

1975 SEPTEMBER

alumni news

UNIVERSITY OF MINNESOTA

**MAA
PRESIDENT
SALOVICH:**

**Opening
The Way
For
New
Alumni
Liaison
With The
University**



FOR ALUMNI CLUB MEMBERS ONLY. . .



SATURDAY FOOTBALL LUNCHEONS & BUS TRANSPORTATION

Your Club is featuring tempting pre-game buffet style luncheons on Home-game Saturdays from 11:00 a.m. until 12 noon. The Ski-U-Mah is open before lunch. (Buses leave for the stadium 45 minutes before game time.) Hot cider is served on buses.

Buffet price of \$5.50 per person (includes bus transportation to and from stadium), allows you to choose from assorted salads, including tossed, potato, three-bean and macaroni; iced relish tray; sliced tomatoes; cottage cheese and fruit gelatin; one of two hot entrees; two vegetables; bread and butter; beverages; and limited dessert menu. The hot entrees include:

Sept. 20 — Veal Oskar or Crepes with Chicken; **Sept. 27** — Beef Tips in Burgandy or Country Style Chicken; **Oct. 4** — Braised Swiss Steak or Seafood Crepes; **Oct. 18** — Carved Peppered London Broil or Bird of Paradise; **Nov. 1** — Braised Short Ribs or Grilled Salmon Steak; **Nov. 8** — Yankee Pot Roast or Stuffed Baked Trout; **Nov. 22** — Old-Fashioned Beef Stew or Chix-a-la-King in Pastry Shell.

Luncheon and Transportation Package available for all seven home games at \$35.00 per person. Reservations by noon on Friday before games, please.

CLUB HOUR

Featuring the best in "High Spirits" that are 50 stories above the ordinary, served in your Club from 3:00 to 5:30 p.m., Monday through Friday, with Complimentary Crepe. Highballs are only \$1.00*, Domestic Draft Beer 75¢*, a junior-sized Ski-U-Mah Poison Ivy \$1.00*. (Cocktails and other drink requests at regular prices.)

A GOURMET ARRAY OF COMING EVENTS

SEPTEMBER 13: NEW ENGLAND SHORE BUFFET DINNER

Chowders — Iced Salads — Tempting Seafood and Fish Entrees — Dessert Table — Beverage

OCTOBER 18: HOMECOMING

Featuring A Special "Victory" Steak Dinner for Two with Complimentary Wine, Carved Table Side

NOVEMBER 15: HAWAIIAN LUAU

Exotic Salads — Mahi-Mahi — Prawns — Kahakulos — Beef Teriyaki — Suckling Pig — Poi — Rice Pareete — Kona Chicken — And Much More Served Buffet Style

DECEMBER 13: CHRISTMAS PARTY

A Traditional Scandinavian Julebord, Served Buffet Style

JANUARY 24: NEW ORLEANS NIGHT

Seafood Gumbo — Orleans Pain Perdu — Chicken Creole — Shrimp Jambalaya — Macedoine of Fruit — Louisiana Bay Crab Quince — Oysters Pontchartrain — And Other Specialities Presented By Our Chef — Served Buffet Style

FEBRUARY 28: SAN FRANCISCO NIGHT

A Menu Complete With All of The Finest That Has Made San Francisco Famous.

MARCH 13: GALA NIGHT

A Celebration of Your Club's Second Anniversary, Featuring Entertainment and an Exotic Menu. A Facsimile of Opening Night, But Even More Exciting. (By Reservation Only.)

TABLE D'HOTE

Featuring Special *Low-Priced Complete Dinners* at \$5.50* per person, served Mon. through Wed.

FAMILY NIGHT

Every Thursday evening, Savory Full-Course Dinner at \$5.95* for adults and \$4.50* for children. Watch for the surprise dinner entree that will soon be featured on regular Club menu!

(*) Gratuity and tax not included.

Call Club Manager Irene Kreidberg at 376-3667 to make reservations or ask for details.

POINTS OF VIEW



The University has received a letter from the National Collegiate Athletic Association (NCAA) alleging more than 100 violations of NCAA regulations by the U of M Men's Intercollegiate Athletic program. The local press has indicated that alumni and others may be involved. The Minnesota Alumni Association, officially or unofficially, *has not, is not and will not ever be involved in illegal recruitment programs* for any reason.

The MAA does furnish lists of graduates to all departments and units of the University, including the Department of Men's Intercollegiate Athletics. The Alumni Office at all times stands ready to be of help and assistance to all University units, including the Men's Department of Intercollegiate Athletics.

The rules that particularly pertain to alumni organization activities for prospective students, including student-athletes, are as follows, and I quote from a memorandum received yearly from the office of the Big Ten Intercollegiate Conference:

"A bona fide University Alumni Association organization may sponsor a dinner or luncheon for prospective students at which prospective student-athletes may be in attendance. It must be emphasized that *this function must be for prospective students, and not specifically for prospective student-athletes.*

"*Also, the dinner or luncheon must be held in the prospective student-athlete's home town or contiguous town only.* The parents or guardians of the prospective student-athlete may attend this function, *but not his high school coach.*

"A high school coach who is a member of an alumni club may participate in the functions just as any other club member. His membership in the alumni club is the primary consideration, and his professional status as a high school coach is a secondary consideration.

"Each of these affairs must be an authorized and recognized event by the University's Alumni Association, and not one by a local athletic booster club.

The pertinent NCAA rules in this area are as follows:

O.I. 106. Bona fide alumni organizations of an institution may sponsor luncheons, teas, or dinners at which prospective students (athletes and non-athletes) of that immediate locale are guests.

Case No. 105. Entertainment by Alumni Organization Situation: The provisions of O.I. 106 permit an institution's bona fide alumni organization to sponsor luncheons, teas or dinners at which prospective students (athletes and non-athletes) of that immediate locale are guests. NCAA Bylaw 1-5-(e) restricts the entertainment of the prospect's parents to the institution's campus only. (185)

Question: Is it permissible for the bona fide alumni organization to entertain the parents of prospective student-athletes at one of its sponsored luncheons, teas or dinners at which the parents of non-athletes are also entertained?

(Continued on page 4)

POINTS OF VIEW

Answer: Yes. (B 1-2-(b)-O.I.106)

Case No. 106 — Entertainment of Prospects — Booster Clubs Situation: An institution's athletic booster club, which is not a bona fide alumni organization under the conditions set forth in O.I. 107, wishes to expend funds to entertain prospective student-athletes. (161)

Question: May such an organization expend funds to entertain prospective student-athletes at a luncheon, tea or dinner (or on any other occasion)?

Answer: No. Only bona fide alumni organizations of the institution may sponsor luncheons, teas or dinners at which prospective students (athletes and non-athletes) of that immediate locale are guests.

[B 1-2-(b)-O.I. 106 and B 1-5-(e)]

Alumni who are in contact with prospective student-athletes or students already registered at the University, be-

fore in any way assisting them, should check with the Men's Department of Intercollegiate Athletics at the University. Student athletes cannot be given or accept tuition help, transportation for themselves or their parents, use of automobiles or lease cars, payment or help on housing, gifts of any kind, including tickets for movies or other entertainment. To provide substantial help to a student athlete not only threatens the student-athlete's eligibility at the University, but places the University and Department of Intercollegiate Athletics in jeopardy of severe penalties. Should you wish to help an athlete, please check with the Athletic department, the Big Ten office or the NCAA office.

The reason the University of Minnesota has such a clean record as regards violations of the NCAA or Big Ten rules speaks well for the kind of athletic leadership that has predominated over the years.

The sooner the present situation is corrected, the better for the University, the Athletic department, intercollegiate athletics generally, and all of us who enjoy intercollegiate sports.

Ed Hansen

ANOTHER BENEFIT FOR MEMBERS!

Association Members having special needs to use the University Library resources may apply for a **special library privilege card**. If you want to make use of the University libraries, please write to the Minnesota Alumni Association office stating your need to use the libraries, the purpose and estimated length of time that you would need a card. Your application will be forwarded to the University libraries and a card issued.

The above action is made through the courtesy of Ralph H. Hopp, Director of Libraries, and is within the stated policy of the University libraries of issuing special privilege cards to those having need of concentrated access to the University of Minnesota libraries, whether or not they are a member of the University faculty or staff.

THE MINNESOTA

RING



OFFICIAL ALUMNI RING

Selected by the Board of Directors of the Minnesota Alumni Association.

A handsome 10K gold ring set with a maroon synthetic garnet and decorated on one side with the University Seal, the Golden Gopher, the Minnesota "M" and your graduation date. On the other side, the University Side, you can display your college, degree and year of graduation.

Choose from these colleges:

- Liberal Arts
- Education
- Music
- Agriculture
- Forestry
- Home Economics
- Architecture
- Arts & Sciences
- Universal
- Medicine
- Dentistry
- Law
- Business
- Engineering
- Pharmacy
- Nursing
- Veterinary Medicine
- Letters & Sciences

Currently closed back Men's Rings, Women's Dinner Rings and the Women's Miniature are available.

Due to fluctuating gold prices, we are unable to quote an exact price on the rings. A regular men's ring may be as high as \$90. Please write the Minnesota Alumni Association at 2610 University Avenue, St. Paul, Minnesota 55114, for complete details on options and prices.

THE MINNESOTA ALUMNI ASSOCIATION
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alumni news

UNIVERSITY OF MINNESOTA

SEPTEMBER 1975

VOL. 75, NO. 1

in this issue

MINNESOTA ALUMNI ASSOCIATION national president Wally Salovich is the cover subject of this issue. A longer article on him and the leadership he will lend to the Association this year will appear in a future issue of The Alumni News, following directives he will receive from University president Magrath. Other University and alumni leaders are featured throughout this issue, as well as an article on chronobiology, a new science that is gaining importance at the University.

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Mary Lou Aurell '62BAJourn Editor
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Association's 1975-76 leaders are well-known area personalities with University enthusiasm

The current Minnesota Alumni Association's national president, Wally Salovich '50BBA '56MHA, Wayzata, Minn., has known a long association with the University and its alumni.

He recently served on the committee appointed by University president Magrath to select the new Minnesota

basketball coach and is a past president and active member of the Graduate "M" Club, as well as a busy fundraiser for the University's Williams Fund. While an undergraduate he won four varsity letters and became known for his consistent abilities on the Gopher basketball court.

A graduate of Minneapolis' Marshall High School, which is located in the University area, Salovich played on three consecutive city championship teams in football, basketball and baseball as a high school student.

He has been a management consul-

tant since retiring as president of Minneapolis' Spray Tech Corporation and was previously employed as Graco, Inc.'s director of marketing.

In the Twin Cities community he is also known for his work as a board member of the Minneapolis Optimists and the Big Brothers of Minneapolis.

Salovich will issue a detailed report on his work as president of the Association in a future issue of The Alumni News.

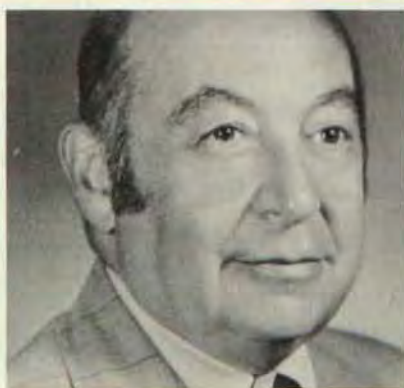
Vice president Thomas H. Swain



Wally Salovich



Thomas Swain



Alan Ruvelson



George Pennock



Iantha LeVander



M. Elizabeth Craig

'42BBA, Stillwater, Minn., in his professional life is vice president and assistant to the president of St. Paul Fire & Marine Insurance Company. He joined the company in 1963.

From 1948 to 1951 Swain was athletic ticket manager at the University of Minnesota. He has also been manager of the St. Paul Chamber of Commerce Convention Bureau, executive director of the Minnesota Statehood Centennial Commission and the Minnesota Insurance Information Center, executive secretary to former Minnesota Governor Elmer L. Andersen and commissioner of the state's Department of Economic Development.

He is currently serving as a trustee of St. Paul's Children's Hospital and is chairing University president Magrath's committee to study the organizational structure of the University's external affairs.

Swain is a past president of the Minnesota chapter of the Public Relations Society of America and a former director of Associated Capital Hospitals and the St. Paul Council of Arts & Sciences.

Second vice president Dr. M. Elizabeth Craig (Mrs. Howard Lincoln) '43BS '45MD, Hopkins, Minn., is in full-time pediatric practice in St. Louis Park, Minn.

In addition to leadership activities with medical professional organizations, Dr. Craig is a volunteer at a walk-in teenage medical center and a consultant to the Health Council for two suburban schools.

She is a deacon of her church and a member of Minnesota Sister Cities Organization Zonta International, an executive and professional women's service organization. She is also active in youth athletic programs and enjoys travel, when she can get away.

Her son Craig Lincoln, Olympic diving medalist, is currently diving coach at the University of Minnesota;

and daughter Libby is enrolled in the University's Law School.

MAA secretary Iantha Powrie LeVander '35BSEd, South St. Paul, is well-known for her educational and civic leadership and activities with the state and national Republican Party.

The former first lady of Minnesota carries a heavy statewide speaking schedule, dealing mainly with Women in Politics, and recently was named to the executive board as vice chairman of program for the 1976 Republican Convention. She has been a delegate to numerous county, district and state conventions over the years and an alternate delegate to the 1972 National Republican Convention.



Richard Kyle



Ronald Simon



Bert Lund



Wendell Olson



Diana Murphy



Robert Sheran

Republican National Committeewoman for Minnesota from 1972-76, Mrs. LeVander is a board member of the Schubert Club, St. Paul Opera, Divine Redeemer Hospital and the Minnesota Children's Museum.

Selected the 1970 Minnesota Mother of the Year, she has been an active fund-raiser for charitable and educational organizations and active in the beautification of Minnesota's gubernatorial residence.

Treasurer Alan K. Ruvelson '36BBA, St. Paul, has been president and director of the First Midwest Corporation since 1959.

His business expertise has been known through his work as director and president of the Minnesota Association of Commerce and Industry and as president of the National Association of Small Business Investment Companies, and as a member of the Consultative Council of the University's College of Business Administration.

He is a director of the American Arbitration Association, a member of the executive committee of Minnesota's Advisory Committee on Economic Development and the state's Advisory Committee on Emergency Energy.

His religious leadership is seen in his work as chairman of the Lay Advisory board of St. Mary's Hospital, Minneapolis, and as trustee of the Convent of the Visitation School.

Immediate past president George T. Pennock '34BBA, Minneapolis, is chairman of the board of the Tennant Company, a pioneer manufacturing firm he has served as an accountant, secretary, secretary-treasurer, vice president and treasurer, president and treasurer, and president, until assuming his current position.

Recognized for his dedicated work in the area's civic and cultural communities, he served a six-year term as a founding member of the Metropolitan Council, Minnesota's major urban-area planning and development authority, and represented the Council on the Metropolitan Airports Commission.

He was elected to the board of regents of Augsburg College, Minneapolis, in 1970 for a six-year term, and is a member of the Consultative Council of Minnesota's College of Business Administration.

Pennock, who recently completed a term as chairman of the board of trustees of Westminster Presbyterian Church, is currently serving a three-year term as vice chairman of the board of Minnesota Association of Commerce & Industry and a two-year term on the board of the Greater Minneapolis Chamber of Commerce. He is also a member of the board of the Council for Technological Advancement of Machinery and Allied Products Institute.

Named

to the 1975-76 executive committee to serve with these officers are five men and one woman.

Richard H. Kyle, Jr. '59BA '62LLB, White Bear Lake, Minn., is an attorney with the St. Paul firm of Briggs & Morgan. He has been with them for the major portion of his career, excepting for a one-year period as a law clerk with U.S. District Judge Edward J. Devitt and a two-year period as Minnesota Solicitor General.

Kyle has been active as a director of the University's Law Alumni Association, as a member of the Minnesota Bar Association's board of governors and as president of that group's Young Lawyers section.

A *magna cum laude* graduate of the Law School, he was president of the *Minnesota Law Review* from 1961-62 and is a member of the Order of the Coif and Phi Delta Phi fraternity.

Bert O. Lund '42BBA, St. Paul, is vice president and a director of The Webb Company and also the publisher of *Farmer* magazine.

A past president of the Advertising Club of Minnesota, the State Farm Magazine Bureau and the Agricultural Publishers Association, he currently serves on the executive board of the Indianhead Council of Boy Scouts of America and as vice chairman of the Advisory Council of the University's Institute of Agriculture.

He is also a member of the St. Paul Rotary Club, St. Paul Civic Center Authority and the Minnesota Press Club.

Diana Kuske Murphy '54BA '74JD, Minneapolis, is an attorney practicing with the Minneapolis firm of Lindquist & Vennum.

In the community she is active as chairman of the Minneapolis Charter Commission, chairman of the board of Operation De Novo, Inc., as a director of the Minnesota Civil Liberties Union and as a trustee for Blake School.

A *magna cum laude* graduate of the Law School, she has also studied at Gutenberg University in Mainz, Germany. Editor of the *Minnesota Law Review* while at the University, she is a member of Order of the Coif, Phi Beta Kappa and was a Fulbright scholar.

Wendell L. Olson '48BBA, Bloomington, Minn., is president and a director of the Fourth Northwestern Bank of Minneapolis. Previously he was with the Northwestern National Bank of Minneapolis. He joined Fourth Northwestern in 1952 and was named vice president in 1957, a director in 1959 and president in 1964.

He is a member of the board of directors of the University Community Development Corporation, a member of the governing board of St. Mary's Junior College, Minneapolis, and a member of the advisory committee for Minneapolis' Retired Senior Volunteer Program. He is also active with Bethlehem Lutheran Church of Minneapolis, the Southtown Exchange Club and United Way.

Robert J. Sheran '39LLB, St. Paul, is Chief Justice of the Minnesota Supreme Court. He practiced law in southern Minnesota from 1939 until early 1963, except for a three-year period when he served as a Special Agent for the Federal Bureau of Investigation. In early 1963 he was appointed an associate justice of the Minnesota Supreme Court, was elected to a six-year term in 1964 and resigned in mid-1970 to join the Minneapolis law firm of Lindquist & Vennum.

In March 1973 he was appointed Chief Justice of the Supreme Court to fill out the term of The Honorable Oscar Knutson who resigned.

Sheran is a member of the Minnesota State Board of Law Examiners, chairman of the Governor's Crime Commission and a member of the board of trustees of St. Thomas College.

A State Representative from Blue Earth County for four years, he has served the Minnesota Board of Law Examiners from 1958-63 and the Minnesota Board of Tax Appeals from 1961-62.

Ronald L. Simon '54BBA '57LLB, Hopkins, Minn., has practiced law continually in Minneapolis since 1958 and is currently a partner in the firm of Simon, Schneider & Marker, P.A.

He was a director of the "M" Club

from 1974-72 and its president in 1970-71. Since its inception, he has been chairman of Duff's Celebrity Tennis Tournament. While at the University he lettered in tennis.

Simon has been active with Phi Epsilon Pi academic fraternity and was a national officer and director from 1965-68, before its merger with another fraternity.

He was recently appointed by the
(Continued on page 10)



Phyllis Mackenzie



Ernest Villas



James Clark



Neil Palm



Gayle Whitesell



Charles Mannel



William Sears



Beverly Kees

MAA Leaders, from page 9

Minnesota Supreme Court to serve as a Standing Committee member for Administration of Arbitration under the Minnesota No-Fault Law.

Nine

new board members also began terms, beginning July 1. Lengthy biographical material on them was presented in the 1975 April issue of The Alumni News.

They include Beverly Kees '63BA, Minneapolis journalist, who is currently as assistant managing editor with the *Minneapolis Tribune*;

Charles H. Mannel '59BBA '65MA, Minneapolis, director of student, staff and alumni services for the University's College of Business Administration;

Dr. Neil Merald Palm '48BS '50MB '51MD, St. Paul, who is chief of staff of United Hospitals;

Ronald L. Simon, who as a member of the executive committee of the Association, had his biography appear earlier in this article;

Mrs. Gayle Whitesell '55BA '56MALibSci, Buffalo, Minn., an active civic volunteer and substitute teacher;

Ernest Villas '49BS, New York City, director of the Department of Laity of the Greek Orthodox Archdiocese of North and South American and former director of bands at the University;

William C. Sears '36-'40, Springfield, Ohio, a plant manager and marketing coordinator for the Carrier Corporation;

James H. Clark '57BAeroE, St. Louis, Mo., senior group engineer in the aerodynamics and propulsion laboratories of McDonnell-Douglas; and

Mrs. Phyllis Mackenzie '41BA, Eau Claire, Wis., an active community worker who currently is a board member of the University of Wisconsin-Eau Claire Foundation, treasurer of the Career Development Center board, a volunteer field consultant for the Red Cross Blood program, a board member of the Eau Claire Visiting Nurses Association, and a choir member of Grace Lutheran Church.

A new and very special alumni program

THE PRESIDENT'S SEMINARS

You are invited to attend The President's Seminars!

These special seminar programs will provide the opportunity for you to meet and hear some of the distinguished faculty members of our University.

The program's name comes from the fact that C. Peter Magrath, President of the University of Minnesota, will be our first speaker. President Magrath has been with us just a year and this will be a chance to meet him and his wife, Sandra, and to hear his observations about his first year. There will be a question and answer period following his remarks.

The President's Seminar series opens with President Magrath as our distinguished guest on *Tuesday, October 7*, at the Alumni Club

on the 50th floor of the IDS Tower. Dinner will be served at 6:30 p.m. with the program following immediately thereafter.

The calendar for The President's Seminars is:

Tuesday, October 7, 1975
(President Magrath)

Tuesday, November 11, 1975

Tuesday, January 6, 1976

Tuesday, March 30, 1976

Tuesday, May 18, 1976.

The seminars are open to Alumni Club members and their guests. By special arrangement, Association members are also invited to attend.

The dinner price will be \$5.95, plus tax and gratuity.

For reservations, please call our Club Manager, Irene Kreidberg, at 376-3667.

SPECIAL CLOSE-OUT PRICES ON MINNESOTA GIFT ITEMS!

Gopher Tie Taconly \$2.95

Blazer Emblemonly \$7.95

Minnesota Cuff Linksonly \$3.95

Minnesota Tie Taconly \$2.95

University of Minnesota
Songs (Record)only \$1.95

These prices are for *Members Only*.

Minnesota residents should add 4% Sale Tax to orders, except for the Minnesota Tie.

Items are available only as long as they last! Order today!

Chronobiology: A key to improved health care and an educational adventure



HALBERG and another chronobiologist were deep into a discussion of the science that Halberg feels is of enormous medical importance for both diagnosis and treatment.

At

first glance the Mike Douglas show might seem a strange forum for discussing research being done at the University Medical School's chronobiology laboratories. But more serious investigation reveals that the subject of biological rhythms is both interesting and important enough to merit airing on Douglas' nationally syndicated TV show.

Andrew Ahlgren, associate professor of secondary education at the University and associate director of the Center for Educational Development, has appeared twice on the program to define, discuss and demonstrate the existence of biological rhythms. Although his appearances have been limited to a few minutes, Ahlgren welcomes such opportunities to inform the public. He is interested in introducing the study of chronobiology into American secondary and collegiate level life sciences curricula.

There are millions of Americans, including high school and college science students, who know little or nothing about biological rhythms. What are they?

"They are any body function which shows variations," Ahlgren explains. "This includes temperature, blood pressure, pulse rate, cell activity, hormone levels in the blood, strength, coordination, and mood and response to drugs."

Many biological rhythms operate on a 24-hour "clock," or what the scientists call a circadian schedule. Our daily personal feeling of well being — including even our sensitivity to taste, smell and visual stimuli change as our biological rhythms change.

"Biological rhythms account for why some people are night owls and others are larks," Ahlgren said. "We're different people at different times of the day. And there's misunderstanding about this."



ANDREW AHLGREN, associate professor of secondary education and associate director of the Center for Educational Development, appeared recently on the Mike Douglas show in behalf of chronobiology.

"Unfortunately, the person who doesn't like to get up in the morning is often considered lazy in our society. I even wrote to Ann Landers defending a boy who had trouble getting up for school in the morning."

Ahlgren demonstrated biological rhythms on the Douglas shows by working with recording stars Gladys Knight and the Pips. For a few days they took self-measurements of several physical and psychological functions.

Ahlgren showed them how their temperature and blood pressure varied at different times. "Many people just aren't aware of variations within themselves and how they compare with others," Ahlgren said. "Therefore what may be normal for one individual may not be normal for another. And we need to take these differences into account when medical measurements are taken."

Ahlgren also gave the singers awareness tests. In one he asked the subjects to estimate when a minute had elapsed. Each individual did this exercise several times over a few days and personal estimates varied in a daily pattern from 35 to 60 seconds.

If Ahlgren had had enough time on the Douglas' shows he might have

demonstrated or discussed many other kinds of rhythms. For example:

- The skin renews itself daily, especially between midnight and 4 a.m.

- During the day the kidneys do their filtering job, taking urine out the bloodstream. At night, in the healthy person, the kidneys recuperate from the day's work, producing new cells and repairing themselves.

- Certain blood hormones are produced mostly at night. When we awaken in the morning, the bloodstream is already pretty well loaded with adrenal hormone. The hormones gradually break down certain white cells. By noon the bloodstream contains relatively few of these cells.

- We use our nostrils rhythmically and alternately. Normally we breathe through one nostril for three hours or so, then we switch over to another.

Some of our biological cycles last less than 24 hours. For example, we sleep in cycles of about 90 minutes, characterized by rapid eye movement. Some cycles are longer than 24 hours. Menstruation is a classic example.

We're often most aware of our rhythms when we travel on long trips. Jet travelers arrive at destinations

thousands of miles from home feeling out of sorts because their systems have remained on "natural time" while the body has entered a different time zone. Different rhythms take different numbers of days to make the shift.

Dr. Franz Halberg, head of the University Medical School's chronobiology laboratories and recognized as the leading world expert on biological rhythms, has shown that life is run by countless rhythms, running at different rates in the body.

"There are many rhythms which interact with one another and out of this maze comes what appears to be some fairly stable rhythms," Halberg explained.

Halberg

says there are rhythms in all forms of life, from large animals and plants to small cells. Understanding how and why biological rhythms work is a subject of consuming interest for him.

Ahlgren, who holds a master's degree in physics and doctorate in education, has worked in different capacities with Halberg — including press

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*Our daily personal feeling of well being changes as our biological rhythms change.*  
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liaison. He marvels at Halberg's drive. "Franz wants to think of everything there is to think about biological rhythms before his work is done," Ahlgren said. "Even at the tireless pace he works, Franz realizes he will never get everything done, but he at least wants to lay out the possibilities.

As with other great mysteries, the answers do not come easily. Halberg and others know that the biological rhythms depend largely upon enzymes, hormones, nerves and muscles for their various activities. But what sets the rhythms in motion? What is the key or keys?

The theory is that some of the rhythms can be set and reset by events in our environment — lightness, darkness, temperature, sleeping, waking and electromagnetism can trigger various responses. "Many rhythms arise from within and are synchronized from without," Halberg said. "A few other rhythms are impressed from without, but persist from within."

Some rhythms can be altered (and even stopped) in animals as well as in man. Halberg worked with scientists in India to change the ovulation of catfish from once to four times a year. (Such a change in breeding might lead to the provision of more food and better diets for millions.)

Halberg was shown that some rhythms can be made to run six or 12 hours ahead of time. He achieved this most dramatically with a special strain of mice subject to seizures at the sound of a bell. He noticed that most of these mice were either little disturbed or had only a minor convulsion when they heard a bell in the morning. A bell rung during the evening, however, frequently killed them. If he turned night into day and vice versa with electric lights for nine days, the mice became subject to lethal seizures during



FRANZ HALBERG is head of the University Medical School's chronobiology laboratories and recognized as the leading international expert on biological rhythms.



CHRONOBIOLOGISTS FROM AROUND THE WORLD gathered recently at Halberg's Twin Cities home. Pictured here are, from the left, Dr. Gunther Hildebrandt from Germany; Dr. Rudiger Hardeland, Germany; Dr. Roland Mertelsmann, Germany; Dr. Erhard Haus, St. Paul; Dr. Halberg and Mrs. Halberg; Dr. Cyrus Jordan, Connecticut; Alain Reinberg, France; Dr. H. Strempel, Germany; and Dr. Ludger Rensing, Germany.

the morning and most tolerant of bell ringing in the evening.

A French speleologist (the scientific study of caves) Michel Siffre, an acquaintance of Halberg's who has visited at the University, has spent several long periods isolated in a cave with no time keeping devices. He could talk with persons who monitored his behavior, but they gave him no information.

In one experiment Siffre lived alone underground for 58 days. He had 57 periods of sleep and waking in an approximately 25-hour cycle. However, Siffre thought he had stayed in the cave 33 days. The reason? Siffre interpreted some of his sleeping periods as after luncheon naps.

Birth control pills are an example of how certain menstrual rhythms can be changed in humans.

The

study of biological rhythms holds enormous medical importance, according to Halberg, for both diagnosis and treatment.

Dr. Halberg explains that while we all have similar rhythms, they are not all the same. Once a person's rhythms are known, there is a clearer understanding of what is normal for that person. Measurements of the pattern of change in simple body functions can provide a picture of an individual's health superior to judgments made by group norms, Halberg said. Widespread use of self-measurement techniques, many of which can be performed by children, would give individuals and their doctors the kind of information necessary to follow and keep track of general health.

Much of Halberg's time during the past 20 years at the University has been devoted to cancer research. His studies with rodents indicate that mistiming may be one of the earliest indicators of cancer. His research shows that cancer cells show a speedy growth that differs in tempo from surrounding tissue.

In another experiment the group at the Chronobiology Laboratories doubled the cure for leukemia while working with mice. Halberg describes this portion of research as a most exciting discovery. "Regretably, funding is not now available to carry such work into the clinic," Halberg said.

Another of his projects involves comparing breast cancer in American and Japanese women. The likelihood of developing breast cancer is about eight times greater among American women than it is among the Japanese. The group at the Chronobiology Laboratories is looking for motivated healthy girls and mature women who would be interested in participating in this research by carrying out self-measurements of rhythmic variables, including donating blood and collecting urine.

"Halberg's work in cancer therapy may one day be widely recognized," Ahlgren said. "In the not too distant future we may well see the use of timing for anti-cancer and other drugs to reduce side effects and increase cure rates. It may even be possible to shift a tumor's sense of rhythm to get still greater benefits from the timing of treatment."

There

are other important applications of biological rhythms for medical treatment, including choosing the best time for surgery — for both patients and doctors.

Unfortunately, there hasn't been enough research and money allotted at Minnesota and elsewhere for biological rhythms to make an imprint on the medical profession as yet, according to Ahlgren. Nor has the Federal Food and Drug Administration (FDA) shown much response, he added.

The inaction of the FDA particularly disturbs him. Halberg has found that organisms can react to harmful influences relatively well during one part of the day and poorly at another time.

On a schedule of light by day and darkness by night mice are most vulnerable at 8 a.m. A poison which would have little effect on the animals during early morning will kill them rapidly 15 hours later. Moreover, the times of peak resistance to different agents are not the same.

Chronobiologists consider the FDA to be clearly not responding sensibly to the development of understanding on biological rhythms, Ahlgren said. They speculate, however, as to whether it's ignorance, indolence or criminal negligence.

