five children.

Allen Sheldon (LLB), Minneapolis, works as legal editor for the West Publishing Company . . . Ethel Seed Shubat (Nur), a White Bear Lake, Minn. housewife, is currently second vice president of the St. Croix Valley Girl Scout Council . . . Dr. George "Buzz" Smith (MD), physician and surgeon, is a partner in the Hutchinson (Minn.) Medical Center . . . Frank Forensen, Jr. (Ag) works as a research chemist for General Mills, Inc., Minneapolis . . . Jane Norby Sorenson (Nur) works as a home health supervisor for Mercy Hospital, Williston, N.D. . . . Alice Stefferud Spika (SLA), Edina, Minn. homemaker and part-time interior designer, runs "Alice Spika Interiors."

Achsa Stevens (Grad), retired principal of Miss Wood's School and associate professor at Macalester College, St. Paul, had the Annual Newsletter of the Alumnae Association of Miss Wood's School dedicated to her in 1971 . . . Dr. Farrell Stiegler (Med) is a Minneapolis surgeon . . . Elaine Roberts Swisser (Nur) is a Topsham, Maine homemaker and world traveler . . . Mary Schouweiler Tayler (Journ), former newspaper journalist, is now a Spokane, Wash. housewife.

Audrey Becker Thiesse (HEC) of Howard Lake, Minn. writes: "You couldn't believe that a family could be this busy and not have



(At left) AUDREY BECKER THIESSE, seated right, '46 Home Economics grad, posed with her family for a recent Christmas portrait: from the left, standing, husband Dr. E. E. Thiesse '45BCE '51DDS; son William, a University of Minnesota sophomore; son John, a high school senior who is planning to attend the U this year; son Philip, a high school sophomore; and in Audrey's lap, daughter Ann, a third-grader.
(Below) MAXINE BERMAN KATZ, '46 University College grad, as she looked in 1964 during the CPA Convention at the Milwaukee (Wisc.) Coach House.

LARSON



anything to write about. We're caught up in a very full small town life with father being mayor, mother trying to help with various phases of Lutheran church and school, and children being normal, active students."

Herbert Thompson (IT), McLean, Va., is a hydrologist for the National Weather Service . . . Al Thornes (Ag) works as field service manager for Land O'Lakes in Detroit Lakes, Minn. . . Janet Bymark Trezona (Nur), mother of three, is a school nurse for the Mason City (Iowa) Community Schools . . . Charles Turner (Grad), a professor at Washington & Lee University, Lexington, Va., has taken numerous student study groups abroad . . . Ruth Janssen Ahnbarger (Ed) works as a paraprofessional in the John Adams Junior High library, Mason City, Iowa . . . Marjorie Wetherbee van der Linden (Ed) is a Sibley, Iowa housewife and mother of three.

Barbara Goodman Vlaming (SLA), Edina, Minn. housewife, is an active Cub Scout Den mother . . . Dr. Jack Wallinga (Med), the author of 25 professional papers, is in the private

practice of child psychiatry in Minneapolis . . . Lorraine Laveau Wappes (Nur), a registered nurse, is a Cloquet, Minn. housewife . . . Dr. John Watson (MD), president of the Obstetric & Gynecologic Clinic, a professional corporation in Medford, Ore., served a short time as a medical missionary in Korea and took a recent African trip . . . Dr. William Watson (MD), a self-employed physician-surgeon and college physician at Macalester College, St. Paul, has twice received a merit award from the Minnesota Academy of General Practice.

Helen Lind Weir (Nur), Virginia, Minn. housewife, writes about an "involved family" with an "acute urge to travel" . . . Elver "Lefty" Wendlandt (Ed) is superintendent of schools in Martinsville, Ill. . . Phyllis McGrail Wenell (LibSci) is children's librarian at the Edina branch of the Hennepin County Library . . . Ellen Levinstein Wolfson (Nur) works as assistant head nurse in

the operating room at Mt. Sinai Hospital, Minneapolis . . . Mary Bohnbach Wyatt (SLA) is a busy mother of four in Minneapolis . . . Ted Yamada (IT/Bus), Santa Rosa, Cal., is a sales engineer for the Rietz Manufacturing Co.

Jim Zumberge (SLA), director of the School of Earth Sciences at the University of Arizona, Tucson, has had a distinguished career in education. A prolific author, he has received an LLD from Grand Valley State College, Allendale, Mich., at which he served as first president, and which named a library after him. Dr. Zumberge has also had Zumberge Cape in the Antarctic named for him, and was awarded the Antarctic Service Medal in 1966.

Lois Vaaler Zumberge (Nur), a former staff nurse at Minneapolis General Hospital, leads an active civic life in St. Louis Park, Minn. . . Dr. Ed Zupanc (Med) is a pediatrician at the Monroe (Wis.) Clinic and a clinical instructor in pediatrics at the University of Wisconsin Medical School.



THE MARKET PLACE

IT IS owned and operated by University of Minnesota students and is maintained on a non-profit basis.

It is filled with a colorful panoply of ties, rugs, furniture, mod clothing, caps, belts, paintings, candles, pottery, watch bands jewelry, photographs, innovative plaques and wall hangings, mobiles and many more items — all handmade by University students, staff and faculty members.

It is called The Market Place and is located on the ground floor of Coffman Memorial Union in space formerly occupied by part of the Union Bookstore.

The Market Place, formerly The Black Market, was begun by four students in the fall 1970 who planned and pursued their idea through the summer and to the office of the Union Program Council. The Council gave The Market Place committee a \$1,000 grant to open their store which was ready for business the beginning of fall quarter 1971.

"It wasn't difficult for us to find goods to sell," Toni Riccardi, Coffman Union staff manager of The Market Place, said.

"There are so many people who sell on the Washington Avenue Bridge and it's so cold there in the winter that they were glad to have space indoors to come to."

Merchandise in The Market Place, all of which is handled on a consignment basis, turns over rapidly. Even the store's staff is amazed at how much they sell daily.

One of the fastest moving items during the holiday season was a large, floppy cap made by a University student. In mid-December he had sold more than \$400 worth of his \$5.95 caps through the Market Place.

The majority of the items for sale in the store are made by students, according to Ms. Riccardi. And they are made by students who are looking for ways to earn money for schooling.

"Not too much of our merchandise is from members of the Art department, as we had hoped it would be," Ms. Riccardi said. "We have things from people from all backgrounds, all over the University."

The Market Place also has a referral service that allows its customers to have merchandise custom-made by local craftsmen. A customer simply leaves his name and selection with The Market Place, who contacts the supplier. Most suppliers have been able to deliver custom merchandise within a week.

The Market Place is strictly a non-profit business. The store must pay a monthly rent to the Union for its space, hires work-study students as clerks and has to meet minor advertising costs. In order to function, it takes a 10, 15 or 20 percent commission on the merchandise it handles, depending on quality and value.

"We're just trying to break



even fall quarter," Ms. Riccardi said, "and I think we will."

The greater part of the original \$1000 grant to open The Market Place went for the wall that was built to separate the shop from the Union Bookstore. The furnishings came from Coffman Union proper or its storerooms, and the students' imaginations worked from there.

Although the room the Market Place is located in is institutional, it is attractive in its decor and its merchandise.

Over the next ten years the Union is slated for renovation, and The Market Place will probably be remodeled in the process.

There is a lot of pedestrian traffic on the ground floor of

(Continued on page 38)



MINNESOTA WOMEN

GLADYS S. BROOKS

FIVE years ago if anyone had told Gladys Sinclair Brooks that she would be sitting in City Hall as a Minneapolis alderman she wouldn't have believed them.

"All of my thrust had been in international and national areas," she told *The Alumni*

News. "Since I majored in political science at the University I have always been involved in something relating to international affairs."

Yet Mrs. Brooks was also interested in politics and felt that people should be interested in their own city. As proof of

her interest she served on the City Charter Commission for four years.

When the Minneapolis City Council incumbent in her ward decided not to run for re-election, she was asked by some individuals in her party to run for the office.



"I have always firmly believed that women should be involved, and I've urged them to be," Mrs. Brooks said.

"So when this happened, I couldn't very well turn them down.

"And I was lucky, I won."

Gladys Sinclair Brooks is deeply involved in the struggles of a major city that is trying to overcome its present and future problems of finance, pollution and waste disposal, housing and population growth.

As the keynote speaker at the 1971 Minnesota Alumnae Club's Annual Meeting, Mrs. Brooks offered some insights on how a city such as Minneapolis must and is planning for the future.

Did you ever stop to realize that a city, in its beginning, is just like a house? I am sure many of you have read blueprints for a house or an apartment that is to be built. When you are talking about planning for a city, you actually are doing the same kind of thing you do for a blueprint of a house, except on a much larger and more diversified scale.

I am sure our forefathers did not think of a town blueprint. They thought primarily of their needs, shelter, stores, roads, as they came across the country and established themselves here in the Village of St. Anthony.

Today we are faced with cities that have grown up like Topsy, and only recently has real thought been given to what we think and project for the future.

A city's history can be told in many ways — in terms of the persons who shaped it, of its economic functions or the social and political evolutions that have come about. Because of Minneapolis' location to the river, central Minneapolis was the first place intensively

developed, and because most cities age, the first part of the city to decline and feel the need for urban renewal and development has been the center city.

Many of the problems that we are faced with today in Minneapolis are a result of the form that was set 80 to 100 years ago. The streets were designed for horses and street-cars, houses hastily built, factories and warehouses constructed close to transportation, and a network of railroad tracks was built which separated the downtown from the river.

During this early period from 1860, we developed mills and trade centers and a shopping center in the downtown area, and railroads. For the most of the life of Minneapolis, it has been simply building.

We now have old neighborhoods. We are at a point now where we have to start to think in terms of what we do totally within the city.

I am sure you know that there is pressure gaining for the land use changes of what was there. There needs to be higher density development, apartment construction in the area which at one time was single family dwellings. We are faced with the problem of relocation of many people.

In terms of improvement of quality of life in Minneapolis, I think we should note that between 1962 and 1970, Community Programming and Planning produced 164 reports and working papers. No one can say we haven't at least been thinking about it, but now we have to transform that into actuality.

In 1962 the Community Improvement Program which was developed from HUD funds became the basis for a broad city-wide program for improvements; certain areas were identified where there was urban blight. From this we

moved into redevelopment, rehabilitation and neighborhood conservation.

We know that within the next 10 years, some \$2 billion is going to be spent by public and private means to improve the city. The City Council in 1967 initiated a city-wide improvement program entitled "Decision '67 — Action for Better Living." This was a comprehensive effort to eliminate blight and social problems in all areas of the city.

The major action of this program was directed within the core area of Minneapolis, but significant actions were slated to take place all over the city.

Some of the major elements of this program include a pilot city, a model city and the downtown area.

Minneapolis is one of 14 cities offered the opportunity to participate in the pilot city program to demonstrate the benefits of expanding social services. This means neighborhood centers which can provide social services along with physical improvements of renewal, code enforcement and new schools.

I am sure you read that Minneapolis was granted \$4,800,000 to begin a comprehensive program to tackle the problems of the near southside. This Model Neighborhood concept, which had resident and neighborhood groups forming the backbone of the Policy and Program committee, spent over a year planning for this area. Now, implementation will begin.

The Model Neighborhood program will be funded for some five years and will amount to around \$30 million when finally completed.

Through joint public and private programs, the downtown area is moving ahead in the Gateway Center, the Mall, the Auditorium Center and a study now underway for the

alumni news

MINNESOTA WOMEN

revitalization of Hennepin Avenue.

Three new areas are taking shape as we are planning for the future — the development of a comprehensive plan for the river area; Cedar-Riverside, a city within a city; and the economic development district idea for the extension of the Nicollet Mall.

We should also note that planning has been made for the upgrading of the streets in the city through a 20-year paving program, averaging about 35 miles a year of such pavings, as well as mid-block and mid-alley lighting which is to be completed this year. The Washburn Branch Library was completed last year, and the Worth Regional Library will be completed this year.

Numerous parks have been renovated and there is much focus through the Committee on Urban Environment for future participation in neighborhood rehabilitation by the residents.

The 1970 Census figures which the Planning commission is now reviewing will certainly give us some new projections which we will need as we plan for the future, not only for this community, but also for the Metropolitan area where the basic needs of the community must be met, and where, though we have an excellent quality of life now, there is still room for improvement.

GLADYS Brooks carries her city planning efforts beyond the City Council, committee meetings and outside of Minneapolis.

On a recent trip to Europe, to

see her first grandson and attend the Bar Convention in London with her husband, she combined business with pleasure and spent time visiting new towns in the London area and in Hamburg, Germany.

In London she saw eight new towns that have populations of about 60,000 each and have been developing since World War II. Hamburg offered the divisional city with shopping centers built above subway systems, and office buildings above the shopping centers, high rise apartments and housing in a mix.

Much of what she saw related to the Minneapolis Cedar-Riverside area's city within a city, and to Minnesota's Jonathan, a new town in the southern part of the state.

Because Minneapolis has recently began a combined garbage pickup after an outdoor burning ban by the Pollution Control Agency went into effect, Mrs. Brooks spent half a day in Hamburg looking at a solid waste plant.

She saw a plant that is one of the best of its kind in Europe, a plant that utilizes 1000-degree incineration, after removing the iron from solid waste with magnets, to burn its garbage and produce a slag that is used for patching streets and highways. The heat produced by this high incineration is heating 30,000 homes in Hamburg.

And what she saw might help solve the problems of a city that is running out of landfill for its garbage.

"The city is moving quickly in some areas of pollution," Mrs. Brooks told The Alumni News. "I have been particularly concerned with noise — the air noise that affects my ward and the noise along the freeway."

Mrs. Brooks sits on the Metropolitan Airport Commission and she has been involved with the Metropolitan Aircraft Sound Abatement Council

which was formed through an ordinance for which she was responsible.

"Actually, I think that the people who live on the freeway have more of a problem with noise than those who are bothered by air noise," she said. "Freeway noise is constant, night and day.

"We have done two studies with the highway department, the last of which resulted in blacktopping a small section of highway which has seemed to help to some extent. But this is not a total solution.

"We haven't devoted enough time to noise pollution. I was amazed when we started our highway study to learn that there was not a single study that had been done across the country on the effects of highway noise."

Mrs. Brooks, despite all of her work in city planning and pollution, still feels that her major input on the City Council has been in the area of finance. She has been a member of the Ways and Means committee during all three of her aldermanic terms, having chaired that committee as well as the Committee of Estimate and Taxation.

When asked about the city's financial problems and the prospects of its obtaining revenues for the future, she pointed to a metropolitan tax.

"Let's face it," she said, "we are going to have to move more of our efforts to a metropolitan base and away from a city or village base. We have already started to move this way with the Sewer Board, our solid waste concept and with transportation. And we have a united Hennepin County-City Jail.

"A lot of people are not sold on the metropolitan idea, and we must do a selling job. I think that the Metropolitan Council is a beginning.

"As a city we receive no funds for welfare relief. Yet there are

very few people on relief living out in the county or in the suburbs. It all happens here, in the city, where the majority of the aged, people with little or no income, the minorities and people on relief or with problems can congregate.

"The suburban areas have to realize that they have a responsibility toward these people as well as those of us who live in the city."

BESIDES her full-time duties as an alderman, Mrs. Brooks is chairman of the department of Ecumenical Relations of the Minnesota Council of Churches, a member of the International Social Service committee, and a board member of the Minnesota Citizen's Committee on Delinquency and crime, the Minneapolis Age and Opportunity Center, the Minnesota International Center, the Committee on Aging, Community, Health and Welfare Council, and the Metro Clean Air Committee, as well as the National Board of the YWCA.

A 1936 graduate of the University of Minnesota, she was awarded the University's Outstanding Achievement Award in 1962 for her work in international, human and ecumenical relations, and an Honorary Doctor of Laws degree from Hamline University in 1966.

She is the former chairman of the Governor's Human Rights Commission, a past president of the Minnesota International Center which she helped to found, first woman president of the Minnesota Council of Churches, former vice president of the National Council of Churches and former president of the World Affairs Council.

Abroad she has represented the U.S. State Department, the YWCA and UNICEF. In 1967 she was a guest of the German government for two weeks on the 20th anniversary

of the Marshall Aid Plan.

Mrs. Brooks feels that her kind of involvement with the Minneapolis City Council is an area in which more women should become involved.

"There is concern in city government for many things in which women can help. And city government is also an area where they can be close to home, and still build some of the understanding that needs to be built in city government today.

"It is pretty frustrating for people to come down to City Hall and try to find certain offices. They don't know where to go, they don't know how to accomplish what they want, and they are shunted from one place to another.

"Somehow they always come back to the alderman for

help. And women are good at giving this kind of help.

"However, I'm not advocating that all women become involved in politics, because a lot of them wouldn't like it.

"But women should be given the opportunity to do what they can and want to do. And once they have gained that position, they should be given the same promotional rights, the same pay for the same work.

"Those of us who have been fortunate to have been elected to office should be examples for the future. This is one reason why I hope we have more women running for the State Legislature in the next election.

"But we shouldn't vote for them just because they are women. They should be qualified."



THE ALUMNI

ALUMNAE TEA-FASHION REVUE HAS STELLAR CAST OF MODELS

A number of outstanding alumnae, University faculty and faculty wives will model at the 1972 University of Minnesota Alumnae Club Champagne Tea and Fashion Revue.

The Tea, which is held for the benefit of the Alumnae Club Scholarship Fund, will take place from 2:00 to 4:00 p.m. on Saturday, February 5, at the Holiday Forum in the Holiday Inn Central, Minneapolis.

Among the models donating their time and talents to the Revue for scholarship money are Mrs. Malcolm Moos, wife of the University president, and Mrs. Stanley D. Sahlstrom, wife of the provost of the University of Minnesota, Crookston.

University Regent Josie Robinson Johnson will also model for the event. Mrs. Johnson, who did advance work in educational administration at the University in 1971, was an instructor in the University's Afro-American Studies department until her



JOSIE JOHNSON

election to the Board of Regents.

In the past year she has also served as a board member and chairman of the Legal Services and Bylaws committees of the MOER-OEO Community Action Board and as a consultant to Southwest State College.