But in a more reflective moment Dr. Ahlgren adds, "You can imagine the extra work the FDA would have if it was to pay attention to biological rhythms in the testing of drugs."

The years ahead are likely to bring more attention to biological rhythms and how they can be applied to other areas beside medicine. Many scientists believe learning can be made easier and more efficient by determining an individual's optimum time for learning. World nutrition can be improved by synchronizing our food intake with our systems. Even more effective use of pesticides such as DDT can be made by learning about the organisms man wants to control.

Ahlgren hopes to help initiate more interest in biological rhythms by introducing them into secondary and collegiate level life sciences curricula. Although scientists have recognized the existence of biological rhythms for 200 years, it has only been in recent years that they have begun to draw adequate research. However, very little attention has been extended into the undergraduate and high school levels.

"Biological rhythms are important to the general background of knowledge that any well-educated person ought to have," Ahlgren said. "They are a fact of life and will help us to understand ourselves. The personal health implications of understanding biological rhythms is quite clear. Also, for anyone in the life sciences, cognizance of biological rhythms is terribly important."

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### *The study of biological rhythms holds enormous medical importance for both diagnosis and treatment.*

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"I would like to see high school biology curriculums have a minimum two-to-three week unit. On the college level, there should be undergraduate courses."

Halberg has already spent time with high school students as part of a pilot unit which could be implemented into high school biology courses. He recommends its inclusion in the biology curriculum on its merits not only as a key to improved health care, but also as an educational adventure.

As an educational exercise, chronobiology includes aspects of biology, physics, math and health care. In addition, students can often be helpful in research. In fact, some high school students who have worked with Dr. Halberg have adopted an intense

interest in chronobiology and continue to work on research studies in the Chronobiology Laboratories.

Who know, perhaps some day a chronobiologist may recall that his interest was sparked by a discussion he saw on the Mike Douglas show — David Shama

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Dr. Henry Koffler is obsessed with the future of mankind

An

obsession with the future welfare of mankind motivated Dr. Henry Koffler to accept the position of vice president of academic affairs at the University.

As grandiose as that might sound, Koffler is convincing when he explains how universities are the best hope for mankind. "I genuinely feel the world is running short on time for finding solutions to its many serious and complex problems," he told *The Alumni News*.

"I'm optimistic that we will find the right answers, but in order to do this our universities must be out front in developing solutions."

Koffler obviously believes the University and he can contribute to man's problem-solving needs. "I, Henry Koffler, can do nothing alone, but working with others we can accomplish much, and our University collaborating with the 50 or so other great

schools can do important things," he said. "The University can play a key role. This is why I left Purdue."

Koffler ended 28 years of association at Purdue to become vice president of academic affairs at Minnesota on July 1. Sixteen of those years were spent as department head of biological sciences. Thus, Koffler not only had teaching and research experience as a nationally-known microbiologist, but he also gained a considerable taste for administrative work.

Apparently his reputation is well-known. Big 10 biological science colleagues praise Koffler for building one of the nation's finest biological science departments while at Purdue. Closer to home, University president Peter Magrath has said, "Henry is a distinguished scholar (he earned the coveted Hovde Professorship at Purdue), researcher and administrator. He is respected throughout the country. For example, Secretary of Agriculture Earl

Butz recently told me, 'You've really got yourself someone special in Henry Koffler.' I know his appointment is one of the best things to happen to the University this year."

Magrath believes Koffler's decision to come to Minnesota was a demonstration of faith in the University. "Henry turned down all kinds of offers, including deanships and presidencies, while at Purdue," he said. "His decision to come here indicates his belief he can accomplish those things he believes in."

Koffler says he must provide leadership of the highest quality in "the areas of talent and academic atmosphere" if he is going to be successful in helping the University reach its potential.

"The very guts of the University is talent," Koffler explained. "It's my job, along with others in leadership positions, to recognize talent, to attract it and keep it here."

VICE PRESIDENT HENRY KOFFLER combines a sense of humor with his feeling for people and drive for excellence to work for the future of mankind at the University of Minnesota.



"Then, too, we must have the best academic atmosphere possible. Our standards should allow people to be as creative as possible. This is important not only for the University, but also for the individual. When people leave here they should be better than when they came."

As academic vice president, Koffler will rely considerably on the deans for help in these areas. "It's critical that the deans be top people," he said. "I must work through them, and they in turn must choose outstanding department chairmen. I can't influence specific situations so I must depend on others."

In coordinating deanship appointments, Koffler said he would use the same principles regarding talent that he employed as an administrator at Purdue. He hopes his philosophy will filter down to all levels at the University. "First we must recognize talent, and to do that we must rely on a person's proven performance and the reputation he or she has with his or her peer group."

"Let me amplify what we mean by talent by saying that we at the University should be most interested in individuals who are doing something uniquely different and are recommended by their peer group."

"To know about these people it is essential that the University have contacts in all fields. Then we can know who today's masters are and who the apprentices to today's masters are."

"The surest way to improve your academic talent is to go after proven stars and super-stars. Failing to do that, go after tomorrow's stars. But here one must be particularly careful to set one's standards high. If we say we're after the top graduate students in the country, then let's make sure we recruit only the top 2%."

"Look at as many people as possible and then make them an outstanding offer. Part of this offer has to be money, but I believe the University can afford the best people."

"We want to also make people desirous of coming here because of the academic environment. And this, too, is my job."

"We want high standards coming from this office. I can't create academic programs, but I can resist existing or poor programs. A dean, for

example, who is turned down because of a weak proposal will soon learn what to expect."

It

is clear that anyone involved with academics and Koffler will be expected to give his or her best efforts. "I'm impatient with poor quality," he said. "I'm intolerant of unfilled potential."

Those who are willing to give their best efforts, can expect compassion and loyalty from Koffler. "I respect the dignity of each human talent and try to treat it in a precious fashion," he said. "As long as people can be honest with one another they have the foundation for a sound relationship."

Koffler hopes that those with whom he works will initially respect him intellectually for what he accomplished at Purdue. He feels this kind of academic respect is important to an administrator. "If people will soon learn to respect you, then they may eventually learn to trust you, and that is crucial. There must always be integrity among people who work together."

Koffler's people consciousness and his own personal qualities were very important in attracting Magrath and the University search committee to him.

"I wanted a person who could relate well to others — who could be all kinds of things including honest, sophisticated, intellectually strong, able to make decisions, full of vision, etcetera," Magrath said. "In short, we wanted a people person. This is what Henry is."

"We had five final candidates for the job of vice president of academic affairs, but Henry was our first choice. I only hope we can hang on to him. If we do, his presence will be felt."

Both Magrath and Koffler believe it would be a mistake for Koffler to publicly outline his specific priorities and goals so soon after taking office.

"Henry is not going to be able to do everything A-plus here; no man could," Magrath said. "But he and others at the University will decide what things the school can and should do in an outstanding manner."

"His job is of such a nature that results will not be immediate, but in three to five years the yield will be obvious. I'm confident that his influence on people and programs will be evident within the academic sphere."

Koffler adds, "Decisions to improve any academic unit must be based on an examination of priorities. Improvement for all units is unrealistic because money simply is not available."

Koffler further explains that the University must decide how important, "or critical," an area is and then take measures to insure that its needs are fulfilled.

He also believes that present strengths should be maintained. Nothing is gained, he says, by weakening areas where the University is already strong.

Koffler encourages all units at the University to look positively to the future. Each, he says, must spell out its own priorities and in effect do a certain selling job on the University as a whole as it bids for support. Then, decisions must be made as to which units will receive support.

The academic choices Koffler and others must make do not bother him. "When resources are limited as they are now, it means we must make better uses of those resources," he said. "It should make us more creative."

Nor is Koffler discouraged by the fact there has been considerable recent turnover in his office. He is the first permanent holder of the position of vice president of academic affairs since William G. Shepherd resigned in March of 1973. Harold W. Chase, professor of political science, was acting vice president from the time of Shepherd's resignation until early 1974. Albert J. Linck, on leave from his position of dean of the College of Agriculture, was vice president for academic affairs until Koffler took over.

"These people were familiar with the University and so they were able to do a good job," Koffler said. "Since

I'm coming in from the outside and don't know my way around here it's important that I stay for some time.

"This was my intention when I took the Minnesota job. I believe in long stays as my record at Purdue bears out. It requires time to build contacts and learn the ins and outs of the job. It's going to take me up to three years to get settled."

Koffler said he didn't leave Purdue with the hesitancy that one might expect of a man who had been in one place for 28 years. "It was time for me to move on," he said. "The experiences I had there prepared me for a larger arena in which to apply those lessons."

On

the subject of lessons and experiences, Koffler credits Dr. W. P. Martin, head of the University department of soil science, with stimulating part of his earliest academic interest. Martin taught a class in micro-soil biology when Koffler was an undergraduate at the University of Arizona in the early 1940's.

He encouraged young Koffler to pursue a career in science. Koffler went on to earn a BS degree in agricultural chemistry at Arizona. His other degrees include an MS in bacteriology from Wisconsin in 1944 and PhD in microbiology and biochemistry, also from Wisconsin in 1947.

"I will always be grateful to W. P. Martin for the attention he gave me at Arizona," Koffler said. "We have remained friends throughout the years and he was one of the first people to contact me when I took the Minnesota job."

Perhaps more than most students, Koffler needed the attention of an older man when he was at Arizona. He had lost his father when he was six-years-old, and he and his mother fled their Vienna, Austria, home in 1939 as the Germans began their march through Europe.

His mother decided they would settle in Tucson, a choice which Koffler describes "as most fortunate." Tucson was then a small town (there were only 250,000 people in all of Arizona) and the assimilation process was much

easier for the 17-year-old lad than it might otherwise have been.

"At that time a small town and school were good for me, but believe me I think the best educational opportunities are at schools the size of Minnesota," Koffler said. "This is provided the students are willing to seek out experiences and people, including their professors. The professors won't chase the students at a big school. Unfortunately, some students are too insecure to try a big school where the resources, particularly the brilliant minds found in a large school faculty, are superior."

Thirty-six years after leaving his Austrian home, Koffler retains some of his native accent. Perhaps it's an outward mark of the man's cosmopolitan nature.

"I feel at home in many places," Koffler said. "I suppose I'm much more American in attitude than European. I feel comfortable in this country as well as such places as England, Germany and Austria."

Koffler's hobbies reflect his cosmopolitan nature. He enjoys classical music, art, theatre and ballet.

But there is more to the man than academics and the arts. Koffler likes to jog and enjoys the outdoors. He and his wife Phyllis (they have no children) are looking forward to building a home in the Twin Cities for themselves and their two German shepherds.

Mostly, however, Koffler impresses his visitors as a man interested in people. Even when he frequently paces the floor making a point, one has the impression he is not so much vying for an advantage over his listener as he is trying to emphasize his ideas.

Finally, a sign in Koffler's office succinctly reveals something else which is important about the man. The sign says, "Bald is beautiful." It also says to the perceptive visitor that Henry Koffler can laugh at himself.—By David Shama

MAA

Constituent & Club Activities Calendar

October 11

The University of Minnesota Alumnae Club will hold its Fourth Annual Seminar & Luncheon Meeting on Saturday, October 11, in The Campus Club, Coffman Memorial Union, on the Minneapolis Campus of the University. The 1975 special seminar program will focus on "Surviving Modern Womanhood" and feature some of the area's outstanding activist and professional women. Two concurrent sessions will run from 9:30 to 11:00 a.m. and from 11:00 to 12:30 p.m.

The Annual Luncheon Meeting, which will open with a social hour at 12:30 p.m., will feature presentation of the University's Outstanding Achievement Award to Dr. Jean'ne Shreeve, professor and chairman of the University of Idaho's (Moscow) department of chemistry. She will speak to the gathering on "Atom and Eve."

Reservations for the Annual Luncheon and Seminar can be made at \$7.00 per person, or at \$3.00 if reserving for the Seminar only, through the Minnesota Alumnae Club, 2610 University Avenue, St. Paul, Minnesota 55114, telephone 612/373-2466.

October 17

The Medical Alumni Association's Annual Meeting is scheduled for Friday, October 17, in the Minnesota Ballroom of the St. Paul Hilton Hotel. A 6:30 p.m. social hour will precede the 8:00 p.m. dinner. Guest speaker will be Dr. Charles Edwards, former assistant secretary of the U.S. Department of Health, Education & Welfare.

Earlier in the day, following a noon luncheon, a series of seminars will be available to participating alumni and friends of the University. Seminar speakers and their topics will include Dr. Malcolm McCannel on the eye; Dr. Harry Alcoma on radiology and the EMI scanner; and Dr. Dorothy Bernstein on the psychiatry of transplants. The speaker for the seminar on orthopedics has yet to be announced.

Reservation information for the luncheon, seminars and dinner meeting can be obtained from the Medical Alumni Association at 2610 University Avenue, St. Paul, Minnesota 55114, telephone 612/373-2466.

Congresswoman Schroeder fights on



Congresswoman

Patricia Scott Schroeder '61BA sat at her desk in her office in the Longworth building, Washington, D.C. It was early morning, but she had already seen two men on appointments before mine at 9:30 a.m.

The day before members of the House of Representatives had been unable to override President Gerald Ford's veto of the jobs bill. Pat Schroeder is Rocky Mountain whip in the Democratic caucus.

She was elected to the 93rd Congress from the First District of Colorado (City and County of Denver) and reelected in 1974 with 58.8% of the vote.

On this morning in early summer she was angry and concerned.

"I don't know what they put in those fellows' drinks at the White House. The Democrats and even some of the Republicans go there determined to discuss legislation and to override. Then they change their minds," she said.

How did their actions affect summer jobs and possible disturbances?

"The vote was incredible. I don't understand what it means. Too many Congressmen fail to talk to youth. They go home and play golf with people who agree with them. They don't talk with young people and the average citizen," she answered.

U.S. REPRESENTATIVE Patricia Schroeder, husband James, daughter Jamie and son Scott were a happy group shortly after her 1972 election.

Pat goes back to Denver every other weekend. She does not believe that public confidence in government has improved. She feels that Watergate cynicism is still prevalent.

Besides the jobs bill, she was concerned then over a certain presidential veto of the strip mining bill, one important to her constituents (It was vetoed and that veto was not overridden).

A member of the Armed Services committee, she noted that the average family of three (and one half) is spending \$1,346.85 for defense. The budget

(Continued on page 22)

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For our Sun Break Tour this year we have chosen the Island of Cozumel. Located just 11 miles off the Yucatan Peninsula, it is the newly rediscovered island of the sun. Until ten years ago it was known only to such a select handful as Mexican Grandees, European Royalty, and where Mexican presidents built their vacation homes.

Called the Blue-Green Island because of the vividness of the blue-green colorations of the shimmering Caribbean, it is unspoiled and quiet, with the cleanest air, the purest water. Ranked as one of the five outstanding areas in the world for diving, it is a mecca for skin and scuba divers. Its ever changing azure-blue sea, with white sand beaches and lush tropical nature, charmed the Spanish conquistadores since 1519 when Cortez first landed, then the renowned 18th century Caribbean pirates, and now, with leisurely sense of peace, an island that time has forgotten, just waiting for you.

It provides a complete **vacation** — enjoy breakfast in your air-conditioned room, or on your private terrace overlooking the Caribbean Sea, or under the coconut palms by the pool, bask in the sun on the private SAN JUAN beach, swim in the crystal clear blue sea, or if you prefer, the beautiful fresh water pool. Tennis, boating, sightseeing, duty-free shopping and all water sports are yours to enjoy. Dress is always informal. The weather is delightful with the average temperature in February being 72°. Water temperature year round averages 71° to 73°.

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- A Mexican native tour director, as well as an Alumni Holidays tour director, to assist you in every way — scuba diving, fishing, side trips, shopping, etc.

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Scandinavian ESCAPADE



**AUGUST 12 -
AUGUST 21, 1976**



The dates for the 1976 Fall Tour, the fabulous Scandinavian Escape, are August 12-August 21st. This is earlier than usual because we are including a cruise on the famous Sognefjord, and the Sognefjord closes to cruise ships in September.

The tour is nine days, of which four are aboard the M.T.S. APOLLO, including a day in Oslo, followed by four days in Copenhagen.

The **itinerary** as of now is as follows:

Aug. 12

We fly directly from the Twin City International Airport to Bergen, Norway via a Pan American 707 jet clipper charter. Complimentary, in flight beverage service and first class cuisine. 175 passengers only.

Aug. 13

We arrive in Bergen about 11:00 a.m. where you will enjoy a half day motor coach tour of the city. Bergen is a charming, romantic town, one of the oldest and most intriguing cities of Norway. Its location is spectacular, sitting at the edge of a fjord among seven hills. In Bergen you'll see fine examples of medieval, Renaissance and strikingly modern architecture, the German Quay, the Hanseatic Museum, the Fish Market, Troidhaugen, the home of Edvard Grieg, plus many other unforgettable sights. There will be some time for shopping before you board the M.T.S. APOLLO Cruise Ship which leaves port at 7:00 p.m., heading for the famous Sognefjord. Aboard ship you will enjoy a Minnesota welcome cocktail party.

Aug. 14

We arrive at the Sognefjord at 8:00 a.m. and start the cruise through the deep canyons into the Sognefjord, which is the longest, deepest and most imposing of all Norway's magnificent fjords. We cruise the whole length of the fjord where an optional shore excursion to Gudvangen and Flaam has been arranged. At 4:00 p.m. the ship departs for Oslo.

Aug. 15

A full day of cruising along the picturesque North Sea coastline with a chance to enjoy the fine recreational facilities and sumptuous food of your cruise ship. Arrival time in Oslo is 8:00 p.m.

Aug. 16

You stay in Oslo until 2:00 p.m., so you have time to see the city, which is the capital of Norway. Although founded in 1050, the city retains its ancient tradition, yet it is in the forefront of modern design and development. The city curls around the harbor with wooded hills in the background. Among the things to see are the changing

of the guard at the Royal Palace, the Viking Ships at Bygdøy, the University of Oslo, the Town Hall, the National Theater, the Nobel Institute, the Frogner Park and a host of other sights. An optional shore excursion is offered. At 2:00 p.m., the ship departs for Copenhagen.

You will enjoy the M.T.S. APOLLO and its many comforts. It is air-conditioned throughout, all will have outside, first class staterooms, two lower beds, private facilities, telephone and stereo music. The finest international cuisine is served. There are entertainment and recreation programs of every variety; also, a beauty parlor and barber shop. Your only expenses aboard are the things you purchase at the ship store, the drinks you order and tipping.

Aug. 17-20

The ship arrives in Copenhagen at 9:00 a.m., and you are transferred to buses for a half-day tour of the city — the Town Hall, the National Museum, the Christiansborg Palace, the old fish market, a stop at the Statue of the Little Mermaid, and much more. You then check in at the new Scandinavian Hotel, the top deluxe hotel in Copenhagen, where you will stay for four nights. The hotel is located just two minutes from the Town Hall square and Tivoli Gardens.

From then on you are on your own. A full American breakfast is provided each day, also all transfers, baggage handling and portorage charges, including tips.

An information desk will be manned by English speaking nationals of Copenhagen to take care of your every need — shopping, restaurants, entertainment, side trips, etc.

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Other optional tours include a castle tour to Elsinore and Kronborg Palaces, Hamlet's castle; a Hans Christian Andersen tour to Odense, all at group rates.

Aug. 21

Return by direct flight, Pan American 707 jet clipper, to the Twin City International Airport, same food and beverage service as before.

Special Package Price for Tour — \$899.00 per person plus 10% taxes and services based on two per room occupancy.

Seating on the plane, ship and hotel accommodations are all on first come, first served basis, so make your reservation early.

presented by the Pentagon would raise that amount by 27 percent.

"We presented an alternative defense budget and it was rejected," she said.

Before Pat Schroeder was elected in 1972 she wanted to be on the Armed Services committee. Why?

"I am interested in the families of servicemen. I can remind members of the committee that we need better day care centers and that there are other ways of defending this country than by more armament and more bases."

After the 1972 election she elaborated on her reasons for wanting to be on that committee. Those reasons still stand.

In an interview with Lucia Johnson in *The Christian Science Monitor*, she said, "Defense people say they are protecting women and children. As a woman with children, I want to be able to say there are other things we can do to protect us, like solving domestic problems, crime, drug abuse, for instance. I am interested in military labor-management policies and military criminal justice."

Mrs. Schroeder has a son, Scott, 8, and a daughter, Jamie, 4, and she knows about labor relations. She was a hearing officer for the Colorado department of personnel before her election to Congress. At the same time she taught a class in lawmaking in theory and practice at Regis College in Denver.

From 1964-66, she was field attorney for the National Labor Relations Board covering Colorado, Wyoming and Utah.

There is irony in the fact that she serves on the Post Office and Civil Service committee. Her press secretary sent a background summary to my Bethesda, Md., address before our interview. It was never delivered.

Pat would have agreed that the U.S. mail service is deplorable had there been time to discuss the matter, and when asked about solutions, she might have shrugged her shoulders.

She is chairwoman of the subcommittee on census and population, bringing with her to that job experience as legal counsel for Planned Parenthood of Colorado.

Pat campaigned for reform in government. She was on the executive board of the Democratic Study group, 1972-74, and is a member of the Democratic Advisory Council of Elected Officials. She serves as a member of the Hansen committee (1975-77), which is the caucus clearing reforms: the jurisdiction of committees and major structural reforms.

Social life in Washington does not interest Pat Schroeder. She believes that the study of legislation, work on bills, should be the main concern of a representative of the people. She does not think that cocktails with cronies promote their best interests.

Isolationism is a Washington disease. Congressmen tend to associate only with those who agree with them, at home and in the Capital.

Although

Pat is family-oriented, she has worked ever since she graduated from Harvard Law School in 1964—she met James, her husband, there. And yet she has had no problem adjusting a career to family life. She has a housekeeper in their home in Alexandria, Va., and she stays in Denver with her family, taking the children with her on weekends when feasible.

Her husband is in private law practice in Washington. They spend whatever leisure time they have with the children and have no hobbies.

Pat was born in Portland, Ore., on July 30, 1940. She received her bachelor's degree *magna cum laude* from Minnesota and was elected to Phi Beta Kappa. She was admitted to the Colorado Bar immediately upon receiving her JD from Harvard in 1964.

CORRECTION

Clark Gibb, president of the Clark R. Gibb Company in Minneapolis, graduated from the University of Minnesota with a BBA degree in 1940, not with an ALA degree in 1936, as reported earlier in *The Alumni News*. Mrs. Gibb holds the ALA degree from Minnesota.

Gibb was recently elected national president of the Electronic Representatives Association.

Does she remember teachers or students at Minnesota who may have influenced her? She had an interdisciplinary major in history, political science and philosophy. She named Mulford Q. Sibley in political science and John Wolfe in history.

Bonnie Bloomer Baker, President Ford's niece, was her roommate at Minnesota.

Later

in the day, on the floor of the House, Pat Schroeder was very busy conferring with men on the housing bill. There are 19 women in the U.S. House of Representatives, five having been elected with Pat in 1972 and reelected in 1974.

She is small, very pretty and a very feminine feminist. Visitors to the Smithsonian's exhibit, "We the People," will find her pictured with leaders of the first women's political caucus at the Rice Hotel, Houston, Texas, in February 1973. Her associates were Gwen Cherry, Betty Friedan and Liz Carpenter. Her photograph is in the section of the exhibit on woman's suffrage called "The Fight Continues" for women's rights.

Pat concluded our interview by recalling how she feels about a strong nation.

"A strong nation does not come from armed defense. It comes from a strong economy. Here we are totally at peace and yet we have the largest budget for making war we have ever had. This country is very vulnerable."

By that she did not mean "to attack from outside."

She is concerned over the proliferation of nuclear plants "for peaceful purposes" in the world.

She is concerned over the availability of nuclear material in this country.

"A gang of kids can take over a power plant under present circumstances. We are a trusting people. We don't believe the unbelievable can happen to us," Pat Schroeder said. — Wilma Smith Leland.

University president outlines future federal aid needs

University

President C. Peter Magrath testified in Washington, D.C., this summer for the omnibus higher education bill and for a measure to allow landgrant universities to aid world agricultural development.

He joined other leaders of higher education in Minnesota in appearing before a Senate subcommittee on education in favor of federal money for student aid and basic research.

Federal support has become a major source of funds for the nation's research, Magrath said. "The eminent research centers in our universities cannot live without it."

"At times, it's a little difficult to live with it," he said, "but whatever the temporary difficulties, we need the federal government and the government needs us."

Not every research project has a demonstrable payoff when it is undertaken, Magrath said, but a number of examples at the University of Minnesota provide evidence that such research can have long-range benefits.

One example, he noted, was the work of Alfred Nier, a physics researcher who in 1939 was conducting ultimately important research on atomic energy despite his view that it would never be of much practical value.

Magrath also cited Richard Jordan, a professor of engineering, whose 20 years of basic research in solar energy have only recently been recognized as having practical value.

"Certainly not every research project has the demonstrable payoff that these two examples involve; many have no payoff at all in a practical sense, and many are in fields where payoff can never be measured.

"But it must be concluded that the total research support provided by the

federal government has paid for itself many times over, both in terms of sheer economics and in the immeasurable improvements in the quality of life," Magrath said.

The federal government has also become an important source of student aid, he said, but it should increase its institutional support to cover associated costs.

There also remain many unmet needs in the area of student aid, Magrath noted. Loans have often placed students too far in debt, particularly in high-cost programs.

Minority students in the University's Medical School have been borrowing increasing amounts each year, with the class of 1977 borrowing at the rate of \$7,233 per minority student per year, Magrath said.

"This is a fairly unsophisticated analysis, but if indebtedness for the class of 1977 students stays constant each year — which it surely won't — the four-year average indebtedness will be \$28,932, and I would assert that this is unacceptable and unwise.

"What the \$29,000 figure tells minority students is that they absolutely cannot fail, lest they find themselves liable for a huge debt without the means to pay, and that they might as well not make plans to go into practice in the inner city or on a reservation, since they'll need a lucrative private practice to pay their debts," he said.

The key, according to Magrath, is to find the proper balance between student work study programs, grants and loans.

"The great majority of our students hold part-time jobs, usually about 75 percent," Magrath said.

"We have argued consistently that a mixture of grants and self-help programs of employment and loans is the best way to provide both access and motivation, and under normal conditions our strategy at Minnesota has been to favor an aid package that favors grants and scholarships in the initial years, with increasing reliance upon employment and loans in the later years."

Still, not enough money is available for student aid programs, he said, "and this year's unmet need of \$2 million is predicted to increase to somewhere between \$6 million and \$8 million in the next two years."

In his other Washington appearance, Magrath told Senator Hubert H. Humphrey's subcommittee of the Senate Foreign Relations committee that the nation's land-grant colleges and universities could be "the keystone" in agricultural development efforts.

The proposed Famine Prevention and Freedom from Hunger Amendment to the Foreign Assistance Act would provide funds for American agricultural colleges to assist in establishing similar institutions in developing nations.

Magrath called the amendment a "landmark piece of legislation."

"It moves America's agriculturally involved universities directly and firmly into the international agricultural arena," he said. "It gives these institutions flexibility for dealing with many complex problems, and it recognizes scientific research, resident teaching, and extension as central to agricultural progress.

"It is an essential step in securing an eventual adequate world food supply," Magrath said.

FACULTY PROFILE:

Roy A. Schuessler

He is dedicated to young people

Roy

Schuessler would argue with those who claim that love comes only in the spring. Schuessler, 64, is back with his "first love" this fall, teaching voice full time at the University.

Until last spring Schuessler was chairman of the music and music education departments. But he felt 10 years as an administrator was enough and now looks forward to spending his last four years at the University teaching.

The change is fitting because Schuessler's desire to teach has always been paramount. It inspired the Wichita, Kan., native to sing professionally following his education at Northwestern and Chicago Universities.

"I sang oratorio, concert and chamber opera," Schuessler said. "Much of it was in performances of historical significance. For example, we sang the first American performance of a Buffo, a very funny kind of comic opera by Telemann.

"I needed a professional career to prepare myself to teach others. It's helped me to relate to my students.

"The academic life has always held great appeal because of my desire to work with young people. I just can't imagine an association without them. Teaching is a great life because it combines service with training."

Schuessler has performed professionally during much of his 29 years at the University. Until 1968 he sang the "Star-Spangled Banner" and "Hail, Minnesota" at all commencements. For many years he made appearances with such community groups as the Minneapolis Symphony, St. Paul Opera and the Schubert Club.

"I can recall many times during my early years at Minnesota teaching from 8 a.m. to 6 p.m. and then taking off for a performance," Schuessler said. "But in recent years I just haven't had the time. And, no, I'm not contemplating any comebacks."



In addition to his teaching and administrative duties, Roy Schuessler has performed professionally during most of his 29 years at Minnesota.

However, Schuessler still does make one public appearance each year. He's always present at the Alumni Association's Annual Dinner meeting to sing "Hail, Minnesota."

"Roy is a great friend of the University and the Association," executive

secretary Ed Haislet said. "He's always ready to do anything which will benefit Minnesota. A few years ago he donated his time to sing 'Hail, Minnesota' for a record album the Association puts out."

Schuessler's enthusiasm for the University has been charged from his first days on campus. "I had a choice

between Minnesota and two other schools when I got out of the Navy in 1946," he recalled. "I've never regretted my choice. Minnesota is a great school and wonderful place to work.

"I've enjoyed my associations with all kinds of people here; not just those in music. Some of my fondest memories are lunching in the Campus Club where I had a chance to pick some of the best brains in the world. I've tried to encourage young people in my department to join the Campus Club and get the education I've gotten. There is so much we can all learn from one another."

Certainly

people interested in voice can learn much from the soft-spoken, reflective Schuessler. Robert Lauden, University professor of music history, agrees with others who describe Schuessler as one of the country's great voice teachers.

"Roy has terrific understanding of the singing voice," Lauden said. "He has a keen musical ear and a real faculty for analysis of vocal technique. Once Roy discovers a problem he shows patience in correcting it. He won't force anything too fast on the student and always strives to let he or she accept suggestions because they want to."

Schuessler's expertise can probably be attributed to his thirst for knowledge. "When I was a graduate student in Chicago I was associated with the illustrious Chicago Singing Teachers Guild and I had a chance to learn from some of the best minds available," Schuessler said.

"One of the things I learned was not to work with a closed mind. Teaching has always been experimental with me. During my years at the University I've collected a mass of material which I hope some day to put into a book for young voice teachers. Perhaps I can get to the book when I retire."

And what will Schuessler write? First, he will probably tell teachers that the natural principles of voice are most important. "By that I mean that the

natural breath support, vocal placement and other principles which young children inherently have are most important to the development of young singing voices," he said.

"Unfortunately, kids lose that by junior high because they often get the wrong kind of instruction. Learning to sing correctly is getting back to what youngsters had in the beginning. Trying to rediscover the instincts we all have at birth before it's all covered up with different kinds of fakery."

Schuessler would remind teachers that all voices are different and to some extent must be treated individually. And in his book he would also bury the long-standing myth that private voice lessons are superior to group.

"Students of all ages can profit by hearing the voice problems of others," Schuessler said. "Many voice teachers wouldn't agree, but it's really a creative experience for students to learn from one another."

Schuessler has long been active in the professional development of music teachers. He was a charter member in the National Association of Teachers of Singing and later served as president of the Minnesota Music Teachers Association.

Schuessler points to the former as being particularly helpful in opening communication channels between music teachers. "Private teachers especially have a tendency not to air their feelings and methods," he said. "Through the National Association of Teachers of Singing we have become better acquainted through media, workshops and conventions."

When

Schuessler retires he hopes to run clinics for music conventions and high schools. This extension of himself and the University beyond campus to other communities is something which colleagues hail as one of his major accomplishments as an administrator.

"Roy is such an expert in the area of voice that it would be easy to lose sight of his accomplishments as an administrator," said Charles Byrne, assistant to the chairman. "One of his greatest accomplishments has been to extend the music department throughout the

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SCHUESSLER and his wife Elaine make their home on Long Lake near New Brighton, Minn., which started as a one-room cabin. They have been building on it and caring for it with an affection akin to Schuessler's for the University.

state, and particularly to the cultural parts of the Twin Cities."

Schuessler is proud of the High School Musicians Project which each summer has brought some of the most talented high school musicians to campus for study.

"We staff it with our best people and it's been a great learning experience for all," Schuessler said. "Because of this project we've been able to keep some of the finest young talent right here at home. It's been state projects like these, along with cooperation from our local cultural centers, which have helped upgrade the image of our department."

Lauden and Bryne also hail Schuessler for the academic strides made under his leadership. A Bachelor of Fine Arts degree was initiated in the music department, as was the Doctor of Musical Arts. Of the latter Schuessler said proudly, "Now we can take professionals all the way through."

Equally important have been key teaching appointments which have enhanced the department's reputation, particularly in Minnesota where the department is recognized as a leader.

These accomplishments and others have been spurred by the department's objectives. "Certainly our first mission must be to serve those students who want to fashion careers of various types out of music," Schuessler said. "But our staff has other objectives as well.

"We should never forget the needs of the non-music major. Because of budget limitations we haven't been able to meet the student demand, but we've tried to make as many courses available as possible and they've always been taught by our most qualified staff members."

There are other "missions" for the department to accomplish, according to Schuessler. He would like to see a general practitioner's degree initiated. Such a graduate would fill certain voids in the community which he believes now exist.

"Senior citizens are a very good example of a group which could benefit from musical services," Schuessler said. "I can foresee an individual who would visit several nursing homes each week getting older people musically involved.

"Senior citizens are a very neglected group and it is the responsibility of the University to train people to meet needs like this.

"Minnesota is a great place to try innovative kinds of things in music and music education because of its potential resources and because it is surrounded by one of the very best cultural communities in the country. Our department should be as good as the metropolitan arts community. I'm confident that ultimately it will be."

But Schuessler, of course, is no longer in administration and any pioneering to be done now must be left to his successor, Dr. Lloyd Ulten, and others. Schuessler will be more than content to devote his energies to teaching during the next four years and beyond.

After

he leaves the University he talks about opening a studio downtown. That would keep him happy — along with his other pursuits, including his correspondence with friends and his hobbies.

THE FUTURE OF MOTHERHOOD

The title sounds like a TV documentary. Perhaps it has been. Perhaps the book's author, Jessie Bernard '23BA has been a guest on the talk shows. If so I have missed them. Or perhaps the shows' mentors have not caught on to *THE FUTURE OF MOTHERHOOD* (Dial Press, \$10).

Dr. Bernard is professor emerita of sociology at Penn State University. She is a leading authority in the field of family relations, the author of such books as *American Family Behavior*, *The Sex Game* and *The Future of Marriage*.

With such credentials, Dr. Bernard takes an historical look at motherhood and then at its present condition. In doing so she examines the changing role of women in society, its effect on children, on the women themselves. As the jacket of the book says, she is not against motherhood; she is *for women*.

She has a good word for the non-mother and her rights to help limit population. She looks at the woman moving out of home and into work, a career, a profession, the price she pays and the bill of goods she has expected to be delivered so that she can play the two roles — child care centers. Hopefully, Dr. Bernard believes that it will be easier for the professional woman to find the kind of husband needed to help integrate her mother-worker roles. She believes that such a husband will contribute more than financial support. She also believes that the working mother can do more for her children as earners than she can as a homebody.

Schuessler has taken several sabbatical leaves. The first was in 1953 to coach German Leeder and English art songs in Copenhagen, Munich and London. On another sabbatical he studied European boys' choir schools. Schuessler corresponds with the many friends he made overseas.

His hobbies include reforestation of several acres of land he owns near Mille Lacs, Minnesota. In addition, he still likes to do carpentry work and other chores on his New Brighton home on Long Lake.

"It's the only home we've had since we moved to Minnesota," Schuessler remembers. "When my wife Elaine and I moved in it was a one bedroom cottage. We've been building on it and caring for it ever since. I guess I feel a lot of the same affection for that home as I do the University." — David Shama

The book may be controversial at several points — when Dr. Bernard writes of medical, pharmacological and psychological technologies, the politics of motherhood, including abortion and communes, some readers may take issue.

From the poetic quotations about motherhood which are the opening lines of the book to her conclusion that the world will be better only when the strengths of both men and women are involved in motherhood, Dr. Bernard presents a scholarly treatise in a thoroughly readable style.—WSL

PRELUDE TO THE FALL

With the fall of Phnom Penh in April, Sheldon W. Simon's ('58AA '64PhD) book, *WAR AND POLITICS IN CAMBODIA: A Communications Analysis* (Duke, \$7.50) is of especial interest.

Pointing out that "the academic analyst of contemporary international politics is something of a ship's captain trying to guide his craft safely between the Scylla of subsequent events which may render the analyses of earlier happenings irrelevant, and the Charybdis of his choice of analytical tools, which may foreclose explanations that are later seen to be appropriate," Simon indicates that his "analyses are vulnerable to the passage of time, but that very passage of time may show both the author and his reader how and why his projections succeeded or failed."

Simon's purpose in writing the book was to show the reader "the major actors — what their goals are, what each is willing to settle for" and thus help him to understand the positions of the participants as time and action move forward.

Professor Simon did not have access to proper officials in the involved states and movements. His data on American involvement were derived from the Department of State *Bulletin* and from the *New York Times*. For the other actors, he used the *Asia and Pacific Daily Report* and the *People's Republic of China Report*, published by the Foreign Broadcast Information Service.

The book examines answers to four questions used as the basis for the research problem: "1. How did each of the major protagonists (the Lon No government and the RGNUC-Royal Government of the National Union of



Cambodia) reconcile its claims of independence with its client status, toward the United States/Republic of Vietnam, South Vietnam, or Democratic Republic of Vietnam, North Vietnam/China? 2. What roles did the mentor states (U.S./RVN and DRV/China) play in affecting the terms of both war and potential conflict settlement? 3. Did the goals of the actors change over time and developing circumstances, as for example the shift that might be discerned in American goals in support of the Vietnamization policy, which initially justified U.S. intervention, to a commitment to the maintenance of a noncommunist Cambodian government? 4. What were the underlying assumptions of each actor about the 'adversaries' goals and staying power? Is there any evidence that the conflict could be moved from a zero-sum to a cooperative-sum encounter?"

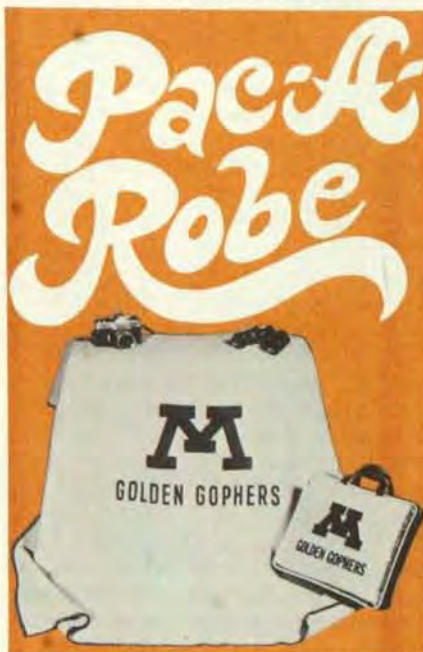
China's aim was to have Indochina balkanized. North Vietnamese supremacy was acceptable provided it secured the removal of the United States' forces and influence. Communications seem to have established the fact that Prince Sihanouk followed the CPR goal, but that his dependence upon North Vietnam left him little influence in his own liberation movement. For the United States, the entry into Cambodia was a disaster since it drew war into the country, destroyed any possibility of its remaining neutral.

The research concludes with the cogent sentence, "And neither side in the Vietnam conflict was likely to permit the restoration of peace in Cambodia before a total settlement of hostilities in the peninsula." As this is being written the 1973 prediction has become fact.

Professor Simon has spent some time in Southeast Asia. He was in Cambodia as late as the summer of 1973.

He is associate professor of political science at the University of Kentucky.—WSL

THE ALUMNI



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THE MANAGEMENT TACTICIAN

Edward C. Schleh '38BA, president of Schleh Associates, Inc., business analysts in Palo Alto, Calif., is author of a second book on business management. This one is *THE MANAGEMENT TACTICIAN: Executive Tactics for Getting Results* (McGraw-Hill, \$10.95).

Schleh was disappointed that executives had not put into action theories set forth in his first book, *Management by Results*. He concluded that there was a poor understanding of the systems approach he had proposed.

This time he has used real life examples from businesses with which he has worked on management problems. He has tried to cover the many facets of management difficulties: team action in the right direction; self-coordination; personal satisfaction from results; proper use of management members, among them.

The book is fast-reading and should be a how-to-do-it manual for executives before they get into trouble and for would-be-executives in schools of business.—WSL

THE UNIVERSALITY OF PHILOSOPHY

Arthur L. Herman '70PhD, professor of Asian philosophy at the University of Wisconsin-Stevens Point, has co-authored and edited *PROBLEMS IN PHILOSOPHY: WEST AND EAST*.

The introductory anthology, published by Prentice-Hall, Inc., offers a unique distribution of universal philosophic thinking. No other book like it has such an even balance of selections from both eastern and western philosophers.

"We wanted to stress the universality of philosophy, showing it to be an activity engaged in by thinkers in all traditions rather than restricted to peoples of the West," Herman said about his work.

The editors' unusual approach provides dynamic reading from the writings of eminent scholars throughout history on a variety of thought-provoking topics. Selections help the reader explore such questions as: Is the universe moral?, What makes actions right?, What is knowledge?, and Does God exist?

Herman said many of the readings

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were chosen to demonstrate that there are solutions to philosophical problems. "Perhaps not ultimate or final solutions, but ones at least worth thinking about and poring over," he explained. "And we hope the book shows that we in the 20th century are not alone with our philosophic concerns, that for thousands of years men and women from all over the world have spent energy and time being concerned with problems that we are still concerned about today."

The text is divided into four main sections including metaphysics, epistemology, theology and ethics, with each of the problems introduced by the editors in an informal explanatory style. All of the 64 readings have prefatory notes describing the work's origins and philosophic purpose as well as biographical data on the author.

"In a sense," Herman said, "our book might be called a text in comparative philosophy — one which uses selected readings from the foremost philosophers of both the Eastern and Western traditions to introduce the student to the basic problems of philosophy."

Both Herman and co-author C. T. Blackwood worked on the book while serving as New York State Faculty Scholars in Oriental Studies.

Herman has received many honors and awards including a Danforth Teacher Grant, a Ford Foundation Overseas Training Fellowship, and an Excellence in Teaching Award from UW-SP.

Two more of his books are slated for publication shortly: *The Problems of Evil and (East) Indian Thought and An Introduction to Indian Thought*.

Previously, he edited and translated some Indian folk tales from Sanskrit, and translated and wrote a critical commentary of "The Bhagavad Gita." His "History and Practice of Indian Yoga" are on cassette tapes.

Herman will be spending the spring quarter next year at the University of Minnesota as Visiting Professor of the Humanities.

PERSISTENCE WINS

Senior citizen power is not limited to the field of economics and politics. Nor is conflict of opinion and sentiment a matter of preservation of historic places

in villages and cities. Ralph McInerny, a native Minneapolitan who took his MA degree at the University, is professor of philosophy at the University of Notre Dame. In *GATE OF HEAVEN* (Harper & Row, \$8.95) we get acquainted with a number of retired priests living at Porta Coeli, a pleasant home where they have little to do except reminisce, bird-watch and deplore present conditions. They have brought in the prejudices and the disappointments from their various activities in the world beyond the confines of the home built for them by a generous donor who lives in the small Midwestern town nearby.

The immediate focus of conflict is the proposed demolition of the first building erected for the training of priests belonging to the small Society of St. Brendan, Little Sem. The site is to be used for a girls' dormitory in the now thriving college which has almost replaced the seminary. Foibles of old men, their own concern with death, centered on the death of their Founder, are told with sensitivity and humor in the novel.

Dr. McInerny has produced a second novel, the first being *The Priest*, well-written, sometimes very witty and entirely acceptable as a gift for Aunt Mary whose reading is limited because she does not like sex and violence. Hesitate before you give it to other aging relatives and friends. They may see themselves and resent your generosity.—WSL

PLANNING SUCCESSFUL CAREERS

A unique, systematic and personalized approach to the careful planning and selection of a career is provided in Edward L. Adams, Jr.'s '51PhD *CAREER ADVANCEMENT GUIDE* (McGraw-Hill, \$19.95).

Designed as a multifaceted tool for a more effective use of the reader's time and talents in shaping a career, this *GUIDE* has been constructed particularly for mature, working individuals, instead of focusing on high school or college students. It encourages users to review past performance regularly from a constructively critical viewpoint, and to design creative and experimental approaches to future actions.

The individual is first led through a process which assists in the accumulation and assessment of the various types of information relevant to that user's life and career conditions. The reader is then led through important stages of decision making, action planning, and progress review to develop a

personal blueprint for career satisfaction and accomplishment.

In addition, the workbook discusses professional career analysis and makes recommendations for selecting such resources, aids on-the-job performance by helping individuals organize their time more effectively, and encourages users to begin building systematic records of their qualifications, experiences and progress in several areas.

Partner in the firm of Adams, Madden and Moody, Ann Arbor, Mich., and president of Achievement Resources, Edward Adams has acted as consulting psychologist to the management of many types of organizations, including manufacturing companies, public utilities, television stations, police departments, and as career counselor to individuals. Adams has also contributed articles to numerous management periodicals.

ECONOMICS FOR THE CONSUMER

An economics textbook written for the consumer has been co-authored by a University of Minnesota-Duluth (UMD) professor, Dennis L. Nelson '70PhD, associate professor and head of the UMD department of business, office and economics education.

ECONOMICS: A PERSONAL CONSUMER APPROACH (Reston Publishing Co., Prentice-Hall) seeks to fill the gap between abstract economic theory and the discussions of labels, laws and procedure.

"It is intended to develop skills geared toward making meaningful day-to-day choices and understanding the world around us," according to its authors.

The text can be used as a foundation for beginning economics courses which require emphasis on a general introduction to economics, consumer economics or personal finance. It uses examples from real-life situations to explain income taxes, investments, stocks and bonds, savings, economic systems and decision-making.

Nelson came to UMD in 1964 as an instructor in economics. He was named head of the department of economics in 1972 and head of the department of business, office and economics education in 1974 as a part of the new School of Business and Economics.

A graduate of Little Falls (Minn.) High School, he received his BS degree from St. Cloud State College (Minn.) and also an MS degree from Minnesota. He previously taught at high schools in Two Harbors, Fosston and Waterville, Minn.



CAL AND CASEY are great pals. The Gopher coach enjoys showing Casey at Upper Midwest dog shows during the summer. The two also regularly jog with one another.

gopher tales

By David Shama

"Save your money for Pasadena. We're going to have the best football team here in 15 years."

Gopher football coach Cal Stoll recently made that statement somewhat in jest, but he's more serious about the quality of the 1975 Gophers than many "experts."

"I know a lot of people don't expect too much from us after last season (2-6 in the Big 10, 4-7 over-all), but we've an opportunity to be the best team in my four years at the University," he said. "We can be a good team. One which can take the field each Saturday with a chance to win."

Stoll doesn't believe he's adding any pressure to himself by taking an optimistic approach. "If you don't win football games people criticize the coach no matter what you say before the season," he said.

For the Gophers to fit Stoll's definition of a "good team" Minnesota must be able to play competitively with perennial powerhouses Ohio State and Michigan, and potentially strong Michigan State and Wisconsin. Stoll insists that could happen, and adds that other teams have the same opportunity.

"The Big 10 is becoming more closely bunched," Stoll said. "I really believe I'll be proven right on that this fall."

In the past eight years Minnesota and the Big 10's other also-rans have been unable to handle Ohio State and Michigan. Stoll, for example, has fared quite well against other conference competition. His Big 10 record is 12-12 versus all teams, but remove the Michigan and Ohio State defeats and the mark is 12-6.

Stoll's optimism for '75 is based on this being the first fall that every class on the roster was recruited by his staff. The result: "more good football players in more positions than ever before."

The first place to take heart, according to Stoll, is on defense. "People may not realize this but I'm a defense-oriented coach. Last season we were near the bottom in league performance and statistics defensively. This year we'll be much better."

Defensive discussion can begin with 6-foot-4, 247-pound senior tackle Keith Simons. The Gopher captain has

started every game since his freshman year and can finish up in grand style by being an all-American, according to the coaching staff.

The other tackle spot could be filled very capably, or it could be a concern. Junior tackle Mark Slater's future has been clouded by back trouble, but if healthy he could be outstanding. Soph Steve Dowzak, 6-foot-6, 260-pounds, is Slater's replacement.

The noseguard position will likely be won by junior Steve Midboe. The 6-foot-4, 240-pound Midboe will probably be backed by juniors Pat McCullough and George Washington.

End prospects number at least four, including a "Christmas present." Seniors Jeff Smith and Ron Wrobel and sophs Stan Sytsma and Mark Merrill will "provide the best quality and depth in four years," Stoll said. Merrill is the "Christmas present," meaning he quit football in 1974, but returned for the coming season. "He can be very good," Stoll said.

Senior linebacker Steve Craine is questionable because of a knee injury. The leading candidates for the other linebacking spot — are sophomores Desi Williamson, Steve Stewart and Mike Hunt. "They can all be players," Stoll said. "Our linebacking performance is a matter of how quickly they mature, plus having good fortune on Craine."

Stoll has three athletes in the secondary who any Big 10 coach would welcome. Senior free safety Doug Beaudoin is a candidate for post-season honors while junior strong safety George Adzick and soph cornerback Bob Weber are exceptional, too. Soph Tommy Ash may get the nod over senior Dennis Cummings at the other cornerback.

"Absolutely the best secondary since I've been at Minnesota," Stoll said. "We can play the run or pass and we've got depth."

There's no question in Stoll's mind that the defensive unit can be the best he's had and he makes the same sort of statement about the offense. However, the conviction may not be quite so strong about the offense since the 1973 team set several offensive records.

The Gopher offense will abandon the run-oriented veer-T for a more flexible multiple offense which may be easier to pass from. Stoll doesn't promise more passing than 1974 when his quarterbacks threw 132 times, completing 51 and had 9 intercepted. But he does say that the '75 Gophers have better pass-catching material than in any previous season.

Junior quarterback Tony Dungy, hobbled by knee and shoulder injuries last fall, can improve on his 41% passing average and 417 yards rushing, according to Stoll. But whether he'll have the opportunity depends on his success in warding off the challenge of soph quarterback Marc Trestman whom Stoll believes is an excellent prospect. Based on the spring game, "grandstand quarterbacks" rated Trestman a superior passer to Dungy.

"The thing that really pleases me about our quarterback situation is that for the first time in my four years here I've got all my quarterbacks (5) back," Stoll said.

The receiving positions are at least two-deep in capable pass catchers. Flankerback will probably be between sophomore Pat Crist, a red-shirt tight end last fall, or junior John Jones, a converted fullback. Seniors Scott Puchtel and Bill Sims may well alternate at tight end, according to Stoll. Vince Fuller, a senior, returns at split end, but faces a stiff challenge from juniors Ron Kullas (probably the best hands on the team) and Mike Jones.

Both in formation and style the Gophers will be a more power-oriented team than in recent seasons. Soph fullback John Mathews was the "most pleasant surprise of the spring," according to some observers. He is capably backed by junior Greg Barlow. Stoll will mix elusive junior Buddy Holmes, senior J. Dexter Pride and junior Sam Brady at tailback to get the right blend of speed, power and all-around ability.

The interior line appears to be a concern. The best blockers are probably the tackles, senior Art Meadowcroft and soph Jeff Morrow. Seniors Brien Harvey and Roger Plath may start at guards with either Kevin Naddy, a converted tight end, or Dave Nolander at center.

Altogether the Gophers have five starters returning on offense. They are quarterback Dungy, tight end Puchtel,

tackle Meadowcroft, guard Harvey and split end Fuller. On defense the Gophers return six starters. They are free safety Beaudoin, strong safety Adzick, cornerback Weber, linebacker Craire, end Smith and tackle Simons.

Stoll rates his specialty teams and kicking specialists as good. Senior punter Frank Mosko returns after averaging 37.8 yards a punt last year. Side-winder Brian Kocourek replaces the graduated Steve Goldberg as the placekicker.

Perhaps indicative of the Gophers new found strength is the reduced pressure on incoming freshmen. "We think we have a very good group coming in, but we're looking for them to help make us deeper and we're not putting them on the spot to be starters," Stoll explained.

In the final analysis a team's won-lost record is often determined as much by its schedule as anything else, and the first half of the Gopher schedule is perhaps the easiest in 30 years.

The Gophers open at Indiana on September 18. The Hoosiers were 1-10 a year ago and even though they are expected to be improved they shouldn't be out of reach for Minnesota. Then comes non-conference home games against Western Michigan, Oregon and Ohio. The Gophers swing back into the Big 10 with a road game at Illinois. After that the Gophers will probably need to be at their best because they host title contender Michigan State. In the following weeks Minnesota is at Iowa, home against Michigan and Northwestern, at Ohio State and home against Wisconsin.

With the Big 10 now allowing four teams to participate in bowl games, the whole conference is looking forward to the season.

Happiness for Minnesota might be a respectable 7-4 record and a bowl bid. It wouldn't be a ticket to Pasadena, but it would be a trip somewhere out of town.

Minnesota names Jim Dutcher new basketball coach



NEW MINNESOTA BASKETBALL coach, Jim Dutcher, faced the Twin Cities media following the announcement of his appointment by Athletic Director Paul Giel on Thursday, August 21. Dutcher is the former assistant coach at the University of Michigan.

Minnesota's new basketball coach, Jim Dutcher, may soon establish himself as a favorite with University alumni.

Athletic Director Paul Giel announced Dutcher's appointment at a news conference on Thursday, August 21. At that conference Dutcher said he looked forward to meeting University alumni and working with them.

"I'll be available to speak to alumni groups," he said. "I consider it an important part of my job. I hope our alumni will support our program."

Alumni officials at the University of Michigan report that Dutcher was very interested in alumni work at

that school when he served as assistant basketball coach. They say he impressed alumni there with his sincerity and interest in basketball, the University and alumni.

Michigan athletic director Don Canham said Dutcher was the best assistant coach in the Big Ten. "If John Orr (Michigan head coach) decides to retire while I'm athletic director, I'm coming after Dutcher," Canham said.

Dutcher, who was the highest paid assistant in the conference, is credited by many coaches with reviving Michigan basketball. During his

three seasons as an Orr assistant, the Wolverines had a 52-26 record, including a Big Ten co-championship and two NCAA appearances in post-season tournaments. Prior to Dutcher's arrival, Orr was struggling and some news reports said he was under pressure to resign.

Giel said Dutcher was highly recommended to himself and the University search committee by several sources, including Iowa athletic director Bump Elliott. "Bump said that if he were looking for a coach he would have to look very hard at Dutcher," Giel said.

Dutcher signed a five-year contract at \$25,000 a year. He is the fifth basketball coach at the University in 10 years. The others were John Kundla, Bill Fitch, George Hanson and Bill Musselman.

Musselman ran out on the Minnesota job when the NCAA sent a letter to the University with about 100 questions and allegations of violations of NCAA regulations. He is now head coach of the San Diego team of the American Basketball Association.

The University has until October 1 to conduct its own investigations and reply to the NCAA charges. Penalties against the basketball program could result, including team ineligibility for post-season play and reducing the yearly allotment of scholarships from six to three.

Dutcher said he would be more concerned about the latter sort of penalty than the former. "Winning the Big Ten is the main thing," he said.

An exodus of players, topped by star forward Mark Olberding, will shorten squad talent and depth, but Dutcher still gives the Gophers a chance to be in the Big Ten race. He said the Gophers would look for the fast-break on offense and "play aggressive man-to-man defense. Sometimes full court pressing."

Prior to joining the Michigan staff, Dutcher was head coach from 1958-1966 at Alpena (Mich.) Community College and from 1966-1972 was head coach at Eastern Michigan. He had six teams in post-season tournaments and compiled a head coaching mark of 231-120.

Dutcher, 42, and his wife Marilyn are the parents of four children, son Brian, 15, and daughters Diane, 14, Judith, 12, and Barbara, 9.

Bachelor's degree in social work is accredited

The council on Social Work Education, a national accrediting agency, has granted accredited status to the School of Social Work's bachelor of science program.

The degree provides concentration in social work courses and intensive senior year field experience, along with other special learning opportunities and elective courses.

Most of the program's courses are open to nonmajors. A bachelor of arts degree in social welfare provides "a focus on broad issues in human services."

Cancer researcher wins Watson Award

Dr. Leo T. Furcht of Coon Rapids, Minn., has received the 10th Watson Award for outstanding research accomplishment by a physician in graduate clinical training at the University of Minnesota.

An assistant professor of laboratory medicine and pathology, Furcht is a 1972 graduate of Upstate Medical Center, State University of New York, Syracuse, and has done all of his post-graduate training at the University.

His cancer-oriented research involves studying the mechanisms within cells which control proliferation. Using an electron microscope, which magnifies cells many thousands of times, Furcht has shown that the membrane structures of normal and malignant cells are different and he is now trying to change "bad" cells into good ones by use of drugs.

The \$500 prize, which has been given only 10 times since its inception 13 years ago, is named for Dr. Cecil J. Watson, emeritus Regents' professor of medicine at the University and senior consultant to the Abbot-Northwestern Hospital teaching unit in internal medicine.

The award is sponsored jointly by the Minneapolis Society of Internal Medicine and the Minnesota Medical Foundation.

Two professors named to national academy

University Professors Richard C. Jordan and Rutherford Aris have been elected to the National Academy of Engineering.

The two were among 86 American engineers named recently.

Jordan, who received a PhD from the University in 1940, was named by the acting president of the academy as a "pioneer in research on energy conservation through climate control, on solar energy" and as an international leader in engineering education.

He is head of the University's school of mechanical and aerospace engineering and the department of engineering.

Aris, who earned a PhD in mathematics and chemical engineering from the University of London in 1960, was cited for "contributions to the literature of chemical engineering on control theory and optimization. He is acting head of the University's department of chemical engineering and materials sciences.

Though both men are listed in *Who's Who in America* Aris may have the distinction of being the only person listed twice. He recently disclosed that he is also listed as "Aris Rutherford."

UMD's Dental Hygiene program is accredited

The University of Minnesota-Duluth's Dental Hygiene program has received full accreditation from the Commission on Accreditation of Dental and Dental Auxiliary Educational Programs of the American Dental Association.

The third and final step in the accreditation process came one year earlier than normal, a high compliment to Dr. Odin M. Langsjoen, the program's director, and his staff and the excellence of the program they are providing UMD students, Provost Raymond W. Darland said.

Begun in the fall of 1972, the UMD program prepares students for the licensing examination. Students graduate after two years of study with the Associate in Science degree in dental hygiene. They are prepared to work with a dentist and provide clinical services such as cleaning teeth, applying fluorides, recording and charting dental conditions, and preparing clinical aids and laboratory diagnostic tests for interpretation by the dentist.

UMD graduated its first class of 15 students last June while another 17 will graduate from the program this month.

Veterinary Medicine

73 USAF Captain Roger A. Krogwold, Amherst Junction, Wis., has graduated from the Air Force training course for veterinary officers at Shepard AFB, Texas, and is now assigned to the USAF Hospital at Myrtle Beach AFB, S.C.

Agriculture

38 Arne E. Carlson '38BSAg '40MS '43PhD, Wilmington, Del., formerly assistant director of marketing for E.I. du Pont de Nemours & Company, has become director of the Agrichemicals Marketing division of that company's Biochemicals department. He joined Du Pont as an agronomist in 1943 at the Gopher Ordnance Works near St. Paul, Minn. Earlier he worked in weed-control research with the University of Minnesota and the U.S. Department of Agriculture.

43 Arnold M. Flikke '43MSAg, University of Minnesota professor of agricultural engineering, has been elected North Central Regional Director for the American Society of Agricultural Engineers (ASAE). He will serve a two-year term. He joined the organization in 1946 and has chaired the ASAE Minnesota Section and North Central Region. At the University he heads the agricultural engineering department where he teaches and does research in electric power and processing.

49 Dharampal Singh '43PhD, took over as director of research at Haryana Agricultural University, Hisar, India, in late January 1975. Since his return to India he has been active as a teacher and researcher, most recently as director of the U.P. Institute of Agricultural Sciences, Kanpur. He is a well-known leader in a number of international and Indian professional organizations and has traveled widely for his government.

56 Richard A. Herrett '56MS '59PhD is director of research and development for the agricultural chemicals division of ICI United States Inc., Goldsboro, N.C. He joined ICI in 1970 as technical manager for the division he now directs. Previously he was with Union Carbide Corporation as director of biological research.

71 Delvin L. Tupper, '71BSAgEd, Nicollet, Minn., has become district sales manager for Funk Seeds International's south central Minnesota area. Earlier he was a high school vocational agriculture instructor at St. Peter, Minn., and was involved with adult education in farm management.

72 David Tramel '72BSAg was recently appointed manager of Peavey Company's farm service center at Deer Lodge, Mont. He joined Peavey after graduation from the University.

Education

42 Hoover T. Grimsby '42BSEd, Senior Pastor of Central Lutheran Church, Minneapolis, since 1972, was honored with a Doctor of Divinity, *honoris causa*, by St. Olaf College, Northfield, Minn., at commencement exercises in late May. Grimsby was cited for his "deep pastoral sensitivity which has found its way into a warmth of preaching style cen-

tered on communication of the Gospel in such a way as to make it applicable to human lives and to community welfare, his deep sense of civic responsibility that has served to motivate his fellow churchmen to give community leadership inspired by the Christian Gospel" and for his activity as a student and scholar and his "deep interest in education that has continually manifested itself in leadership given to institutions of higher education both public and private."

61 Clayton A. Hovda '61MSEd has received a doctorate in education from the University of Iowa, Iowa City.

63 Paul E. Nelson '63BS '63BA '66MA '68PhD has been appointed chairman of the Speech department at Iowa State University, Ames. He taught at the Morris, Minn. high school from 1963-64 and for the University's Rhetoric department on the St. Paul campus while earning his doctorate. Since 1968 he has been an assistant and associate professor, director and primary lecturer for the Basic Speech Course and director of the Honors College at the University of Missouri, Columbia. He earned Outstanding Teacher Awards from the students, the Central States Speech Association and the Faculty-Alumni Association at Missouri. His wife Carla is a 1962 graduate of Minnesota.