Alumnae models include Barbara Goldbarge Cohen '57BS, St. Paul, president of the University of Minnesota Medical

BARBARA COHEN



MRS. MALCOLM MOOS

Technology Alumni Association, who currently works as a chemistry instructor at the Medical Institute of Minnesota. Since her graduation from the University and through 1970 she worked for University Hospitals;

Kathryn Brown Gehring (Mrs. Richard L.) '50BA, Minneapolis, who entered graduate school in psychology at the University in 1971, is planning a possible career in counseling women. She has been very active in Twin Cities educational work, serving as a seminar co-chairman in the University's continuing education program for women, on an

GLORIA HOGAN



advisory committee in vocational education to the Minneapolis School Board, and on the reading committee of the Minneapolis Citizens Public Education committee;

Georgia Boosalis George (Mrs. Steve) '53BA, Edina, is one of two 1972 Revue models of Greek ancestry who will complement the theme of the Tea which is placed in Greece to coordinate with the 1972 Minnesota Greek Tour;

Gloria Cherne Hogan (Mrs. Dennis) '44BA, who for 25 years was associated with Fairchild Publications, Inc., serving as Minneapolis Bureau chief for 19 years, is currently a partner in the year-old Minneapolis public relations firm of SHE, Siegel-Hogan Enterprises. Mrs. Hogan and her husband, a dentist and also a University graduate, have 16-year-old twins;

CONNIE LEGAROS

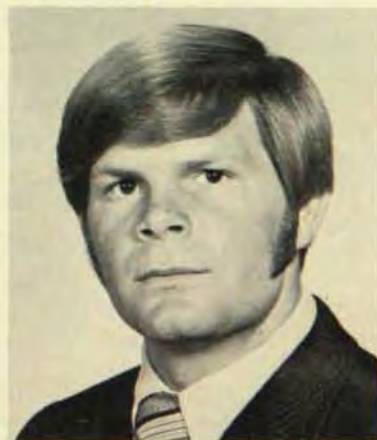


FRANKLIN D. GRAY

Geri Hoffner Joseph (Mrs. Burton) '45BA, Minneapolis, recently elected to the Minnesota Alumni Association board of directors, became a contributing editor to the *Minneapolis Tribune* on January 1. She resigned as Minnesota DFL national committeewoman in late 1971. Mrs. Joseph, the first woman to win a national Sigma Delta Chi Award for distinguished service in journalism, had been a *Tribune* reporter from 1945-53;

Mary Davis Keating (Mrs. Stephen F.) '43BA, Wayzata, has been active in a number of civic organizations, among them the United Fund, St. Barnabas Hospital Auxiliary, the Junior League and the Symphony Ball. During her senior year at the University, she was president of her sorority, Kappa Kappa

BOB MORGAN



KATHRYN GEHRING

Gamma. She and her husband are the parents of four children, ranging in age from 12 to 24;

Toyse Ann Kyle (Mrs. Earl F., Jr.) '70BSEd '70BA, Brooklyn Center, Minn., is currently teaching speech, communications and theatre arts at Brooklyn Center High School. She is also employed as a teaching specialist in the English department of the University of Minnesota, and is a free-lance producer-writer of local educational television tapes for KTCA-TV. Mrs. Kyle is active in numerous educational and community groups;

Constance Nikopoulos Legaros (Mrs. George C.) '72MA, Edina, also of Greek descent, is currently working on a master's degree in Speech Communication at the University. Her major interest is in communications in human organizations, resulting from numerous experiences on the boards of volunteer organizations and social agencies. She received her B.S.S. in speech from Northwestern in 1951;

Susan Richards McKinley (Mrs. Richard) '57BSN, Minneapolis, is president of the University of Minnesota School of Nursing Alumni Association.

Escorts for the Revue are Franklin D. Gray '25BA, a past president of the Minnesota Alumni Association and a practicing attorney with the
(Continued on page 32)

MARY KEATING



THE ALUMNI

Minneapolis firm of Haverstock, Gray, Plant and Mooty; and Robert L. Morgan, Robbinsdale, 1972 University of Minnesota Football captain.

Fashions for the Revue are provided by Roy H. Bjorkman of Minneapolis.

Entertainment during the Tea will be provided by four Greek dancers, and authentic baklava will be served.

Reservations should be made for the event before February 3. Reserved tables of ten are available upon request.

Reservations, at \$5.50 per person (\$3.00 deductible as a Fund donation) can be made by contacting the Minnesota Alumnae Club, the University of Minnesota, 2610 University Avenue, St. Paul 55114, telephone 373-2466.

Last year's proceeds from the Tea enabled the Alumnae Club to provide six \$600 scholarships to outstanding freshmen women from the Twin Cities area.

PHARMACY ALUMNI SET JANUARY 20 THEATRE PARTY

The College of Pharmacy Alumni Association will hold its popular Annual Winter Theatre-Dinner Party on Sunday, January 30, at the Old Log Theatre, Excelsior, Minn.

Following a social hour at 5:00 p.m. and dinner at 6:15 p.m., alumni will see the Tony Award-winning Broadway comedy, *Butterflies Are Free*. The play stars Tom Stolz.

Reservations for the dinner and play, at \$7.00 per person, can be made by contacting the College of Pharmacy Alumni Association, 2610 University Avenue, St. Paul, Minn., 55114, or telephoning 373-2466.



DR. GALUSZEWSKI

DR. GALUSZEWSKI HEADS DENTAL ALUMNI GROUP

Dr. Stanley J. Galuszewski '44DDS, a general dental practitioner in Anoka, Minn., was recently elected president of the University of Minnesota Dental Alumni Association for 1971-72.

Dr. Galuszewski, who received his BS degree from St. Thomas College in 1940, has been active in a number of dental organizations, including service as secretary of Delta Dental of Minnesota.

Other officers elected for the coming year include president-elect Dr. Warren W. Hunt '61DDS and secretary-treasurer Dr. Roger J. Fredsall '46DDS.

New Dental Alumni Association board members include, for the Southern district, Dr. Fred Carlson '64DDS, Fairmont, Minn.; for the Minneapolis district, Dr. Kay Ingebrigtsen '52DDS; for the Duluth district, Dr. Richard Westman '40DDS.

WALTER JOHNSON NAMED AN IT ASSOCIATE DEAN

Walter H. Johnson, Jr. '50BA '52MA '56PhD, Minneapolis, has

been named an associate dean in the University's Institute of Technology. Johnson, who is also a professor of physics in the Institute, joined the University faculty in 1958 as an assistant professor.

He was named an associate professor in 1962 and a full professor in 1968.

From 1956-57 Johnson served as a research associate at the University, and the next year as a physicist with General Electric in Schenectady, New York.

He has received a fellowship from the American Physical Society and was an associate in the Danforth Associate program.

Johnson is a member of the Commission on Atomic Masses and Related Constants of the International Union of Pure and Applied Physics.

VET MED ALUMNI TO HOLD 21ST ANNUAL LUNCHEON ON FEBRUARY 1

The Veterinary Medical Alumni Association will hold its 21st Annual Luncheon on Tuesday, February 1, at 12:00 noon in the Leamington Hotel, Minneapolis.

Guest speaker for the event will be Jerry Kindall, University of Minnesota assistant baseball coach, who currently handles the Williams Scholarship Fund. Kindall is also a former professional baseball player.

Dale Sorenson, acting dean for the College of Veterinary Medicine, will speak for the College, and special reunion tables will be available for the classes of 1951 and 1961.

Luncheon tickets, at \$5.00 per person, can be purchased by contacting the Veterinary Medical Alumni Association, University of Minnesota, 2610 University Avenue, St. Paul 55114, or by telephoning 373-2466.

CLASS OF 1922 SETS REUNION FOR JUNE 8

THE Class of 1922 will hold its Golden Anniversary Reunion on June 8, 1972.

The 50-Year Luncheon will take place on the University's Minneapolis campus in the Junior Ballroom, Coffman Memorial Union, while the evening dinner is scheduled for the Town & Country Club, St. Paul.

The 1922 Reunion has been scheduled to coincide with the Minnesota Alumni Association's Annual Meeting on June 6 and the Annual M Banquet on June 7.

The Reunion Committee elected Lawrence Clark as Reunion chairman, and Crystal Justus Anderson as co-chairman at its November meeting. Douglas Manuel will serve as master of ceremonies for the evening banquet.

Larry Clark, a School of Business Administration graduate, told The Alumni News that he has heard from quite a few of his friends who plan to attend the Golden Anniversary Reunion, and that he is trying to get the 26 living 1922 School of Business Administration graduates to attend.

Clark is a member of the first class that graduated from the University's School of Business Administration. When he entered the School in 1917, it was located in the old Mechanical Arts building on the West Bank of the University's Minneapolis campus.

"Nearly every day at 3:30 p.m. Dean Dowrie would hold an open house in his office where we all would come to solve the problems of the world."

Clark is still active in Alpha Kappa Psi, the first business fraternity chartered on the University campus and a chapter



LARRY CLARK

which he helped to start. As a student he served as the group's first president, and was their board chairman until their house was built.

He was also part of the beginnings of *Ski-U-Mah* as a student, and, as an alumnus, and president in the School of Business Administration Alumni Association, of the Annual Business Institutes that have grown so popular with alumni and local business leaders.

In the lumber business since he was a junior in high school, Clark was executive vice president of the Twin City Hardwood Company for 35 years before his retirement. Earlier he had owned his own company which burned out in 1932. He began in his father's company, Osburn and Clark, as a youngster.

Since his retirement, he has been a Small Business Administration (SBA) SCORE counselor. SCORE is a society of retired business executives who

counsel small businesses located all over the state.

His work with the SBA has made him a restaurant expert, too, according to Clark. "I've advised two restaurants that are still running, as well as 40 to 50 other businesses," he said.

Clark is a member of the American Lumber Standards committee for Soft Wood Lumber, the group that set the size of the 2 x 4.

Anyone wanting more information about the Golden Anniversary Reunion should contact Larry Clark at 6720 Southerest Drive, Edina, or contact the Minnesota Alumni Association, 2610 University Avenue, St. Paul 55114, telephone 373-2466.

The following list is made up of members of the Class of 1922 who were not mentioned in the Class listing printed in the 1971 October issue of The Alumni News, or whose addresses differed from that listing.

If you have any information about other members of the Class of 1922 that the Alumni Office should have, please contact us.

COLLEGE OF LIBERAL ARTS

Dickson, Edwin E.
Carmel, Calif.
Grendall, Ella Jackson
Palm Springs, Calif.

DENTISTRY

Budik, Joseph C.
Redwood Falls, Minn.
Ernst, Herbert H.
New York, N.Y.
Kallusky, Frederick A.
Buhl, Idaho
Norden, Lemuel A.
St. Paul, Minn.
Ohsberg, Eugene E.
Minneapolis, Minn.

(Continued on page 34)

THE ALUMNI

Paulson, Henry A.
Minneapolis, Minn.
Scott, Kenneth
Fairmont, Minn.
Sher, Abe R.
Hibbing, Minn.
Shepard, Howard B.
Chicago, Ill.
Stein, Sam M.
Milwaukee, Wisc.
Tschumpert, Roy F.
Long Beach, Calif.

(Change of Address)

Hair, Dr. Pinckney B.
Spartanburg, S. C.
Rapaze, Dr. Frank
Minneapolis, Minn.
Sanden, Dr. Bert C.
Hollywood, Calif.
Swanson, Dr. Clarence V.
Bagley, Minn.

HOME ECONOMICS

Stine, Ms. Alpha
Kankokee, Ill.
Wallfred, Violet K.
Minneapolis, Minn.

MEDICINE

McGandy, Dr. Robert F.
Edina, Minn.

PHARMACY

Anderson, Etha McDonald
Minneapolis, Minn.
Fischer, Edwin
Goodhue, Minn.
Hunkins, Ms. Louise
Phoenix, Ariz.
Fortier, Charles
Little Falls, Minn.
Leiby, Edwin
Ellendale, N.D.
Nelson, Otto
Minneapolis, Minn.
Silvernal, John

SCHNEIDER HEADS BUSINESS ALUMNI

Richard D. Schneider '59BBA, assistant vice president of the Northwestern National Bank, Minneapolis, has been elected to head the School of Business Administration Alumni Association for 1971-72. Other new officers for the coming year



DICK SCHNEIDER

include vice president, Harold G. Haglund '50BBA, a partner in Broeker-Hendrickson & Company, Minneapolis; and secretary-treasurer, Donald R. Johnson '50BBA, a partner in Haskins & Sells, CPA, Minneapolis.

Four individuals were newly elected to the alumni group's board of directors. They are Joyce K. Carlson '59BBA, senior personnel administrator for Control Data Corporation, St. Paul; Thomas W. Medcalf '69MS, a security analyst for Northwestern National Life Insurance Company, Minneapolis; Mrs. Lois Moe '64BSB, a planning analyst for First Computer Corporation, St. Paul; and Richard L. Murlowski, vice president-accounting, Soo Line Railroad, Minneapolis.

DENTAL HYGIENE NAMES OFFICERS

Mrs. Lynnae LeBarron '68GDH has been elected to head the Dental Hygiene Alumnae Association. Other new officers include Mrs. Ardis Nelson '47GDH, vice president, and Linda A. Lally '70GDH, secretary-treasurer.

Newly elected to the association's board for three-year terms were Leah I. Eyler

'70GDH, Mrs. Clio K. Griffin '39GDH and Linda A. Lally '70GDH.

U.S. FOREIGN SERVICE DIRECTOR GENERAL WILLIAM O. HALL RECEIVES OAA

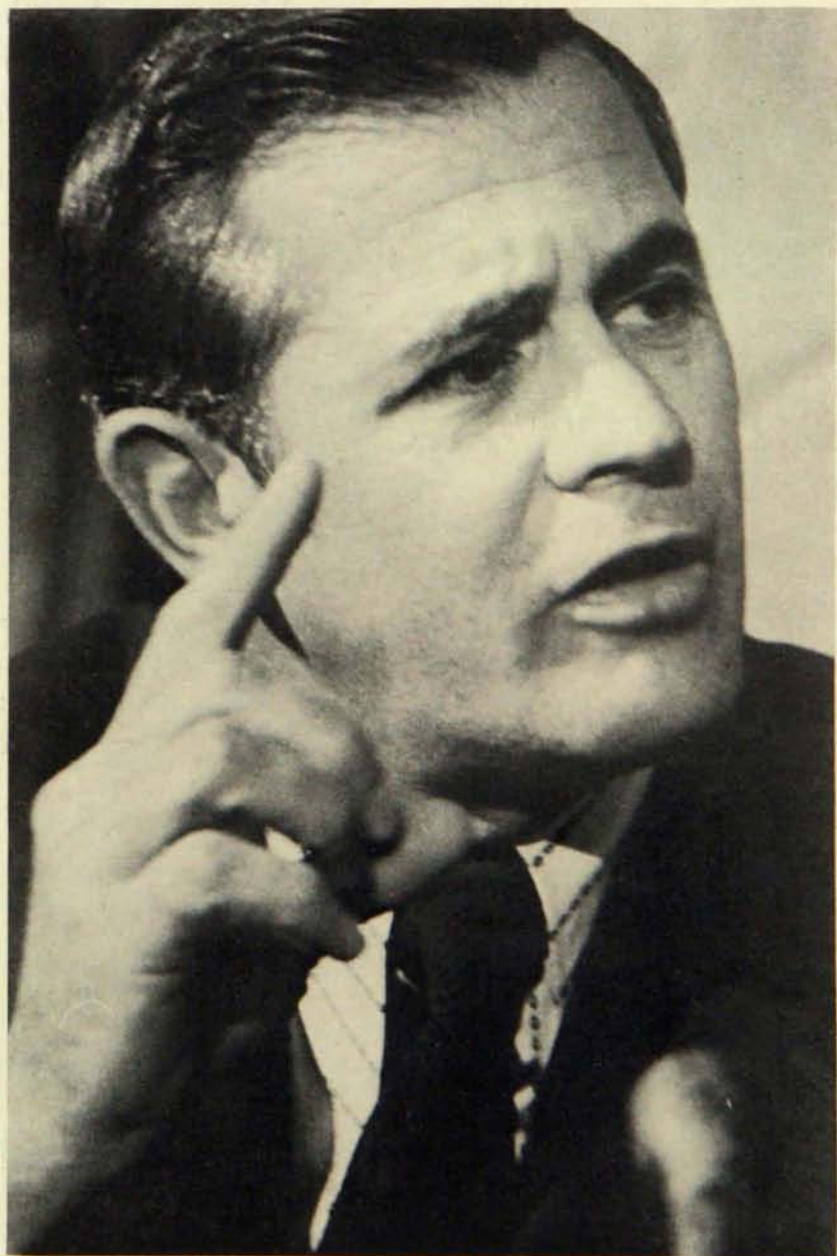
Ambassador William O. Hall '38-'39 director general of the U.S. Foreign Service, received the University's Outstanding Achievement Award in October at a meeting of the Minnesota chapter of the American Society for Public Administration.

Hall, who was a public administration fellow at the University, was honored "in recognition of his very distinguished career with the United Nations and with the Department of State in the field of overseas administration and of his active support of the University of Minnesota and of its graduate program in public administration".

He was named director general of the Foreign Service this year, after serving as U.S. ambassador to Ethiopia from 1967 to 1971.

Hall began his career in the foreign service in 1947, serving as director of budgeting and planning from 1947 to 1950; director of the Office of International Conferences and Administration, 1950 to 1952; deputy U.S. representative and senior adviser with the U.S. Mission to the United Nations, 1952 to 1956; counselor for administration at the U.S. Embassy in London, 1956 to 1958; deputy assistant secretary of state for budget and finance, 1958-1959; minister counselor and deputy chief of mission in the U.S. Embassy in Pakistan, 1959 to 1963; and assistant administrator of the Agency for International Development, 1963 to 1967.

dave shama's gopher tales



NOT too long ago University of Minnesota baseball coach Dick Siebert said that former all-American Paul Giel had more to do with making the Gophers champions than any other player he has coached.

"It was Giel who first drew state, Big Ten and national interest to our program," Siebert said. "We were just getting started when he came here and made all-American as a pitcher.

"Giel was a winner and he left a legacy of pride and competitiveness with us that carried over to other squads for many years."

Now, 20 years after he competed as an all-American baseball and football player at Minnesota, the University is looking to Paul Giel for leadership once again.