68 Dale A. Johnson '68EDD has been elected executive vice president and named to the board of directors of the Owatonna Tool Company, Owatonna, Minn. He joined the company a year ago as administrative vice president after three years as superintendent of Owatonna Public Schools. Earlier he served as assistant superintendent of the Roseville, Minn. area schools and held teaching and administrative positions with the Stewart and Willmar, Minn., school systems, University of Minnesota and the Minnesota department of education.

72 James M. Kraby '72EDD, academic dean of Itasca Community College (ICC), Grand Rapids, Minn., has become president of Westark Community College, Fort Smith, Ark. He had been at ICC since 1972. Following completion of his master's work at Western Michigan University, Kalamazoo, he was a math instructor at North Hennepin Community College and was employed as a research assistant for the University of Minnesota's Bureau of Field Studies and Surveys while completing his doctoral work. The co-author of several publications for math educators, he has served as a writer and consultant for the University's Mathematics and Science Teaching Center for three summers.

Medicine

37 Dr. Robert B. Tudor '37MD, senior staff pediatrician with the Quain and Ramstad Clinic in Bismarck, N.D., has been admitted to membership in the American Gastroenterological Association, Inc. he has been connected with the clinic he now serves since 1949 and is the only practicing physician in North Dakota who holds membership in the association.

40 Dr. John W. LaBree '40MD, director of medical education at St. Mary's Hospital, Minneapolis, has been named dean of the School of Medicine at the University of Minnesota, Duluth. The appointment was effective September 1. A specialist in internal medicine with a subspecialty in cardiology, he is also a clinical professor with the University's Medical School in the Twin Cities. He has practiced medicine in the Minneapolis area since the early 1950's and is one of the ten original founders of the St. Louis Park Medical Center.



Waage



Heltne



Semanko



Svee



Nerheim



Melcher



P. Nelson

52 Dr. Ray W. Gifford, Jr. '52MSMed, head of the department of hypertension and nephrology at the Cleveland Clinic Foundation (Ohio), recently lectured on the "Long-Term Effects of Anti-Hypertensive Therapy" during a special summer continuing education seminar for alumni in the Medical University of South Carolina's department of family practice, Charleston. His lecture was funded by a grant from Hoechst-Roussel Pharmaceuticals, Inc. Dr. Gifford served as a consultant in medicine at the Mayo Clinic from 1953 to 1961.

54 Dr. Alexander M. Minno '54MSMed, a clinical instructor in medicine at the University of Pittsburgh (Pa.), gave the commencement address at Conemaugh Valley High School in Johnstown, Pa., in late May. A graduate of the high school, he spoke on the changes from liberal arts subject matter to present scientific advances. He is also on the medical staff of Presbyterian-University Hospital, Allegheny General Hospital and is a consulting rheumatologist to Harmarville Rehabilitation Center.

63 Dr. Aldo R. Castaneda '63PhDSurg '64MSPHysiology, Chestnut Hill, Mass., Cardiovascular Surgeon-in-Chief at the Children's Hospital Medical Center in Boston, has been named the William E. Ladd Professor of Surgery at Harvard University. The doctor, who has received worldwide recognition for his advanced work in congenital heart defects in children, joined the faculty of Harvard Medical School as a professor of surgery in 1972 and since has done pioneering work in his field. He received the Distinguished Teaching Award from the Minnesota Medical Foundation in 1966. He taught at Minnesota before going to Harvard.

69 Donald T. Eagles '69MD has received a master's degree in otolaryngology from the University of Iowa, Iowa City.

71 Dr. Richard D. Olsen '71MD has joined the faculty, as an instructor in pediatrics, of the University of Mississippi School of Medicine at the Medical Center in Jackson. He interned and completed his residency at the University of Minnesota before accepting his present post.

72 Dr. Richard C. Gehrz '72MD, Cottage Grove, Minn., formerly chief resident in pediatrics at the University of Minnesota Hospitals, is now associate director of medical education at Children's Hospital, St. Paul. At Children's he will assist in the medical education program, supervise the newly-expanded Emergency Room service and night clinics, as well as continue his research in immunology.

Graduate

51 Oddavar F. Nygaard '51PhD, associate professor of radiology in the School of Medicine at Case Western Reserve University, Cleveland, Ohio, has been promoted to the rank of full professor of radiology. He is also an associate member of the biochemistry faculty.

55 Donald H. Deneck '55MS, Freehold, N.J., has received John Wiley & Sons "Editor of the Year" award for extraordinary editorial achievement. He is Wiley's college science editor, specializing in



MISS ELIZABETH DONALDSON '00BA, right, the oldest living faculty member of Moorhead State University, Moorhead, Minn., received a bouquet on her 100th birthday on August 10 from Roland Dille '49BA, president of Moorhead State College, Miss Donaldson, who taught at Moorhead from 1900 to 1908, lives in Wayzata, Minn.

Alumna Elizabeth Donaldson is 100 years old

Elizabeth Donaldson '00BA, the oldest living former faculty member of Moorhead State University (MSU) in Moorhead, Minn., and probably the oldest living University of Minnesota alumna, was visited in her Wayzata, Minn. retirement residence on her 100th birthday this August by alumni Roland Dille '49BA and Henry Mackall '06BA, a former student of hers.

Mackall is a long-time Minneapolis attorney and Dille, president of MSU.

Mackall was quarterback on MSU's (then called Moorhead State Normal School) first football team while a student in Miss Donaldson's Latin class and receiving tutoring help in Greek from her.

Miss Donaldson, who taught at Moorhead State from 1900-08, and Mackall have corresponded for nearly 75 years and have, on a number of occasions, visited one another.

While on the Normal faculty, Miss Donaldson lived at the home of Solomon G. Comstock, the former Moorhead civic leader, state legislator and Congressman, who was largely re-

sponsible for the founding of a state normal school in his home community. When she left Moorhead to continue her studies at Oxford, England, she was accompanied by Comstock's daughter Jessie.

Before graduating from the University of Minnesota, Miss Donaldson had studied for a year at Carleton College, Northfield, Minn., and taught for one year at both Spring Valley and Dawson, Minn.

Among her grade school pupils at Dawson, Miss Donaldson especially remembers Theodore Christianson who was to serve as Minnesota's governor from 1925 to 1931.

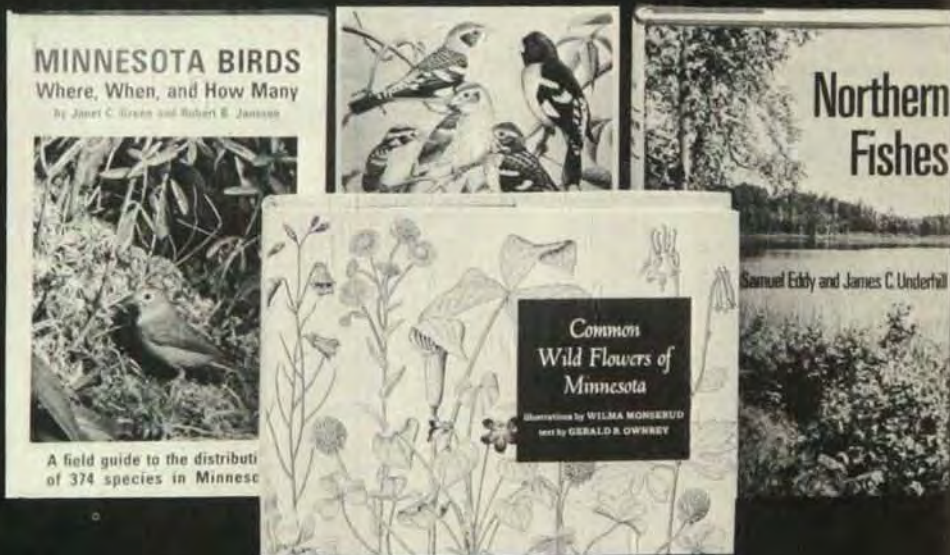
When she completed her work at Oxford, she returned to the United States to earn a master's degree at Columbia University, N.Y. She taught at Wilein College in Chambersburg, Penn., for a brief period and then joined the faculty of Julia Richmond High School in New York City where she taught from 1913 until her retirement in 1945.

Since she has lived in New York, California and New Jersey before returning to Minnesota in 1974.

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BIRD PORTRAITS IN COLOR



BIRD PORTRAITS IN COLOR, by Thomas S. Roberts, contains 92 full-page, full-color bird portraits, reproductions of paintings by noted nature artists. These pictures show 295 different species of birds, and each color plate is accompanied by a full page of information about the birds shown. Because of its unusual beauty, this book makes a particularly appropriate gift. (Reg. price \$9.50) *MAA price \$6.17, plus 58 cents postage and handling.*

MINNESOTA BIRDS: Where, When and How Many, by Janet C. Green and Robert B. Janseen, is an essential guidebook for birders in Minnesota, both amateur and professional and is a useful reference work for naturalists. The book provides information about each of the 374 species sighted in the state — in what seasons they are present, how abundant they are and in what areas they are likely to be found. The account for each species is di-

vided into three sections: migration, including distribution, abundance and dates; summer season, including breeding range and nesting records; and winter season, including distribution and abundance. Both authors are highly experienced amateur ornithologists. This book was published by the University Press for the James Ford Bell Museum of Natural History. (Reg. price \$9.75) *MAA price \$6.33, plus 50¢ postage and handling.*

COMMON WILD FLOWERS OF MINNESOTA, by Wilma Monserud and Gerald B. Ownbey, is a guide for the identification of the common wild flowers native to Minnesota and to adjoining states, with detailed pen and ink drawings of more than 300 species. A page is devoted to each drawing and the accompanying description. In many cases the entire plant is illustrated to show the growth pattern. The drawings are excellent examples of botanical illustrations, technically accurate and at the same time artistically beautiful. (Reg. price \$9.75) *MAA price \$6.33, plus 50¢ postage and handling.*

NORTHERN FISHES, by Samuel Eddy and James C. Underhill, a new and revised edition, contains much new information based on current knowledge about fishes, their environment and fishing techniques. It covers more than 160 species with descriptions of each and drawings of almost all of them. This is an indispensable book on fishes of the Upper Mississippi Valley, and is useful as well in other regions of the United States and Canada where many of the species are found. (Reg. price \$10.00) *MAA price \$6.50, plus 58¢ postage and handling.*

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Around & About

physics and geology, and has held this position for many years. Previously he was employed by Honeywell, Inc. as an international sales engineering manager.

John E. Franz '55PhD, a Monsanto Science Fellow at the St. Louis research Laboratory of Monsanto Agricultural Products Company, has been promoted to Senior Science Fellow in recognition of his technical achievements. He developed the polyester flame retardant which Monsanto now markets under the trade name of Tetrathal and is also the discoverer of the company's Roundup herbicide, a broad spectrum control agent for perennial weeds. Franz joined Monsanto in 1955 and was named a Science Fellow in 1963.

66 Joseph B. Martin III, Winnsboro, S.C., has been named a vice president by the North Carolina National Bank Corporation (NCNB), Charlotte, N.C. He joined the corporation's Human Resources Management Group in 1973 and is presently director of public policy.

Institute of Technology

29 Frederick L. Hovde '29BChemE, who served as president of Purdue University in Lafayette, Ind., for more than 25 years prior to his retirement in 1971, was honored by that university when it conferred upon him an honorary Doctor of Laws degree at the 101st Founder's Day Banquet. He was cited for the leadership he gave the university during the period of its greatest growth, from the end of WWII through the 60's, when he guided the development of Purdue's regional campus system and moved the university to excellence in the social sciences and liberal arts, as well as in agriculture and engineering, according to the *Purdue Alumnus*. Following his graduation from Minnesota, Hovde received a Rhodes scholarship and spent three years at Oxford University in England. After the outbreak of WWII, the U.S. government asked him to head important programs in rocket research. He became president of Purdue in 1946.

49 Rolland G. Mattson '49BCivE, an employee of Texaco, Inc., Williamsburg, Va., was involved in the design and construction of a service station that was awarded first place in "The Outstanding Example of Motorist Service Station" category of the 1974 U.S. Department of Transportation's Annual Highway & Its Environment Awards program. The station is located in the Colonial Williamsburg Information Center area and is one of the newer additions to the business community.

64 Dennis F. Walsh '64BArch, vice president of design and director of architecture for Ellerbe, Bloomington, Minn., has been named an associate director to the board of Ellerbe Architects/Engineers/Planners.

67 Robert A. Findlay '67BArch recently received a master's degree in architecture from Iowa State University.

69 Lindwood A. Bird '69BSPHysics has received a master of science degree in electrical engineering from Rensselaer Polytechnic Institute in Troy, N.Y.

Foster K. Lewellen '69BMechEng recently received an MBA from the University of Iowa, Iowa City.

70 Rodney J. Means '70MSEE, a senior engineer for the Motorola Semiconductor Products division, Scottsdale, Ariz., has been honored by his company for six patent applications filed by him and the company. His development deals with electronics technology.

47 Roy Svec '47BBA, St. Paul, metropolitan district manager for Montgomery Ward, has been elected to the board of directors of Eastern Heights State Bank, St. Paul. He has held his current position at Montgomery Ward since 1967. Active in local and state organizations, he serves on the boards of the St. Paul Area Chamber of Commerce and the Minnesota Retail Federation.

48 Burton N. Noah '48BBA, who formerly served as executive vice president of the Marquette National Bank of Minneapolis and most recently as president of Associates Capital Company, Inc., South Bend, Ind., was elected president of the \$104 million Commercial National Bank of Chicago.

53 Edward J. Doyle '53BBA has been named director of development for Medtronic, Inc., Minneapolis. Previously he was a consultant in marketing, acquisition analysis and long-range planning, working with companies studying new ventures in medical instrumentation. From 1960-1974 he was president of his own company, a manufacturer's agency and distributor for medical instrument products.

57 Herbert Melcher '57BBA, Minneapolis, who joined the Apache Corporation, Minneapolis, in 1964, has been promoted to manager-corporate and subsidiary accounting. He was previously manager-finance, investor products and services.

59 Bernard Semanko '59BBA, Edina, Minn., formerly a senior systems analyst for Control Data, Minneapolis, has joined Apache Corporation, Minneapolis, in a similar position in the company's systems, procedures and data processing division.

65 Ray Wolcott, Jr. '65BBA has been appointed vice president and branch manager for the new Atlanta office of the R.B. Jones Employee Plans Inc. For the past five years he has been an employee-benefits consultant in Kansas City, Mo., and was a group and pensions representative for Bankers Life Insurance Company of Iowa.

Business Administration

41 Helen Gill '41BBA, Bemidji, Minn., was named the 1975 Outstanding Woman by the Jaycees there. The winner of this Distinguished Service Award has maintained a very active community and business life in the town where she was born and raised. She works at Gill's Clothing in Bemidji and has held several top offices in clothing industry organizations on the national and regional level, notably as the first woman director of Menswear Retailers of America. She has served on the State Advisory Board for the Department of Vocational Rehabilitation and is one of few who has held this position for three and one-half years. She is currently working toward a master's degree at Bemidji State College.



D. Johnson



Gehrz



Kraby



Agrell



Noah



Wolcott



Doyle



Walsh



Denny



Braun elected ACEC vice president

For only the second time in 19 years, a Minnesotan has been elected a national officer of the American Consulting Engineers Council (ACEC), the world's largest organization of consulting engineers.

J. S. Braun '56BCE '57MSCE, president of Braun Engineering Testing, Inc., a consulting engineering firm with offices in Minneapolis and Hibbing, is currently serving as vice president of ACEC which represents 2,925 firms and 30,000 principals and employers. His will be a two-year term ending in 1977.

Braun is one of nine members of ACEC's board of trustees and coordinates activities of the organization's member affairs division, as well as provides liaison between the national council and five state councils.

He is a past president of Consulting Engineers Council/Minnesota, one of 49 such state organizations, and a former national director from Minnesota. He has also been active in several other professional groups, including the American Society of Civil Engineers and Minnesota Society of Professional Engineers.

A past president of the Minnesota section of ASCE, Braun, who lives in Minnetonka, Minn., is currently active with that group's various national committees.

70 Douglas E. Heltne '70BBA has joined DATA 100 Corporation, Minneapolis, as assistant controller. He was previously associated with the accounting firm of Arthur Andersen & Company, St. Paul, as a senior accountant. He is an active counselor for the St. Paul Junior Achievement organization and the Big Brothers of St. Paul.

73 Robert Julian '73BSB, St. Paul has been promoted from Accounts Receivable Operations assistant to Credit manager for the Institutional division of Economics Laboratory, Inc. (EL), St. Paul. He joined EL after graduation from the University.

Law

54 Julius Smith '54LLB, Chaska, Minn. attorney, has been elected vice president of the Prep School Board of Advisors for St. John's Preparatory School in Collegeville, Minn. He graduated from the prep school in 1948 and received a bachelor's degree from the University of Minnesota before entering its Law School.

59 Lawrence E. Nerheim '59LLB, general counsel of the Securities and Exchange Commission (SEC), will join the Bank America organization as a senior vice president. The chief legal adviser of SEC for the past two years, he previously was with a Minneapolis law firm for 14 years. From 1959-1966 he was a lecturer at the University of Minnesota Law School.

College of Liberal Arts

22 Willard Morrow '20-'22, Los Angeles, Calif., visited the University of Minnesota campus this summer and wrote that he found "many wonderful changes for the better."

51 David Mosso '51MA, Springfield, Va., is fiscal assistant secretary in the U.S. Department of the Treasury. A career official, he joined the Treasury in 1955 as a staff assistant in the Bureau of Accounts and most recently served as deputy fiscal assistant secretary. Before joining the government agency, he was an instructor in accounting and economics at Washburn University in Topeka, Kan., and worked in the Claims department of the Atchison, Topeka and Santa Fe Railway.

57 James M. Denny '57BA has been elected treasurer of The Firestone Tire & Rubber Company. He joined Firestone as a lawyer in 1968. A specialist in the commercial and financial aspects of international law, he previously worked for three years in Paris representing the New York law firm of Dewey, Ballantine, Bushby, Palmer & Wood.

64 Charles Pattison '64BA has been named to the faculty of Boston's Berklee College of Music (Mass.) as professor of philosophy. He has taught previously at Indiana University's Bloomington and Indianapolis campuses and at the University of Notre Dame. An accomplished guitarist and vocalist, he is a member of the nationally-known trio "Featherrain."

71 Michael L. Johnson '71BS, St. Paul, has completed the USAF communications analysis specialist course at Goodfellow AFB, Texas. He has been assigned to Chicksands RAF Station, England, duty with a unit of the USAF Security Service.

Donn L. Waage '71BA, legislative counsel of the Association of Registered Bank Holding Companies, Washington, D.C., has been elected assistant vice president-government relations Northwest Bancorporation, Minneapolis. While attending the University he served as a research assistant for the Minnesota State Senate and administrative intern for the Twin Cities Metropolitan Transit Commission.

72 Lewis Agrell '72BA presented his one-man show "Over There!" in early August to complete work on his master of fine arts degree from Florida State University, Sarasota. An associate actor with Asolo, the State Theater Company of Florida, performed last year in the title role in "Don Quixote of La Mancha," and this year as Captain Tim "Tobacco Road," the fiery revolutionary speaker "The Plough and The Stars," and the Duke of Burgundy in "King Lear." He has also acted with Minneapolis' Shakespeare in the Streets, The Pennsylvania Traveling Players and Boston's Loeb Theater.

Janice C. Godtland '72BA, Rochester, Minn. has received a Juris Doctor degree from the University of South Dakota, Vermillion.

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35-39	10,000	24.00
40-44	10,000	35.50
45-49	10,000	51.00
50-54	10,000	73.50
55-59	10,000	108.00
60-64	10,000	175.00
65-69	5,000	135.00
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Coverage terminates at age 75.

EASY TO ENROLL

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Insurance Administrator
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3. Send no money now. You will receive your first billing from the Administrator upon acceptance of your Enrollment Form.

• You Are Eligible . . . if you are a member of the MAA, age 60 or under. (Coverage for residents of Texas, Ohio, New Jersey, West Virginia, Florida and Wisconsin is 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 requested.

• Premiums Waived During Disability . . . if you become totally disabled (as defined in the contract) prior to age 65, and remain so disabled for at least nine months, premiums becoming due during your continued disability will be waived. Proof must be furnished if requested.

• 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. 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.

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B. _____

Permanent Mailing Address: Street and Number

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Date of Birth _____ Sex _____ Year Graduated from U of M _____

Beneficiary (Print Name as MARY DOE, not MRS. JOHN DOE) _____ Relationship _____

Amount of Term Life Insurance: \$10,000

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 group life insurance provided by the Minnesota Alumni Association Group Life Insurance Program underwritten by The Prudential Insurance Company of America. As a member in good standing, I understand that any and all dividends declared under the above group policy shall become the property of the Minnesota Alumni Association. I represent that each of the above answers is complete and true, and that they shall be the basis of the issuance by the Company of any group life insurance pursuant to this application.

AUTHORIZATION: I hereby authorize any licensed physician, medical practitioner, hospital, clinic or other medical or medically related facility, insurance company or other organization, institution or person, that has any records or knowledge of me or my health, to give to The Prudential Insurance Company of America any such information. A photographic copy of this authorization shall be as valid as the original.

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Add .50¢ for each item for Handling and Postage	_____
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On The Inside:

- News of University programs and campus personalities
- Alumni activities and the leadership that makes them go
- And much, much more. . .

1975 OCTOBER

alumni news UNIVERSITY OF MINNESOTA

PUBLISHED BY THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION



Astronaut Slayton to return to Alma Mater in 1976

Minnesota alumni will have an opportunity to meet and listen to astronaut Donald (Deke) Slayton if Alumni Association plans materialize to bring the famous University alumnus to Minneapolis in early January.

Executive director Ed Haislet said recently he hopes Slayton can appear at the Association's President's Seminar January 6 at the Alumni Club. Seminars are held to acquaint Club members and other alumni with subjects and personalities of University interest.

"We're optimistic about having Slayton for our January meeting because he's enthusiastic about the University and wants to come," Haislet said. "Also, we're getting help on this from Phil Whitbeck who works with Slayton at NASA (National Aeronautics & Space Administration). Phil is president of our Houston chapter and plans on having Slayton speak before that group as well as ours."

Haislet said that if Slayton is unable to make the January meeting, he would appear at another meeting later in the year. (Further details will be forthcoming in The Alumni News.)

In a recent telephone interview Slayton said he was looking forward to returning to Minneapolis and the University. "It's been three years since I've been in that part of the country and even longer since I've really taken a look around at the University," he said.

"I would very much like to come back. I certainly haven't forgotten about Minnesota." (On the Apollo-Soyuz flight he brought along a University flag.)

Slayton left the University in 1949 after earning a degree in aeronautical engineering. Like many Minnesota students during that time, he became a veteran of World War II. Following graduation from high school in 1942, he had enlisted in the Air Force and before the war was over he had flown 56 combat missions over Europe.

Flying became early occupation

Flying was an early ambition for the Sparta, Wisconsin, native and it is something for which Slayton has never lost his taste despite setbacks.

He was to have made America's second manned orbital flight in 1962, but two months earlier doctors said he had a heart condition. They told him that he had idiopathic atrial fibrillation — a little known ailment that sometimes manifests itself in an irregular heart beat.

The doctors' diagnosis grounded Slayton and apparently blocked his lifetime ambition of traveling in space. "But I never gave up hope," he said. "I felt that the doctors were wrong for grounding me and that some day I would fly."

Slayton stayed in the NASA program as director of astronaut training and waited for the go ahead to make a space flight. About five years ago his atrial fibrillation disappeared after treatment with quinidine (similar to the antimalarial drug, quinine).

For awhile he continued to take quinidine to prevent recurrence of the condition but he stopped altogether when he discovered that the Federal Aviation Administration would still ground him if he took a prescribed cardiac drug. Fortunately, the atrial fibrillation never returned.

When he and fellow astronauts Thomas Stafford and Vance Brand made their historic joint Apollo-Soyuz flight in July, the spaceship's medical supplies included heart pills in case Slayton's heart began beating erratically as it once did. But doctors reported that his heart showed no unusual stress reaction to the launch, flight or recovery.

Slayton said he gave no particular thought to his heart during the flight. "I was much too busy and engrossed in my work to pay any mind to something which I never considered that much of a problem anyway," he said.

"I waited in great anticipation for 16 years (he joined the space program in 1959) for this. During those years I was aware of the feeling of exhilaration the other astronauts had while in space and at times I wondered if I ever would know it. I loved it up there and while we were making the flight I questioned whether I ever wanted to come down."



ASTRONAUT Deke Slayton '49BAeroE posed in his spacesuit for an official National Aeronautics & Space Administration picture. Slayton was a member of the three-man American crew that took part in the recent Apollo-Soyuz mission.

Another obstacle threatened career

A few weeks after the Apollo-Soyuz mission was completed, Slayton faced another obstacle which threatened to dramatically change his career. During a post-flight physical, doctors discovered a small lesion in his lower left lung. Sur-

geons removed a small, benign nodule, and later told him that he should recover fully. They said there was no way to determine what caused the nodule and that there was no evidence of other lesions.

Before the operation there was some

Turn to page 16

Homecoming becomes something special in 1975

"Homecoming is a special thrill."

These are the words of Gopher football captain Keith Simons who feels a Homecoming game epitomizes what college football is all about.

It is still viewed by the modern player as a career highlight, he said.

"The atmosphere for Homecoming is different than any other game," Simons said. "You walk down University Avenue and see all the frat houses decorated and it kind of gets you psyched."

"There's so much color and pageantry. There is maroon and gold everywhere and the band is marching and playing. Plus, all the old grads come back to see the campus and to cheer on the football team."

"When I was a kid growing up back in

Michigan I always wanted to play college football and I always wanted to play in a Homecoming game. It's really a thrill," Simons said.

The Homecoming game on October 18th against Michigan State has special significance for Simons because his hometown is Belleville, Mich., and also because he nearly chose State as the school at which he would play football.

"My home is 20 miles from the University of Michigan and 65 miles from Michigan State," Simons explained. "I didn't think too much about Michigan because I didn't want to be that close to home. As a high school kid I hung out in Ann Arbor a lot and I wanted to get away."

"Michigan State was my favorite team

when I was a kid because they had some great players like Gene Washington, Bubba Smith and others. I would have gone there to school except that when I was being recruited there was talk that coach Duffy Daugherty was going to resign and I didn't want to get caught in a program where I didn't know who the new coach would be.

"I enjoy playing against all the Michigan schools (Western Michigan and Michigan are also on the schedule) because it's a chance to show everyone from back home what kind of a player you've become since high school."

Simons is the first squad captain in three years. In the past Coach Cal Stoll has preferred to appoint game captains.

"The first couple of years the team was making an adjustment to what the new coach-

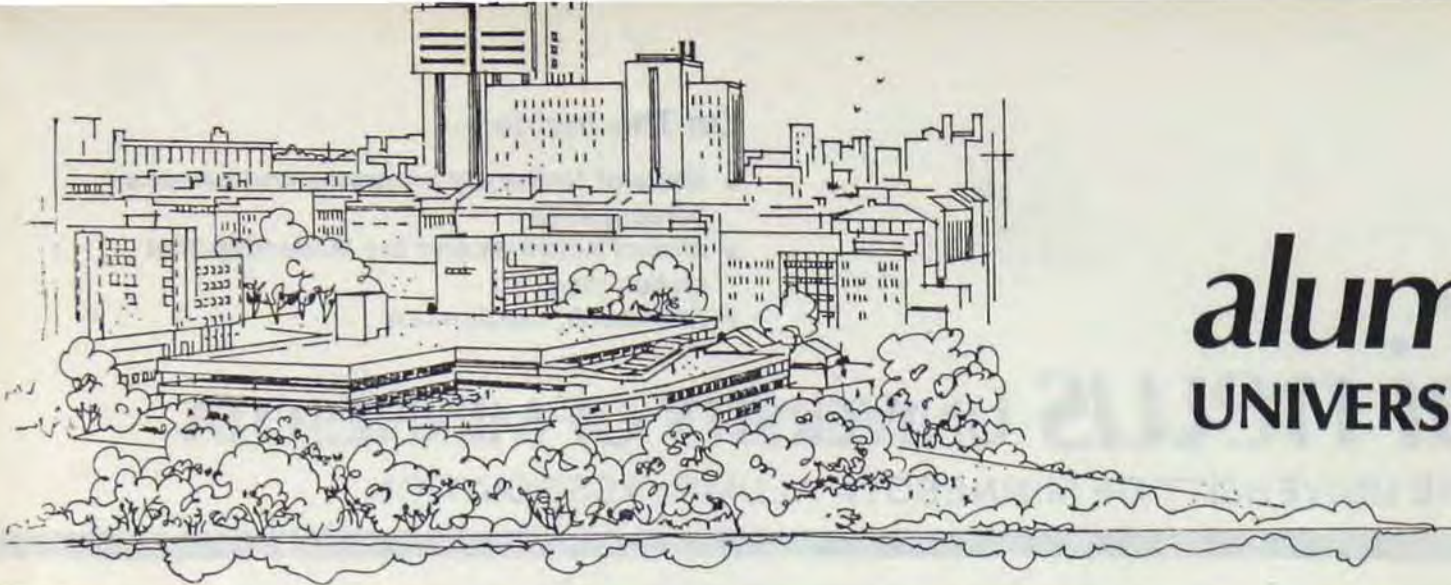
ing staff wanted," Stoll said. "This year they were ready to make an intelligent choice. They chose wisely in electing Keith. He got all but two votes."

The appointment surprised the slightly shy and quiet Simons. He had never been a captain before and he recognized that he must now become more vocal than in the past.

"This doesn't mean rah-rah stuff because I'm just not that way," he said. "But it does mean I have to be more communicative because the captain is the go-between for the coaches and players. I try to keep aware of the feelings of both groups. It's kind of like checking meters."

"I hope I'll be remembered as a good captain. It's my biggest honor at Minnesota. I

Turn to page 3



alumni news

UNIVERSITY OF MINNESOTA

VOL. 75

NO. 2

Our faces are red!



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editorial

POINTS OF VIEW

Ed Hansen



This is a summary of the Association 1974-75 Annual Report, just published:

The broad objective for the year was to better define the role of the Minnesota Alumni Association in support of the University. To that end, two important actions were taken. First, a **Marketing Action Plan** by a consulting team of graduate students of the School of Business Administration was made and its recommendations will be discussed at the first meeting of the Board this Fall. Second, University President C. Peter Magrath appointed a **"high level committee" to study the external relations of the University** — Alumni Relations, University Relations University Development Office and the University Foundation — with the hope that out of it will come a plan for a better coordinated program. The recommendations of this committee are expected soon and also will be acted upon by the MAA Board.

Membership continued its upward trend with a modest increase of 1,060 for a total paid membership of 16,714. Total membership was 25,012.

The **Alumni Club** on the 50th floor of the IDS Tower finished a successful first year in March with a membership enrollment up to capacity. In a random sample of Club members, over 90% of those who used the Club during the year rated food and service as "good" or "excellent". Club dues were raised because of increase in rent.

The **Alumni insurance program** continued its steady growth. For the first time since 1967 there was a modest raise in alumni dues.

The **alumni tours** to the Orient in the Fall of 1974 and to Morocco the Spring of 1975 were highly successful, as was the Big Ten Caribbean Cruise in January.

The Association had an operating budget of \$138,822, the funds of which were derived mainly from membership fees, interest and advertising. Expenditures showed Salaries \$44,033; the ALUMNI NEWS \$44,450; Field Services and Travel, \$7,000; Office Supplies \$22,305; Postage and Contingent Fund, \$21,029. The **alumni staff** consisted of eleven people.

The Association Life Membership Fund, that fund which guarantees receiving the ALUMNI NEWS for life, had a market value of \$297,402.

The Department of Alumni Relations budget showed \$99,637 for Salaries, with Supplies Expense & Equipment \$41,980 and \$23,450 for Travel, Postage, Printing and Promotion.

Alumni Records as of June, 1975 showed 178,574 graduates of which 25,012 were Association members.

A total of 478,550 pieces of mail was processed in the Association's regular program which does not include special promotional mail such as tours, insurance, and so forth.

The **constituent or college group programs** remain the core of the alumni program. These programs started 21 years ago and now involve seventeen groups. Each group has its own officers, board and planned activities, with its president being a member of the Board of Directors of the Minnesota Alumni Association. The Alumni Association acts as secretariat to all the constituent organizations. The groups work closely with their college faculties and students and hold a number of professional conferences, workshops and seminars annually at the time of their annual meeting. Almost all groups have fund-raising projects, and several publish annual newsletters. Eighteen special awards were presented by the constituent alumni groups during the year.

During the 1974-75 fiscal year twenty-two distinguished alumni received the University's Outstanding Achievement Award, one the Alumni Service Award. Seventeen of the presentations were made at the time of the annual meetings of the constituent groups or the Annual Meeting of the Association.

A copy of the Annual Report will be sent on request.

THE MINNESOTA ALUMNI ASSOCIATION BOARD OF DIRECTORS

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- PRESIDENTS REPRESENTING CONSTITUENT GROUPS**
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- PRESIDENTS, REPRESENTING NON-CONSTITUENT GROUPS**
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- HONORARY LIFE ASSOCIATION MEMBERS**
- Dr. J. L. Morrill, President Emeritus of the University; Dr. O. Meredith Wilson; Gerald T. Mullin; William L. Nunn, William B. Lockhart; Stanley J. Wenberg; Dr. Malcolm Moos.

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

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Homecoming. . .

From page 1

never realized what a big deal it is. The torch passing ceremony is special and after I was named captain I got a lot of congratulatory letters. It all makes me feel very flattered," he said.

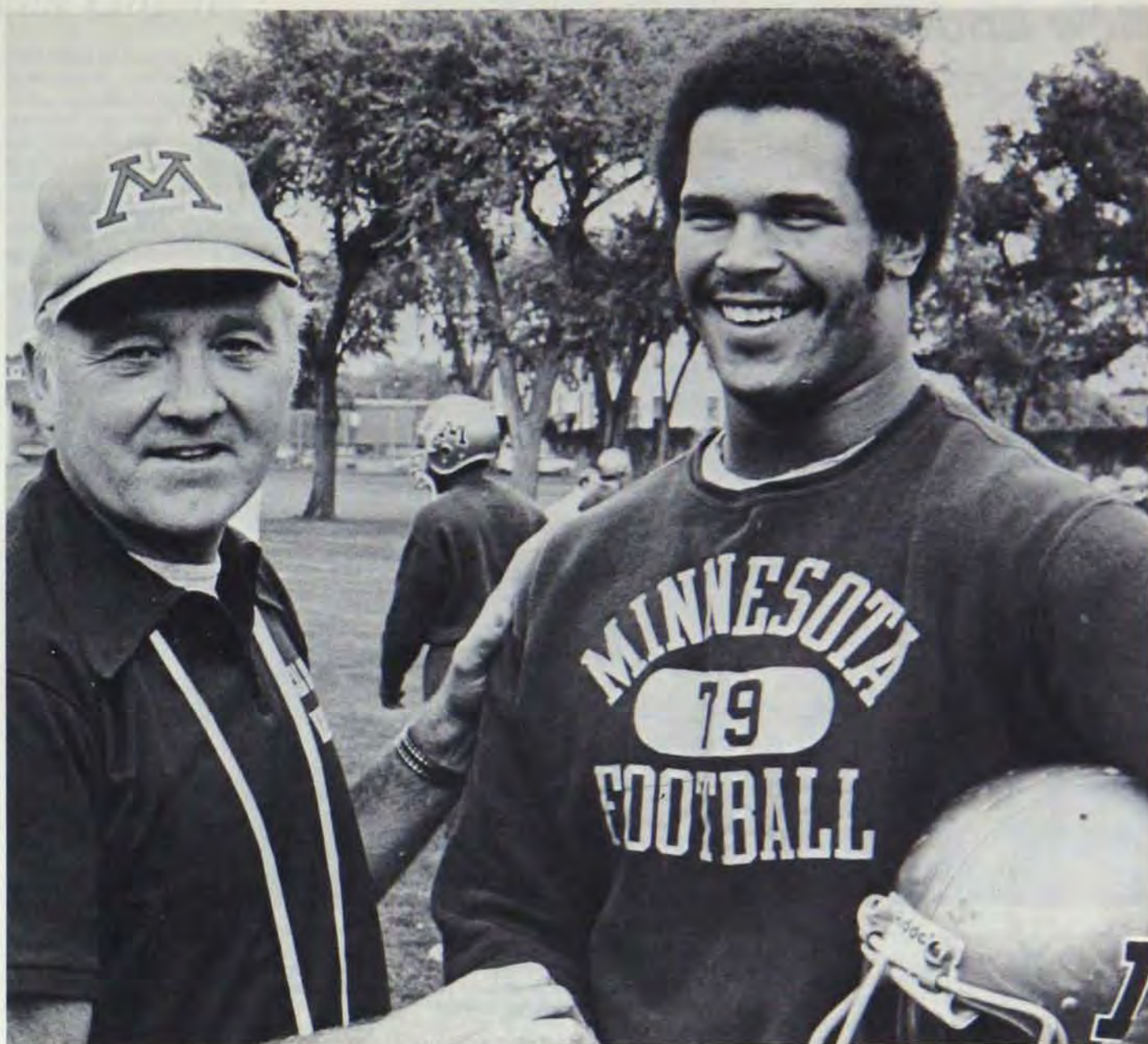
More honors could be headed Simons' way. The 6-foot-4, 247-pound defensive nose guard is considered an all-Big Ten and All-American candidate by Stoll.

Consistency, rather than the spectacular, has marked Simons' play since his first game as a freshman. He has started every game for Minnesota during the past three-and-one-half seasons.

Team-wise there have been some frustrations along the way, but Simons and the Gophers are looking ahead. "We want badly to have a winning year and to go to a bowl game," he said. "Right now that's more important to me than pro football.

"I hope we get a lot of support from our fans at the Homecoming game because that game is kind of the middle of the season and could be very pivotal in its importance for us," Simons said.

The Gophers ought to be in good shape for Homecoming if everyone is like Keith Simons. He's got the Homecoming spirit.



GOPHER FOOTBALL COACH Cal Stoll and captain Keith Simons both feel that Homecoming can epitomize what college football is all about to the players. They are looking forward to a successful game against Michigan State on October 18th.

Alumni and students also have plans for 1975 Homecoming

Homecoming and all its color and festivities are coming back on the University campus, according to Gary Nelson and Dick Devine, co-chairmen of this year's student events.

The campus fraternities and sororities will participate in balloon and Homecoming button sales. The buttons, sporting an "Annihilate Michigan State" slogan will be available from campus vendors or at the Sigma Alpha Epsilon house, at 50 cents each.

Fraternity row along University avenue will be bright with house decorations for Homecoming '75, and those fraternities and sororities outside the near campus area will provide floats for the University of Minnesota Marching and Alumni Bands pre-game Parade and Show 12 noon on the 18th.

Nelson and Devine said that Greek participation in house decorations is nearly 100 percent this year.

The bands will also have a half-time show based on a Bicentennial theme during the half-time of the Minnesota-Michigan State game.

The students have tentatively planned a Homecoming Bonfire and Pepfest near the river flats on Friday night, October 17, as well as a pepfest in downtown Minneapolis on the Midwest Federal Plaza on Friday afternoon.

Other members of the University community have also made a variety of plans to celebrate Homecoming 1975. The Athletic department is having their annual pre-game Bar-B-Que Luncheon at Williams Arena. See their advertisement in this issue of The Alumni News to make your reservations.

The "M" Club is planning a Gold Country Stag for Thursday evening, October 16, at the Radisson South Hotel.

And the University of Minnesota Alumni Club will stage a special Victory Dinner Saturday evening at the downtown Minneapolis club. See the Club's advertisement for further details.

Plan to return to the campus for Homecoming 1975, to join the festivities and to watch the Gophers "Annihilate Michigan State!"



HOMECOMING CO-CHAIRMEN Dick Devine, left, and Gary Nelson talked about the revival of traditions for the October 18th festivities on the University campus. They have declared their fraternity house, the Sigma Alpha Epsilon house, unofficial Homecoming headquarters for 1975.

Twin Cities high school graduates in minority of U freshmen

Graduates of Twin Cities public schools are a minority among Minnesota high school graduates who enter the University immediately following graduation.

Entering freshmen from Minneapolis public schools accounted for 10 percent of the 7,700 Minnesota high school graduates who enrolled last year at the various campuses of the University. Spring graduates of St. Paul public schools accounted for 7 percent of the Minnesota students.

The Twin Cities each had fewer students going on to the University immediately after

graduation than did high schools outside the state. And fewer St. Paul students enrolled following graduation than did graduates of private high schools in Minnesota.

University officials attribute the small number of freshmen from Twin Cities night schools to declining school population and to the decision of many students to pursue their education at a two-year community college and perhaps later transfer to the University. University officials who visit with prospective students admit they do not discourage Twin Cities students from enrolling at community colleges.

Among Minneapolis and St. Paul high schools, St. Paul Highland Park had the largest number of graduates going on to the University — 165. In Minneapolis, Southwest was highest with 122 graduates enrolled, followed by Roosevelt and Washburn with 117 each.

The largest number of freshmen entering from state high schools came from Duluth East and St. Louis Park, each with 234. Three Robbinsdale schools accounted for 354 freshmen.

Twin Cities suburban high school graduates accounted for 2,080 of the entering freshmen on all University campuses last year, with 1,800 enrolled on the Twin Cities campus.

The number of freshmen from Minneapolis and St. Paul schools was higher in 1974-75

Woman political scientist receives first Lippincott

An award for outstanding work in the area of political theory, named for University of Minnesota Professor Emeritus Benjamin Evans Lippincott, was presented in early September in San Francisco to Hannah Arendt, professor at the New School of Social Research, New York, N.Y.

Arendt received the \$1,500 award for her book, *The Human Connection*, at the annual meeting of the American Political Science Association.

The Lippincott Award, presented for the first time this year through a gift to the University of Minnesota Foundation by Lippincott, seeks to recognize scholarship in political theory that has long-term significance. To be eligible for consideration, a work must have been in print for at least 15 years. The winner of the award is invited to present a guest lecture at the University.

Political theory, Lippincott said, has for too long been considered a "poor relative in political science," when in fact it is "the heart of the discipline."

The award's time period stipulation was set up in order that the work could clearly show its importance for today and tomorrow, he said; too often the merits of a work are determined by the academic fashions of the day or by the events of contemporary history.

Lippincott taught at the University from 1929 to 1971 and had among his students Hubert Humphrey, Orville Freeman, Eric Sevareid and Malcolm Moos.

than in the previous year, when there were 679 freshmen from Minneapolis and 480 from St. Paul.

Although the size of the graduating class from Minneapolis public schools declined from spring 1973 to spring 1974, the number of students going on to the University increased by 91. The number of students graduating from St. Paul public schools increased by only 22 during the same period, but there were 81 more students going on to the University.

The number of advanced-standing students who transferred to the University for the 1974-75 school year from other Minnesota colleges was 3,383 — 500 more than the previous year.

New underground building will conserve energy



Construction crews and heavy equipment handlers are busy on the University's Minneapolis campus this fall in what used to be a broad, grassy area on the south side of Folwell Hall. Today a large excavation marks the site of the new East Bank bookstore and admissions and records facility.

The new structure's design is representative of recent significant achievements in architecture and energy conservation. Ninety-five percent of the three-level, 83,000 square-foot building will be underground, resulting in an energy savings of nearly 25 percent.

The \$4.2 million facility will consolidate the two East Bank bookstores now located in Nicholson Hall and Main Engineering. And the building will provide students with easy access to a centrally-located store with a greater variety of books and educational materials.

The facility's design will also help the admissions and records staff to refine their internal working structure, improving their ability to handle and process student records, according to the associate director of admissions and records.

Although the building is below ground level, a series of terraced planters will act as louvers to screen out intense sunlight while allowing an exterior view and penetration of daylight to all levels. Interior lighting will be provided by movable fixtures that are not only cost-efficient, but also may be shifted and arranged to respond to future space reassignment.

The building's design also includes a heat-recovery system that converts exhaust into heat. The facility will take advantage of the constant underground temperature, eliminat-

CONSTRUCTION CREWS have been working this fall on the new underground East Bank bookstore and admissions & records facility on the Minneapolis campus that will mark a significant achievement in energy conservation when it is completed in about one year. Ninety-five percent of the three-level building will be underground, resulting in an approximate 25 percent energy savings.

ing the heat-loss factor characteristic of above-ground buildings.

National Science Foundation grant assists in energy performance measure

A series of instruments will be placed in the walls of the new building to monitor and measure the amount of energy saved through these new ideas in energy conservation.

Thomas P. Blight, assistant professor of geo-engineering, who will supervise a research project to measure the facility's energy performance, is working under a National Science Foundation grant to monitor the soil temperatures around the building's walls, to determine where and how incoming energy is distributed. His findings may pave the way for future underground construction.

The facility will have an unobtrusive presence on campus. A diagonal pedestrian concourse on the ground level will form an attractive green-shrubbed plaza and preserve the visual integrity of the area.

Although it will not be completed for another year, the building has already received national recognition. The project's chief architect, Myers and Bennett Architectural Studio, Minneapolis, received commendation during *Progressive Architecture* magazine's Twenty-Second Annual Awards ceremony held last January.

\$1.9 million grant aids University study of hearing loss mechanisms

An interdisciplinary group of University researchers have received a \$1.9 million grant to study the mechanisms of hearing loss. The principal investigator is Dr. Michael Paparella, professor and chairman of the department of otolaryngology.

Eighteen different projects are being funded by the National Institute of Neurological and Communicative Disorders and Stroke to study three basic areas:

Noise-induced hearing loss, coordinated by Dr. W. Dixon Ward, professor of otolaryngology;

Drug-induced hearing loss, coordinated by Dr. Mary Jayne Capps, associate professor of otolaryngology; and

Identification and differentiation of hearing disorders, coordinated by Dr. David Nelson, assistant professor of otolaryngology.

The researchers, from the departments of otolaryngology, psychology and communication disorders, have established a collaborative effort in Research East, 2630 University Ave. S.E., an off-campus laboratory building in Minneapolis.

Youth Development & Research Center gets \$595,000 grant

The University's Center for Youth Development and Research has been granted \$590,000 from Lilly Endowment, Inc., Indianapolis, Ind., to serve as nationwide training center for youth workers and administrators of organizations serving girls.

This educational endeavor should bring together personnel from youth-serving organizations and corrections to develop coordinated programs, said Gisela Konopka, professor and center director.

Another purpose of the project is to test the impact of intensive in-service training.

Since it is impossible to train personnel of all organizations concerned with girls, eight national youth-serving organizations and selected agencies and departments serving girls will participate in this project.

The organizations are enthusiastic about this opportunity, since it is the first nationwide attempt to do such intensive education, Konopka said.

The project represents a first step in the implementation of research by Konopka on needs, concerns and aspirations of adolescent girls, also financed by the Lilly Endowment, to be published by the end of this year by Prentice-Hall under the title, *Young Girls: A Portrait of Adolescence*.

Health Professionals Drug Abuse Education project is ended

The Health Professionals Drug Abuse Education Project (HPDAEP) at the University ended September 30 due to lack of funding.

A final report on the project, containing information about the training of health professionals and an evaluation of the success of the

program, will be submitted to the National Institute of Drug Abuse. Material from the report is available from the project at 160 Frontier Hall, University of Minnesota, Minneapolis.

For the past several years, project members have conducted seminars on drug abuse for health professionals in Minnesota, Iowa, Wisconsin and North and South Dakota, working to increase professional awareness of drug-related problems.

"We have been one of the few projects in the U.S. that continually evaluated how well we were doing with our program, reaching our target population and conducting follow-up," Bob Muscala, assistant director of HPDAEP, said. "It was strange that as we sought continued funding to keep going, not one funder asked to see our evaluations."

Muscala will join the Office of Alcohol and Other Drug Abuse Programming at the University in October. Doug Morgan, assistant director of HPDAEP, and two other staff members will leave the University to set up a new counseling program, CREATE.

M Club sponsors pre-game luncheons

The "M" Club is sponsoring pre-game luncheons for its members this year before each home game, excluding the Homecoming contest with Michigan State on October 18.

The luncheons are being held at the Normandy Hotel in Minneapolis, with a social hour at 11:45 a.m., followed by the luncheon at 12:15 p.m.

Head coach Cal Stoll will be the featured speaker at the luncheons, along with other members of the Minnesota coaching staff and athletic department, as well as members of the oppositions' coaching staffs. The program will also include film highlights of Gopher games, comments and questions answered by the featured speakers.

The club is also sponsoring Buffet Luncheons at Williams Arena before each home game, again excluding the October 18 Homecoming event. These luncheons, which began at 11:30 a.m. are open to all "M" men, their guests and the public.

Price for the Williams Arena pre-game luncheons is \$2.50 for adults and \$1.50 for children.

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She is a very Golden Gopher!

Gladys Bullard Wetterlin BHEc '15 doesn't need to be directed to her seat in Memorial Stadium. She has watched the Gophers play there for 40 years, watching from the same seat.

Her husband, Alfred, bought four season tickets in the '30s. Upon his death in 1951 she was told that the seats could not be assigned to her. Alfred was not an alumnus but she is a Minnesota graduate.

However, she is very persuasive. No one in the Athletic Ticket Office could hold out against her.

Dr. and Mrs. William H. A. Watson, her son-in-law and daughter, usually attend the games with her. Granddaughters or friends use the fourth ticket.

"Do you go to all of the games?" The Alumni News asked, thinking of the cold November winds.

"I do. I take a thermos of hot coffee and I wear clothes for the weather," the 85-year-old fan answered.

Jean, her daughter, added, "And she keeps warmer than we do."

Gladys Wetterlin became interested in football when she was in high school in Waseca.

Girls didn't go to games much in the early part of the century, but she did.

She came to the University in 1909, having graduated from high school two years before that. A brother was in college and after her freshman year she dropped out, returning as a sophomore in 1911. She lived at Sanford Hall when it was brand new. There were 45 girls in each wing and Miss Ruth Phelps was their chaperone.

"We dressed for dinner. I was dorm president. Summer school students lived in the dorm for the first time in 1915. I managed the help that year. I had to make up 40 credits to graduate in home economics so I was in summer school. I got my degree after that session," Mrs. Wetterlin revealed.

Social life on the campus was not lacking. The seniors had a boat trip and there were parties at Shevlin. She remembers plays.

"Yes, there were blanket parties on the river bank in those days, too."

Hers was the first class under Josephine T. Berry who had joined Minnesota's Home Economics department in 1912. She reorganized the division so that it was no longer domestic economy, domestic science or domestic arts. It became home economics with work built on a scientific foundation.

"Miss Berry was very precise. I lived in one of the home management houses where Miss Grace Williams, a faculty member, lived, too. We had a family of 22 and we lived there for nine months."

Dr. Northrop was president of the University when Mrs. Wetterlin was a student and she remembered such faculty members as Misses Bemis, Williams, Smith, Trilling and, of course, the Goldstein sisters.

After she graduated, Mrs. Wetterlin taught home economics and chemistry in the Lewiston, Minn., consolidated school.

"School boards in cities didn't allow much for home economics classes. In the smaller towns they were more interested. Besides we could buy what we needed and it didn't cost much."

She taught cooking, sewing, home furnishing and nutrition in Mapleton and in Waseca before she married. Her finance was in service and they waited until WWI was over before they married.



GOPHER FOOTBALL fan Gladys Wetterlin has watched the team play from the same seat in Memorial Stadium for the past 40 years.

Mr. Wetterlin was in road construction so they moved around the United States a great deal. During WWII his work was in construction of air field runways.

There wasn't much time for football in those days, but back in Minneapolis before and after the war, that love was satisfied.

Does she have special teams and coaches she remembers?

"Bernie Bierman, of course. He was in the class of '16, you know. Warmath was another favorite coach. But I don't put a curse on the coach when the team isn't winning. I like to watch boys from Minnesota make good on the teams. I think Stoll's methods seem better now than they did. I have no love for Michigan and I despise Ohio State. I don't like coaches who have tantrums."

Her son-in-law is team physician at Macalester College in St. Paul. He was not satisfied with menus being served at the training table

so asked Mrs. Wetterlin to help. She made up menus which were properly nutritious.

She goes to the Mac games with the Watsons with whom she lives in a charming colonial house near that campus.

Music is Mrs. Wetterlin's hobby. She played the organ at Mayflower Congregational Church in Minneapolis when they lived there. And she has a silver spoon given her for playing for the Sunday School. She has accompanied choruses and soloists, and plays duets with daughter Jean.

There is no generation gap in the Watson household. Pamela, a graduate of Macalester, was at home when I went to call. She and her grandmother spent last Christmas with Lee-Anne, Pam's sister, and her husband, John Wilfahrt, in England.

"What about woman's lib?" I asked. "Forget it," was her answer. She feels the same way about professional football. — Wilma Smith Leland



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William Thomas is personnel director

William C. Thomas was named University personnel director at the mid-September Board of Regents meeting in Crookston, Minn.

Thomas, 36, who has been assistant director for employes relations at the University since 1973, was one of the top choices of the search committee three years ago when Roy Richardson was named personnel director.

"Thomas is an exceptionally talented professional and brings a great deal of experience to this office," said University president C. Peter Magrath. "He has specialized in employee relations and collective bargaining since joining the staff."

Thomas is a former market manager, training director and labor relations manager for Honeywell, Inc., in Minneapolis and Chicago. He taught science in a junior high school for two years in Chicago and extension courses in business at the University of Illinois extension division in Chicago.

He is a former columnist for the *Twin City Observer*, a newspaper of the black community, and former host of "Random Access," a weekly television show on issues of interest to black people in the Twin Cities area.

Magrath said the appointment of Thomas without an external search is consistent with affirmative action guidelines since other nominations were solicited from within the University.

"Bill Thomas relates very well to the overall professional personnel community in the Twin Cities area and has been frequently sought out as a seminar and discussion leader in industrial relations and personnel meetings," according to Walter H. Bruning, vice president for administrative operations.

The University employs about 12,000 people full time and about 7,400 part time.

"In the collective bargaining area, Thomas would be responsible for the trades and classified employees. Faculty collective bargaining, which has been emerging as a possible issue, will be dealt with in the academic administration and health sciences areas," Bruning said.

"I think the biggest advantage I have in taking this new job," Thomas said, "is that we



William Thomas

have a great staff of people, and any supervisor owes his success to those people who work for him."

Thomas succeeds Richardson, who resigned in July to become corporate vice president for industrial relations at Onan in Fridley, Minn.

Thomas, a Chicago native, holds a bachelor of arts degree from Northeastern Illinois State and a master of science degree from Loyola University in Chicago. He has also received certification in management development from Harvard University.

Exhibit of bird sketches opens in Bell Museum

An exhibition of 60 watercolor field sketches of birds opened October 1 in the Jacques gallery at the University's Bell Museum of Natural History.

"The Many Faces of Birds," by noted Canadian artist Terry Shortt, includes works

selected from more than 1,000 sketches made by the artist as he traveled around the world.

Shortt is chief artist of the art department at the Royal Ontario Museum in Toronto, Canada. His drawings have been reproduced in many books, including Kortright's *Ducks, Geese and Swans of North America*, Bodsworth's *Last of the Curlews* and Snyder's *Canadian Birds*.

He has written numerous scientific and popular works, including a new book about his field experiences, *Not as the Crow Flies*, which is available in the Bell Museum bookshop. The show poster, featuring a longcrested hawk eagle, is also available.

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Greek system is reviving and relevant on Minneapolis campus

Minnesota's Greek system — which a few years ago had one foot in the grave and could have gone six-feet under — today is on firmer ground.

In the late 1960s forecasters of gloom (were there any other kind?) predicted the eventual disintegration of fraternities and sororities at large commuter campuses like the University. The experiences and values found in the Greek system were not relevant to the college student, critics charged.

By 1970 Minnesota's Greek system was bottoming out at a rate which alarmed alumni, University officials and Greeks. Membership was down to approximately 1,000 and several houses were deeply in debt. Some houses were talking about folding as membership sagged to its lowest point in 25 years.

"There's no doubt the system was nearly dead, and if it had died it would have been difficult to revive in the near future," said Mary Jane Plunkett, advisor to the Interfraternity Council from the Office of Student Affairs. "The houses were in rough shape financially because of declining membership, and debts incurred during more prosperous times. Fraternity houses had a cumulative debt of \$36,000 by the early 1970s."

One reason the system didn't die was due to a general meeting of collegians, alumni and University personnel. From that meeting a decision was made to study the Greek system via a Task Force. That joint University/Greek Task Force recommended that Greek alumni assume the major responsibility for supervision of campus Greek organizations.

In the past the University had taken more responsibility, but the Task Force stressed that the strength of a chapter is closely related to the support it receives from its alumni.

Alumni answered the call for help. "They have signed personal notes for many houses in the last few years to get the frats back on their feet," Mrs. Plunkett said. "A number of houses were pretty badly deteriorated and it makes it difficult to get new pledges when the house is run-down."

Alumni support for sororities is stronger than it is for fraternities, according to Sally Jo Powers, Panhellenic advisor from the Office of Student Affairs. "Even though there are only about half as many sororities as fraternities, the former tend to be more stable," she said. "Part of this is the alumnae commitment through the years."

"Another reason is the house director leadership the sororities have. The directors tend to keep the houses operating in a sound manner. They may ask, 'Where are you going to get \$1,000 for a party?'" Powers said.

National organizations also worked to keep system alive

In addition to alumni, the national chapters deserve credit for keeping the Greek system alive at Minnesota. "The national chapters poured money into various houses here because they didn't want to see their houses fold on a large and prestigious campus like Minnesota," Power said.

"For some time money is going to have to come from outside sources since many houses are losing money."

The students, of course, are most responsible for the resurgence of Greek interest. They have stabilized the number of Minneapolis campus fraternities at 25 and the sororities at 14. In a five-year period they have slowly increased membership from 1,016 to an expected fall quarter total of 1,600 (approximately 1,000 fraternity men and 600 sorority women).

The number of houses and present membership totals don't match the peak years of the 1950s and early 1960s when there were 50 undergraduate houses and 2,500 Greeks per year or more; but recent gains have brought hope to those who want to see the 101-year-old University Greek system survive.

"I was a member of Kappa Alpha Theta in the 1940s and I happen to think that Greek life is as desirable and beneficial to many students today as it was then," Mrs. Plunkett said.

"The friendships alone are priceless. We believe a student will meet at least 500 people because he or she is a Greek."

"I believe the system will survive and grow in the years ahead. We'll see recolonization of houses in the next several years," she said.

"The future of the system depends on how innovative it will be," Power said. "Minnesota is a commuter school and because of

that it has never been as strongly Greek-oriented as big schools in smaller towns. The Greeks have always had to compete hard for members, but especially so in recent years.

"There's been renewed interest in the Greek system in many places throughout the country where interest had been decreasing. This is particularly true on both coasts.

"Actually, I think there's more revival and growth going on there than there is here. There's been some very mild growth here but no one should see too much blue-sky," she said.

Greeks eliminate hazing and blackballing from system

Recent changes which have helped stimulate growth in the Greek system include the



SALLY JO POWERS, Panhellenic advisor from the Office of Student Affairs, finds the sorority system more stable because of alumnae commitment over the years.

elimination of blackballing and hazing, and more tranquil times on campus. Blackballing (a secret vote taken on whether to accept or reject a prospective member) is reportedly not used anywhere on the campus. Hazing, which can consist of various nasty chores and embarrassments for new members, has been dropped in most houses.

Blackballing was once popular among those



MARY JANE PLUNKETT, the advisor to the Interfraternity Council from the University's Office of Student Affairs, is enthusiastic about the vitality and benefits of Minnesota's Greek system.



ALONG "FRATERNITY ROW" opposite Minnesota's Memorial Stadium stands the Sigma Alpha Epsilon and Alpha Tau Omega houses, still the settings for active and alumni fraternal gatherings.

houses which were more interested in a prospective pledge's bank account or blood-line than they were his or her character.

"That kind of snobbishness has virtually disappeared from the system today," according to Mike Donahue, a recent past president of the Interfraternity Council.

"We look at the rushing process as a matchmaking thing. Chances are that if a guy wants badly to be in a house, he will make a good member. The houses don't pledge anyone who doesn't first demonstrate a real interest."

The Interfraternity and Panhellenic councils both report that few students who want to become Greeks are turned down.

"Students will nearly always have a chance to join the house which is his first or her second choice," said Lu Ann Van Avery, Panhellenic president. "Quotas are the one thing that can interfere with the number of students that can pledge a house per quarter."

(University fraternity and sorority houses range in sleeping size from 15 to 50. The bigger houses have had as many as 90-100 total members, but few are at full capacity now.)

A few years ago hazing of pledges took the form of such ordeals as cleaning toilets at 3 a.m., swallowing gold fish and wearing burlap underwear to class. "This has pretty much disappeared," according to Donahue, a member of Alpha Tau Omega.

"Occasionally some house will tie up a few of their pledges — stripped to their underwear — in front of a sorority house, but there's not much of that any more. Kids today just won't put up with that crap. Hazing will soon be a thing of the past," he said.

"I don't know of any hazing anymore," said Van Avery, a Tri Delt. "There just aren't any mean tricks in the sororities."

Another negative image the Greeks are fighting is their long-time reputation as bastions of frivolity. "A lot of kids think of the

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Greeks as a bunch of drinkers who party all the time," Van Avery said.

"That was exactly my impression when I first came on campus," Donahue said. "I thought those bastards don't do anything but mess around."

"This kind of thinking has been passed on to many college students by their moms and dads. This was the image some of them had of the Greeks when they went to school. My mom didn't want me to join a frat because she thought a frat house was a glorified Playboy Club."

"Well, that just isn't the way it is. Sure we have our parties and good times, but most of this sort of activity is either at the beginning or end of the quarter when it doesn't interfere with school."

"There's nothing wrong with a few parties. Today's student is serious, but he wants to have some good times. He isn't as uptight as the student of a few years ago who was hung up with Vietnam. We're not carrying the weight of the world on our shoulders," Donahue said.

"Regarding girls, I think for the most part there's a great relationship between the fraternities and sororities. Most of the girls we really respect. They act like ladies and we treat them that way."

Donahue said he joined Alpha Tau Omega because of its members. "I found the guys to be very low-key and natural," he said. "I also discovered I had much in common with them."

"I don't come from a super-rich family and neither do most of the Greeks. They're from middle class or blue-collar families. A lot of Greeks are working their way through school."

"One of the things I like about our house is that it's very unstructured. We have no written by-laws. We consider important matters through an open forum."