President Malcolm Moos recently selected 39-year-old Giel to succeed Marsh Ryman as director of the University's financially-troubled athletic department.

Observers close to the department aren't surprised by Giel's appointment. It has been obvious for some time that the public wanted a change in University football leadership.

It is said that University President Moos never had any other candidate in mind for the job of athletic director but Giel, and Moo's opinion is shared by others.

(Continued on page 38)

GOPHER TALES

Two years ago Gopher alumni were talking of Giel becoming the University's athletic director some day.

"Paul Giel is the one guy who is right for the athletic director's job at Minnesota," alumni said. "He is the good-looking, all American boy who came out of Winona, Minnesota, starred at the University, played pro baseball and is a well-known sportscaster."

THE day Moos selected Giel for the job, Giel indirectly went to work on one of the athletic department's major problems — apathy.

Giel's selection made many people notice the University for the first time in years and brought a moment of encouragement to long-suffering University sports patrons.

Generating enthusiasm in Gopher athletics and confidence in his program has been Giel's first objective since his appointment.

In the long run much of his success will depend on Gopher football; right now Giel wants to gather as many resources as possible to build football.

"I'm going to try to rally our alumni, students, faculty and fans to our cause," Giel said.

"I think one of the reasons I was hired for this job was to get people turned on to Gopher sports. I will try to do that in every way I can. I expect to be out of the office a lot selling — that appears to be a big part of my job."

However, Giel realizes that the best public relations won't fill Memorial Stadium.

"Football is the nuts and bolts of our program and we're going to have to produce winning teams," Giel said.

"A lot of people are comparing

what's going on here now with Wisconsin. I hope there are similarities. I hope we rally our state around the Gophers like Elroy Hirsch has Wisconsinites around the Badgers.

"Yet, I don't think our situation is exactly comparable to Wisconsin's. We are in more direct competition with pro football, and I think winning is more important here than at Wisconsin.

"In the three years Hirsch has been at Wisconsin the Badgers have yet to field a winning football team, but yet have packed their stadium.

"We've got to win here to fill ours."

YET Giel knows that winning is not the whole answer to filling Memorial Stadium. In 1967 the Gophers tied for the Big Ten title, and averaged 50,000 a game.

"We've got to have a working combination of the intangibles to get the football program going. Once we get football started we should be in good shape financially and on the field," Giel said.

"I'm not too concerned about other sports because we've got competent coaches. If you check Minnesota's over-all athletic standing each year you'll find the Gophers near the top."

Giel believes the Gophers can help themselves immensely by recruiting outstanding high school football players in the surrounding five-state area. In recent years several outstanding area players have attended such schools as Colorado, Nebraska and Texas. Giel believes that local players, supplemented by a few blue-chip players, would provide outstanding and cohesive material.

"I want our alumni and anyone else who wants to help to give us as much assistance as possible in recruiting athletes," Giel said.

"We have a great school and we have to sell it. It's going to

take a united effort to do it."

However, Giel realizes that only so much can be done at a time.

"I've got a challenge here, but, step by step I can make it," he said.

"I'm happy I came. I feel like I'm home."

DR. GOOD GETS \$200,000 GRANT



Dr. Robert A. Good, University Regents' professor of pediatrics and microbiology and chairman of the pathology department, has received a \$222,825 grant from the John A. Hartford Foundation Inc. of New York to extend his studies of immunologic reconstitution and cellular engineering.

Dr. Good will use the grant to extend and perfect bone marrow transplantation as a correction of immunodeficiency diseases and to use cellular engineering techniques to induce more vigorous immunologic resistance to cancer.

An immunobiology pioneer, Dr. Good has been honored for his research by the Gairdner Foundation in Canada, the Association of American Medical Colleges and the Albert Lasker Foundation.

alumni news DEATHS

Lyle Pettijohn '10LLB, Minneapolis attorney, died September 19.

Roy S. Callaway '11BS, Minneapolis, 81, who retired in 1953 as a purchasing agent for the University of Minnesota and who was a member of the University's 50-year M Club, died recently.

John R. Coan '11LLB, Minneapolis, 82, an attorney who served the longest term on record as postmaster of Minneapolis - 18 years, died recently.

Harold J. Dane '11BA, Iowa City, Iowa, 81, owner of Dane Fuel and Supply Company, died recently.

Dr. Reuben A. Johnson '13BS '15MD, Minneapolis, 81, a practicing physician in Minneapolis for more than 40 years who had been chief of staff at Abbott Hospital and also a clinical professor emeritus in the University Medical School's division of internal medicine, died recently.

H. Stanley Loeffler '14BS, Salt Lake City, Utah, 80, a former St. Paul resident and retired chief engineer for the Great Northern Railway, died recently.

Dr. George Estes '15DDS, Bloomington, Minn., 81, who was the second oldest practicing dentist in Minnesota when he retired two years ago and who also taught at the University of Minnesota School of Dentistry, died recently.

George A. Selke '16BA, Portland, Ore., 82, former president of St. Cloud State College, chancellor of the University of Montana, chief of the Division of Cultural Affairs for the U.S. Commissioner for Germany and commissioner of the Minnesota Department of Conservation, died recently.

Ernest E. Goldberg '18BS, Arcadia, Calif., a 50-year M man who coached basketball for about three years in Coeur d'Alene, Idaho, before illness caused his retirement, died September 2.

Donald L. Johnson '18BS, Duluth, Minn., died recently.

Dr. Edward Regnier '19BS '20BM '21MD, 75, a surgeon in Minneapolis for 50 years, died recently.

Bennie William Gandrud '21BS, Tuscaloosa, Ala., 76, who did research

for the U.S. Bureau of Mines until his retirement in 1955, died recently.

Alice Edna Johnstone '21BA, Minneapolis, a member of the Alpha Phi Sorority, died recently.

Constance S. Clapp Mackintosh '21BSN, Manhattan, Kan., died October 23.

Ferdinand H. Steinmetz '21MS '26PhD, Union Springs, N.Y., professor and head of the department of botany at the University of Maine, died recently.

Wesley R. Elvin '22BSB, Minneapolis, died recently.

Robert A. Calhoun '23BMinE, Escondido, Calif., who worked in mines of the Mesabi Iron Range and was a consulting safety engineer, died September 27.

Mrs. Ramona Jalonon '24BS, Fresno, Calif., 66, who taught at Bricelyn, Wykoff and Humboldt, died recently.

Miss Dorothy Michel '24BS, Salt Lake City, Utah, 69, retired associate professor of physical education at Macalester College, died recently.

Thomas Harley Comfert '26BS, Minneapolis, who worked for St. Paul Structural Steel and was very active in industry affairs, died recently.

Robert A. Frenzel '26BSB, Grosse Pointe, Mich., 67, who worked for the St. Paul Terminal Warehouse and was manager of the Detroit branch, died recently.

Frederick Charles Hottes '27PhD, Grand Junction, Colo., a noted authority on plant lice, died recently.

Dr. Paul C. Bunker '28PhD, Alburden, S.D., long-time ear, nose and throat specialist, died September 2.

Mark M. Regan '28BBA '32MA, Washington, D.C., 65, retired senior resource economist in the Department of Agriculture, died recently.

C. N. Stokes '29BS, St. Petersburg, Fla., died recently.

Kathryn Bele Niles '30MA, Winter Park, Fla., first lady of the poultry industry and member of the Poultry Hall of Fame, died recently.

Majorie Ann Browning Hayter '32BS, died June 27.

Dr. Martin Patmos '34MSMed, Kalamazoo, Mich., a fellow in medicine in the Mayo Graduate School of Medicine, Rochester, Minn., died September 2.

Curtis L. Erickson '38BS, Minneapolis, 59, a staff member of Stars and Stripes in Japan where he lived for several years and wrote three books on military life, editor of the Austin Herald and participant in the Minneapolis Writers' Workshop, died recently.

Dr. John T. Anderson '40BS '41MB '42MD, New Brighton, Minn., 53, who practiced medicine for several years and was a former Ramsey County coroner, died recently.

Dr. Harry C. Browne, Jr.,

'41MSMed, Portland, Ore., a resident in the Mayo Graduate School of Medicine, Rochester, Minn., died recently.

Dr. Walter A. Albrecht, Jr., '47MA, Long Beach, Calif., 52, a professor in the mathematics department of California State College, Long Beach, died April 6.

Gordon W. Reichow '48BA, St. Paul, 52, president of the Ryco Supply Company, died recently.

Richard T. Torkelson '48BS, Santa Rosa, Calif., 49, news editor of the Santa Rosa Press-Democrat, died recently.

Dr. Wendell L. Nielsen '46MS, Idaho Falls, Idaho, 56, chief of surgery at the Sacred Heart Hospital, died recently.

B. H. Hill '47MA, Minneapolis, executive director of the Minnesota State High School League, died recently.

Dr. George E. Nelson, Jr. '47BS '49BM '50MD '60MD, Minneapolis, clinical assistant professor of orthopedic surgery, died Sept. 27.

John G. Robertson '48LLB, St. Paul, an attorney and partner in the law firm of Oppenheimer, Brown, Wolff, Leach & Foster, died recently.

Frank J. Tupa '48BA, Edina, Minn., a real estate broker and former owner of Anbuhl's, a woman's apparel shop, died June 12.

Virgil S. Johnson '50BA, Minneapolis, 46, a junior high school teacher, died May 25.

Dr. Martin S. Kleckner, Jr. '51MS, Decatur, Ill., assistant professor of medicine at Tulane University, Louisiana, and a specialist in gastroenterology, died June 1.

Dr. Robert F. Schell '53MS, Chico, Calif., a private practitioner, instructor and consultant, died recently.

Dr. Sarah A. Luse '54MS, San Francisco, Calif., professor of anatomy in the College of Physicians and Surgeons of Columbia University, died recently.

Dr. Robert Maurice Feldaker '55MS St. Louis, Mo., a fellow in dermatology and syphilology at the Mayo Graduate School of Medicine, died recently.

Dr. Thomas E. Lynn '56MS, Green Bay, Wisc., a fellow in surgery at the Mayo Graduate School of Medicine, died Feb. 3.

Frank C. Stever '60BS, 38, St. Paul, Minn., a teacher in the Minneapolis schools, died July 22.

Dr. William S. Berner '61BA '62MA, Seattle, Wash., on the faculty of the School of Librarianship, University of Washington, died recently.

Mrs. Marian Matejcek '61MA, 58, St. Paul, Minn., a teacher, died recently.

Robert C. Fisher '70BA, St. Paul, Minn., 23, a statistician for the Fingerhut Company, died April, 24.

MARKET PLACE

Coffman Union so that the Market Place staff does not want to move its quarters. During one day of the Christmas season more than 600 people visited the store.

And, as with all busy shops, one of The Market Place's greatest problems has been theft.

Merchandise prices are set by the supplier.

"And if items don't sell, they are generally over-priced," Ms. Riccardi said.

"It's up to our clerks to talk to the suppliers about this. But it is difficult for many of the students to cut their prices because they have spent so much time making the items."

Yet, anyone asking \$120 for a painting on a University campus should be realistic. Students just don't have that kind of money to spend, nor do staff people.

During its beginnings, The Market Place accepted just about every kind of merchandise it was offered to sell. "But as we go along, hopefully, we will become more selective so that we can have a better quality of merchandise," Ms. Riccardi said.

The Market Place's personnel are a hard-working, responsible student group — with a bright future in the business world.

INDEPENDENT STUDY

During the 1968-1970 biennium more than 1200 students participated in 22 different Community Classrooms. Approximately 600 of them participated in a Horse Science course administered simultaneously in seven locations.

The possibility of even greater flexibility in independent study through the continuing application of modern technology indeed seems bright. The time is fast approaching when students will have the option of using completely taped materials, completely written materials or a combination. And such developments as a miniature audio-visual package consisting of a cassette tape recorder and a combination slide film-strip projector that can be mailed to students; a system where students can call a telephone number and listen to taped material over the phone; and other systems using combined media yet to be devel-

oped are not far behind.

There are more than five million students enrolled in independent study courses in the United States and this number is steadily increasing as educators recognize the part that independent study can play in relieving overcrowded classrooms, providing flexible study arrangements and offering increased opportunities for lifelong learning. With application of new technology and refined learning techniques, the Department of Independent Study is moving ahead so that in Minnesota, at least, independent study will continue to stay "slightly ahead of its time."

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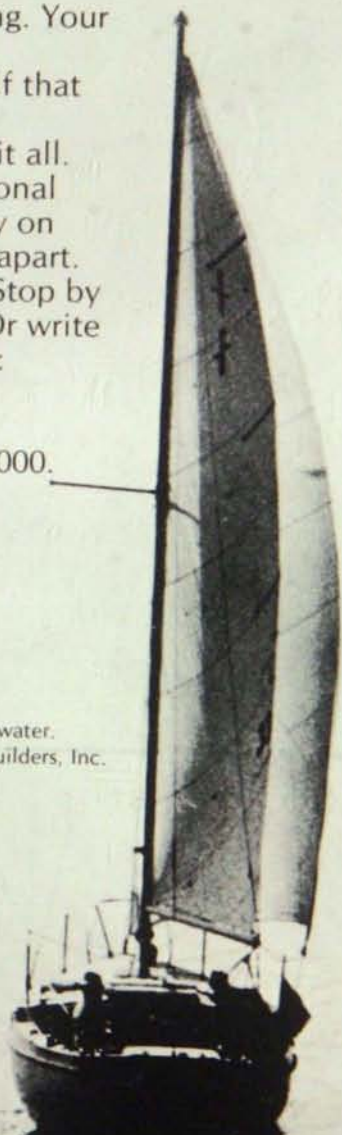
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50 - 54	10,000	36.75
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• **You Are Eligible** . . . if you are a member of the MAA, under age 60, and are either actively employed or are an unemployed housewife. Coverage for residents of Texas, Ohio, New Jersey, Wisconsin not available at this time.

• **Generally No Physical Exam** . . . usually only the short statement of health on the enrollment form is necessary.

• **Beneficiary** . . . you name your own beneficiary, which you may change at any time. Special beneficiary arrangements can be made to fit your own requirements. Settlements of death claims as a monthly income may be provided.

• **No Premium To Pay While Disabled** . . . your life insurance premiums are waived and insurance remains in force if you become totally disabled (as defined in the contract) before age 60.

• **You May Change** . . . to a permanent policy which builds cash values for retirement. When you terminate membership in MAA, when you reach age 74, or when any insurance terminates because of a change in age beyond age 60, you may convert the amount of group life insurance which terminates to any individual policy of life insurance then being issued by the insurance company other than term insurance or any policy containing disability or other supplementary benefits.

Minnesota Alumni Association Group Life Insurance

Application

Last Name (Print) First Name Middle Initial

Street Address

City State ZIP Code

Date of Birth Sex Class, or years at U of M

Beneficiary (Print Name as MARY DOE, not MRS. JOHN DOE) Relationship

Statement of Health

The following information is submitted as evidence of my insurability: Weight _____ Height _____

Have you ever been declined or rated for life insurance? (If yes, give details below) _____

Within the past five years, have you been confined for more than five days for any illness or injury or undergone any surgical operations? (If yes, give details below) _____

Are you in good health? _____

Comments:

I hereby apply for that coverage for which I am or may become eligible under the above Group Policy issued by the Prudential Insurance Company of America to the Minnesota Alumni Association.

Date

Signature

Prudential



1972 FEBRUARY

alumni news

UNIVERSITY OF MINNESOTA



The Minnesota Clock

Eli Terry (1772-1852) was one of America's outstanding Colonial clockmasters—an innovator, a craftsman par excellence and a far-seeing business man.

From his drawing table and workshop in Plymouth Hollow, Connecticut, came clocks that take first place in the respected traditions of early American clock history.

Among his many beautiful designs, is one of the year 1816 which has been considered his most noteworthy—extremely simple, graceful, unobtrusive, fine. It is called "Presentation."

The clock pictured here recaptures the lines and spirit of this 1816 Terry masterpiece and, as a Presentation Piece, serves to perpetuate his important contribution to the Colonial period.

We inscribe, on the dial, in three lines, whatever inscription you want; and we place in the lower panel a photograph of Coffman Union on the Minneapolis campus.

"The Presentation," measuring 14" x 9" x 4", entirely hand-crafted in New Hampshire, is in rich honey pine, hand-rubbed to a warm antique glow. It has a guaranteed electric movement of the best quality for long, quiet and trouble free dependability.

Since these clocks are hand-made to individual order, please allow about three weeks for delivery. Print clearly on your order the inscription as you want it to appear on the dial.

Regular model with cord postpaid in the United States \$53.50.

Cordless battery-powered model runs for one year on a regular flashlight battery. Postpaid \$57.50.



MINNESOTA ALUMNI ASSOCIATION UNIVERSITY OF MINNESOTA

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Enclosed please find my check in the amount of \$ _____.

_____ Regular Minnesota Clock (\$53.50)

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Minnesota residents add sales tax.

To be inscribed as follows: **PLEASE PRINT**

Send to: Name _____

Address _____

City _____ State _____ Zip _____



ON THE COVER

"M" MAN CAL STOLL NAMED NEW GOPHER FOOTBALL COACH

The appointment of 48-year-old former Gopher end Cal Stoll (*pictured at right on the cover*) as University of Minnesota football coach last month created more New Years' excitement about Gopher football than at any time since 1962 when Minnesota was in the Rose Bowl.

Stoll, who played end for coach Bernie Bierman in the late 1940's, was released from a 10-year contract at Wake Forest to succeed Murray Warmath as Gopher coach. Stoll's appointment, made official along with that of athletic director Paul Giel (*at left on cover*) by the Board of Regents on January 14, received overwhelming approval by alumni, students, fans and media in the Twin Cities.

Stoll made his first appearance during the halftime of the Gopher-Indiana basketball game January 8 and received a standing ovation from a near-record crowd of 19,121.

As applause filled Williams Arena, and then gradually died down, Stoll surveyed the huge crowd and said, "Wouldn't it be great if each of you would bring two or three friends next fall and fill Memorial Stadium."

After the crowd roared, Stoll said, "It's good to be home." Then he walked off the court to another huge ovation.

Stoll started his coaching career at Mound High School in St. Paul. The native of Page, N.D., then went to Utah State, Denver, Georgia and Michigan State as an assistant coach before taking over as head coach three years ago at Wake Forest.