"Now the Kappa Sigma house, for example, is very structured and does many things just as they have been done for years. Traditions have been kept up there, while at other houses they have changed or disappeared, but this is part of the great variety in houses today."

Singular personalities of houses reflect a wide variety of members

"Houses have different academic majors and priorities. Some houses put a lot of emphasis on intramural sports, while others go in for civic projects, or student government or academics. Each house really has its own personality and that reflects the real cross-section of people you find in the Greek system today," Donahue noted.

Van Avery said she joined the Tri Delt house because she liked the academic atmosphere.

"I wanted to be involved with groups at the University because this is the only way you have any identity at a large school like Minnesota. At the same time I wanted a place where I knew I could study. This was it."

Another Greek system attraction, according to its proponents, is the cost of living in a fraternity or sorority. On the average, Greek living is less expensive than dormitory residency and in many instances may be cheaper than living in an apartment.

Costs for dormitory residency are expected to average \$478 per quarter this year, while the cost of a fraternity residency is expected to be \$430, according to the Interfraternity Council.

"Even if you don't live at a fraternity or sorority, you can still have meal and parking privileges," Van Avery said. "When you consider those two things, along with the friendships you make and opportunities you have for personal growth, you can see that Greek life is pretty great."

Greeks have high visibility on Minneapolis campus

Despite their small size, the Greeks are highly visible on the 42,970-student Minneapolis campus. They annually hold a larger share of student government and other leadership positions than any group on campus. They are involved in social service projects on and off campus, and they also lead the way in such traditional campus activities as Campus Carnival and Homecoming.

Greeks collect for such volunteer projects as the United Way, visit homes for the elderly, handicapped and retarded, coach inner-city children in sports, participate as "big brothers" in a YMCA program, take underprivileged children to the circus, tutor grade school students, orient high school students to the University, and organize and work on University clean up projects.

Last winter a Greek-sponsored dance

marathon raised \$8,000 for Muscular Dystrophy. In the spring the Greeks played a major role in Campus Carnival's successful effort in raising \$13,000 for Camp Courage, a facility for crippled children and adults.

Last fall Greeks continued the revival of Homecoming (dead from 1969-72) by building floats and decorating their houses. More of the same is planned for this fall and there's even been some talk about reviving the long dormant Homecoming parade the day before the Homecoming game.

What will they think of next? Maybe a bonfire? — Dave Shama



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THIS SUMMER in Northrop Auditorium, University vice-president Al Linck presented Frederick Fennell with a plaque designating him as one of the most influential American conductors of the century. The ceremony occurred during the opening Bicentennial celebration of the University.

Fennell was guest-conducting the University's concert band and combined bands as part of an American Heritage Band Festival. He is currently artist-in-residence at the University of Miami and was associate conductor of the Minneapolis Symphony and director of the Eastman School of Music Wind Ensemble.

The plaque, the first of a series, honors outstanding people in American music as chosen by University band directors.

At each of the University bands' Northrop concerts next year a plaque will be awarded to an outstanding person in American Music, five or six in all, such as composers, conductors and performers in classical, jazz, TV and popular music.

Some of the names being considered for the University Bicentennial Salute are Howard Hanson, William Schumann, Clark Terry, Salo Schiforin, Count Basie, Vincent Persichetti and Meredith Wilson.

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The challenge that is Minnesota basketball

Historically, the University of Minnesota basketball coach's job has been a challenge. New coach Jim Dutcher — Minnesota's fifth head basketball coach in the last 10 years — can expect to face many of the same problems which confronted his predecessors as well as some new challenges.

During the first two years of Big Ten basketball competition, the Gopher teams of 1905-1906 and 1906-07 were champions and co-champions of the league. Then the other Big Ten teams must have been wondering if Minnesota wasn't destined to be a continual power.

But the Gophers sagged and didn't produce a conference champion until the 1918-19 squad went 10-0. Except for second place finishes in 1930-31 and 1931-32, the Gophers languished in the second division of the Big Ten until the 1936-37 season when Minnesota tied Illinois for the championship with a 10-2 mark.

Then basketball times worsened for Minnesota — the Gophers didn't win another title until 1971-72 when coach Bill Musselman directed them to the top.

In those 35 years between titles the Gophers had been a bridesmaid many times. Coach Osborne Cowles, who led the Gophers from 1948-59, knew the most frustration. He had five teams which finished one or two games behind the conference champions.

Probably Cowles' best team was the 1954-55 squad which placed second behind Iowa, a team which went on to finish second in the NCAA tournament. The Gophers could have gained a title tie if they had beaten Iowa in Minneapolis when record Williams Arena crowd of 20,176 turned out to watch that game.

When Cowles retired he was succeeded by John Kundla, a star on the 1936-37 Gopher team. Kundla had actually been part of the "enemy" during the 1950s when he coached the Minneapolis Lakers to several world championships.

In the late 1950s the Lakers were falling on hard times — the team had been decimated by old age, attendance was under 2,000 per game and financial leadership was lacking. Kundla was anxious to leave behind such problems, and others, like the frequent travel of pro life, and return to the University campus.

And Minnesota was anxious to have him. The University felt that the Lakers had hurt the Gophers at the gate and they were anxious to consistently fill the huge Williams Arena (the largest college-owned arena in the country at that time) with big crowds.

Athletic director Ike Armstrong felt Kundla's fast-break pro style would turn on the fans and that his magic pro touch would convert Minnesota youngsters into accomplished basketball players.

That pro touch didn't work. Basketball had been evolving since the so-called modern era began in 1939-40 and had been changing fast since the mid-1950s. The game opened up, shedding its old patterned and structured style of play. Players were needed who had speed, quickness and jumping ability.

It also helped if they played a lot as youngsters. Minnesota's young men, distracted by competing winter sports, unable to play outside four to five months a year and fewer in numbers than many other Big Ten states, fell behind in basketball talent to the Michigans, Indianas, Ohios, Wisconsin, Iowas and Illinois.

First black players lead Minnesota to Championships

Kundla's best seasons were 1963-64 and 1964-65 when the Gophers finished one and two games behind conference champion Michigan. Those teams were led by the first black players ever awarded basketball scholarships at the University — Lou Hudson, Archie Clark and Don Yates.

They came from North Carolina, Michigan and Pennsylvania and brought with them skills Minnesota fans weren't used to seeing. After five years of struggling, Kundla had the players he needed to run the fast-break and play the full court style of offensive and defensive basketball that the rest of the conference did.

Unfortunately Kundla and his staff couldn't keep the Hudsons, Clarks and Yates coming to Minnesota and they had very little help from the state high school ranks.

In 1966-67 the Gophers slipped to ninth and a year later Minnesota finished last. Athletic director Marsh Ryman decided Kundla should retire from coaching.



NEW BASKETBALL COACH JIM DUTCHER is already feeling the effects of the NCAA investigation on his recruiting for next year. But he is optimistic that Minnesota can have a successful basketball program.

Ryman was Minnesota's first athletic director since the 1920s who had to worry about Athletic department finances. In 1966-67 the Athletic department showed its first deficit and it became clear that revenues had to be increased in football and basketball — the two sports which support the 12-sport program.

Murray Warmath had taken the football Gophers to two Rose Bowl games in the early 1960s and though fortunes on the football field and fan attendance sagged, Warmath's position as head coach was solid because of his earlier triumphs.

Basketball was clearly the spot which had to be stepped up in performance and attendance. The man Ryman named to do it was Bill Fitch, a championship coach at North Dakota and Bowling Green before coming to the University.

Fitch won the Minnesota job as much for his personality as his basketball knowledge. He had as many one-liners as Bob Hope and was a sensation speaking before groups throughout the Twin Cities and the state.

Ryman sought a personable coach because he felt promotion was extremely important — the University was competing for the entertainment dollar with the Twins, Vikings and North Stars, and, at that time, an American Basketball Association (ABA) team.

Personality was a must for recruiting, too. It took charm to attract players to Minnesota, a place where the winters are "dreadful" and there is a little basketball tradition. Also, Minnesota was further away from the basketball recruiting hotbeds than most schools.

Fitch is first Minnesota coach to become fully involved in recruiting

Bill Fitch was a charmer (he once joked that he did a better job of recruiting a youngster's mom than the youngster) and he quickly adapted to being the first Minnesota head coach to fully apply himself to recruiting.

He brought several outstate players to Minnesota, including the 1969 Illinois High School Player of the Year, Jim Brewer, who later led the Gophers to a Big Ten title. Fitch also sparked a mild wave of interest in basketball, pushing attendance from 3,000 to 7,000 per game.

His first two teams had .500 records, but he was working with Kundla's talent and when the freshmen became eligible, fans felt fortunes would improve. However, Fitch decided to accept the head coaching job of the National Basketball Association's (NBA) Cleveland Cavs whose owner was an old friend.

Fitch made a strong plea for his assistant, George Hanson, to succeed him as Gopher coach. The search committee gave in, although many preferred Bobby Knight (then

head coach at Army, now at Indiana).

Hanson, a soft-spoken, warm and friendly man, was overwhelmed by the players he inherited from Fitch. They had basketball ability, but they didn't have maturity and Hanson simply couldn't handle them.

He discovered that many of the big-time players had a far different attitude about basketball and life than the young men he had directed as a high school coach in Minnesota. Disappointed and perhaps even heart-broken, Hanson resigned.

Again the University needed a basketball coach and again the circumstances were similar to those when Fitch was hired. The Athletic department's yearly deficit was now approaching \$500,000 and a coach was needed who could win and fill the arena.

Bill Musselman, then 30, got the job because he had won about 70% of his games at Ashland College and packed the gymnasium there with his Globe-Trotter-like warm-up drill.

When it came to winning and filling the arena, Musselman was an instant success. He won the Big Ten championship his first year and in the process set new Gopher basketball attendance records.

In four seasons at Minnesota, Musselman had three teams which placed among the top three in the conference. His teams played before several sell-out crowds and some home games were even shown on closed circuit television.

1974-75 Gophers show all-time high in earnings

The 1974-75 team grossed an all-time record amount for Minnesota basketball — \$425,000. The financial contributions of Musselman's basketball teams played a major role in helping Athletic director Paul Giel put the Athletic department into the black. The last two fiscal years Minnesota athletics have finished \$20,000 to \$40,000 in the black, reversing the trend of deficit years dating back to 1967.

An extremely hard and energetic worker, Musselman always set his sights on winning the Big Ten championship. His desire to win "right away" motivated him to recruit all over the country. He said that no coach could win with Minnesota home-grown talent and he wouldn't take even one player if that player couldn't help him win the Big Ten.

In recent months the National Collegiate Athletic Association (NCAA) has raised some questions about Musselman's recruiting. Allegations have been made against Musselman and others that players were recruited in violation of NCAA relations.

The NCAA investigation forced University



OZZIE COWLES led the Gophers from 1948-59 and had five teams that finished one or two games behind the conference champions. His 1954-55 squad finished second in the NCAA tournament.



JOHN KUNDLA, a 1936-37 Gopher basketball star, left his job as head coach of the professional Minneapolis Lakers to coach the Gophers. He brought the first black stars to Minnesota.

officials to back off in their support of Musselman and he decided to accept the head coaching job of the ABA's San Diego Sails.

The NCAA has given University officials many allegations of violations against the basketball program and has asked the University to respond to the charges. The University is conducting its own investigation and the results of that should be known no later than January or February.

If found guilty, the basketball program might be penalized in various ways, including restriction from NCAA playoff competition and being allotted three scholarships per year instead of the six allowed at other NCAA schools.

Jim Dutcher's 1975-76 team may not have

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A Minneapolis Tribune photo.



BILL MUSSELMAN left Minnesota to become head coach of the American Basketball Association's San Diego Sails shortly after the NCAA investigation of recruiting violations at the University was launched in the fall of 1975.

BILL FITCH, a personable young coach with excellent records at North Dakota and Bowling Green, was hired by Athletic director Marsh Ryman to step up Gopher basketball performance and attendance. He was the first Minnesota basketball coach to devote himself full time to recruiting.



GEORGE HANSON found that many of the big time college basketball players had far different attitudes about life and basketball than had the young men he coached in high school, and resigned after one year as Gopher coach.

to play under the weight of a penalty, but the investigation is already affecting the program.

NCAA investigations hampers current recruiting

"We've begun our recruiting for 1976 and about the first thing you hear from kids is regarding the investigation," Dutcher said. "Some have told us they wouldn't come if there is a penalty, others have said they would consider coming here to school if the penalty was for only one year.

"If our numbers on scholarships are restricted, it really makes our job harder because it cuts into our depth and means we just can't afford mistakes on judging a player. Each player has to come through."

An NCAA investigation is something new for a Minnesota basketball coach and it's an extra burden along with other pressures of the job — the winning, the recruiting, handling players, filling the arena and meeting the public.

"I knew about all of these factors when I accepted the Minnesota job," Dutcher said. "If everything were a bed of roses here there probably wouldn't have been an opening.

"We can meet our challenges and have a successful program. I've got that much confidence in myself and in Paul Giel. I only had one question when I heard about the Minnesota opening and that was who runs the Ath-

letic department at Minnesota? I found out it's Paul Giel. The athletic director is not running the show at some schools!"

Dutcher, quiet, considerate and personable off the court, has outstanding credentials. He was head coach from 1958-66 at Alpena (Mich.) Community College and from 1966-72 was head coach at Eastern Michigan. He had six teams in post-season tournaments and compiled a head coaching mark of 231-120.

As an assistant coach at the University of Michigan, Dutcher was highly respected. Michigan coach John Orr relied heavily on him, and his influence contributed to Michigan fielding one of the nation's top teams in recent years.

Big Ten coaches say Dutcher is very effective as a teacher and game coach. Orr praises

him for the rapport he had with the Michigan Players. The latter is something in which Dutcher takes particular pride.

"I'm a friend of the players, but not a buddy," he said. "My door is always open to them."

When Dutcher opens practice later this month he will greet a team which is without five players who were expected back, including two starters. He will have one full-time starter and two part-time starters returning.

The players who quit before and after the NCAA "mess" have left the Gophers lacking in starters and bench strength. Dutcher reports he may have difficulty finding more than 10 players for the roster.

Still he isn't looking for sympathy. "We have some good players," Dutcher said. "We'll need to avoid injuries and have everything break right for us to become a strong team.

"I know we'll have to play together. You always do in basketball. It's a team sport. Teamwork, controlled fast-break and pressure defense. That's the way I like to play the game.

"We might not be able to run or play much pressure defense this year. We'll have to see what the players do best.

"Eventually, though, we'll get players to suit my style. I'll recruit in the Midwest first and then in the New York and Washington, D.C. areas. Anytime there's a Minnesota kid who is even in ability with the outstate kid, we'll take the Minnesota boy," Dutcher said.

He said he would consider retaining a pre-game warm-up similar to the Musselman era, but probably would decide against it. "I've never used a warm-up like that and I just don't think it would be me," he said.

"Also, some of the players have told me that they don't like it."

Pre-game show or not, a new era has begun in Minnesota basketball. The Big Ten Records Book shows that Minnesota, in sixth place in the all-time conference basketball standings with a 439-438 record, is not the easiest nor the most difficult place to coach basketball, but Jim Dutcher will discover there is no shortage of challenges. — Dave Shama

New cancer test will be studied at University

Large intestinal cancer, one of the major killers in the United States, will be the subject of a University study in which 30,000 persons will participate.

Dr. Victor Gilbertsen, head of the University's Cancer Detection Center, will study the effectiveness of testing for blood in stools as a widespread method of detecting large intestinal cancer. Supported by an initial National Cancer Institute grant of \$300,000, the study is expected to take 10 years and eventually involve \$5 million in National Cancer Institute funding. Participants will be provided by the Minnesota division of the American Cancer Society.

Gilbertsen said the 100,000 new cases of large intestinal cancer in the United States each year make it one of the major killers. Death occurs in 90 percent of the cases, he said.

"Most of the patients who have this disease are already incurable when they see the doctor about it," Gilbertsen added.

Symptoms usually occur only after the disease has progressed to an advanced stage, where treatment is no longer effective, Gilbertsen said. However, he said, it might be possible to detect large intestinal cancer at an early and curable stage by testing for blood in the stools.

Termed "occult blood," or blood not visible to the naked eye, its presence in the stools could occur very soon after the onset of large intestinal cancer, Gilbertsen said. If this is the case, widespread testing of the high-risk group of persons 50 years old and older might prove effective in detecting large intestinal cancer while corrective surgery or other treatment could save the patient's life, he said.

Blood in stools does not necessarily mean cancer.

"The majority of blood-in-the-stool cases are not associated with intestinal cancer," Gilbertsen said. But the presence of blood would indicate the need for a full physical examination to determine the cause, he added.

At the present time, examination of the lower large intestine — a procedure called a proctosigmoidoscopy — is effective in detecting cancer only in that portion of the large intestine, Gilbertsen said. The procto is not effective in detecting cancer in the upper part of the large intestine. Testing for occult blood in the stools might fill this detection gap.



Dr. Victor Gilbertsen views Hemocult slide.

Dental School begins special tooth decay research program

The first disease-oriented training program in the country focusing on dental caries (tooth decay) research has been established at the University's Dental School.

A five-year \$500,000 grant from the National Institute of Dental Research supports the program which will involve recently graduated dentists and basic science PhDs in a multidisciplinary team approach to tooth decay.

Tooth decay is a complex infectious disease affecting more than 95 percent of the U.S. population.

Researchers trained in the program will be capable of developing and testing various therapeutic approaches to suppression of decay-causing bacteria or protection of tooth surfaces with sealants or trace elements such as fluoride.

Congressman, lawyer receive OAAs at Law School commencement

Minnesota Congressman Donald M. Fraser and New York lawyer Melvin C. Steen received University of Minnesota Outstanding Achievement Awards this summer during commencement ceremonies for graduates of the Law School.

The awards, given to University alumni who have achieved high distinction in their fields, were presented by Albert J. Linck, then acting vice president for academic affairs, at ceremonies in the West Bank Auditorium on the Minneapolis campus.

Fraser, who was elected congressman for Minnesota's Fifth District in 1962, is a 1948 graduate of the University's Law School. He was president of the University of Minnesota Law Alumni Association from 1958 to 1961.

Steen, a partner in the New York law firm of Cleary, Gottlieb, Steen and Hamilton since 1946, has been active in Law School alumni associations since his graduation from the University in 1929. He is a director of the Legal Aid Society of the City of New York, a member of the International Law Association and of the American Society of International Law, director and secretary of the Sherman Fairchild Foundation and chairman of the board of Astra Pharmaceutical Products, Inc.

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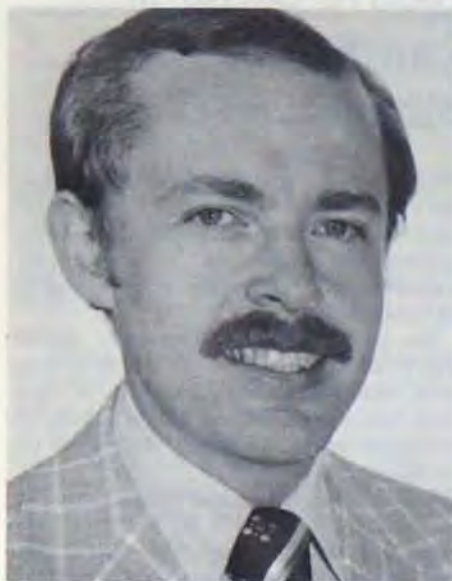
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New constituent presidents are community leaders



Bob Pickett



David Young



Jack Melland



Carol Vennes Miller

David Young leads Social Work Association

David D. Young '70MSW, a social work supervisor for the Hennepin County Welfare department in Minneapolis, is president of the School of Social Work Alumni Association.

He has also served as a clinical field instructor for the University of Minnesota and for the George Washington Brown School of Social Work, Washington University, St. Louis, Mo.

Young was recently elected treasurer of the Minnesota chapter of the National Association of Social Workers. He will serve a two-year term.



David Speer



Ron Olson



Don Braman

White Bear Lake pharmacist heads his alumni group

Robert Pickett, Jr. '68BPhm, a staff pharmacist at the Bel Aire Pharmacy in White Bear Lake, Minn., is president of the College of Pharmacy Alumni Association. A native of Biwabik, Minn., he attended Virginia (Minn.) Junior College and the University of Minnesota-Duluth, before transferring to the University's Twin Cities campus.

Bob is a member of the Minnesota State Pharmaceutical Association and the National Association of Retail Druggists.

He, his wife, Shelby and son Rob make their home in Shoreview, Minn.

General College leader is Quality Park salesman

Jack Melland '49AA, president of the General College Alumni Association, is a salesman for Quality Park Products Company, an envelope manufacturer. He services the Twin Cities area.

He joined the company in 1949 and has spent his entire business career there except for a two-year hitch with the Marines during the Korean Conflict.

He was Quality Park's Man of the Year in 1967 and 1968, and qualified for the company's Century Club in 1974 because of his sales achievement.

Jack is active with the Minneapolis Jaycees, St. Anthony Sports Boosters, St. Anthony Village High School Parents Advisory committee, Zuhrah Shrine Drum Corps, Toastmasters and the Midlands Hills Country Club.

He and his wife Mary Ann have two children, Scott, a 1975 St. Anthony Village High School graduate, and a married daughter Karen, whose husband is currently enrolled at the University's School of Dentistry.

Nursing president is well-known area educator

Carol Vennes Miller '48BNurEd '67Med is assistant professor of nursing at St. Olaf College, Northfield, Minn., working with students in the medical-surgical area at Fairview Southdale hospital.

She has had a long and varied career, serving as a staff nurse, pediatric head nurse, surgical supervisor and clinical instructor at the University of Minnesota; as a Minnesota fac-

ulty members teaching in the fields of baccalaureate nursing, practical nursing and x-ray technology; as a project director for refresher education for allied health professions at the American Rehabilitation Foundation; and as curriculum chairman and a faculty member of the St. Barnabas School of Nursing until its closing.

A busy mother, church and community member, Carol is the co-author of *Patient Care and Special Procedures in X-Ray Technology*. She has been active in choir and Christian education at the parish and diocesan level, with the Girl Scouts and as director of the Richfield Senior Citizens choir. As a member of the Bloomington Natural Resources Commission, she worked long hours to achieve the land purchase and establishment of a community nature center.

Her husband Dr. Sherman H. Miller '44DDS is an Episcopal priest and practicing dentist. She has three children, a daughter Martha, and sons Brian and David.

Ron Olson heads Education alumni group

Ronald L. Olson '66MA, Hopkins, Minn., current president of the College of Education Alumni Association, has been vocational coordinator in trades and industry at Hopkins' Eisenhower Senior High School since 1964. He has also been an instructor in the University of Minnesota's department of industrial education since 1968.

Ron previously taught in the Minneapolis Public Schools, at Mora (Minn.) Senior High School, in Adult Education for the Hopkins School District, as an In-service instructor for Honeywell Inc. in their Tool and Die Makers program, and at Bemidji and Mankato State Universities.

Also known for his work as a baseball and basketball coach at Hopkins Eisenhower, he has been state director of the Minnesota Association of Vocational Industrial Clubs of America since 1966.

Active in leadership capacities in numerous state and national educational and professional organizations, he most recently served as a consultant to the National Conference on Cooperative Education held at the University of Minnesota, was a participant in the National Institute on the Role of Youth Organizations in

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Public Relations head serves journalism alumni

Don Braman '37BAJourn, head of his own public relations firm in the Twin Cities since 1958, is president of the School of Journalism & Mass Communication Alumni Association. Don has served as an instructor at the University of Minnesota and in public relations for the Minneapolis chapter of the American Institute of Banking, and was formerly employed by the Minneapolis Star & Tribune Company, the Toni Company in St. Paul and the Omsted & Foley advertising agency of Minneapolis before starting his own business. He has been active in his community, notably as public relations chairman of the Mayor's committee for Employment of the Handicapped; as director of the Hennepin County chapter of the National Foundation for

lations field in 1951 in partnership with his father. In 1959 he became president of Sullivan and Speer, Inc., and his present company is the result of a merger with Padilla and Sarjeant, Inc., in 1961 and several acquisitions. Speer was publicity director of the St. Paul Winter Carnival for 17 years and public relations and advertising director of the Minnesota State Fair from 1961-68. He has served as president of the Minnesota chapter of the Public Relations Society of America; as director of the Minnesota Press Club; as campership fund chairman of the YMCA of Metropolitan Minneapolis; and has served as a volunteer public relations consultant to numerous civic and cultural organizations, including the United Way, Governor's Loaned Executives Action Program, Minnesota Orchestral Association, Children's Theater, Minnesota Opera Company and the Minneapolis Society of Fine Arts.

Top fluorine chemist to be honored by University Alumnae Club

Dr. Jean'ne M. Shreeve, who has achieved international recognition as a chemist and research scientist, will receive the University of Minnesota's Outstanding Achievement Award at the October 11 Annual Luncheon Meeting of the Minnesota Alumnae Club. The meeting will open with a social period at 12:30 p.m., followed by the luncheon and program at 1:00 p.m. in the Campus Club, Coffman Memorial Union, on the University's Minneapolis campus. Dr. Shreeve will address the gathering on "Atom and Eve." Named chairman of the University of Idaho's department of chemistry in 1973, she received her master's degree in chemistry from the University of Minnesota in 1956. The research program she has pursued has been one of extraordinary breadth and difficulty and has found strong financial support from both the National Science Foundation and the Office of Naval Research. Her professional achievements have made her one of the top fluorine chemists in the world and gained her numerous honors and awards.

Surviving Law School Class of 1921 holds summer reunion

On July 27 twelve of the sixteen surviving members of the Law School Class of 1921 held a reunion in the University of Minnesota Alumni Club, downtown Minneapolis. Those attending included James Bain, Edward Cincera, Russell Collins, Ralph Comford, Dick Cullen, Amos Deinard, Judge Thomas Gallagher, Judge Paul Jaroscek, Judge Leonard Keyes, Charles Miller, Emmett Tighe and Lewis Lohmann. According to reports, all in attendance had a great time, reminiscing, discussing old friendships and the experiences and episodes that had made their lives and times memorable.

Dental Hygiene Annual Banquet is on October 7

The Dental Hygiene Alumni Association will hold its 10th Annual Banquet on Tuesday, October 7, in the Campus Club on the University's Minneapolis campus. A 6:30 p.m. social hour will precede the 7:30 p.m. dinner and program. Guest speaker for the evening is Dr. Cory Kruckenberg who has recently practiced dentistry in Saigon, Vietnam and Russia. Special recognition will be given the classes of 1950, 1955, 1960, 1965 and 1970 during the program. Reservations at \$8.50 per person can be made by contacting the Dental Hygiene Alumni Association at 2610 University Avenue, St. Paul, Minn. 55114, telephone 373-2466.



Edward Rainville, Jr.

Infantile Paralysis; as special events chairman for the United Hospital Fund Campaign in Minneapolis; as a committee chairman for the Minneapolis Area Chamber of Commerce; as chairman of the Minnesota Orchestra Guaranty Fund Drive and public relations chairman of the Minneapolis Aquatennial; and as a Cub Scoutmaster and Pack chairman. Active in a number of local professional organizations, Don is a charter member of Sigma Delta Chi and former director of the Minnesota professional chapter and a former director of the Minneapolis Advertising Club and the Newspaper Guild of the Twin Cities.

Edward Rainville, Jr. is Mortuary Science president

Edward C. Rainville, Jr. '64AA '66AMS, affiliated with Rainville Brothers Funeral Chapel in Minneapolis, has been elected president of the Mortuary Science Alumni Association. A member of the Minnesota Funeral Directors Association, he is currently serving a three-year term on the board of the Minneapolis Funeral Directors Association. He is also active in Our Lady of Lourdes Catholic Church, having served as chairman of their Tourtiere Dinner from 1971-1974. Active in local politics, Rainville is a precinct delegate and has been chairman of the education committee for the North East Community Organization. He and his wife Marylou have a son, Jeremy.

David Speer leads CLA-UC alumni in '75-'76

David J. Speer '50BA, president of Padilla & Speer, Inc., national public relations firm headquartered in Minneapolis, is 1975-76 president of the College of Liberal Arts-University College Alumni Association. A reporter for the *Minneapolis Tribune* while attending the University, he spent a year as an editor with the Minneapolis bureau of the Associated Press before entering the public re-

Prior to the Annual Luncheon meeting, the Alumnae Club will hold its Fourth Annual Seminar program, this year focusing on "Surviving Modern Womanhood". The special seminars, which will feature some of the area's outstanding professional and activist women, will have two concurrent sessions, from 9:30 to 11:00 a.m. and from 11:00 to 12:30 p.m. Registration for the seminars will open at 9:00 a.m. in the Campus Club. Two University of Minnesota professors, Dorothy Loeffler and Lois J. Fiedler, who also work with a group of Twin Cities women consultants calling themselves Psyche, Inc., will discuss "When to say Yes and How to Say No" in one of the 9:30 a.m. sessions, while First National Bank of Minneapolis administrators, Ellen (Randi) Gru and Diane Sorem, will talk about "Your Money Management Today and Tomorrow" in the concurrent session.

Medical Annual Meeting planned for October 17

The Medical Alumni Association will hold its Annual Alumni Luncheon on Friday, October 17, in the Capitol Ballroom of the St. Paul Hilton Hotel. University president C. Peter Magrath is the featured luncheon speaker. Prior to the luncheon, registration and a Continental Breakfast will be held at the hotel from 8:30 a.m., followed by a bus tour of the University campus at 9:30 a.m. and a tour of the University Health Sciences Center at 10:00 a.m. An afternoon seminar program in the Hilton's Capitol Ballroom, following the luncheon, will feature Dr. Malcolm McCannel speaking on ophthalmology; Dr. Rudolph Classen on orthopedics; Dr. Len Levitan on the E.M.I. Scanner; and Dr. Dorothy Bernstein on "The Psychiatry of Organ Transplantation in Children." These seminars have been approved for credit. Following a 6:30 to 8:00 p.m. social time in the hotel's Minnesota Ballroom, the Annual Dinner Meeting will begin. Featured speaker is Dr. Charles Edwards, former Health, Education & Welfare official. Harold S. Diehl Awards will also be presented to Drs. Bror F. Pearson '32MD, Reuben Berman '33MD and Lawrence F. Richdorf '21MD.



Jean'ne M. Shreeve

Kathryn (Kit) Searight, assistant vice president for consumer affairs at Red Owl and a nationally-recognized expert on consumerism, will investigate "Your Role as a Purchasing Agent: A Day in the Life of a Food Activist" in a 11:00 a.m. seminar. Marlene Roth, president of New Resources, Inc., a firm engaged in the recruitment and placement of women, will discuss "You and Your Life — Not He and Not They" in the other gathering. Reservations for the Annual Luncheon and Seminar can be made at \$7.00 per person, or at \$3.00 if reserving for the Seminar only, by contacting the Minnesota Alumnae Club, University of Minnesota, 2610 University Avenue, St. Paul, Minnesota 55114, telephone (612) 373-2466. Reservations should be made by October 8.



Dr. Edwards

On Saturday, October 18, a block of tickets have been reserved for the Minnesota-Michigan State Homecoming game. Buses will leave the Hilton, following a Brunch, for the stadium at 12:15 p.m. and return to the hotel after the game. Reservations are available for the October 17 Continental Breakfast at \$2.50 per person, for the Alumni Luncheon at \$5.00 per person and for the Annual Dinner Meeting at \$15 per person. Tickets for the Saturday Brunch are \$5.00 per person and for the game, \$7.50 each.