At the Winston-Salem, N.C. co-ed college Stoll, who describes himself as a man who loves to work with people, gave the Wake Forest Deacons their first back-to-back winning seasons

ever. His 1970 team won the Atlantic Coast title. Stoll's records for the last two years have been 6-5-1.

Stoll hesitated about leaving Wake Forest where he was offered the first major college head coaching job of his career, but said, "My dream has always been to come back here. There are problems involved here and there are challenges here. But my one objective is to win."

The new Gopher coach believes that winning will do much to revitalize interest and enthusiasm in Minnesota football.

"I'm not saying this is the only answer, however," Stoll said. "I think a lot of support will come from just being nice to people and making friends."

Stoll has already drawn considerable following with his remarks about the University. The following is typical, "I owe something to the University of Minnesota. If it wasn't for Bernie Bierman and others at Minnesota I would never have been able to afford the opportunity to get a college education.

"I guess I'm a sentimental guy. I even get excited thinking about sitting in Bernie's old office."

The Gophers obviously have an 'M' man with a giant 'M' on his chest of which he couldn't be prouder.

MINNESOTA PORTFOLIO

Lasting Quality

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POINTS OF VIEW



The King is dead, long live the King!

*Paul Giel is in as athletic director and Marsh Ryman out;
Cal Stoll is in as football coach and Murray Warmath out!*

Marsh Ryman was the first Minnesota graduate and "M" man to be athletic director; Paul Giel is the second. Bernie Bierman was the first U of M graduate and "M" man to be head football coach; Cal Stoll is the second.

What's new is the fact that for the first time ever, Minnesota has an athletic director and a football coach, who are both U of M grads and "M" men.

The Minnesota football tradition began in 1819. The team started winning right from the very first and in 1889, 1890, 1892 and 1893 they were the undefeated champions of the West. Add to that fact that they defeated Michigan the first time they played them in 1892 and you have an auspicious start.

The first regular coach at Minnesota was Dr. Henry L. Williams in 1900. During his early years he won so consistently that Western conferences football was referred to as the "Minnesota Monopoly". In his early years as coach he won eight conference titles, four outright. He is considered one of the greatest offensive coaches of all time. As a member of the Football Rules committee, Doc Williams was the first to advocate the adoption of the forward pass which was finally adopted in 1906. He was the first to use the flanker and shocked the football world with his "Minnesota Shift". He developed three great coaches: Gil Dobbie, Clark Shaughnessy (the father of the "T" formation) and Bernie Bierman. By 1905 his record was 52 wins, 3 losses and 3 ties. During those years Minnesota scored 2,131 points to 93 for the opposition. Doc Williams brought to Minnesota its first golden era of football.

The second golden era of Minnesota football started in 1932 when Bernie Bierman teamed with Athletic Director Frank McCormick to bring to Minnesota the greatest record in a ten-year period of any coach in football history up to that time.

Bernie's ten-year record was 63 wins, 12 losses and 5 ties. He had five undefeated seasons: 1933, 1934, 1935, 1940 and 1941. Five national titles: 1934, 1935, 1936, 1940 and 1941. Seven Big Ten titles, five outright and two ties. He produced 12 all-Americans and had two different victory strings of 21 games without a loss — the first time in 1934-35 and then again in 1939-40-41.

Bernie was responsible for the development of such great coaches as Biggy Munn, Red Dawson, Dal Ward and Bud Wilkinson. Cal Stoll was one of his players.

Frank McCormick and Bernie Bierman teamed together to produce the second golden age of football at Minnesota. Now we have Paul Giel and Cal Stoll, a great new combination, who together just might bring the golden shine back to Gopher football. It's an exciting thought.

Ed Hauke

In late July 1971, Columbia University Press published *CHINA AND RUSSIA: The "GREAT GAME"*, by O. Edmund Clubb '27BA.

Dr. Clubb served as a Foreign Service Officer for 18 years, and was U.S. Consul General in Peking from 1937 to 1950.

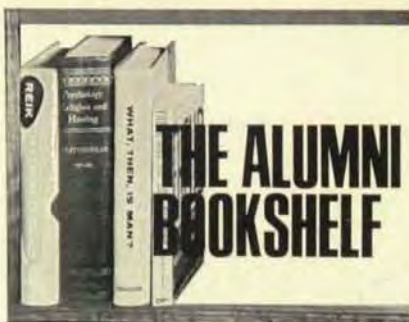
From this wide experience of East and Central Asia, Clubb is able to take his readers through three and a half centuries of relations between the two great powers of Russia and China. After telling of the first meetings of these two empires, the author traces the course of



events right through the era of the Sino-Soviet Cold War, emphasizing events since 1850.

Clubb also gives the reader an authoritative exposition of the significance of this long history of Sino-Russian relations for the world today.

"The urge to power nevertheless is inherent in expansive politics. Thus, in an era when empires are viewed as anachronistic, three remain — China, the Soviet Union and the United States. In a world grown too small for modern warfare, they are in contact in many sectors; true to the nature of imperial states, they



compete and are currently in conflict. The future of each will be influenced in large measure, inevitably, by domestic developments. The 'Han cycle' is found in more than Chinese affairs," the author says.

The 578-page illustrated volume costs \$12.95.

Paul A. Sanders '40PhD has written a book, *PRINCIPLES OF AEROSOL TECHNOLOGY*, that is an outgrowth of a course in aerosol technology provided by the Freon Products division of the Du Pont Company for over 10 years.

In the 410-plus-page illustrated volume, the author places particular emphasis on the basic theories and fundamental principles that govern the phenomena in the aerosol field.

"Only through an understanding of these principles will many of the problems in the aerosol field be solved," the author said.

According to Sanders, most of the material in 19 of the book's 27 chapters has not been covered in any other book in the field.

Published by Van Nostrand Reinhold Company, the book sells for \$17.50.

Marchette Chute '30BA has been at work on *THE GREEN TREE OF DEMOCRACY* — published in April 1971 by E. P. Dutton of New York — for

more than 10 years doing the required research and writing, editing and rewriting the text.

She is particularly glad that the book is coming out at this time because she feels that now is a crucial time in our history: young people are being given the right to vote and they have to choose whether or not to exercise that hard-won liberty.

The struggle for the right to vote is also part of Ms. Chute's heritage. It should be of interest to feminists and others that — according to a family history — there were only two men to march in the Women's Suffrage parade in Minneapolis years ago. Ms. Chute's father was one of those two men to join the struggle.



In *THE GREEN TREE OF DEMOCRACY*, Ms. Chute traces the history of the right to vote in the United States, bringing new light and perspective to a subject that we often tend to take for granted. The author shows how difficult the conditions were under which the "green tree" — the right to vote — sprouted and how many Americans tried to prevent its growth.

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alumni news

UNIVERSITY OF MINNESOTA

FEBRUARY 1972

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UWW

UNIVERSITY WITHOUT WALLS

AN elderly farmer in northern Minnesota has been studying optics on his own for many years. He is capable of grinding lenses, has constructed sophisticated telescopes and is collecting an impressive library of reading material on optics.

A 35-year-old woman who dropped out of junior college years ago currently works in a Brainerd (Minn.) hospital. She has spent most of her working life helping hospitalized psychiatric patients.

What do these two individuals have in common?

They have a great deal of experience and knowledge in specialized areas that traditionally have been reserved for college graduates.

And — today at the University of Minnesota they have the availability of an experimental

and far-reaching program that is designed to make a college education available to them.

"We have been looking for people who have real life experience and who need the academic credit and credentials and further training in order to advance," Jeffrey Johnson, program coordinator of University Without Walls (UWW), said recently.

UWW is exactly what its name implies — it is more a coordinating or resource center and a learning facilitator than a college.

"(UWW) abandons the tradition of a sharply circumscribed campus and provides education for students in their homes, at work within areas of special social problems, at more than one college, and in travel and service abroad. It abandons the fixed age group (18-22) and recognizes that persons as young as 16 and as old as 60 may benefit from its program.

"It abandons the traditional classroom as the principal instrument of instruction, as well as the prescribed curriculum, the grades and credit points which, however they are added or averaged, do not yield a satisfactory measure of education.

"It enlarges the faculty to include knowledgeable people from outside the academic world and makes use of various new technologies for storage, retrieval and communication of knowledge. It places strong emphasis on student self-direction in learning, while maintaining close teaching-learning relationships between students,

teachers and others.

"It aims to produce not finished graduates but life-long learners," according to the original UWW proposal to the Union of Experimenting Colleges and Universities, the national group that initiated the program.

UWW is one of 20 similar, though uniquely distinct, programs located throughout the country that are federally and foundation funded.

The Union of Experimenting Colleges and Universities, to which the University of Minnesota belongs, came together to encourage educational innovation and experimental programs in higher education. UWW is the Union's second major program.

"UWW is intended to extend the places and resources of higher education to include the community and adjunct faculty — people who are educational resources within a community," according to Barbara Knudson, director of the University of Minnesota program.

"In extending the opportunity for self-direction to students, UWW is intended for the student who wants to pursue a curriculum that is unique to him, but that is an all together self-directed, self-planned educational program.

"The idea of UWW is to give educational experience in a far broader range of areas than the college classroom," Mrs. Knudson said.

The Minnesota program seeks mature students who have clear

A 37-year-old housewife and mother of three teenage sons had her left leg amputated two years ago. She has had two years of college at Bemidji Junior College, about one year's worth of extension work from Bemidji State College and was stopped from pursuing further work towards a degree because nothing else was available to her in Brainerd — until she became a UWW student.

"I have been on my own since an early age and possess the drive and initiative to accomplish my goals given the opportunity to try. Improving myself would serve as a real example and guide for my rapidly maturing family."

educational objectives, but for one reason or another cannot reach their objectives by any other existing educational opportunities.

Consequently UWW is not oriented toward the student who is seeking "identity" or "life direction" as is the Experimental College at the University of Minnesota.

The Minnesota UWW program has approximately 43 students currently enrolled, with more waiting to be processed and approved. The UWW staff set their 1971-72 enrollment projections at 30 to 50 students, purposely keeping the first year class small in order to analyze what will and what won't work in UWW's innovative path into higher education.

In the current student body, four live out of state, half are within 30 miles of the Twin Cities, including three convicts in Stillwater prison, while one man lives 400 miles away from the Twin Cities on the Canadian border.

Eighteen of the students live within Minneapolis and St. Paul, while three live within 20 miles of the Cities. Of the 15 who live out of state, 8 are in the Brainerd area, 3 in or near St. Cloud, and others in Wadena, Watertown, Sandstone Federal Prison and Roosevelt.

Although all of the UWW students are reaching for a degree, not all of them have future employment in mind, Mrs. Knudson noted.

"One of our students, for example, is retired and lives in the Old Soldier's Home. He is

interested in geriatric programming," Mrs. Knudson said.

"But I doubt that he is thinking about his interest in terms of employment. He is thinking rather of additional involvement with volunteer and leadership activities within his own group."

The youthful contingent enrolled in the program — approximately one-fourth of the group — are not in day school because they have to work, cannot find the kind of educational programs they want in the University's evening classes or are interested in unusual areas of study.

"For instance, one of our young men is basically an artist," Mrs. Knudson said. "He will do some of his work with adjunct-community professors or artists who are not affiliated with the University and with some who are.

"He is interested in Oriental art and wants to pursue an extensive travel program."

Only a few of the UWW students will take one or two evening and correspondence courses from the University. The majority of student work will be in the field, in the form of directed research, apprenticeship or work-study, reading and so forth.

If the students had been the kind who could take regular classes on the University campus, they would not have been admitted to the program.

The interests of UWW students are as extraordinarily varied as the individuals themselves.

The largest number of students, who range in age from 17 to 61 (averaging 30.9 years) are interested in education at all levels, from pre-school to secondary. Specialized interests include media development, play therapy, early childhood programming and art therapy.

Among those who have chosen the social sciences, some are interested in city planning, others in psychology and art, correctional and rehabilitation counseling, and Indian studies. Students in the humanities are working in Chinese art and landscaping, comparative language study and experimental theatre programming.

These are typical UWW student comments regarding educational interests:

My intention in this program is an eventual degree in the field of transportation and business logistics. As a short term goal I want to learn more and become involved in our new computer technology in air traffic control.

I would like to attempt to develop a concept of the relationship between man and machine, examining in depth the following areas: 1) machine as an extension of man's senses, 2) the impact of machines on the global community, 3) problems of obsolescence and the law of diminishing returns, 4) and the socio-psychological implications of the latter.

What I want to learn is in the area of organizational and interpersonal communication. How I want to learn is through class study relating to my field, working independently for a firm participating in on-the-job training and experience. Classroom work can give me insight into various theories, but actual application of my own theories combined with academic ones can stimulate growth and realistic understanding of my field. With the combination of the two I can be more creative.

Twenty-six of the UWW students have had more than one year of college, while four have had no college experience whatsoever, and one has not completed high school.

The occupations of the students are varied and interesting. The largest number (12), mostly the younger members of the group, are principally students. While they all work, their jobs are not career occupations but support for on-going educational work.

Nine of the UWW students work in social service positions — in hospitals, child care settings, in correctional institutions and rehabilitation programs and in schools. An equal number are basically housewives, while three others are in clerical positions, one in the restaurant business, another in air traffic control and four in penal institutions.

UWW staff members have not

"I have been learning with every breath I take — and hope to continue until I am incapable. The essential character of that education changes periodically as I become more capable. What I must do is align my capacity with that method which can offer the most. . . . I believe I have reached the point at which I can benefit more fully from independent and self-directed study."

"Most of what I want to learn will be learned by doing it. It's the only way to learn it. I don't admit to be without need of help. I need counselors and confidantes. I ask for your help in my education, but I don't ask you for an education."

A black inmate at the Stillwater correctional institution wants to research "Why everyone I've grown up with is in the same cell block I'm in, having reunions at the expense of the state for the last eleven years", and then return to his home in a St. Paul ghetto to begin community development.

"We have a tendency to pigeonhole people according to chronological age. Unfortunately, human beings cannot be fitted neatly into age slots. The learning process cannot be fitted into these categories either."

seen many of their students. Most of them registered, paid their fees and are doing their work through the mail, by telephone and tape recorder.

In their roles of resources center and learning facilitator for students, UWW staff members individually act as major advisors while at the same time helping UWW students develop learning programs relevant to their needs and guiding them to faculty people who will work with them.

After the Minnesota UWW students work out an educational program tailored to their individual needs and circumstances, they register for classes through existing University crediting programs. The students may by-pass some courses and get credit for their background in these areas by taking an examination.

For example, the Brainerd hospital worker that we mentioned at the beginning of this article may say that her educational objective is receiving a college degree in psychology, with emphasis on method rather than research.

She might take an examination in place of beginning psychology courses, then register to take several courses without attending classes. She might also register for directed studies in several areas, spending time reading and analyzing the literature in her field.

She would keep a personal file of all her work, as UWW students are required to do, and meet another requirement by setting up a guidance com-

mittee. This committee could be composed of a UWW staff member, a University psychology professor, a doctor on the Brainerd hospital staff and a student whose studies are similar to hers.

The guidance committee would meet regularly with the student, evaluating her progress toward her educational goals and helping her to work out methods for arriving at those goals.

A great deal of time is being and has been spent by UWW staffers at the onset of this new program in helping the students translate their goals into available resources.

Administered through University College, UWW has been officially approved as a pilot program for one year. It must then be reviewed in April 1972 for future approval; Minnesota's UWW program is expected to become an on-going, long-term collegiate program of the University.

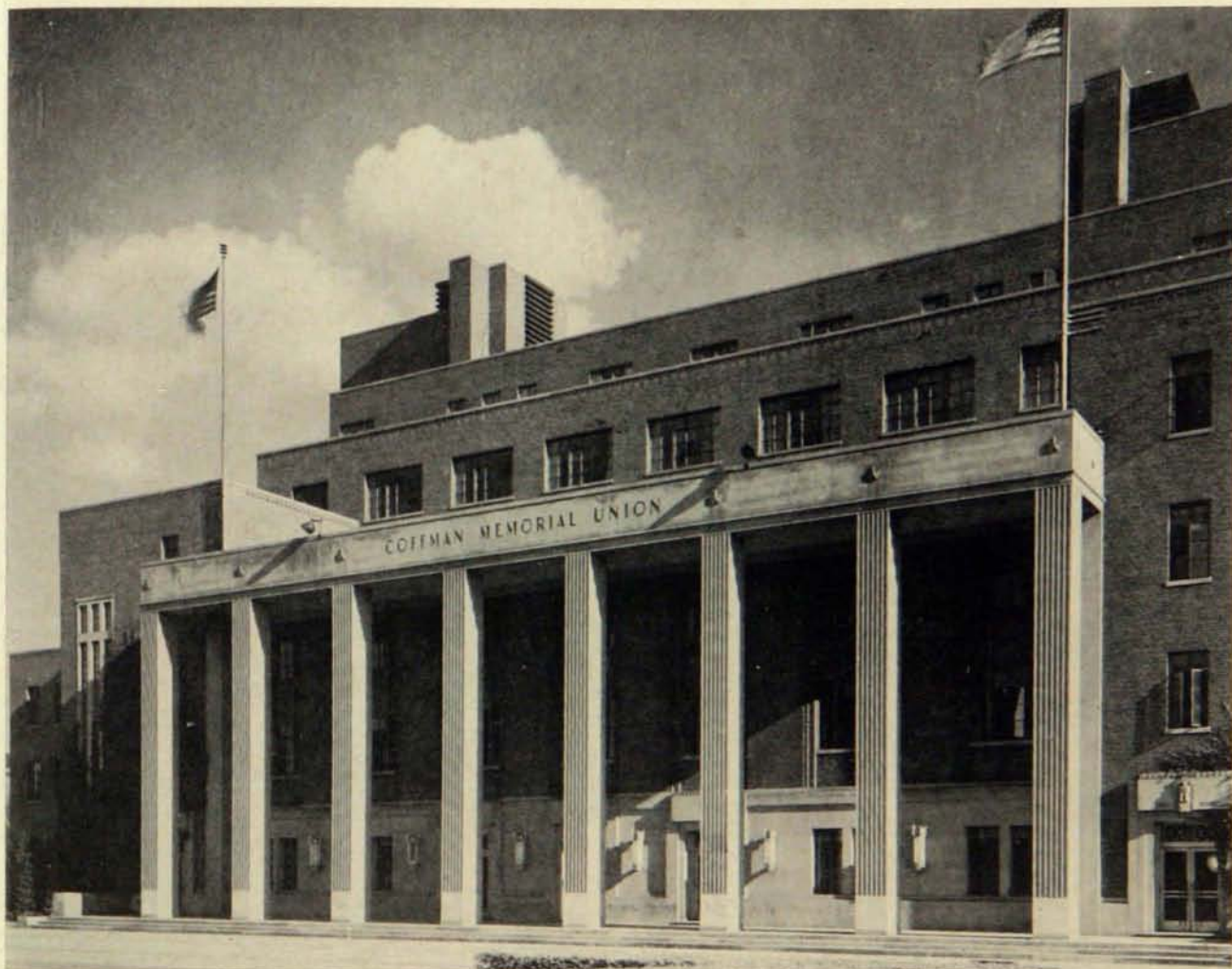
During this first year, UWW is operating under existing degree programs.

"In the future, we hope to offer a UWW degree," Mrs. Knudson said. "We want to offer a degree that is based on competence and accomplishment, one that is not strictured to a credit hour or a grade setting."

UWW's degree will be as unique as the program itself — a program that says education is something students do where they are.

"Our emphasis is on education as an on-going process that never ends," Johnson said.

COFFMAN UNION IS BEING "RE-CYCLED"



STATELY Coffman Memorial Union — built in 1939 by Minnesotans who were recovering from the Depression and were not yet involved in World War II as a demonstration of high hopes for their young people — is being “recycled” to meet the needs and suit the tastes of Minnesota students

of the '70s.

Although there will be no major changes in the exterior structure or the basic building plan, the cost of the remodeling Coffman — about \$2 million — will be about the same as the cost of the original building.

The initial construction was

funded by the Public Works Administration and many individual contributions from students and alumni. Coffman's remodeling will be financed with a fund set up years ago for just such a purpose, and contributed to by students and proceeds from union activities and services.

**CLASS OF '22
MEMBERS:**

**MAKE PLANS TO
ATTEND YOUR
50TH TODAY!**

The Class of 1922 will hold its Golden Anniversary Reunion on June 8, 1972.

A 50-Year Luncheon, hosted by the Minnesota Alumni Association, has been planned for the Junior Ballroom on the University's Minneapolis campus, followed by a bus tour of the University of Minnesota campuses, a reception at President Moos' home and an evening banquet at the Town & Country Club, St. Paul.

The 1922 Reunion Committee is chaired by Business Administration graduate Larry Clark, with Crystal Justus Anderson (Education) serving as co-chairman. Institute of Technology graduate Douglas Manuel will act as master of ceremonies at the evening banquet.

The 50th Reunion has been scheduled for the same week as the Minnesota Alumni Association's Annual Meeting and the Annual M Banquet — making it easier for class members to attend these other events, if they like.

Further information about the Golden Anniversary Reunion can be obtained from the Class of 1922 Reunion Committee, University of Minnesota, 2610 University Avenue, St. Paul, Minnesota 55114, telephone 373-2466.

If you have any information regarding the whereabouts of 1922 graduates that were not included on lists published recently in The University of Minnesota Alumni News, please contact The Alumni News.

alumni news

COFFMAN UNION

Coffman Union was built to conform to the original Cass Gilbert concept of campus development: to balance one end of the Mall, with Northrop Auditorium at the other end.

Although the Gilbert plan called for Washington Avenue to be moved to a subway level with the Mall uninterrupted and this has not yet been accomplished, the original plan will be retained.

The pillars in the front of Coffman will remain, although doors will be removed and the space glassed-in to provide more lounging area for students. There will be entrances on both ends of the building.

In the plans for a remodeled Coffman, designed by Community Planning and Design Associates, a Twin Cities architectural firm, are the following concepts:

Safety: Mechanical equipment and electricity will be updated to meet present safety and fire codes;

An attractive building that will welcome students and provide activities for leisure: The basement will be devoted to bowling alleys, table tennis, billiards, a table-games room and a craft studio. The ground floor will house eating areas for bag-lunchers, as well as those who buy their food, and shops. An extensive information center and a new lecture hall-theater, especially designed for film showings, and music listening rooms are planned for the first floor. Throughout the building, there will be additional stations

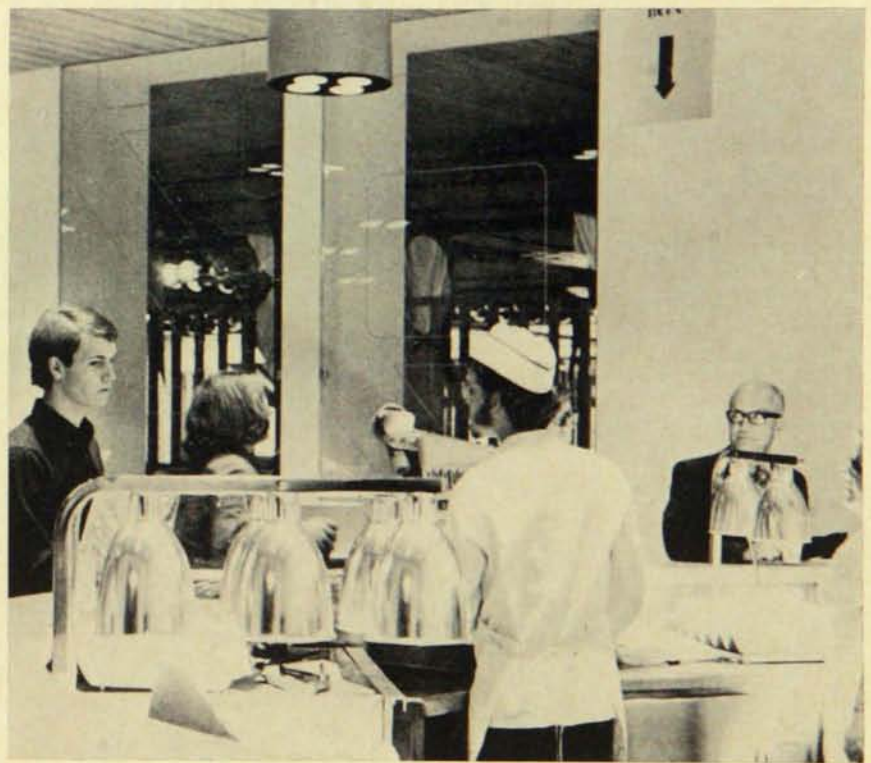
THE IN	
hamburger	22
cheeseburger	25
hot dog	25
french fries	20
soft drinks	15-20-25
coffee	10
shake	30
sundae	25

for lounging. The main ballroom will be retained in its present location;

Increased square footage to accommodate the doubling of the student population since 1940: This will be accomplished through glassing-in some of the front entry space and glassing-over part of the terrace area which has proved unusable for most of Minnesota's winters;

Service: Office space, mailing, telephoning and work space will be provided for student organizations on the second floor.

Although some of the remodeling — in the cafeterias and the bowling area — has been completed, major construction is expected to begin in May or June of this year and should be completed within two years.



THE FOOD FACILITIES in the basement of Coffman Memorial Union on the University's East Bank are among many campus units that have undergone a face-lifting in recent months. After its remodeling close, the old cafeteria reopened as a slick, modern, three dining-room unit in February of 1971. Each of the dining areas has a different decor, furniture and atmosphere as can be seen in the photograph at top above and at the left. The same self-service food unit serves all three dining areas. Near the entrance of the cafeteria is a new fast-food facility, called The In, where inexpensive, quickly-produced foods are available to eat standing at mushroom-like counters or to take out. The In and its menu are pictured above and at the right.

“Nursing is an occupation fraught with paradox and promise — and it holds within itself the key to whether the vast majority of our people will receive quality health care or not.”

CHANGING TO MEET MODERN NEEDS

THE quotation above, the words of Jerome P. Lysaught, a member of the National Commission for the Study of Nursing and Nursing Education, strongly illustrates the challenge that has faced the University's School of Nursing in recent years.

To meet the changing needs of the state's and the nation's health care, the School of Nursing broke from its traditional educational mold into a curriculum that is evolving with the health careers of modern nurses.

“Some of the basic changes in our curriculum began in 1962,” Dr. M. Isabel Harris, dean of the School of Nursing told *The Alumni News*.

“At one time there were 11 separate programs operating in the School. Now we have, in essence, after consolidation and elimination, two programs —

undergraduate and graduate — in addition to continuing education.”

And the curriculums of the 1970s' nursing programs are still changing, in an ongoing process to meet new health needs.

The School recently received a small grant under the national educational Development Program to develop ideas on the expanded role of the nurse within the community.

“This is really a new development, and one of the important facets of our basic educational programs,” Dean Harris said.

"Nurses have worked in communities before, but essentially they have dealt with individuals and families. Today's nurse at work in the community must act in a broader role; she must look at whole communities or large organizations within the community, to realize how they can affect the health needs of the total community.

"We are differentiating between the medical needs and health needs of the community. Medical needs are usually associated with pathology. We're interested in health promotion and all aspects of the community that are relevant to health."

Why has such a development occurred in nursing education?

"I think this is a national trend in health care that reflects the notion that we have had a lot of progress in acute health care, but that this progress does not necessarily solve our health care problems," said Dr. Barbara K. Redman, an associate professor and chairman of Curriculum and Instruction in the School of Nursing.

Dean Harris feels that part of the development is also due to the federal government's concern about health care costs and the impetus federal legislation has given to educational change.

"If we can promote and institute preventive health care in the community, such a program is cheaper than almost anything you can do when an individual or individuals must be hospitalized. It's more economical to keep people well," Dean Harris said.



ANOTHER basic aspect of the Minnesota nursing program that has changed is the development of a guiding, unifying, conceptual framework in the curriculum through which the student moves.

This framework is based on man's adaptation to himself and the role nursing must assume to assess the way that man is adapting healthwise. Such a framework asserts that the nurse should intervene to support man's adaptation if it is a good one, and, if it is not, intervene to improve it or to change it.

Bringing this framework to the undergraduate baccalaureate program meant changing and meshing coursework. Fifty percent of today's program is in the liberal arts, emphasizing such requirements as psychology and anthropology.

"It is certainly unlike the traditional nursing programs of 10 years ago that were strongly science-oriented," Dr. Redman said.

In the past, about 90 percent of nursing program training was hospital-based. Today, the School of Nursing is trying to attain a 50-50 ratio of community- and hospital-based training.

And, in order to help its students work within the community and understand all local cultures, the School is working with an intercultural specialist from the University's Living-Learning Center. Serving as a liaison between the School and the community, she is helping

students make community contacts as well as discussing methods of handling minority healthcare with them.

Yet another new aspect of the School's education program is its faculty organization.

The School admits undergraduate students as sophomores. In the past these students moved through three years of nursing education, from course to course, in order of difficulty, taking the faculty as they came.

The old curriculum was one that dropped three years of a strong-science nursing program on top of two years of liberal arts education. A student's liberal arts knowledge did not have much of an impact on his total educational experience except as he was able to use it himself. And no conscious effort was made to bring the two areas of study together because the faculty had been educated in the same way.

The meshing of liberal arts with nursing education is at the crux of today's School of Nursing program.

The School uses separate teaching teams to deal with all instruction for particular program years, allowing the student to receive a more comprehensive education.

"Our purpose has been to put competent individuals of various backgrounds into a teaching team that can deal with nursing no matter what its setting or clinical area," Dr. Redman said.



The sophomore year constitutes a course of study aimed at basic ideas and interpersonal skills. The junior year focuses on man's adaptation as an individual and how nursing relates to this adaptation, while the senior year concentrates on man's adaptation as a member of a group and the adaptation of groups within health — in a somewhat global concept.

"We have a positive facet in this framework of education as compared to the traditional framework. Our method brings



ideas together conceptually," Dr. Redman said.

"We also are finding, according to informal comments from our students, that this framework leads to ease in their moving from one setting to another in the nursing profession," Dean Harris added.

"One of our students worked in intensive care at St. Mary's Hospital in Rochester, Minnesota, for a year after she graduated from the University. The next year she was teaching psychiatric nursing."

When this student wrote Dean Harris about her job change she said that she realized the amount of work associated with such a career move, but that her program had prepared her for such a move and she could do it.

Nursing schools in universities and colleges all over the country are experimenting with different ways of looking at nursing as a discipline and as a practice. The educational frameworks they use are not always the same, but they all come back to the same basic thought — the unification of ideas.

Minnesota chose the conceptual framework it did because the School's faculty felt it had great potential for unifying much of the knowledge that has been important to nursing, including all the liberal arts knowledge that is related to how man adapts in one way or another.

"You might say that the framework makes us a more scientifically-based or an other-knowledge-area-linked profession," Dr. Redman said.

Student reaction to the new nursing program essentially has been very positive. A number of students have indicated informally to the School's faculty that once they grasp the conceptual framework and the nursing process that is taught with it, it helps them to solve problems in their own lives as well as in their professional lives.

ENROLLMENTS in the School of Nursing have jumped substantially over the past few years and applications have jumped fantastically.

In both undergraduate and graduate studies, enrollment is up 60 students over a year ago. In the undergraduate program alone, the School had 360 qualified applicants last year, of whom they could take 120. The previous years the School had 209 and 190 applicants, respectively.

"These increasing enrollments are partially due to a greater social consciousness of nursing needs on the part of young people," Dean Harris said.

"Individuals with bachelor's and master's degrees in sociology, psychology, anthropology and other fields have been coming to us, wanting to go into nursing — on both clinical and community levels.

"Many of these people have found that health is a major problem when they are working in communities. You can relate to people with your anthropological knowledge, for instance, but you need other knowledge to offer them answers to their health needs.

"Health is becoming a commodity of which people are increasing conscious."

This attitude of social consciousness is also visible in the School's students — the majority of whom do noncredit, volunteer work in hospitals, People's Clinics, and Chicano and Teenage Clinics. And the nursing faculty is doing volunteer consultation work as well as giving time to the Health Sciences' Community Service program.



Nursing education on the graduate level has also been revolutionized in the School of Nursing as the trend toward graduate education has increased. Programs are available not only for preparation for a teaching or research career in nursing, but also for clinician positions that require an individual to be a leader as well as an expert clinician.

"We are not only offering more areas in graduate education, but more comprehensive areas as well," Dean Harris said.

"And we look to even greater diversity in the future, that is

related to the extended or expanded roles of nurses.

"Our scope has broadened to provide pediatric nurse practitioners in the public health program, and we are looking at the potential of midwifery, adult health practitioners who are comparable to pediatricians and maternal child health care training."

THE School does not end its concern for nursing education with its undergraduate and graduate curriculums. In its current admittance code, the School gives preference to Registered Nurses.

"However, if a student comes to us from a diploma or hospital school of nursing, the University does not accept any of his credits," Dean Harris said.

"In many instances these students resent taking our nursing courses; they feel that they are repeating work even though the courses they took earlier are not integrated with liberal arts.

"However, they can enter our School, challenge a course, and if they pass the validation

**NURSING ALUMNI
SPONSOR FEBRUARY
STUDENT-ALUMNI
GATHERING**

The School of Nursing Alumni Association will hold its Annual Student-Alumni Tea on Wednesday, February 23, from 3:30 to 5:30 p.m. in the Green Lounge of Powell Hall on the University's Minneapolis campus.

The alumni sponsor this free event to give an opportunity for University of Minnesota junior and senior nursing students to acquaint themselves with the Nursing Alumni Association and meet some of its members.

The event will include a style show of the School's uniforms, from its beginning to the present time as well as the presentation of graduate caps to senior students.

This is a good time for alumni to return to the University campus to meet their former classmates and today's students.

examinations that we have specially instituted for them, they do not have to take the course, and can move more rapidly through the undergraduate program.

"We acknowledge the current push for career mobility and value the educational opportunities we can offer these professionals so they can move up the career ladder," Dean Harris said.

The School also has an expanding Continuing Education program to deal with today's varying career patterns and technology.

"We have no choice, in light of the rapid changes occurring in health care, but to prepare people to recognize these changes and their needs in terms of them, and then to make courses of study available to them that will help them cope with change.

"One of the things that jolted me last spring when I thought about this fall's entering class was that with career patterns in nursing being what they are, these students could be active in nursing until the year 2015," Dean Harris said.

"How can you prepare someone for a career that will extend far into the future when you don't know what is in that future? There are many things that we must have as part of our continuing education in order to meet this challenge."

THE School of Nursing has received a five-year curriculum development grant that will enable it to develop greater efficiency in its educational

programs as well as evaluate student learning and their satisfaction with it, and whether or not the School's graduates are giving good or better nursing care.

"We are only part way to formulating our final curriculum goal," Dr. Redman said.

"It's hard to project just how far we should go. For all we know we might be in the midst of a temporary social movement.

"But it has certainly sensitized us to the fact that there is a great deal more potential in the community setting than we have adequately developed."

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dave shama's gopher tales

(First of a two part series on Big Ten and Minnesota football. The first part examines the troubled state of Big Ten football on the field, while the second introduces new Gopher coach Cal Stoll and his program.)

AT the Big Ten office in Chicago, Illinois, administrators still refer to the conference as the Big Ten, but around other parts of the Midwest and nation people are using different descriptions of this once proud football conference. The Big Ten, at one time the most famous and successful inter-collegiate conference in the country, is now the subject of ridicule and criticism from many quarters.

Recruiters from other conferences often tell high school prospects, "Don't go to the Big Ten. Their football is inferior to ours — and slipping."

Some sportswriters, noting the league's lack of success against non-conference foes, began referring to the conference as the Little Ten as long as six years ago.

This year *Sports Illustrated* called the conference the Medium Two, referring to the dominance Michigan and Ohio State have held during recent seasons.

Statistics present a bleak picture of Big Ten football. Last season the conference won 37 percent of its games

against the other major conferences (the Big Eight, Pacific Eight, Southwest, Southeast and Atlantic Coast) and 32 percent against all others. It should be noted that a significant percent of "all others" is made up of games with Notre Dame.

The Big Ten's record was the poorest against outside opposition of any of the major conferences. The order of dominance was the Big Eight, Southeast, Pacific Eight, Southwest, Atlantic Coast and Big Ten. The Big Eight won 78 percent of its games against major foes and 77 percent against others. The Southeast had 67 percent and 83 percent statistics.