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GOPHER TALES

Cross country runners — harriers as they're known in sports jargon — must look like Americans of an earlier time. On the average, they stand about 5-feet-8 and weigh around 135-pounds. There is not an ounce of fat on their beautifully trained bodies.

Long ago they could have been oarsmen on Viking ships which explored North America. They could have run messages throughout the empire for Caesar.

They could and can do things which fatigue most of us when we even think about them. They run distances of up to 20 miles a day without rest when they are in training. Such physical exercise and mental commitment sparks energy to do other things. They are whole people.

Perhaps that has something to do with why the rest of us have assigned cross country a place of obscurity in our sports consciousness.

Other than football, cross country is Minnesota's only fall intercollegiate sport. At home football games we're occasionally reminded of the cross country scores. These scores are greeted with a mixture of mild applause and indifference — mostly indifference.

Not that anyone is surprised, especially the harriers themselves. They've logged their thousands of miles since their high school days in virtual anonymity.

Maybe they even prefer it that way. Sure, we all hunger for a certain amount of recognition, but perhaps the cross country runner can operate better on inner recognition and satisfaction than extraneous tinsel.

"The cross country runner tends to be an introvert," Gopher coach Roy Griak said. "They're very highly motivated individuals. They set goals and the achievement of those goals keeps them setting other goals."

"The typical boy isn't out for the glory. He's out for cross country because he loves to run and he gains inner satisfaction from the sport."

Griak has coached cross country, track, football and basketball on the high school level. At the University he also coaches track. Cross country, however, has a special place in his heart.

"The boy you work with in cross country is something special," he said. "He's the most coachable athlete I've ever worked with. He's willing to listen because he's dedicated."

"These kids are terrific students, too. The average GPA on the team is about 3.4 (on a scale of 4.0). Between my cross country and track team we had more Williams Scholars than any other sport last year."

Captain Tim Oliver is one of those harriers of whom Griak is proud. He carries a 4.0 average as a business and pre-law major and spent the summer as a junior comptroller for National Super markets.

But Oliver is not Griak's favorite. He says he has none. "That's one of the early lessons of coaching," he said. "You treat everyone as fairly as possible."

"Tim Oliver is one of the stars of this team, but I can look at some young sophomore or freshman who is trying to establish himself and darn if I don't adore that kid for working his tail off."

Hard work is the staple of the cross country runner. An average workout is a quick trek around Lake Calhoun and Lake of the Isles. As the season approaches each harrier may run up to 120 miles per week.

"There's more to training than distance, though," Griak said. "A runner has to learn how to pace himself. He must learn the tempo of running."

"He has to improve his whole body, not just his legs. He's got to lift weights, run wind sprints and do all kinds of things to make himself better."

"And each boy is different and consequently needs a different training timetable. This is what makes coaching more of an art than a science."

Griak apparently is a pretty fair artist. In his second year as Gopher coach he directed the team to its first conference championship since 1914. The 1964 championship was followed by another in 1969.

Minnesota has become a nationally respected school in cross country. Three times in the last 10 years the Gophers have placed in



ROY GRIAK, Gopher Cross Country coach, is his own water boy. Here he uses a pump near Lake Harriet in Minneapolis to fill a container holding a "gatorade" concoction for his runners.

the top 12 in the country, the 1968 squad finishing fourth.

The triumphs and the defeats have involved mostly native sons. They have chugged and churned the six-mile courses throughout the conference and country to bring a measure of satisfaction to their teammates, their coach and themselves.

Ask Griak to recall the most memorable of the races he's seen throughout the years and he ponders the question. "One thing a lot of people who don't know much about cross country fail to realize is that this is a team sport," he said. "You run seven men in a race and five have to place. I can recall a lot of races where some of our better kids hung back encouraging our slower runners to make it so the team could qualify for team points."

"I'll always remember a race Gary Bjorklund, my only all-American, ran against the late Steve Prefontaine in the 1971 NCAA meet in Knoxville, Tenn. Gary ran that race with a very bad back but finished second to Steve. I'm convinced Gary would have won had he been healthy."

"Gary hold the all-time best six-mile mark at Minnesota with a time of 29:20. He might have set even a better mark, but he had a lot of injuries and ailments."

"I've had a lot of boys who had courage like Gary. I recall a boy running the last two miles of a race in the snow with only one shoe on. If he hadn't finished we never would have won the Big 10 championship."

A Big 10 championship is unlikely this year. Other schools like Indiana and Illinois budget more money for scholarships and recruit more extensively. They have a better chance year in and year out than Minnesota.

The Gophers will shoot for as high a finish as possible, a fact which doesn't bother Griak a bit. "I think we've got as good a cross country program as anyone in the country. It's a program for the kids. Any student can come out. We make no cuts."

"There's real educational value to this experience. There are a lot of lessons in character to be learned in this sport."

"Just running up and down those hills every day and having people pass you up yet making up your mind to stick with it is valuable."

"Most of these kids do. They're lean and hard. They know what it's like to really have to work for something realizing they'll never be in the limelight." — Dave Shama



John Geist

John Geist heads Rochester alumni

John Geist '48BSEd, recently elected president of the Rochester, Minn. alumni chapter, is a counselor at John Adams Junior High School in Rochester.

Geist completed his MA in educational psychology at the University in 1953 and served as a counselor and social studies teacher in Traverse City, Mich., Menomonie, Wis. and Waconia, Minn. before coming to Rochester.

His professional activities include membership in local, state and national education associations and in the state and Southeastern Minnesota School Counselor's Associations.

In Rochester he is active as a member and past president of the Rochester Y's Men's Club and as the immediate past president of the Olmsted County Mental Health Association.

He served on a destroyer in the Pacific during WWII after having been commissioned

Top speakers will gather for 1975 Dental Alumni Day

A number of outstanding professionals, including University of Minnesota alumni, will address returning School of Dentistry alumni on Dentistry Alumni Day, November 21.

The morning lectures of the all-day Friday program will feature "The Significance of the Medical History and Physical Diagnosis in Dental Practice," by Dr. Richard Ogle '64BS '64DDS, who received his MS in oral surgery from the Mayo Graduate School of Medicine and is currently enrolled in the University's Medical School as well as being a member of the faculty of the School of Dentistry's division of oral surgery;

"Periodontics in General Practice," by Dr. Ronald LaBelle, '58DDS '64MS, a member of the University's periodontics faculty; and

"Oral Radiographic Technique," by Dr. James Beck, Jr., director of the University's Oral Radiology program.

Afternoon Closed Circuit Television sessions will cover "Surgical Periodontics for the General Practitioner," "Intra-oral Radiographic Technique" and "Clinical Research Involving Vitreous Carbon Implants."

Afternoon Participation Seminars will include "Recording Blood Pressure in the Dental Office" and "Evaluation and Discussion of Practical Clinical Cases Using Case Histories, Models, Radiographs and Photographs."

Participants in the latter sessions include Dr. James Baker '65DDS '70MS, University associate professor of prosthodontics and chief of prosthodontics of the University Hospitals Dental Clinic;

Dr. Lee Hermann '51DDS, associate professor of prosthodontics and acting head of the School of Dentistry's Occlusion program;

Dr. George Lawther '50DDS '57MS, University clinical professor of periodontology and a past president of the Minnesota Association

through the University's Naval ROTC program. While at Minnesota he played football and won an "M" in 1943.

Geist's wife Lois received her degree in education from Minnesota in 1943 and is a counselor at Lourdes High School in Rochester.

The Geists have two sons, Peter and David.

THE MINNESOTA

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of Periodontics and the Midwest Society of Periodontology; and

Dr. Kenneth L. Zakariassen '69BA '70DDS '75MS, in charge of the University's Undergraduate Endodontics program.

Dr. Bruce L. Pihlstrom '65BS '67DDS, a University assistant professor and co-director of the Graduate Periodontology program, is Dental Alumni Day program chairman.

The morning program will be held in the Mayo Auditorium on the Minneapolis campus, and the afternoon program in the new Health Sciences Building.

Dental Alumni Association members may attend Dental Alumni Day for \$12.00, while non-members must pay \$24.50, which includes an annual membership fee of \$12.50.

The ninth annual Century Club banquet will be held the evening of November 21 at the Radisson Hotel in downtown Minneapolis.

On the following day, November 22, the twelfth annual Post Alumni Day Seminar will be devoted to Color Selection in Dentistry, with presentations by Dr. Robert C. Sproull.

Reservations for all these events can be made by contacting the School of Dentistry Alumni Association at 2610 University Avenue, St. Paul, Minnesota 55114, telephone 373-2466.



Ogle



Beck



Pihlstrom



Hermann



Lawther



Zakariassen



LaBelle



Baker

Institute of Technology alumni will look to future at Annual Seminar & Banquet

Dr. John Platt, provocative humanistic scientist, will be the guest speaker at the Annual Institute of Technology Alumni Association's Banquet on November 7 in the Radisson South Hotel.

Platt, a physicist and now associate director of the Mental Health Research Institute at the University of Michigan, will speak on "The Great World Transformation Today." He will discuss the challenges we face through the interplay of science, technology and changing social structures and some of the strategies for dealing successfully with these global problems.

Four Outstanding Achievement Awards will also be presented during the Banquet program. Recipients include Vernon Stenger '33PhD, from 1935 until retirement in 1973 on the staff of the Analytical Laboratories of The Dow Chemical Company;

Glenn Ulyot '33, director of scientific liaison for Smith Kline & French Laboratories until his retirement in March 1975 and now a consultant with that Philadelphia company;

Stanley Wawzonek '39PhD, chairman of the chemistry department at The State University of Iowa from 1962-68 and currently on the editorial board of *Organic Preparations and Procedures* and Electroorganic divisional editor of the *Journal of the Electrochemical Society*; and

Robert Westbee '32 '33MS, former vice president of the electrical products group and retired member of the board of directors of 3M.

The evening Banquet will open with a social hour at 6:00 p.m., followed by the dinner and program at 7:00 p.m.

The afternoon Seminar Program, scheduled for 1:30 to 4:30 p.m. at the Radisson South, will focus on "Biomass — Minnesota's Abundant and Renewable Energy Resource."

A panel will examine a "home-grown" solution to Minnesota's imminent energy deficit. Dr. James Carter, research director of the Minnesota State Energy Agency, will describe the problem and will be followed by four University faculty members, Professors Walter Maier of Civil and Mineral Engineering, Dale Moss of Agronomy and Plant Genetics, David

Kittelson of Mechanical Engineering and Patrick Starr of Industrial Engineering and Operations Research.

These men will discuss Biomass, and the energy available in urban and farm waste, along with the economics and methods for its recovery.

Professor Perry Blackshear of the department of Mechanical Engineering and director of the Center for the Studies of Physical Environment is the program coordinator for the seminar.

There is no charge for the Seminar program. Reservations for the evening Banquet can be made at \$10 per person by contacting the Institute of Technology Alumni Association, 2610 University Avenue, St. Paul, Minn. 55114, telephone 373-2466.



Vernon Stenger



Robert Westbee

Ohio alumni plan "College Presidents' Night in Dayton"

University president C. Peter Magrath will be the featured guest at the Dayton, Ohio alumni group's "Presidents' Night in Dayton" planned for October 23. The alumni are hoping to host presidents from Ohio State, Wittenberg, the University of Dayton, Antioch, Wright State, the University of Cincinnati, the University of Miami, Central State, Wilberforce and Butler that evening.

The chapter also has plans underway for a November 15 football party, a December 14 Christmas party, an Ohio State-Minnesota basketball party on February 23 in Columbus, as well as other activities.



Glenn Ulyot



Stanley Wawzonek

Registration is open for \$1 "Samplers"

A new series of fifteen \$1 lectures offered by Extension Classes is scheduled for evenings during fall quarter.

The lecturers are part of regularly scheduled University classes and are designed to familiarize nonstudents with the kinds of courses available at the University. More than 1,500 persons attended the 43 "sampler" lectures offered last year, and Extension Classes records indicate that many people registered for more than one lecture.

Lectures scheduled for fall will cover such topics as the feminist writings of Virginia Woolf and Simone de Beauvoir; Mark Twain's "tragic" vision of America; Scandinavian immigration to the United States; plant propagation and growth; and relationships between nutrition, obesity and heart disease.

"Virginia Woolf and Simone de Beauvoir: Two Feminists Record with Long Journey Towards Emancipation" was presented October 2 by Miriam Roshwald of the women's studies program. The lecture examined the writings of both authors and focused on the key political and philosophical statements arising from their works.

On October 9, David W. Noble of the department of history will speak on "The Tragic Vision of Mark Twain." His lecture will begin with the closing of the American frontier in the late 19th century and illustrate, through the writings of Mark Twain, the subsequent spatial and identity crises that would help establish the nation's pattern of development for this century.

"Scandinavian Immigrants: Why Did They Leave, What Did They Come To?" will be offered October 16 by Roger McKnight of the department of Scandinavian. The lecture will look at the reasons and conditions behind the massive immigration of Scandinavians to the United States during the last century as well as at the realities they encountered upon their arrival.

"Plant Propagation: Be Fruitful and Multiply" will be presented October 28 by Leon C.

Snyder, professor of horticulture and director of the University's Landscape Arboretum. His lecture, which will cover sexual and asexual reproduction of plants as well as the principles behind stem and root cuttings and grafting, will be presented at the arboretum in Chaska.

"Nutrition, Obesity and Heart Disease" will look at some of the many variables affecting the human heart, such as food, stress, exercise, air pollution and heredity. The lecture will be presented November 6 by P. V. J. Hegarty, associate professor of food science and nutrition.

Registration for each lecture must be made in advance, either in person between 7:45 a.m. and 4:30 p.m., Monday through Friday, in 202 Westbrook Hall, or by writing University sampler, 180 Westbrook Hall, University of Minnesota, Minneapolis, Minn. 55455.

No tickets are available at the door. For further information regarding lecture topics, dates, times and locations, call 373-3039.



PICTURED AT THE Greater Chicago Alumni Club's April Luncheon are, from the left, Hank Dahlberg '40IT, club president; John Drummond '50BBA, CBS news reporter and the featured speaker; and Mrs. Susan Schumacher, secretary.



MEMBERS OF THE DENTAL ALUMNI ASSOCIATION's board of directors gathered proudly in 1975 to display the plaque which tells how Dental alumni have provided a room and facilities for continuing education in the new Dental School building on the Minneapolis campus. Pictured in the back row, from the left, are Drs. M. R. Holland, associate dean of the Dental School; Ed Lechner; Richard Westman; Paul Koch; C. F. Flynn; William J. Dresser; and Fred Carlson. In the front row, Dr. Theodore Thompson, Dean Erwin Schaffer, Drs. Kay Ingebrigtsen, president of the alumni group; Ralph Werner, vice president; Duane Hanson; and Roger Fredsall.

around & about the Minnesota Alumni

Pharmacy

61 Edward Jimenez '61PhD, University of Minnesota-Duluth assistant clinical/professor of neurology, was one of two UMD faculty members who were the first to receive the annual Outstanding Teacher Awards sponsored by the Minnesota Medical Foundation. The award is given annually to a regular member of the faculty and to an area doctor on the clinical faculty. Dr. Jimenez, who is a member of the Duluth Clinic, has been on the UMD clinical staff since 1974. He previously worked for the University of Minnesota and Veterans' Hospital in Minneapolis, the VA Hospital and Albany Medical College in New York and the VA Hospital and medical school in Milwaukee, Wis.

Dentistry

31 Dr. Roy S. Hanson '31DDS has retired from practice in Hoffman, Minn. The community threw a surprise retirement party for him in mid-September. His practice is being continued by another University of Minnesota graduate, Dr. Gerald E. Maher '68DDS.

Education

31 Margaret Christy '31BSEd has joined the University of Wisconsin's School of Music Pre-college Institute in Madison after 30 years as professor of cello at the University of Alabama. While at Alabama she was associated with the famed violinist

and educator, Dr. Ottokar Cadek, leader of the University of Alabama String Quartet which was named for him after his death, and she was cellist in this nationally-recognized ensemble until her retirement to full-time teaching in Madison. Following her graduation from the University of Minnesota, Miss Christy was awarded a scholarship to the Julliard School of Music in New York where she earned an artist's diploma, and later a master's degree in music education from Columbia University. She has studied with several famous artists, including Pablo Casals, Engelbert Roentgen, Nicholai Grauden, Willem Willeke, Luigi Silva and Mischa Schneider, cellist of the Budapest String Quartet. She taught at Hastings College in Nebraska and at Drake University before spending most of her career at the University of Alabama where she received national awards and recognition from the American Music Teachers and American Federation of Music Clubs.

40 Della Mae Ector '40BSEd has received a master of science degree in education from the University of Akron in Ohio.

54 Yvonne Beaumont Moore '54BSEd has opened her own office for the general practice of law in Burnsville, Minn. She taught school in Minnesota's Minnetonka district 276 before completing her law school education at William Mitchell College of Law in 1963. She was subsequently a tax attorney for the State of Minnesota Inheritance and Gift Tax division and for the last two years, Legal Assistance attorney for Dakota county.

Journalism

32 Vince Bovitz '32BA, St. Paul, was inducted as president of the world's largest membership sports organization, the American Bowling Congress (ABC) on September 20. After graduation from the University, he worked for the *Chatfield* (Minn.) *News*, becoming its editor in 1939. Following service in the U.S. Army from 1942-45, he entered the hotel business and operated the Hotel Chatfield from

1945-49. The next year he moved to St. Paul to become director of public information and chief of technical and support services for the Minnesota Highway Department. He joined the board of directors of the Greater St. Paul Bowling Association in the 1950s and served as the association's president from 1959-60. The following year he was elected to the ABC board of directors and became a vice president in 1967. He will become president of the Minnesota State Men's Bowling Association following his ABC term.

50 Thomas P. Skoog '50BA, Bloomington, Minn., has been promoted to vice president of the Industrial Graphic division of 3M Company. He had been general manager of the division since its formation in 1973. He joined the company in 1955 and has held various sales, marketing and management positions in the Photographic, Printing, Industrial and Nuclear Products group.

73 William R. Johnson, Jr. '73BA has returned to Coon Rapids, Minn., after postgraduate studies in art and theater in London, England. A writer and cartoonist, his humor has appeared in *Ski* and other magazines.

Graduate

52 Morton Alpert '52PhD, South Bend, Ind., has been named manager of Stain Research and Development in the Ames Company division of Miles Laboratories, Inc. He was previously director of Clinical Research for Ames. He joined Miles in July 1968 as Ames director of Clinical Sciences after serving as associate professor of anatomy at Indiana University School of Medicine.

54 John Linnell '54PhD, former dean of the College of Arts & Sciences at Grand Valley State College, Allendale, Mich., is now serving as academic dean of Beaver College, Glenside, Penn., and as professor of philosophy. An experienced teacher and administrator, he has also served as dean and professor of philosophy, vice president for academic af-



Dr. Van Dyck

Van Dyck named Drake chairman

Rosemarie Van Dyck '57MA, professor of Spanish at Drake University, Des Moines, Iowa, has been named chairman of that institution's foreign language department.

She received her PhD from the University of Madrid in Spain and has also studied at Middlebury Summer Language Schools and has certificates of study from the Central School of Languages in Madrid and the University of Lisbon in Portugal.

She is president of the Iowa Foreign Language Association and a past president of the Iowa Association of Teachers of Spanish and Portuguese.

She is well known throughout Iowa for her work in the area of Foreign Language Methodology and Individualized Instruction and has served as consultant for various programs throughout the state, including several that have been federally funded.

This spring she was recognized as honor teacher of the year in humanities in Drake's College of Liberal Arts. In addition to her new responsibilities, she is also serving as vice chairperson of Drake's University Senate, the chief legislative body within the university.

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fairs and provost at Luther College in Decorah, Iowa, and has taught at the University of Minnesota, the College of Wooster and for 10 years at Sacramento State College, California, where he was chairman of the philosophy department and acting chairman of the division of humanities and fine arts. Very active professionally, he was a member of the board of directors and executive committee of the Cooperative College Registry and recently served as director of a seminar for academic deans in India.

65 Syed Ali Akbar Husain '65PhD, on the staff of Mosul University in Iraq, recently co-authored a book published by that university's Dar Al-Kuttib Organisation for Printing & Publishing.

72 Norman D. Fintel '72PhD has been named the eighth president of Roanoke College in Salem, Va. He was formerly director of college and university services for the American Lutheran Church (ALC) in Minneapolis, a position he held since 1964. Earlier he served the ALC as assistant director of promotion and research for the Board of college Education after nine years as director of public relations at Wartburg College. He is president of the National Lutheran Campus Ministry board of directors, an advisory member of the ALC university, college and high school board of regents, and a college and university consultant.

Agriculture

71 Richard E. Vand Vorde '71MSAg, Stanley, Iowa, a B-52 Stratofortress radar navigator, has been promoted to a captain in the U.S. Air Force. He is stationed at Carswell Air Force Base in Texas.

College of Biological Sciences

62 Dr. Thomas E. Brunelle '62MS '68PhD, formerly assistant vice president for research and development, has been named vice president-corporate science and technology for Economics Laboratory's worldwide operations. He will also be responsible for the company's Chemical Engineering Center in Eagan, Minn., and will supervise research and microbiological operations at Mendota Heights, Minn. He joined the company's research staff as a chemist in 1957 and has held a variety of management positions.

DEATHS



Dr. Paulson

Veterinary Medicine president Paulson dies of cancer

Dr. Clifton A. Paulson '52BA '54DVM, president of the University of Minnesota Veterinary Medicine Alumni Association, died of cancer on August 8. He had held several offices in the alumni organization since joining it in 1954.

Born in 1920, Dr. Paulson was a graduate of Aitkin High School and farmed in that area until 1942 when he joined the U.S. Army. Until his discharge in 1946, he served as a sergeant in the 12th Armored Division in the Pacific.

Before returning to Aitkin in 1960, Dr. Paulson practiced in Plainview, Grand Meadow and Northfield, Minn. In addition to his large and small animal practice, he was a veterinary medical officer for the United States Department of Agriculture.

An active participant in rural youth activities, he worked with 4-H programs and volunteered his professional services to the annual Aitkin County Fair. The Minnesota 4-H Clubs honored him for his outstanding services to youth programs recently.

A member of state and national veterinary medical associations, he was also a member of the Minnesota Veterinary Medical Council and a charter member and former president of the Arrowhead Veterinary Medicine Association.

He is survived by his wife Frankie Mae Nicholson, a psychologist at Minneapolis Children's Hospital, and children Karen, Vicki and Craig.

Bureau of Nursing Education and secretary of the Board of Nurse Examiners, as a National League of Nursing Education assistant in surveying U.S. schools of nursing for national accreditation, as the State of Missouri's educational director for the Board of Nurse Examiners, as director of nurses and the School of Nursing at St. Luke's Hospital, Denver, Colo., as a member of the U.S. Nurse Corps, acting as a consultant for 250 U.S. schools of nursing, as director of nurses at Santa Barbara (Calif.) General Hospital, as a nursing instructor in UCLA's extension division, and, finally, as director of nurses and dean of the College of Nursing at Santa Barbara's Cottage Hospital. In recent years she had prepared an article for The Alumni News on her recollections of the University's School of Nursing.

Alice Leahy Shea (Mrs. Andrew B.) '14BA '35PhD, Claremont, Calif., an associate professor in the University of Minnesota's School of Social Work from 1936 until her retirement in 1950, died May 24. The first recipient from Minneapolis schools of the Laura Spellman Rockefeller Scholarship for two years' study at Columbia University, she served as a psychiatric social worker in the founding program of the Minneapolis Child Guidance Clinic, as a research associate with Dr. Lewis Terman in the *Study of the Gifted* at Stanford University and was the author of *Nature-Nurture and Intelligence: A Genetic Psychology Monograph*, detailing her six years' research at the University's Institute of Child Welfare. She also authored *The Minnesota Home Rating Scale* and numerous articles in professional journals.

Fred F. Moore '14BSAg, Wheaton, Minn., died April 30, 1974.

O. M. Rufsvold '15BCivE, Dallas, Texas, died in early 1975.

David E. Edelstein '16BA, Minneapolis, died February 5.

'20-'29

James H. Werdenhoff '21BCivE, New Braunfels, Texas, died February 24 at age 80. He had lived in New Braunfels the past four years and was affiliated with the First Protestant United Church of Christ, American Legion Post No. 243 and the Old Guard Club in Minneapolis.

Gerald H. Bockus '22BEE, New Ulm, Minn., died March 26 at age 73.

J. Mearl Sweitzer '23BSPHm, Wausau, Wis., died February 13.

Leonard O. Arstad '24BEE, Sarasota, Fla., died September 30, 1974.

J. W. Miller '24BBA, Sun City, Fla., died April 11.

Dr. Arthur W. Swanson '24DDS, a Minneapolis dentist for 48 years, died March 26 at age 77. Until his retirement three years ago he headed a group practice in the Twin Cities. A life member of the American Dental Association, he also belonged to the Minnesota Dental Association and Minneapolis District Dental Society. An avid golfer and sportsman, he was treasurer of the Minnesota Valley Country Club and its oldest living member until his death.

Lawrence A. Tvedt '24BArch, Memphis, Tenn., died January 20, 1973, at age 71. He was the head of L. A. Tvedt Company, building contractors specializing in bridge and dam work, a life member and past president of the Engineers Club, and a member of the American Society of Civil Engineers, the Big Ten Club and Associated General Contractors.

Ethelwyn Weir '24BHEc, Sauk Rapids, Minn., died December 24, 1974.

James P. Barton '25BA, Pittsburgh, Pa., died in March 1971.

Dr. Edwin J. Farrel '25DDS, Dallas, Texas, has died.

'40-'49

Miss Emmely C. Vongoertz '40BSHEc, Biloxi, a therapeutic dietician, died November 27, 1974.

Architect William B. Berget '41BArch, Minneapolis, died August 5 at age 58. He was vice president and secretary-treasurer of Setter, Leach & Lindstrom, Inc., and president of Health Sciences Architects and Engineers, a consortium of three Twin Cities firms working on the design and planning of the \$100-plus million University of Minnesota Health Sciences complex. Active in leadership capacities with professional organizations at the local and state levels, he joined Setter, Leach & Lindstrom in 1947 after doing architectural work in Mexico. From 1950-58 he taught in the University's School of Architecture and practiced independently, then rejoined the Minneapolis firm in 1958.

Melvin J. Petersen '41BME, Glen Park, Ind., died in February 1974.

Myron C. Stafford '41BBA, Minneapolis, died in 1973.

'50-'59

Thomas M. Wamer '51BSEd, Indianapolis, Ind., has died.

Miss Violet R. Littlefield '52MA, Sheyboygan Falls, Wis., died in January.

Dr. James A. Lien '59DDS, Minneapolis, has died.

'60-'69

Mrs. Sharon F. Lien '60GDH, Minneapolis, has died.

Gerald L. Dean '67BSPHm, Lino Lakes, Minn., died May 10. He had been a board member of the College of Pharmacy Alumni Association and a member of the American Society of Hospital Pharmacists and Toastmasters International.

"... any man who doesn't believe in life insurance deserves to die once without having any."
—Will Rogers

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*Premiums are current rates—subject to change by the insurer.
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- You Are Eligible... if you are a member of the MAA, age 60 or under. (Coverage for residents of Texas, Ohio, New Jersey, West Virginia and Florida is not available at this time.)
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- 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. 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.

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MINNESOTA ALUMNI ASSOCIATION GROUP LIFE INSURANCE ENROLLMENT FORM

Prudential Licensed in all states North Central Home Office Minneapolis, Minnesota (Policy Form No. GEN ASS-301)

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 group life insurance provided by the Minnesota Alumni Association Group Life Insurance Program underwritten by The Prudential Insurance Company of America. As a member in good standing, I understand that any and all dividends declared under the above group policy shall become the property of the Minnesota Alumni Association. I represent that each of the above answers is complete and true, and that they shall be the basis of the issuance by the Company of any group life insurance pursuant to this application.

AUTHORIZATION: I hereby authorize any licensed physician, medical practitioner, hospital, clinic or other medical or medically related facility, insurance company or other organization, institution or person, that has any records or knowledge of me or my health, to give to The Prudential Insurance Company of America any such information. A photographic copy of this authorization shall be as valid as the original.

Date _____ X _____ Signature _____

A. Name _____
B. Permanent Mailing Address, Street and Number _____
City _____ State _____ Zip _____

Coverage for residents of Florida, New Jersey, Ohio, Texas and West Virginia is not available at this time.

Date of Birth	Sex	Year Graduated from U of M
_____	_____	_____

Beneficiary (Print Name as MARY DOE, not MRS. JOHN DOE) _____ Relationship _____

Amount of Term Life Insurance: \$10,000

'00-'09

Martin Cornelius '06BEE, Minneapolis, the last surviving member of the 1906 Electrical Engineering class, died August 10 at age 89. During the past few years he had maintained the records of his class, acting as secretary. He had been employed by Westinghouse Electric Company in Pittsburgh, Pa., and U.S. Steel in Gary, Ind. He and his wife had returned to Minneapolis in 1970.

Former New York representative John H. Ray '08BA, Dongan Hills, N.Y., died in May at age 88. He was first elected to Congress from Staten Island and part of Brooklyn in 1952, following retirement at age 65 as vice president and general counsel of the American Telephone & Telegraph Company (AT&T). He had served the Minnesota Republican party for several years as a lawyer on its central committee before moving East in 1924 to become a general attorney for AT&T. He served as vice president and general counsel of the company's Western Electric subsidiary from 1930-36, and became vice president and general counsel of the parent company in 1942. He had retired undefeated at the end of his fifth Congressional term in 1962.

'10-'19

H. Merwin Porter '11LLB, Minneapolis, died June 24 at age 87. He had succeeded his father as president of Belden-Porter Company in 1930, a family firm with which he became affiliated immediately after graduation from the University and remained with until retirement in 1973. He became chairman of its board in 1967. He also served as president of Hennepin Federal Savings & Loan Association from 1964 until 1970, when he became chairman of the board.

Barbara Thompson Sharpless (Mrs. S. F.) '13BSNur, Camarillo, Calif., is reported as deceased. This outstanding nursing educator served as a nursing arts instructor and administrator in the University's School of Nursing from 1921-28 before leaving the Twin Cities for a professional career that led her to work as Wisconsin's director of the

Slayton. . .

From page 1

concern that Slayton might have cancer and the thought of his space career ending had to be an upsetting thought, but as usual, he reacted with courage and determination.

"When the doctors told me about the lesion I thought about what a lucky guy I am," he said. "If they had discovered this before the flight I never would have been allowed to go up. I was also fortunate to have the physical when I did because normally I wouldn't have a checkup for six months or so."

A healthy Slayton will continue to fly and there's nothing he wants more. In 1979 America is scheduled to resume manned space flight with its space shuttle program and he intends to be one of the many pilots involved.

The space shuttle will be a reusable rocketplane which can glide back to earth from orbit. The shuttle is to carry a laboratory which could be outfitted to further experiment with various methods of processing materials in space. It will also be able to carry large and varied cargoes into space, and retrieve and repair satellites.

The logic behind the shuttle is to make more efficient use of NASA's resources. It's part of an over-all design which Slayton and others see as being important not only to the future of the space program, but also to our way of life.