The Big Eight's might was revealed in a final wire service poll in which the first three teams were Nebraska, Oklahoma and Colorado. In the 36-year history of wire service polls no conference has ever had three of its teams ranked even one-two.

Part of the Big Eight's trip to the top last fall, and in other recent autumns, has been at the Big Ten's expense. Until the Gophers defeated Kansas in 1970, Big Eight teams had won 17 straight from the Big Ten.

When Michigan finished sixth in the national polls it marked the first time since 1959 that a Big Ten team hadn't made the first five. Furthermore, the Wolverines were the only Big Ten team in

some final polls.

During the Big Ten's most successful period (1946-1961) the conference frequently had outstanding records against non-conference foes, several teams in the top 10 and 20, and a wide edge on its Pacific Eight foes in the Rose Bowl. The Big Ten has now lost three of the last four Rose Bowls, leading the series 18-10. In 1962 the Big Ten held a 14-4 Rose Bowl edge.

The present state of Big Ten football has reached such a state that even newly appointed Big Ten commissioner Wayne Duke acknowledges that "something isn't exactly right".

Duke will rattle off a series of facts about Big Ten standing in the top 10 during the last 10 years and the success of the conference since World War II, but he must realize that mostly he is selling accomplishments of 5, 10 and 15 years ago. When he begins talking about now he shows some concern.

"There is a growing feeling and climate in the Big Ten that we need to examine our football program," Duke said.

"This doesn't mean the Big Ten doesn't play good football, or that we're pushing the panic button."

If there is a changing climate, it may be considered an important factor. For it was climate of a suppressive sort which stifled and

weakened the Big Ten in the 1960's.

The late 1950's and 1960's saw the Big Ten engage in a de-emphasis program through such measures as the elimination of the red shirt rule which seriously weakened the conference. (One can only assume that the red shirt rule, more flexible admission standards and the awarding of large numbers of scholarships were important factors in the Big Ten's success since they have been listed as pluses by all other conferences.)

During the last 18 months the Big Ten has adopted some rules which may strengthen conference football.

- Each school may now maintain 120 football players on scholarship. In the past players who dropped out of school with remaining eligibility couldn't be replaced on scholarship until their class had graduated. The new rule allows coaches to maintain more manpower.

- The Big Ten has adopted the NCAA rule on junior college transfers which allows a junior college student-athlete to transfer to a university after three semesters or five quarters, providing he has an acceptable record. In the past a junior college student-athlete couldn't transfer until he had completed four semesters or six quarters, which meant he would be unable to participate in spring practice.

- The Big Ten has adopted the NCAA's 1.6 GPA prediction rule for high school students after once requiring a 1.7 GPA prediction. GPA predictions are made on the basis of national college entrance examinations.

These rules changes, at the urging of league coaches, were voted in by faculty representatives, and reviewed and passed by individual

athletic boards. All rule changes must be instituted through this process.

University of Minnesota faculty representative Max Schultze believes the recent changes made by the Big Ten will have a positive effect on football.

"This is only an assumption on my part, but I think that these changes will help Big Ten football during the next five years," Schultze said.

"In view of the Big Ten's recent record in non-conference play, it is clear that we have to look at our program. If we are putting our coaches and players under handicaps because of our rules then we should do something about it.

"The program is separating all the talk about what is hurting Big Ten football from fact. I'm all for running some experiments on variables like the red shirt rule for two or three seasons and see what the effect is."

A limited red shirt rule is favored by Duke. He would favor four or five red shirts per school each year. Allowing a player to complete his eligibility in five years instead of four is a practice allowed by the NCAA.

"Red shirting is a policy which has been abused some places, but holding a few boys out so they would have a better chance to play the next year would not be wrong," Duke said.

"Many students don't complete their schooling in five years."

Red shirting gained national publicity following the Rose Bowl because Stanford quarterback Don Bunce, a red shirt, was instrumental in defeating the Big Ten.

Duke, in his first year as Big Ten commissioner after serving in the same capacity in the Big Eight, said he would sound out conference

officials about a limited red shirt rule.

Schultze speculates that red shirt legislation would be defeated.

"There are several faculties in the league which are very concerned that a student-athlete graduate within four years," Schultze said. "They have specific programs set up so their athletes will graduate within four years.

"At Minnesota we don't think it is crucial that an athlete graduate after four years. It is his choice. The athlete, like any student, may want to stretch out his college experience. There is nothing wrong with that."

Duke has scheduled meetings this winter and spring with conference coaches, athletic directors and other officials to discuss Big Ten football. Although he is convinced that recently adopted measures will help Big Ten football, perhaps other changes are necessary.

"I believe a commissioner should act as a catalyst in promoting change, and you can be sure that I will not be idle in this job," Duke said.

"However, let's not get too down on the Big Ten. When I first became commissioner of the Big Eight we preached that we would be big league like the Big Ten.

"Well, now the Big Eight is big league, but so is the Big Ten. And don't let anyone tell you it isn't.

"When I took the Big Ten job a friend of mine with the *Kansas City Star* came up to me and said, 'Wayne, I know why you took that job. I've been with the *Star* for a long time and hope to finish my career here, but I know if the *New York Times* called and asked me to become managing editor I would take the job immediately. Maybe The *New York Times* called you!'"

May be.

faculty profile



SCIENCE can be beneficial or destructive. But it's not the scientist who decides how scientific insights are used, according to May Brodbeck, University professor of philosophy.

Professor Brodbeck criticizes those who blame scientists for problems, such as pollution and the arms race, that result from political decisions about the use of knowledge. "Such attacks are part of the general irrationality and anti-intellectualism of those who don't understand the situation," she said in a recent interview.

"The scientist isn't the one who makes the political decision. The scientist isn't really responsible for whether bombs are used or not. This must be understood or we won't look in the right place for the cure for our problems.

"What's going to cure our situation is to determine what the politicians are doing and how policy is made," she said.

Professor Brodbeck said national priorities are set by those who have the authority and the resources to determine how human talent is used. Scientists are often not even responsible for the application of their discoveries, she said.

"Scientists don't make bombs. They discover the principles which are then applied for making bombs or going to the moon."

And the technicians who are making a device are doing no more than putting cogs on wheels, she said.

Professor Brodbeck said that if scientists and technicians began to make public policy by refusing to work on certain projects, they would be imposing their views on other people without regard for the democratic process.

Miss Brodbeck, who worked as a physicist and chemist in government and industry before joining the University faculty

24 years ago, teaches philosophy of science and of the social sciences.

She said that scientific objectivity is difficult to obtain, but that does not mean the scientist can't find out what is true and what is false. Objectivity is even more difficult in the social sciences, where "there are greater difficulties in having unbiased perceptions of what's going on."

Professor Brodbeck said it is helpful to study how individuals and social groups behave in order to provide such services as psychological therapy, career counseling and finding out the effects of social stresses on the individual.

The study of behavior is worthwhile as an end in itself, she said. "Knowledge of individual personalities is the most important kind of knowledge we could have. It has the most human interest. It's certainly much more interesting to know

about people than the atom."

But she said some behaviorists have overlooked the factor of a person's beliefs. "Behavior is a manifestation of consciousness," she said.

Professor Brodbeck has achieved national recognition in her field. She is president of the American Philosophical Association and the author of a number of books and articles.

She was head of the University's philosophy department from 1967 through 1970.

Besides teaching and research, her career has taken on a new aspect. She has become one of many faculty members to become involved in helping the administration determine the direction of the University.

Two years ago, she had never been on a committee of the University Senate. Today she is chairman of the influential Senate Committee on Educational Policy (SCEP) and a member of the consultative committee, which serves as a liaison between the faculty and the administration.

Last summer her committees worked with the administration in developing plans for cut-backs in programs resulting from Legislative fund cuts. She also worked with committees developing a mission statement for the College of Liberal Arts.

Miss Brodbeck admits that this work takes time she would otherwise devote to research.

"Ideally, the initiation of change and new programs should come from the faculty. Students should be involved too," she said. "One of the best educational experiences a student can have is to be involved in an active committee, and it's useful for us to have the student perspective."

The consultative committee, with student members, last summer interviewed James F. Brinkerhoff, the new vice president for finance, planning and operations, before he was hired

by the Regents.

"The students really put some tough questions to him," she said.

Professor Brodbeck has studied on a Fulbright grant in Italy and has lectured in Italy, Germany, Denmark and Sweden. During World War II, she was a physicist with the Manhattan Project. She is a graduate of New York University and received her Ph.D. from the University of Iowa. — Bill Huntzicker, University News Service.

THREE U PROFS ARE "OUTSTANDING"

Three University professors will be listed in *Outstanding Educators of America*, a book of biographical sketches of educators chosen on the basis of their contributions to teaching, research and civic service.

Robert J. Holloway, professor of marketing; Charles H. McLaughlin, professor of political science, and David W. Noble, professor of history, received the honor.

Holloway, author of a number of textbooks and articles on marketing and consumer problems, is on a year leave to study the environment as it relates to business. He has done several studies on the effect of national policy on the Minnesota business community.

McLaughlin teaches courses on international law, public law and legal systems. He is a former attorney and has done several studies for agencies of the United Nations.

Noble, whose intellectual history and American studies courses are popular among students, is the author of *The Progressive Mind*, *The American Adam and the New World Garden*, *Historians Against History*, and *The Paradox of Progressive Thought*.



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THE ALUMNI

MAA ANNOUNCES CURRENT ALUMNI COMMITTEE APPOINTMENTS

The following University of Minnesota alumni are currently serving on University and Minnesota Alumni Association (MAA) committees. Their committee appointments, for 1971-72, were made by the MAA, and where necessary, approved by the University administration. Some of these alumni are serving for more than one year.

On the University Assembly Committee on Student Affairs: *Robert S. Glaser* '58AA, Wayzata, Minn., president of Travel Advisors, Inc., and *Grace Persons Gohdes* '43BSNE '60MED, Edina, Minn., an instructor in the University of Minnesota's School of Nursing.

On the University Assembly Committee on Intercollegiate Athletics: *The Honorable Oscar Knutson* '27LLB, St. Paul, chief justice of the Minnesota Supreme Court and currently president of the Minnesota Alumni Association; and *Bruce N. Telander* '56BBA, St. Paul, vice president of the insurance agency of Cobb-Strecker-Dunphy-Zimmerman, Inc., and currently president of the Graduate "M" Club.

Representatives on the Union Board of Governors: For the Minneapolis campus, *Ray S. Forstad* '60BS, a teacher with Johnson High School in St. Paul; for the St. Paul campus, *Shirley Trantabella Munson* '46BS

'54MA (HEc), Lakeland, Minn., assistant professor in the University's department of horticulture science.

On the University Committee on Extension and Community Programs: *Robert W. Fischer* '42MBA, Minneapolis, president of Dain, Kalman & Quail, Inc.

On the University Committee on Social Policy: *Kenneth E. Broin* '49BBA, Minneapolis, a cashier at the First National Bank of Minneapolis; *Laura Haverstock Miles* '47LLB, Wayzata, Minn., currently on the College of Liberal Arts Board, active in the Big Sisters and for one and one-half years building fund-raising chairman of the Minnetonka Center of Arts and Education; *Harold Greenwood, Jr.* '50, Long Lake, Minn., president of Midwest Federal.

On the Minnesota Unions Coordinating Board: *Owen K. Hallberg* '46MSAg, St. Paul, a director, member of the board and head of public relations of Land O'Lakes, Inc.

On the University Scholarship Committee: *Fred Dresser* '55AA, Minneapolis, assistant vice president, Midwest Federal; *Carol Palmer Ostrow* '44BSN, Minneapolis, nursing supervisor, Mount Sinai Hospital; *Otto W. Quale* '40BAJourn, Edina, Minn., executive director of the Associated Collegiate Press.

On the MAA Investment Committee: *James C. Harris*

'47MBA (chairman), Minneapolis, executive vice president, Northwestern National Bank; *Herman J. Arnott* '24BA, Minneapolis, chairman of the board, Farmers & Mechanics Savings Bank; *Wallace L. Boss* '28BSB, St. Paul, retired senior vice president, First National Bank of St. Paul; *Sam W. Campbell* '25BA '27LLB, Minneapolis, account executive with Piper, Jaffray & Hopwood; *Terrance Harold* '36LLB, Minneapolis, president of The Pillsbury Company; *Clifford C. Sommer* '32BBS, Minneapolis, president of Security Bank & Trust Company, Owatonna.

On the Alumni Honors Committee: *Curtis L. Carlson* '37BA, Minneapolis, president of the Gold Bond Stamp Company; *Harry Heltzer* '33METE, St. Paul, chairman of the board and chief executive officer of the 3M Company; *Oscar R. Knutson* '27LLB; *John A. Moorhead* '30BA, Excelsior, Minn., chairman of the board, Northwestern National Bank of Minneapolis; *John S. Pillsbury, Jr.* '40LLB, Wayzata, Minn., chairman and chief executive officer of the Northwestern National Life Insurance Company.

On the Past Presidents and Alumni Fund Advisory Committee: immediate past MAA president, *Harry Heltzer* '33METE (chairman); *Russell E. Backstrom* '25BSME '27MSME, Minneapolis, retired manager, Western Industrial district, Conversion Company of St. Paul; *Dr. William F. Braasch* '00BS '03MD, Rochester, a retired physician who still holds an office in the emeritus section of Rochester's Mayo Clinic; *Wendell T. Burns* '16BA, Excelsior, Minn., retired senior vice president of Northwestern National Bank; *Victor Christgau* '24BSAg, Washington, D.C., a staff member of the House of Representatives District of Columbia Committee; *Dr. George Earl* '06BA '09MD, St.

Paul, retired physician and developer of the well-known St. Paul Earl Clinic; *Franklin D. Gray* '25BA, Minneapolis, a partner in the law firm of Cant, Haverstock, Gray, Plant & Mooty; *Waldo E. Hardell* '26BSB, Minneapolis, a consultant with Alexander & Alexander, Inc., and a director of the Crown Iron Works, Inc.;

Albert H. Heimbach '42BBA, Minneapolis, vice president of Farmers & Mechanics Savings Bank; *Hibbert M. Hill* '23BSCE, Excelsior, Minn., a retired vice president of Northern States Power; *Arthur R. Hustad* '16BA, Minneapolis, semi-retired manager of the Twin Cities operations of Northwestern National Life Insurance Company; *Francis L. (Pug) Lund* '31-'35, Minneapolis, a general agent with New England Mutual Life Insurance; *Dr. Virgil J. P. Lundquist* '43MD, Minneapolis, a practicing physician with offices in the Metropolitan Medical Building; *Joe Maun* '32BA '35LLB, St. Paul, a partner in the law firm of Maun, Hazel, Green, Hayes, Simon & Aretz;

Dr. Harvey Nelson '22BS '25MD, Deerfield Beach, Fla., retired physician; *Charles Judd Ringer* '41, Wayzata, Minn., president of Judd Ringer Corporation; *Glenn E. Seidel* '36IT, Minneapolis, a manufacturer and consultant to IDS Properties, Inc.; *James A. Watson* '42BA, Minneapolis, president of Gamble Skogmo; *Edwin A. Willson* '30BSEE, Minneapolis, retired executive vice president of Northern States Power; *Wells J. Wright* '36LLB, Minneapolis, a senior partner in the firm of Wright, West, Diessner & Arnason; *Edgar F. Zelle* '13BA, Minneapolis, retired chairman of the Board of the First National Bank of Minneapolis, retired president of the Wisconsin Central Railroad Company and retired chairman of the Jefferson Transportation Company.



JOHN C. KIDNEIGH, right, a professor and director of the University's School of Social Work since 1949, was presented with a specially inscribed pen set by the board of the School of Social Work Alumni Association at its annual meeting recently. Roger Toogood '58BSW, at left, president of the alumni group, made the presentation to Kidneigh for his years of dedicated service to the profession and to the School of Social Work. Kidneigh, who has been with the University since 1946, is stepping down as head of the School.

BRYAN SMITH RECEIVES BOSTON'S 1971 OUTSTANDING ALUMNUS AWARD

Bryan E. Smith, '25BSB, Weston, Mass., chairman of the board of Liberty Mutual Insurance Company and the first president of the Greater Boston chapter of the Minnesota Alumni Association, received that group's 1971 Distinguished Alumnus Award at their November 1971 meeting.

Dick Messing '43BChemE, Wellesley, Mass., a vice president of the Arthur D. Little Company and MAA representative for Region One, presented the award.

Past recipients of this honor

include Dr. Franklin Ford '42BA, dean of the Faculty of Arts & Sciences and professor of history at Harvard University, and Lawrence B. Anderson '26BS, dean of the School of Architecture & Planning at the Massachusetts Institute of Technology.

Dr. William F. Maloney '45MD, dean of the School of Medicine at Tufts University, spoke to the chapter on medical education, the new federal support bill and what it means to the health care of the nation.

A Minnesota native, Dr. Maloney also did his undergraduate work at the University, and was associate executive director of the Association of American Medical Colleges before going to Tufts.

THE ALUMNI

The executive director of the Minnesota Alumni Association, Ed Haislet, was also on the evening's program, speaking to the gathering on present-day University concerns, specifically the new changes in the medical curriculum and Medical School at the University.

New officers for the Boston chapter named at the meeting include Robert E. Peterson '51BSB, president; Dr. James Lingane '35PhD, vice president elect; and Mrs. W. P. Horton '47BSN, secretary-treasurer.

SORENSEN ELECTED NEW IT PRESIDENT

Wesley E. Sorensen '58BArch, Bloomington, Minn., vice president of Hammel Green and Abrahamson, Inc., architects and engineers, has been elected president of the Institute of Technology Alumni Association.

A native of Mora, Minn., Sorensen attended Gustavus Adolphus College and the University of Minnesota from 1947 until 1950 when he entered military service as a lieutenant command aircraft pilot in the U.S. Navy. He was discharged from the service in 1954.

Sorensen, a registered Minnesota architect, is a member of the American Institute of Architects, the Minnesota Society of Architects, the Minnesota School Facilities Council and the Bloomington Chamber of Commerce.

Other new IT Alumni Association officers include first vice president Norman C. Silver '42METE, Minneapolis, a consulting engineer and owner of his own firm; second vice president Walter E. Griffin '49BEE, Minneapolis, an employee of



SORENSEN

Minneapolis Honeywell, Inc.; and secretary-treasurer Kenneth J. Valentas '64PhD (ChemEng), Minneapolis, a senior research engineer for General Mills, Inc.

New board members include Richard P. Braun '48BCivE '55MS, Minneapolis, vice president of Barton-Aschman Association, Inc., St. Paul; William Dreier '64PhD (ChemE), Minneapolis, a development leader at General Mills' James Ford Bell Laboratory; Ronald J. Niccum '58BSA, Minneapolis, director of free balloons and decelerators for the G.T. Schjeldahl Co., Northfield, Minn.; and Ernest L. Unruh '56ME, Osseo, Minn., an employee at UNIVAC, Roseville, Minn.

DENTAL ALUMNI NAME DR. SPEIDEL PROFESSOR OF YEAR

Dr. Thomas M. Speidel, associate professor of orthodontics at the University's Dental School was named Professor of the Year by the School's Dental Alumni Century Club recently at the group's fourth annual meeting in Minneapolis.

He was selected by a student-faculty committee on behalf

of the 525-member Century Club — a fund-raising arm of the School of Dentistry.

Dr. Speidel received his DDS in 1963 from Loyola University and his Master's degree in 1967 from the University of Minnesota. He was dental director of the Community University Health Care Clinic from 1966-68, and is currently very active in several student affairs committees. His father is the former dean of the Loyola School of Dentistry and past chairman of Minnesota's orthodontics department.

New Century Club officers elected at the annual meeting were Dr. Lyle Brecht '39DDS, Minneapolis, president; Dr. Charles Wilkinson '45DDS, Duluth, vice president; Dr. Lloyd Pearson '57DDS, Minneapolis and Dr. Bryce Gilbertson '21DDS, St. Paul, members of the executive council.

EDUCATION ALUMNI PLAN SECOND THEATRE-DINNER PARTY ON 27TH

The College of Education Alumni Association will hold its Second Annual Old Log Theatre-Dinner Party on Sunday, February 27.

The evening in Excelsior, Minn., will open with a social hour at 5:30 p.m., followed by dinner at 6:15 p.m. and the play, *Forty Carats* at 7:30 p.m.

Forty Carats is a successful Broadway adult comedy that tells the story of a woman of 40 who falls in love with a man of 22, and her daughter who loves a man of 40.

Reservations for the event, at \$6.00 per person, can be made by contacting the College of Education Alumni Association, University of Minnesota, 2610 University Avenue, St. Paul 55114, or by telephoning 373-2466.

By Mitchell V. Charnley,
Professor Emeritus and
Special Assistant to the Dean
of the College of Liberal Arts

ALUMNI AWARDS ENHANCE TEACHING



TWENTY-FIVE current or former College of Liberal Arts teachers have their names on a list that occupies a distinguished place in CLA annals . . . and three more will be added on April 27.

The list is that of the CLA faculty members who have been named Distinguished Teachers in the 12-year-old program initiated and maintained by the CLA-University College Alumni Association constituent group.

Dean E. W. Ziebarth of CLA has many times affirmed the high importance he puts on the program.

"It is a significant part of our effort to show that good teaching has to be at the peak of academic values," he told a CLA alumni meeting last year. "A college is nothing if it doesn't teach well; a teacher is no teacher if he doesn't stimulate and excite, in the classroom and out.

"That is one of the reasons we think ourselves so much in debt to the Alumni Association for providing this program of recognition. Any good teacher, I'm well aware, finds his best reward in the eyes and voices and achievements of his students. But the Distinguished Teacher Awards give him assurance that his colleagues and his institution want to share in the applause."

Do the teachers singled out for the awards value them?

"To a man who has decided to devote his life to work in the classroom, nothing could be more meaningful," one of the recipients a few years ago declared on being informed of his selection.

"And it's especially gratifying that students have so large a part in the nomination and selection of a winner."

"This is one kind of answer to the criticism so often leveled at the Academy," said another. "The criticism that all we think of is research. Teaching without research might become

pretty thin; but teaching remains the primary thing — as students say, good teaching is where it's at. This program can't help but put the emphasis where it ought to be."

The first awards in the program were made in 1960. Then, as now, they carried both a citation plaque and a stipend of \$500, the money coming from donations by CLA alumni. (All alumni are invited annually to contribute to the fund for the awards.) The first two awardees, Professor Harold Chase of Political Science and Professor David LaBerge of Psychology, continue as members of the CLA faculty, as do 12 others of the 25.

The award procedure starts with invitations sent out each fall and winter quarter to all CLA faculty and students, requesting nominations. The nominations — some years as many as 40 or 50 — go to the student-faculty selection committee, which screens them, gathers such additional information as it needs, and make the final choices. In most years since 1960 two awards have been made; this year, as in 1961, 1967 and 1968, three are to be given.

Faculty members of the committee this year are Professor Kenneth MacCorquodale, Psychology; Professor George Shapiro, Speech-communication; and Professor Arthur Ballet, Theatre Arts — all former award winners. Two students appointed by the CLA Intermediary Board also serve on the committee.

The awards are announced, traditionally, at the annual meeting of the CLA-UC Alumni Association. The meeting this year will be on April 27 at a luncheon in the Campus Club, Coffman Union. It is expected that several University Outstanding Achievement Awards will be made at the same time.

Since 1960 the award has

gone to the following current CLA faculty members: Professor Mulford Q. Sibley, Political Science, 1961; Ballet, 1964; MacCorquodale and Professor Robert Moore, English, 1965; Professor Tom Jones, History, and Shapiro, 1966; Professor Toni McNaron, English, and Professor Johannes Riedel, Music, 1967; Professor Peter Lock, French-Italian, and Professor Mary Turpie, American Studies, 1968; Mischa Penn, Humanities, 1969; Clayton and Professor Harold Deutsch, History, 1970.

Awardees who have retired or moved to other positions: Professor James Gibbs, Anthropology, 1961; Professor Elizabeth Carlson, Mathematics, and Professor Roy Swanson, Classics, 1962; Professor Ralph Ross, Humanities, and Professor Sarah Youngblood, English, 1963; Professor Samuel Monk, English, 1964; Professor Robert Berkhofer, History, 1967; Professor David Willson, History, 1968; Livia Seim, French-Italian, 1969.

The award went posthumously to Professor William Fletcher, Speech, in 1961.

Other programs in the University have similar aims. The six annual Standard Oil-Horace T. Morse awards, carrying stipends of \$1,000 each, select winners University-wide. An annual program in the Institute of Technology provides a citation and a check.

AG-FOR-HOME EC TO HOLD 14TH ANNUAL BANQUET ON MARCH 4

The Colleges of Agriculture, Forestry and Home Economics Alumni Association will hold its 14th Annual Banquet on Saturday, March 4, in the North Star Ballroom of the Student Center on the St. Paul campus.

The event will open with a social hour at 5:00 p.m., followed by dinner at 6:00 p.m.

University Regent Josie Johnson is scheduled to speak at the Banquet. Mrs. Johnson was an instructor in the University's Afro-American department until her election to the Board of Regents in 1971.



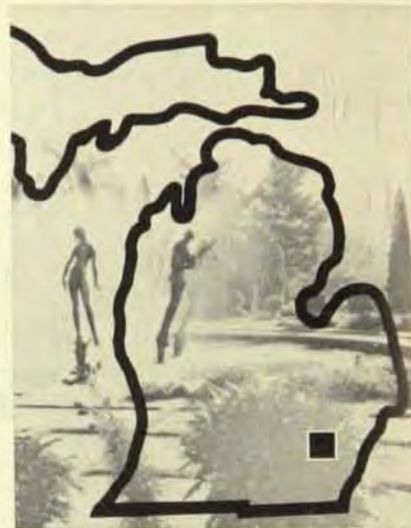
JOSIE JOHNSON

A special portion of the evening's program has been set aside for the presentation of a Certificate of Service to Home Economics.

Entertainment will be provided by the St. Paul Campus Chorus under the direction of Dr. Charles Schwartz.

Reservations for the Annual Banquet, at \$5.50 per person, should be made by March 1. Contact the Agriculture, Forestry and Home Economics Association, University of Minnesota, 2610 University Avenue, St. Paul 55114, or telephone 373-2466.

Ed Willson '30BBE, a past president of the Minnesota Alumni Association, is in the Metro Medical Center, 900 South 8th Street, Minneapolis, after suffering a stroke. His prognosis is favorable. Ed will be in the hospital several weeks, and while not able to have visitors, he would enjoy a card.



CRANBROOK SCHOOLS...
where learning only begins
in the classroom.

The setting of the Cranbrook Schools is a rolling 300-acre campus in Southeastern Michigan, just two hours' travel from nearly every major city.

The educational concept is to help each student find his unique self. This is accomplished through individual attention, a solid core of college preparatory and wide-ranging elective courses plus student-designed and run extra-curricular activities.

The facilities at the Cranbrook Schools are incomparably appropriate to this philosophy. Kingswood and Cranbrook share their spacious campus with Cranbrook Academy of Art, Cranbrook Institute of Science, Christ Church Cranbrook and Brookside Elementary School. Among these institutions, students find people to help them stretch and grow, whatever their interests.

The coordinate program for girls in grades 7-12 at Kingswood and for boys in the same grades at Cranbrook allows both, in either school, to benefit from the courses and social programs that meet their needs and academic goals.

Boarding and day students are now being accepted for 1972-73 at both schools. For more information write: Admissions Office, Cranbrook Schools, Box 803-N, Bloomfield Hills, Michigan 48013.

THE ALUMNI



UNIVERSITY PRESIDENT

Malcolm Moos, left, the featured speaker at the November 1971 meeting of the New York chapter of the Minnesota Alumni Association (MAA), congratulated Marilyn Chelstrom '50BA, second from left, on her election to the presidency of the New York group.

Other officers pictured include treasurer Robert Bowles '67MA, second from the right, and secretary Francis Casey '41BA, right.

Not pictured is vice president John Behonek '51.

Besides president-elect Marilyn Chelstrom, Carl Anderson '27BA '30LLB and Mike Jalma, University of Minnesota bandleader in 1927 who composed the words for the John Phillip Sousa Minnesota March, also spoke to the gathering.

MAA Executive Director Ed Haislet brought greetings from the University.



IN LATE 1971 a number of the members of the Dentistry Class of 1920 gathered in the Campus Club on the University of Minnesota campus in Minneapolis for a reunion with classmate Dr. Yngve Hildebrand of Stockholm, Sweden. Those from the Class of

1920 who attended the reunion included, from the left, standing, Dr. L.T. Oster, Dr. E.L. Whitney, Dr. R.W. Delton, Dr. M.H. Thornton; seated, Dr. Yngve Hildebrand, Dr. Max Goldberg, Dr. B.K. Braum and Dr. George Damon.



THE UNIVERSITY

CHEMISTRY BUILDING, ADDITION NAMED FOR DRS. SMITH, KOLTHOFF

The recently-completed addition to the University of Minnesota Chemistry building on the East Bank of the Minneapolis campus will be officially dedicated as Kolthoff Hall this coming June.

The addition is being named for Izaak M. Kolthoff, who was a professor and chief of the division of analytical chemistry at the University from 1927 to 1962, and currently is a professor emeritus.

From 1942 to 1954, Professor Kolthoff supervised an extensive research project at the University on the preparation of synthetic rubber and on the fundamentals of emulsion polymerization for the Office of Synthetic Rubber of the Reconstruction Finance Corporation that was later National Science Foundation administered. From this research an improved recipe for the preparation of synthetic rubber was developed and has been generally applied by large rubber companies throughout the world.

Professor Kolthoff has received many honors and much recognition for his work in chemistry, among them honorary doctor's degrees from the Universities of Chicago and Groningen, an honorary professorship at San Marcos University, Lima, Peru, and at the National University of La Plata, Argentina, and has been knighted by the Netherlands government as a Commander of the Order of Oranje-Nassau.



KOLTHOFF

He has won the Nichols Medal, the Fisher Award in Analytical Chemistry, the Minnesota Award of the American Chemical Society, the Anachem Award and the Willard Gibbs Medal Award. Kolthoff has also been the recipient of the Polarographic Medal, the Hanus Medal of the Czechoslovak Chemical Society, and of the first Kolthoff Gold Medal in Analytical Chemistry of the Academy of Pharmaceutical Sciences. The City College of New York Chemistry Alumni Association has presented him with the Gold Medal for Scientific Achievement.

Still active in the International Union of Pure and Ap-

plied Chemistry as a commission chairman, Professor Kolthoff is the author or co-author of nine books, of some 850 publications, and is one of the two editors of *Treatise on Analytical Chemistry*.

The main Chemistry Building has also been re-named to honor a second famed University chemist. The building is now known as Smith Hall, in honor of Lee I. Smith, University chief of organic chemistry until his retirement in 1960.

Dr. Smith, who is also a professor emeritus of the University, is well known for his pioneering work in synthesizing Vitamin E. Over 50 of his papers on Vitamin E have been published in technical journals, and, in 1944, he was elected to the National Academy of Sciences.

From 1930 until his retirement, Dr. Smith served as a consultant to General Mills. He taught and conducted research at the University for 40 years, beginning in 1920, specializing in synthetic organic chemistry.

Dr. Smith gained fame because of his work with the chemistry of vitamins.

He received the first Minnesota Award of the Minnesota section of the American Chemical Society for outstanding contributions to chemistry in 1958.

U RECEIVES GRANT TO SUPPORT TEAM APPROACH TO SOLUTION OF SOCIAL PROBLEMS

The University accepted a \$275,000 grant in mid-January from the National Science Foundation for a pioneering study of social problems by a faculty team from diverse fields of engineering, social sciences and mathematics.

The new grant will advance the efforts of University scholars from economics, political science, sociology, geography, mathematics and engineering to combine their research into a unified focus on complex modern problems, according to Professors Frederic N. Bailey of the department of electrical engineering, and Robert T. Holt of political science. These men serve jointly as principal investigators for the program.

This coordinated research will bring a problem-solving approach to the social sciences.

"The purpose of the research to be carried out under this grant is to provide a firm theoretical foundation for implementing plans to achieve social objectives," Holt said.

"We remember that early in the 1960's President Kennedy proclaimed a national objective of landing a man on the moon before the end of the decade. That objective was endorsed by Congress and pushed vigorously by succeeding presidents, and the program was a spectacular success."

Holt noted that soon after the first moon landing suggestions were made for initiating equally intense projects to attack major social problems such as poverty, crime and the deterioration of the nation's cities.

"But there is a striking difference between the two situations," Holt said.

"When massive resources were committed to putting a man on the moon, most of the scientific knowledge needed to accomplish that task was available. Scientists and engineers knew the basic principles for solving the problem and had only to work out some complex detail and create the organization to run the project."

There is no equally reliable knowledge on which to base practical efforts for reaching social goals, according to Holt and his associates.

John D. Akerman, former head of the University's aeronautical engineering department died January 8 at age 74 from a heart ailment.

The former Minnesota commissioner of aeronautics was responsible for the design of the wings for the WWII B-29 superfortress. His air foil design for the biggest aircraft ever built at the time was described by Boeing engineers as "the most efficient wing ever devised."

A native of Jelgava, Latvia, Akerman came to Minnesota in 1928 and became an associate professor at the University in 1929; two years later he became head of the department of aeronautical engineering and a full professor. In 1946 he established the University's Rosemount aeronautical laboratory.

Akerman retired from the University in 1962, but remained a consultant to numerous aircraft corporations.

His family asks that memorials be sent to the University's Aero-Alumni Scholarship which he started.

The University researchers see their current project as a start to building a formal theory for setting social goals in a democratic fashion, and a guide for designing the decision-making agencies or operations needed to achieve the goals efficiently.

U FACULTY PENSIONS ARE NOT GENEROUS

Pensions received by University faculty members who have retired recently and those near retirement are at or below levels provided at other universities, according to a study by a private consulting firm.

The study, conducted by George V. Stennes and Associates of Minneapolis, was requested by the Regents after criticism by some legislators that the Uni-

versity's retirement plan was too generous.

The Stennes study compared the University with six local representative industries, the federal civil service system and the other Big Ten universities and the University of California.

"The relative levels of pensions provided to recently retired faculty members and the expected pension of members now near retirement are at or below the levels provided under other university programs and under programs administered by selected local companies," the study said.

The report said that the level of contributions and expected benefits are "comparable" with those offered at the other universities.

"The expected level of pension for a new faculty employee hired at age 35 is equivalent to or better than the level of pension to be expected by an employee in several selected local industry plans," the study said.

This differential, however, may be offset in industry through profit-sharing programs which may give an advantage to an employee in private business.

An average male employee hired at age 35 with an initial salary of \$12,000 and retiring at 65 will retire with 56 percent of the average salary of the last five years of service, the report said.

Other Big Ten schools range from 49 to 65 percent in a similar situation. Federal civil service would pay 53 percent.

PLANK RETIRES AFTER 42 YEARS

The University's chief accounting officer retired at the end of December after 42 years of service to the University. Controller Clifford S. Plank, 67, had worked under six University presidents since he joined the staff in 1929 as a statistician.

Plank, who was born and

THE UNIVERSITY

attended schools in Pipestone, Minnesota, went to Hamline University, St. Paul, and graduated from the University of Minnesota in 1929 with a BSB.

Working his way through the ranks in the business office, he was promoted from statistician to senior accountant, later named assistant chief accountant, chief accountant and assistant controller, and, in 1960, was appointed controller.

Before joining the University Plank had been an accountant in Chicago and Minneapolis.

BUSINESS OFFICE EMPLOYEES TO EXPERIMENT WITH FOUR-DAY WEEK

An experimental four-day work week for employees of the University's business office has been approved by the central administration.

The employees will work four 10-hour days on a rotating basis, allowing more opportunity for three-day weekends while keeping the office open for the full five-day work week.

The business office, located in the Administrative Services building, 2610 University Avenue, St. Paul, will be open from 7 a.m. to 5:30 p.m. daily, with a half-hour lunch period and two 15-minute coffee breaks. This office is not directly related to on-campus activities such as payment of student fees.

Although the exact length of the experiment has not yet been determined, there will be a period of evaluation some time after the four-day week has been established.



BEARD



HAUGEN



NOLTE



MORDORSKI

LIBERAL ARTS

'18

Eugene Lysen '18BA recently traveled to California with his wife to celebrate their Golden Wedding Anniversary.

'26

Mrs. Helen Harris Perlman '26BA has been named Samuel Deutsch Distinguished Service Professor in the School of Social Service Administration at the University of Chicago.

'33

Konnetta E. Putman '33BA, associate professor at New York City Community College, Brooklyn, has been elected first vice president of the American Dental Hygienists' Association.

'35

Richard M. Scammon '35BA, Washington, D.C., director of the Elections Research Center, has been appointed a Phi Beta Kappa Visiting Scholar for 1971-72.

'40

John P. Cronin '40BA of the Upjohn Company, Kalamazoo, Mich., was appointed manager, Sterile Products.

'44

Porter P. Wiggins, Jr. '44BA, New York, N.Y., was an assistant general sales manager for Texaco, Inc. in northern Europe before being appointed to general sales manager for central Europe.

'47

A. W. "Bill" Kelley '47BA has been named vice president of operations for Honeywell's Aerospace division in St. Petersburg, Fla.

Dr. Jarold A. Kieffer '47BA '50PhD, Washington, D.C., has been appointed director of the Agency for International Development's Office of International Training.

'48

LeRoy J. Simon '48BA '49MA, Newark, N.J., has been appointed vice president in a new property and casualty subsidiary being formed by The Prudential Insurance Co.

'49

L. Melvin Conley '49BA, noted hospital administrator of the St. Paul Midway and Mounds Park Hospitals, was honored recently by Sioux Falls

(S.D.) College with an honorary L.H.D. Doctor of Humanities degree.

'50

Burton Boersma '50BA, Westport, Conn., has been promoted to New York advertising manager of the *Reader's Digest*.

Alan Rice '50BA, Minneapolis, has been named to handle the free-style and Greco-Roman wrestling squads for the USA in the 1972 Olympic Games at Munich. The vice president and manager of Dain, Kalman & Quail is a former wrestler for the University of Minnesota.

'52

Lillian M. Martin '52BA '59MA has been promoted to WAC lieutenant colonel while serving with the U.S. Women's Army Corps School at Fort McClellan, Ala.

'53

Thomas R. Buckman '53MS, Port Washington, N.Y., has assumed the presidency of The Foundation Center, an independent, nonprofit agency that provides information to the public on philanthropic foundations. He is the former University librarian at Northwestern.

'54

Lt. Col. Patrick W. Collins '54BA has graduated from the U.S. Army Command and General Staff College at Fort Leavenworth, Kan.

'55

LeRoy Young '55BS is serving as visiting lecturer in economics and Afro-American studies at Bowdin College, Brunswick, Maine, for the 1971-72 academic year.

'57

Erling J. Lang '57BA, Chicago, Ill., has been appointed personnel manager for the Waukesha (Ill.) division of the Rex Chainbelt, Inc. control group.

Rev. Philip Weiler '57BA has assumed pastoral duties at the United Presbyterian Church in Crookston, Minn.

'60

Ronald Flack '60BA, Paris, France, has been promoted to Class 4 in the Foreign Service of the United States. He has been serving as trade promotion officer at the Paris Embassy's Trade Center.

alumni news
**AROUND
 AND ABOUT**

John B. Lange '60MA recently graduated from St. Louis University with a doctor of philosophy in Spanish.

Dr. Virgil Massman '60MS has been appointed to the newly created position of executive director of the James Hill Reference Library in St. Paul.

'61

Dr. Daniel C. Neale '61BA has been named acting dean of the College of Education at the University of Delaware, Newark.

'62

James E. Beard '62BA, Minneapolis, has been named executive director of Project Equality of the Minnesota Council on Religion and Race.

Andrew J. Greenshields '62BA, Bloomington, Minn., has joined First Midwest Corporation, Minneapolis, as coordinator of venture capital activities.

LaVern W. Harden '62BS, Omaha, Neb., has been appointed medical sales representative for the J. B. Roerig division of Pfizer, Inc.

'63

Don W. Chenoweth '63BA recently received a Doctor of Philosophy degree in political science and history from St. Louis University.

Richard D. Manley '63BA, San Francisco, Calif., has joined the California Medical Association's division of scientific and educational activities.

David M. Skoloda '63BA, farm and rural area reporter for *The Milwaukee (Wis.) Journal*, has been named 1971 Newspaper Farm Editor of the Year in a national competition sponsored by the Newspaper Farm Editors of America.

Anthony M. Sorem '63BA has joined the staff of the psychology department at St. John's University, Collegeville, Minn.

Dr. Charlotte Templin '63BA has been appointed an assistant professor in the English department of Indiana Central College, Indianapolis.

'65

Gary M. Andrew '65BA has been named assistant vice president in the investment department of National City Bank of Minneapolis.



LIBERIA HONORS YOHE. Dr. Robert V. Yohe '31PhD, right, retired vice president of marketing and materials services for the B. F. Goodrich (BFG) Company, Akron, Ohio, was recently appointed a Knight Commander of the Liberian Humane Order of African Redemption. The honor was conferred by William V. S. Tubman, president of the Republic of Liberia. The honorable S. Edward Peal, left, Liberian ambassador to the United States, invested Dr. Yohe in the order at a ceremony in the Liberian Embassy in Washington. Dr. Yohe retired in July 1971 after a 40-year career with BFG. He had had responsibility for the company's Liberian rubber plantations.

Dr. John R. Sheppard '65BA, Denver, Colo., has been appointed assistant professor of neurology in the University of Colorado School of Medicine.

'66

Reginald C. Haines '66BA has joined the staff of the American Chemical Society's Chemical Abstracts Service in Columbus, Ohio.

Gordon Hughes, Jr. '66BA was recently awarded his PhD degree in geology from Michigan Technological University, Houghton.

Dr. Robert J. Winter '66BA has joined the faculty of Rider College,

Trenton, N.J., as assistant professor of Russian.

'67

Rolf E. Gryte '67BA, Cannon Falls, Minn., has received a Doctor of Osteopathy degree from the Kirksville (Missouri) College of Osteopathy and Surgery.

David M. Mordorski '67BA, Bloomfield, Conn., actuarial assistant at Connecticut General Life Insurance Company, Hartford, has been designated a fellow of the Society of Actuaries.

'68

Joseph M. Breidel '68BA '71MFA

alumni news
**AROUND
AND ABOUT**

has joined the faculty of Oberlin College, Oberlin, Ohio, as an assistant professor in the art department.

Elizabeth L. Gibson '68BA has been promoted from second lieutenant to first lieutenant in the Women's Army Corps at WAC Center, Fort McClellan, Ala.

Army 1st Lt. Stephen E. Kairies '68BA recently received the combat infantryman badge near Chu Lai, Vietnam.

'69

Stephen E. Frantzich '69BA has joined the faculty of Denison University, Granville, Ohio, as an assistant professor in the department of political science.

'70

Dr. Neils E. Christiansen '70MA '71PhD has been appointed to the staff of the Harvard School of Public Health, Boston, Mass.

Mrs. Joan G. Clark '70BA, a Washington University medical student, recently completed a fellowship in scientific research at the School of Medicine, St. Louis, Mo.

Dale P. Hennessy '70BA, Minneapolis, has been promoted to personnel manager of International Multifoods' consumer products division.

William S. Myers '70BS has been promoted to Army Specialist 4 while serving with the 3rd Infantry Division in Germany.

'71

John Erickson '71BA, University of Minnesota Law School freshman, was elected to Phi Beta Kappa, honorary scholarship fraternity.

Mrs. Marjorie Haugen '71MA has joined the faculty of Winona State College, Winona, Minn.

Patricia Nolte '71MA, Baldwin, Wis., has joined the faculty of Winona State College as periodical librarian.

**INSTITUTE OF
TECHNOLOGY**

'26

Clarence V. Lund '26BCE, Glen Ellyn, Ill., an employee of the Chi-

cago, Milwaukee, St. Paul and Pacific Railroad Company for 44 years and special assistant to vice president—chief engineer for the past two years has retired.

'29

H. Arthur Shabaker '29MSChE, Media, Penn., technical consultant to the director of engineering of the Houdry division of Air Products and Chemicals, Inc., has retired.

'30

Earl Ewald '22BEE, Minneapolis, has retired from active Northern States Power (NSP) employment and as chairman of the board, but is continuing as a director and chairman of the board's executive committee.

'31

Arthur B. Johnson '30BCE, Omaha, Neb., has retired as chief of the technical engineering branch in the Army Corps of Engineers Missouri River division after 41 years of government service.

'31

Freeman A. Nichols '31BSE, Menasha, Wisc., has recently completed an overseas assignment for the International Executive Service Corporation in Santiago, Chile.

'33

John E. Carroll '33BChemE, St. Paul, president of American Hoist & Derrick and first vice president of the Minnesota Alumni Association, has been elected to Economics Laboratory's board of directors.

'33

Dr. Vernon A. Stenger '33 PhD, an analytical scientist in the Midland (Mich.) division of Dow Chemical, received an honorary doctor of science degree from the University of Denver for his achievements in analytical chemistry.

'38

Dr. Glenn E. Ulyot '33MChem, a director and scientific liaison for Smith, Kline & French Laboratories of Philadelphia, was selected to make a 21-day trip of Europe with other prominent U.S. scientists to visit their occupational counterparts abroad. The mission was endorsed by the People-to-People organization.

'38

John H. Gerstenmaier '38BME, Akron, Ohio, has been elected to the Goodyear Tire & Rubber Company board of directors.

'38

Ralph O. McDonald '38BCE has been named director of purchases for Paper, Calmenson & Co. He is also a vice president in the St. Paul company.

'39

Dr. Philip G. Kirmser '39BChemE, professor and head of the department of applied mechanics at Kansas State University, Manhattan, is one of 28 distinguished applied mathematicians listed as a 1971-72 Visiting Lecturer of the Society for Industrial and Applied Mathematics.

'40

Wayne G. Shaffer '40BME, Vitro president, was elected vice chairman



LATHAM

PRATT

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NAKA



HAGGSTROM



KELLEY



WIGGINS



JOHNSON



GRUNDMANIS

of Vitro Laboratories, Silver Springs, Md.

'42 Richard L. Hehl '42BSEE, St. Petersburg, Fla., has been promoted to manager of purchasing for Electronic Communications, Inc.

'44 Harry A. Koch '44 BAeroE has been

elected a corporate vice president and general manager of the Datron Equipment division of Datron Systems, Inc., in Mountain Lakes, N.J.

Hicks B. Waldron '44BME, New York City, a vice president of the General Electric Company, has been named group executive of the Consumer Products group.

'45

Arthur T. Dalton '45BME, Western Springs, Ill., has been named vice president, manufacturing for Jewel Food Stores.

'46

Clarence A. Syvertson '46BAeroE has been awarded the NASA Medal of Exceptional Service. He is currently deputy director of the Ames Research Center, Moffett Field, Calif.

'47

F. Robert Naka '47MSEE, deputy undersecretary of the USAF Space Systems, Washington, D.C., received the Missouri Honor Award for Distinguished Service in Engineering from the University of Missouri, Columbia.

'48

Frederick Bentz '48BArch, Minneapolis, is one of the founders of Frederick Bentz/Milton Thompson & Associates, Inc., a new architectural firm.

Kenneth F. Thompson '48BAeroE, Lancaster, Penn., has been appointed president of the New Holland division of Sperry Rand Corporation.

'49

Paul N. Richardson '49BCE '52PhD, Wilmington, Del., was recently appointed senior research chemist in the Dupont Company's plastics department at the Experimental Station near Wilmington.

'51

Albert Meuleners '51BME '58BBA, Roedelheim, Germany, has been named vice president for worldwide manufacturing of Sperry Rand's Univac division.

'52

Gilbert B. Langseth '52BArch, Minneapolis, has been appointed project architect for Ellerbe's hospital and medical teaching facilities division.

'53

Dr. D. Peter Carlson '53BChem, Wilmington, Del., has been appointed a research associate in the DuPont Company's plastics department at the Experimental Station near Wilmington.

R. J. Howe '53PhD(ME), Houston, Texas, will head the Energy Policy



FASTEST IN THE WORLD. Class "A" Scows are generally considered among the fastest sailboats in the world, attaining speeds of over 30 miles per hour. Above, the Scarlet Letter is skippered by Robert E. Evans '54BAJourn, far left, a member of the Minnetonka Yacht Club who spends his time on dry land as assistant vice president and marketing director of Twin City Federal Savings and Loan Association. Evans won the 1971 Inland Lakes Yachting Association Class "A" championship at the group's Green Lake (Wisc.) regatta. This week-long regatta, regarded as the most important in Upper Midwest sailing tournaments, began in 1898.

alumni news
**AROUND
 AND ABOUT**



CATES



McDONALD



ANDREW



BERRY

Development unit of Humble Oil & Refining company as coordinator.

'54

Allen Latham '54BME, Wilton, Conn., has been appointed acting general manager of a copper project for Freeport Sulphur in West Irian, Indonesia.

'55

John V. Grundmanis '55BArch, Minneapolis, has joined Ellerbe Architects as a project architect. He was appointed to the firm's hospital and medical teaching facilities division.

'56

Richard L. Johnson '56BS, Chicago, Ill., has been appointed chief executive officer of Middle West Service Company, international management and engineering consulting firm.

Robert O. Milbrath '56BAeroE, vice president of Piper, Jaffray & Hopwood and manager of the firm's Edina, Minn., office, has been named to the newly-created post of general sales coordinator.

Richard J. Petschauer '56BEE, Edina, Minn., has been named group manager, advance storage technology in the development center at Sperry Rand Corporation's Univac division in Roseville, Minn.

AGRICULTURE

'37

Dr. Edgar E. Hartwig '37PhD, Stoneville, Miss., an ARS research agronomist, has received a Distinguished Service Award from the U.S. Department of Agriculture for his work with soybeans.

'41

Dr. Harry D. Pratt '41BS, Atlanta, Ga., a scientist director with the U.S. Public Health Service, has been awarded the Meritorious Service Medal in recognition of his outstanding service during more than 28 years in the Public Health Service Commissioned Corps.

'44

Roland M. Hendrickson '44BS, Darien, Conn., vice president and general manager of the Agricultural

division of Pfizer, Inc., has been named president of the division.

'50

Dean Cates '50BS, Faribault, Minn., has been elected to the agents advisory council of New York Life Insurance Company's field force.

'51

James P. Crawford '51BS, Mountain Lake, Minn., received a \$300 bonus for being named Minnesota's Outstanding Vocational Agriculture Teacher in 1971.

DENTISTRY

'21

Dr. F. V. Betlach '21DDS, Owatonna, Minn., dentist, has become a 50-year member of the Minnesota Dental Association.

'35

Dr. John W. Tiede '35DDS, Le Center, Minn., was installed as president-elect of the Minnesota Dental Association at the 88th Annual Session of the Minnesota Dental Association.

'42

Dr. Charles E. Rudolph, Jr. '42DDS is retiring. He has been associate professor and chairman of the department of endodontics and, most recently, director of Continuing Education for Dentistry at the University of Southern California, Los Angeles.

'50

Dr. Odin M. Langsjoen '50DDS, Duluth, Minn., was named director of the University of Minnesota, Duluth Dental Hygiene program.

'56

Dr. Donald Legler '56DDS has accepted an appointment as assistant dean of the School of Dentistry, University of Alabama, Birmingham.

EDUCATION

'38

Amalie Roth Shannon '38BSEd received a Doctor of Education degree recently from Lehigh University, Bethlehem, Pa. She is cur-

rently an associate professor of education at Cedar Crest College, Bethlehem, Pa., in addition to being an assistant to the president.

'41

Dr. G. Lester Anderson '41PhD, director of the University Center for the Study of Higher Education at Pennsylvania State University, was presented with a 125th Anniversary Award in recognition for past service to the State University of New York at Buffalo. Anderson is a former vice president of the State University at Buffalo.

'58

William A. Haggstrom '58Med, Cleveland, Ohio, has been appointed director of marketing for Stouffer Management Food Systems.

'59

Dr. Paul A. Bloland '59PhD, Palos Verdes Peninsula, Calif., has been named to the board of directors of the American Association of University Administrators for a three-year term. He is vice president of University of Southern California Student Affairs.

'67

Dr. Gerhard Haukebo '67PhD was among 175 persons throughout the U.S. appointed recently as Danforth Associates. He is currently chairman of the Moorhead (Minn.) State College education department.

'68

Dr. David O. Ongiri '68BBS, Middletown, Pa., has joined the faculty of the Capitol Campus of Pennsylvania State University as an assistant professor of education.

PHARMACY

'43

Roger Vadheim '43BSPHm, Tyler, Minn., received the A.H. Robins "Bowl of Hygeia" Award for outstanding community service. He is the 1970-71 president of the Minnesota State Pharmaceutical Association.

'50

John R. Berry '50BPHm, Indianapolis, Ind., director of sales for Eli Lilly and Company's Southwest region, has been named director of market research.

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• **Beneficiary** . . . you name your own beneficiary, which you may change at any time. Special beneficiary arrangements can be made to fit your own requirements. Settlements of death claims as a monthly income may be provided.

• **No Premium To Pay While Disabled** . . . your life insurance premiums are waived and insurance remains in force if you become totally disabled (as defined in the contract) before age 60.

• **You May Change** . . . to a permanent policy which builds cash values for retirement. When you terminate membership in MAA, when you reach age 74, or when any insurance terminates because of a change in age beyond age 60, you may convert the amount of group life insurance which terminates to any individual policy of life insurance then being issued by the insurance company other than term insurance or any policy containing disability or other supplementary benefits.

Minnesota Alumni Association Group Life Insurance

Application

Last Name (Print) First Name Middle Initial

Street Address

City State ZIP Code

Date of Birth Sex Class, or years at U of M

Beneficiary (Print Name as MARY DOE, not MRS. JOHN DOE) Relationship

Statement of Health

The following information is submitted as evidence of my insurability: Weight _____ Height _____

Have you ever been declined or rated for life insurance? (If yes, give details below) _____

Within the past five years, have you been confined for more than five days for any illness or injury or undergone any surgical operations? (If yes, give details below) _____

Are you in good health? _____

Comments:

I hereby apply for that coverage for which I am or may become eligible under the above Group Policy issued by the Prudential Insurance Company of America to the Minnesota Alumni Association.

Date _____ X _____ Signature

Prudential



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