Space program may have answers to many world problems

"The space program (America has spent \$57 billion on it) holds enormous hope for solving so many of our problems," Slayton said. "Communications satellites we've put up have been used by us and some of them have been passed on to countries like India.

"The space program has furnished and will continue to furnish benefits to mankind in fields like medicine, oceanography, meteorology, agriculture and solar energy. All of these areas are extremely important. Solar energy, for example, could solve our energy problems.

"I realize the space program has been and will continue to be costly, but there is potential to do many things in space which will pay for the program many times over," he said.

"Social critics argue we ought to be spending our space dollars at home, but these programs don't offer the technological hope to solve a variety of problems like the space program does. I'm not saying these social programs aren't important, but the need for man to have new frontiers, both physically and psychologically, is crucial to his growth," Slayton said.

Scientists say space stations, or cities in space, could solve all kinds of problems, including energy. One station, housing up to 10,000 people and costing \$100 billion, could supply all of New York City's present energy needs, according to scientists. A colony would generate electricity from sunlight and send energy to earth by microwave relay.

Scientists state that such stations (larger stations might house millions of people) could be realized within the next 15 to 20 years. Other space developments which man has dreamed about for years are close to becoming a reality, too. Slayton, for example, says we have the technology to go to Mars within 10 years.

Slayton works toward a new era in space exploration

Slayton and others can take satisfaction in space triumphs which are leading up to a "new era in space exploration." The recent joint mission in which he participated saw the fruition of a common docking system which linked American and Soviet spacecraft together.

All future American and Soviet spacecraft will carry this tulip-shaped device

which will make future space docking possible. The device also has important implications for possible future rescue missions.

Slayton and his fellow astronauts also heightened the spirit of diplomatic détente. The American-Soviet venture could strengthen goodwill among the two super powers and lead to joint space projects, thus saving each country vast expenditures, according to space officials on both sides.

Slayton does not agree with those critics who believe the Soviets gained considerable technological knowledge from the Americans without giving the United States anything in return. "Look, the technical knowledge they got out of the project could have been obtained for \$1.98 from the Library of Congress," he said.

"They did learn about management techniques from us, but so what? I also think they got a look at the democratic system in action and that's pretty good from our standpoint. It might make an impression.

"And we learned a few things from them, including the fact that we Americans have a tendency to make things too

dam complex. They do some important things in simple fashion."

He will fly as long as possible

At times Deke Slayton sounds a little bit like a philosopher, but he certainly is entitled to play that role among America's astronaut core. Of the 43 American astronauts who have flown into space he is the oldest at 51-years-of-age.

"I don't know that I particularly like that distinction," he said half-heartedly. "I would rather be known as the youngest guy to ever go up."

The implication is that he doesn't have too many years of flying ahead, but anyone who knows Slayton has to believe he will be in the skies as long as possible. — David Shama

Economics department receives Andreas grant

The University's Economics department recently received a grant of \$13,100 from the Andreas Foundation in continuing support of the foundation's fellowship program for graduate economics students from Spain.

This is the eighth consecutive year in which the Andreas Foundation has provided such fellowship support, with grants now totaling \$90,500.

Ten graduate students from Spain have received the fellowships since the program was started in 1968.

"These students have almost without exception been among the top students in graduate economics at Minnesota," said Professor Edward Foster, former director of graduate studies for the department.

The students, who work for Doctor of Philosophy degrees in economics, receive fellowships from the foundation for three years and assistance from the department for one year. Of the 10 students, four have already returned to Spain in university and government positions; one is teaching at the University of California, Berkeley; one is teaching at the University of Western Ontario; and four are still studying at the University of Minnesota.

The program grew out of discussions in the 1960s between Regents' Professor Walter W. Heller of Minnesota and Professor Manuel Varela of the University of Madrid economics department.


Dwayne Andreas, president of the foundation and chairman of the board of Archer Daniels Midland Company, was approached and consented to provide financial support for the program.

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Reservations are now being accepted. A \$150 deposit is required for each person.

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February 4 to February 11, 1976

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The MAA's Special Tour Package Price of \$499 (plus 15% taxes and services), based on two per room occupancy, is reduced \$100 when a third person occupies a double room.

You can bring your son or daughter, mother or father, or another family member, with you to the island of the sun off Mexico's Yucatan Peninsula for just \$399 (plus 15% taxes and services) — and make it a fantastic family vacation!

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Cozumel, once the private playground of Mexican Grandees and presidents and European royalty, can be your family's sunny playground for a complete vacation. Enjoy breakfast in your air-conditioned room, on your private terrace overlooking the Caribbean or under the coconut palms by the pool. Bask in the sun on shimmering San Juan beach, swim in the clear-blue sea or in a beautiful freshwater pool. There are tennis, boating, sightseeing, duty-free shopping and numerous water sports for your pleasure. Dress is always informal. And the weather is delightful, with temperatures averaging 72° in February and water temperatures 71° to 73° year around.

Your tour package includes:

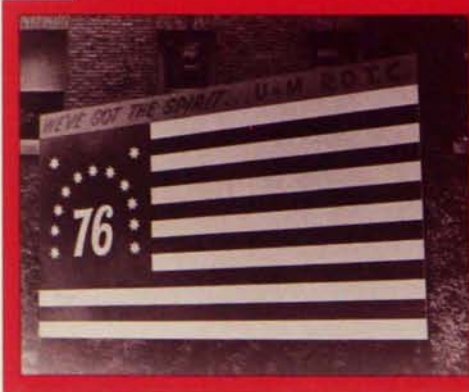
- Round trip on Braniff International Airways DC8 jet charter, from Twin Cities International Airport non-stop to Cozumel, just four flight hours away. First class meals and beverage service enroute.
- Seven nights in one of the great hotels of the Caribbean, the luxurious Cozumel Caribe, on beautiful private San Juan beach. All guests have their own beachfront terraces, baths and central air-conditioning with individual controls.

1975 NOVEMBER

alumni news

UNIVERSITY OF MINNESOTA

MIN
M66



A UNIVERSITY: PEOPLE AND PROGRAMS

Coming in January . . .



A very special MAA Bicentennial program in Continuing Education

The Minnesota Alumni Association and the Department of Extension Classes in Continuing Education & Extension will present a very special Bicentennial program for Minnesota alumni and friends in 1976.

What was Minnesota like at the time of the American Revolution?

Facets of Minnesota history, from its river towns to its politics, will be explored in a series of four illustrated talks presented by University of Minnesota faculty in the Alumni Club, downtown Minneapolis, beginning in January. The talks are excerpts from a program of Minnesota history and culture courses developed by Norman

Moen, professor sociology and behavioral science, who will make the opening-night presentation.

The talks, with discussion periods, are set for 7:30 p.m. on Thursday evenings, beginning January 29 and running every two weeks in the Alumni Club.

Cost of the series is \$10.00 and the general public is welcome to attend.

The Club's dining facilities will be open to non-members who attend the lecture. Parking is available in the IDS Center, the location of the Club, and MTC buses run late to suburban areas.

Make an evening date to meet at the Alumni Club on January 29. Come and celebrate the Bicentennial!

The lecture dates and their topics include:

January 29 — *The Land and the People of the Minnesota Country at the Time of the American Revolution;*

February 12 — *Military Posts and River Towns in the Minnesota Region;*

February 26 — *Social and Cultural Life in Frontier Minnesota;*

March 11 — *Patterns, Personalities and Episodes in Minnesota Politics.*

Look for reservation information in the 1975 December Alumni News.

editorial

POINTS OF VIEW



Ed Haislet
MAA Executive Director

Where do Minnesota graduates reside? Do most graduates live in the state? In the metro area? Are graduates leaving the state in increasing numbers? In order to answer such questions the Alumni Office, every two years, makes an analysis of the place of residence of its graduates, using current addresses.

Here's what the figures show:

Of the 163,126 known addresses on file, 109,578 or 67.28% are in the state of Minnesota. This contrasts with 67% in 1973; 67.4% in 1971; 66.4% in 1969; 65.5% in 1967; 65.8% in 1965; 64.5% in 1963 and 64.0% in 1957.

Reversely, 53,368 or 32.72% live outside the State of Minnesota. This contrasts with 45,666 or 33% in 1973; 39,855 or 32.6% in 1971; 39,154 or 33.6% in 1969; 37,951 or 34.5% in 1967; 34.2% in 1965; 35.5% in 1963 and 36.0% in 1957.

Of the 109,758 graduates residing in Minnesota, 73,382 or 66.85% live in the seven metropolitan counties of Hennepin, Ramsey, Washington, Dakota, Scott, Carver and Anoka. This is up from 53.8% in 1973 and 45.2% in 1971.

Graduates living in Hennepin County number 47,499 which is 43.2% of the 109,758 alumni residing in the state; Ramsey County shows 20,553 graduates or 18.7% of all the graduates in the state; there are 1,627 graduates living in Washington County; 1,605 in Dakota; 845 in Scott; 834 in Anoka County; and 415 in Carver.

There are 36,376 or 33.5% graduates living in the State of Minnesota outside the metro area. Summed up, about two-thirds the total number of graduates live in the State of Minnesota (67.28%), while two thirds of the 109,578 alumni who live in the state reside in the metro area (66.85% of the 73,382 graduates live in the metro area, with 43.2% living in Hennepin County and 18.7% in Ramsey County).

Within the state, but outside the metro area, the greatest concentration of Minnesota graduates is in the Duluth area (5,583). The second heaviest concentration is on the Range (2,464). Rochester is third with 1,752 graduates.

Of the 53,368 alumni or 32.72% who live outside the State of Minnesota, **1,399 or .86% of total alumni live outside the continental United States.** Canada leads with the number of U of M graduates with 791; Europe with 337; Southeast Asia, 293; Asia, 280; South America with 254; Africa with 203.

Of the remaining 51,969 graduates who reside in the United States, other than Minnesota, the 12 states with the greatest concentrations of Minnesota graduates are:

Rank	State	No. of Graduates	Since 1973 Up or Down
1	California	8,259	Up 1,171 from 7,088
2	Wisconsin	4,649	Up 512 from 4,137
3	Illinois	3,450	Up 378 from 3,072
4	New York	2,372	Up 268 from 2,104
5	Iowa	1,923	Up 451 from 1,472
6	Michigan	1,849	Up 189 from 1,660
7	Washington (State)	1,809	Up 203 from 1,606
8	District of Columbia	1,759	Up 216 from 1,543
9	Florida	1,650	Up 392 from 1,258
10	Ohio	1,509	Up 179 from 1,330

(Turn to page 4)

POINTS OF VIEW

Those in the first ten include the same states as in 1973 except Iowa went from 8th place to 5th; with Michigan going to 6th from 5th; Florida going to 9th place; Ohio dropping to 10th.

States with the fewest number of graduates are:

Wyoming (183); Nevada (151); Arkansas (138); West Virginia (138); New Hampshire (115); South Carolina (133); Mississippi (116); Rhode Island (93); Maine (87); and Vermont (74).

The graduates living in the State of Minnesota, at the present time, and showing the college or area in which they received their degree, when compared with figures from 1973, 1971, 1969, 1965 and 1957, show:

College	1975	1973	1969	1965	1957
U of M Waseca	95.0%	—	—	—	—
U of M Crookston	93.4%	92.5%	—	—	—
General College	88.9%	90.1%	91.8%	89.9%	87.0%
Phys Ed/Women	88.7%	85.7%	73.7%	72.8%	—
U of M Morris	88.5%	92.4%	97.0%	93.8%	—
Speech & Theater Arts	87.3%	91.1%	58.1%	68.0%	—
Recreation & Park Adm	86.5%	91.1%	—	—	—
Art Education	82.7%	84.6%	71.9%	76.1%	—
U of M Duluth	82.4%	83.6%	82.6%	83.3%	87.0%
Music Education	81.3%	79.9%	75.0%	68.4%	—
Industrial Education	79.3%	64.4%	69.4%	66.8%	—
Phys Ed/Men	77.05%	71.6%	73.3%	73.7%	—
Pharmacy	76.4%	76.0%	77.0%	71.1%	83.0%
Political Science	72.2%	74.8%	61.5%	57.5%	—
Dental Hygiene	74.91%	74.2%	73.1%	72.8%	—
Education	72.8%	72.8%	71.6%	70.2%	68.0%
Business Adm	72.5%	71.3%	70.9%	—	—
Home Economics	71.8%	69.8%	67.9%	75.0%	65.0%
Law	71.8%	73.3%	73.3%	72.2%	71.0%
University College	71.1%	69.6%	65.8%	64.6%	—
Biological Sciences	70.9%	64.3%	—	—	—
Physical Therapy	69.7%	68.2%	—	—	—
Liberal Arts	69.6%	68.8%	69.6%	67.7%	—
Social Work	68.6%	60.3%	61.3%	62.4%	—
Non-Grads	68.5%	71.8%	—	—	—
Med Tech	68.4%	68.9%	67.6%	64.1%	64.0%
Occupational Therapy	67.0%	67.2%	72.1%	69.0%	59.0%
General IT	65.6%	60.7%	60.5%	63.2%	—
Agriculture	65.4%	64.3%	60.8%	30.0%	—
Journalism	64.4%	56.4%	55.2%	59.3%	—
Mechanical Eng.	63.7%	63.9%	62.2%	61.1%	—
Dentistry	63.7%	64.2%	67.2%	66.3%	69.0%
Arch & Landscaping	62.0%	61.3%	61.3%	63.2%	63.0%
Electrical Eng	61.4%	61.0%	60.2%	57.2%	51.0%
Civil & Mining Eng	60.3%	59.1%	60.0%	59.1%	59.0%
Other	60.2%	71.1%	—	—	—
Mortuary Science	60.0%	61.8%	64.7%	65.7%	—
Ag Engineering	57.0%	53.5%	54.2%	50.4%	58.0%
Nursing	55.5%	54.2%	55.9%	51.2%	—
Veterinary Medicine	54.7%	55.3%	59.8%	61.7%	—

(Turn to page 6)

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alumni news

UNIVERSITY OF MINNESOTA

NOVEMBER 1975

Vol. 75, No. 3

in this issue

The 1975 November issue's cover denotes the multiplicity of facets that are the University of Minnesota, from its programs, both those new and growing in a contemporary world (Freshwater Biological Research Institute) and those established and fighting for existence in a changing society (ROTC); to the variety of graduates it has like Schonstedt who has developed revolutionary metal detecting and outer space devices, or like calligrapher Judy Duncan, whose art is a craft learned through another major career she has now abandoned for her craft. And there is much more!

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Mary Lou Aurell '62BAJourn Editor
Edwin L. Haislet '31BS '33MA '37EdD Managing Editor
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POINTS OF VIEW

College	1975	1973	1969	1965	1957
Forestry	54.3%	50.8%	47.9%	44.8%	56.0%
Library Science	50.9%	45.1%	54.4%	58.8%	—
Hospital Adm	50.0%	—	28.1%	—	—
Medicine	48.2%	49.2%	50.0%	50.4%	58.9%
Chem & Metall Eng	47.3%	47.2%	49.0%	48.4%	43.0%
Graduate School	46.1%	45.9%	40.7%	43.3%	36.0%
Mech & Aerospace Eng	44.3%	44.3%	42.8%	38.5%	38.0%
Public Administration	42.0%	45.7%	33.7%	37.8%	—
Chemistry	41.0%	41.9%	42.2%	40.7%	—
Geology & Geophysics	31.8%	28.6%	30.5%	70.1%	—
Medicine-Others	31.5%	—	—	—	—
Public Health	26.7%	25.9%	23.8%	23.7%	—

Of the 52 colleges, schools and departments listed, 27 show an increased percentage of graduates living in the state, two remained the same and 19 showed a decrease. Areas showing good gains are Physical Education for Women, Industrial Education, Physical Education for Men, Biological Sciences, Social Work, Journalism, Ag Engineering and Geology & Geophysics.

The above figures do not show the *overall figures* for the College of Liberal Arts and University College, the College of Education, the Institute of Technology, the Colleges of Agriculture, Forestry & Home Economics, or the Health Sciences. They are:

College	1975	1973	1969	1965
Liberal Arts	69.07%	70.0%	67.4%	66.3%
College of Education	73.4%	73.3%	71.3%	70.2%
Institute of Technology	58.0%	57.1%	55.4%	55.1%
Health Sciences	55.9%	57.0%	75.2%	—
Colleges of Ag, Forestry & Home Economics	65.7%	63.9%	64.2%	62.0%

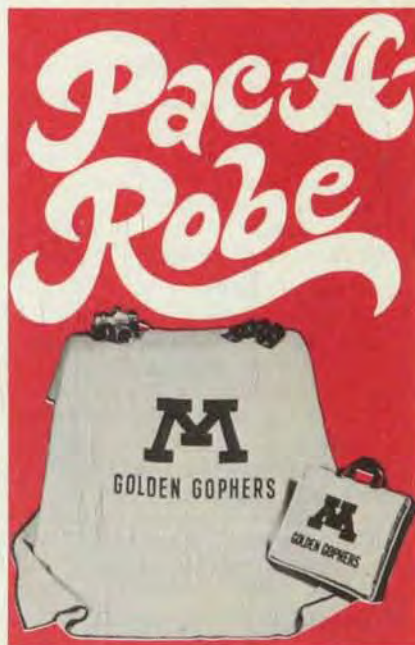
Three of the above groups show a slight gain in number of graduates residing in the state, two show a loss.

In conclusion, more than two-thirds of the graduates of the University of Minnesota are in the state; of the graduates staying in Minnesota, more than two-thirds live in the seven metro counties with the greatest concentrations in Hennepin, Ramsey and St. Louis counties, in that order.

In answer to the question, are more University graduates now leaving the state than ever, the answer is no. *Since 1957 there has been slightly more than a 3% increase in the number of graduates who live in the state.*

Ed Hansen

THE ALUMNI



This maroon Pac-A-Robe is a luxurious blend of 60% pure wool and 40% Acrylic which can be machine-washed. The border of the robe is whipped in Gold Country yarn while the emblem on the blanket is in gold-flocked pile. The robe comes with a vinyl carrying case screened with the Minnesota "M" and "Golden Gopher" lettering.

The Alumni Pac-A-Robe has many uses — as a cushion or for warmth while watching the football Gophers, as a car blanket, for picnics or hunting trips, as an auxiliary blanket.

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COZUMEL HOLIDAY

February 4 to February 11, 1976

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The MAA's Special Tour Package of **\$499** (plus 15% taxes and services), based on two per room occupancy, is reduced \$100 when a third person occupies a double room.

You can bring your son or daughter, mother or father, or another family member, with you to the island of the sun off Mexico's Yucatan Peninsula for just \$399 (plus 15% taxes and services)!

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- Full-Day Robinson Crusoe Cruise (\$18.00 per person) — A sea voyage along the Cozumel coastline takes you over safe, brilliantly-clear waters, coral gardens and great reefs teeming with ocean life. You will stop at Palancar Beach where the native crew will cook and serve a unusual and unique seafood feast. Cruising back you will see the secret harbors used by Lafitte, Morgan and other 18th century Caribbean pirates, and will reach your hotel at sunset.

- Full-Day Tour to Tulum (\$38.00 per person) — An excursion that leaves the main pier of Cozumel at 9:00 a.m. and returns at 7:00 p.m., includes a ferry ride from Cozumel to Playa del Carmen, taxi transportation from Playa del Carmen to Tulum and back, guide service in Tulum, lunch at Hotel Club Akumal, and visits to Akumal and Xel-ha Lagoon . . . all part of a fascinating look at an ancient, sun-drenched country-side.
- Merida/Uxmal (About \$100.00 per person) — After an early-morning flight to Merida, a Mayan city pre-dating Christianity, you will take a motorcoach to ancient Uxmal, arriving in time for lunch. You will be escorted through temples and palaces of great antiquity and imposing dignity to explore the world of myth and magic at Uxmal, seat of the Maya Xiu Dynasty. An evening flight returns you to Cozumel.

\$150 deposit is required for each person.



1976 COZUMEL HOLIDAY

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Minnesota Alumni Tours, 2610 University Avenue,
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(please include first names)

In the travel arrangements, I prefer the smoking section;
the non-smoking section.

\$150 deposit is required per person. Make your check payable to Cozumel Holiday.

A few

years ago demonstrators circled the Armory seven times, perhaps believing that like the Walls of Jericho, the old structure would come tumbling down.

These vocal critics, however, used more than Biblical symbolism in their attack on the Reserve Officer's Training Corps (ROTC). They banged on metal wastepaper baskets, blew kazoos, waved Viet Cong flags, taunted policemen, and blocked entrances to the Armory and Morrill Hall.

The crowds of demonstrators that converged on the University campus made ROTC such a focal point of protest and pressure that some ROTC students were afraid and ashamed to wear their uniforms anywhere except in the Armory.

"What these people did — if you want to sum it up real quick — is to try to intimidate us," Captain Ed Bouffard, commanding officer of the Navy ROTC, said. "This happened all over

the country in the late 1960's and early 1970's."

The situation was pretty hot at the University, perhaps more uncomfortable for the military at Minnesota than at most large midwestern schools. The campus-oriented critics of the U.S. Vietnam involvement directed all their anti-military feelings toward the campus military affiliation — ROTC. For a time many people believed the University would follow the trend set by some Ivy League schools and direct ROTC off campus.

"It's my opinion that some key legislators saved ROTC for this campus," Captain Bouffard said. "They made the University realize the worth of ROTC."

"I'll tell you this. If ROTC had left Minnesota it might never have come back. There are a lot of schools that want ROTC. Why should we stay where we aren't wanted?"

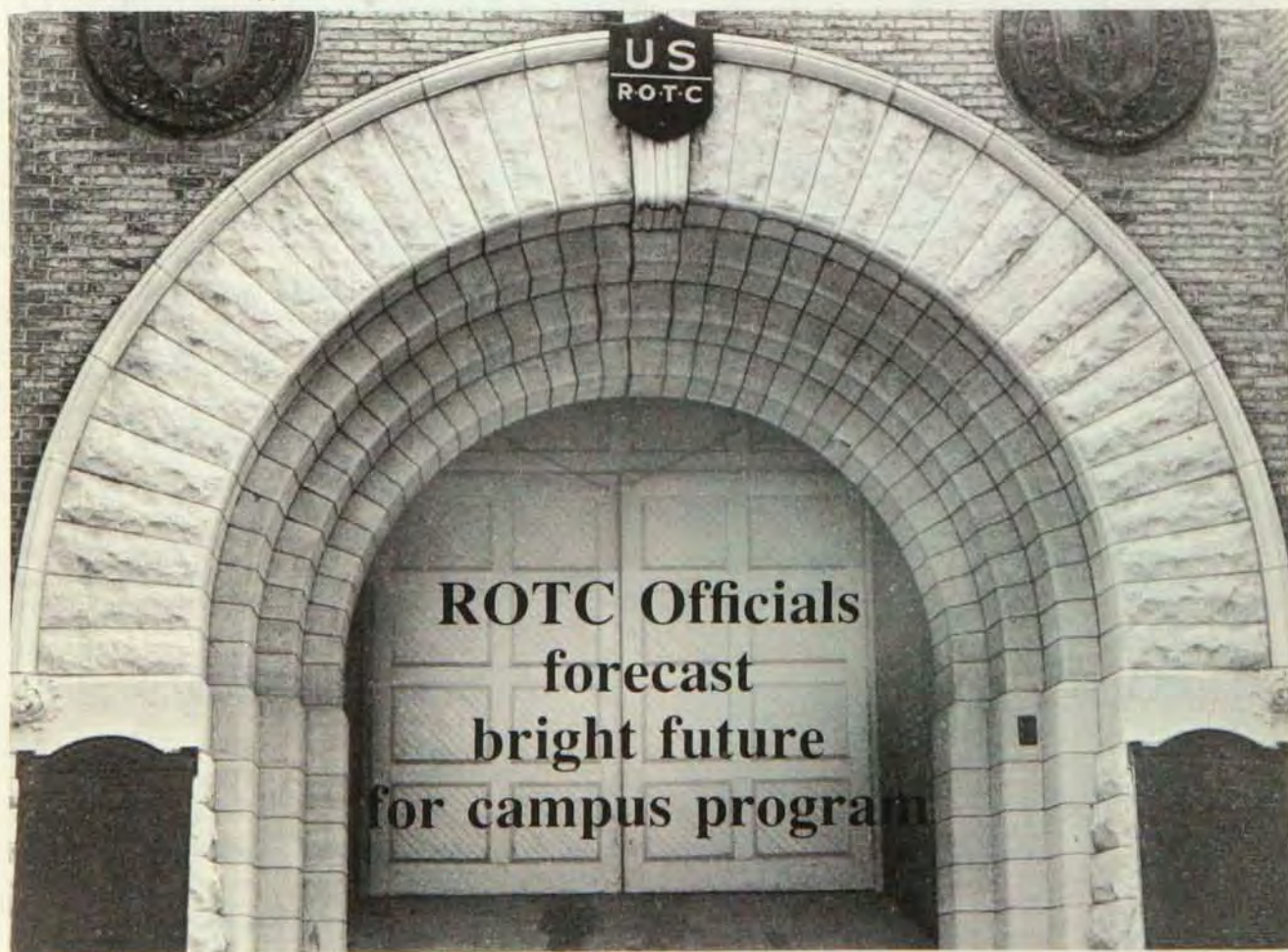
An

observer might surmise that the ROTC situation is rosier now that the U.S. involvement in Vietnam is over and the activism which went with it has ended. There is some truth to the observation, but it is also true that ROTC still feels the sting of an enrollment problem which began in 1966.

That year there were 191,749 students enrolled nationally. Ten years later ROTC enrollment is struggling to reach 70,000. During some of the last 10 years, enrollment dropped as much as 28.8 percent.

Ten years ago University Army ROTC officials were upset when enrollment fluctuated between 200-250 and they were commissioning only 35 officers per year. (During the Korean War enrollment was about 1,500 and the commissioning class was approximately 250.)

When final ROTC enrollment figures are gathered for this year, it is expected there will be an approximate



total of 400 students in Army, Navy and Air Force ROTC. That figure includes about 40 women.

All three services have small senior classes, a reminder of the burdensome years of the late 1960's and early 1970's when recruitment was very difficult and entering freshmen classes small. The Navy, for example, expects to commission 24 officers in 1975-76; the Air Force, 19; the Army, 14. Last year the Navy commissioned just 21 officers; the Air Force, 17; the Army, 15.

Both the Air Force and Army received letters of concern from Washington in the spring of 1974. "A letter of concern can be the first step in the removal of an ROTC unit from a campus," Captain Wayne Vaughan, Army public information officer, said.

"The U.S. Defense department wanted to see more commissioned men and women coming out of the University. Fifteen per service per fiscal year is considered a minimum number."

Those officers involved with University ROTC are confident that increased numbers will be forthcoming. In the last two years freshmen classes have been increasing — in the Army by as much as 40 percent.

Yet freshmen enrollment is no indicator as to how many men and women will become officers four years later. It is possible for students to drop out of ROTC during their first two years, and many do. The University's dropout rate approximately parallels the national dropout rate of 42 percent, according to University ROTC officials. (Actual figures on the University's dropout rates were not available because the record-keeping did not exist to produce them.)

"The fact of the matter is that ROTC is not for everybody and a lot of kids discover this along the way," Commander Jesse Lewis, executive officer for Navy ROTC, said.

"You'll find kids, for example, who are encouraged to get into ROTC because their parents were in the service. Maybe they think it's an easy way to get a scholarship and go through school. Or maybe they look at that period of service after graduation (which can range from a few months to four years, depending on the program) and decide it's too long."

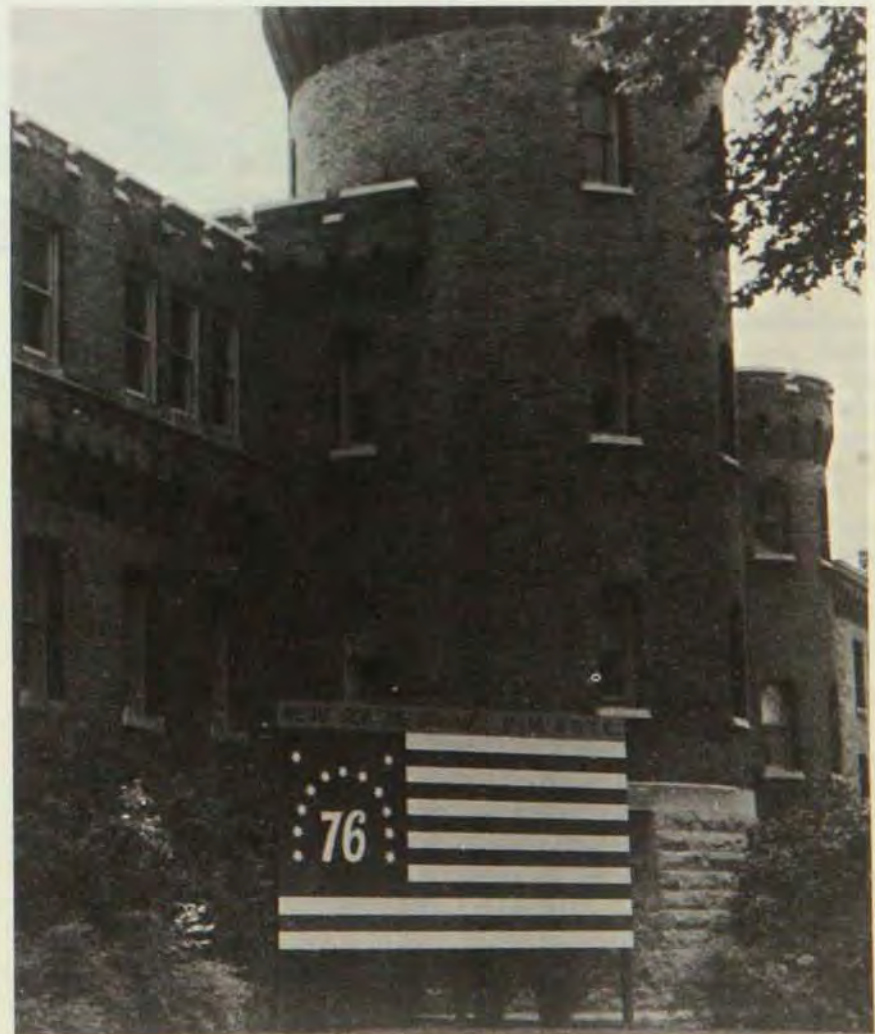
One of

the main attractions of the ROTC program is the scholarships. Nationally the Army, Navy and Air Force make about 18,000 scholarships available — approximately 6,000 for each ROTC branch.

These are scholarships of varying durations. And they can provide up to four years of subsidized education, including tuition costs, other instructional fees and textbook costs.

Additionally, scholarship students receive \$100 per month for a maximum of 40 months. Nonscholarship students, in their junior and senior years (when they incur a legal obligation to serve after graduation), receive \$100 per month for a maximum of 20 months.

One of the main attractions of the ROTC program is the scholarships. Nationally, the Army, Navy and Air Force make about 18,000 scholarships available, or about 6,000 for each ROTC branch.



THE ARMORY, home of the University's ROTC programs, is a sturdy structure, reminiscent of a fortress, standing on the east bank of the University's Minneapolis campus. This year it has a new adjunct, a bright patriotic sign, emphasizing the Bicentennial and, perhaps, the importance of the ROTC program to the United States.



AMONG THE YOUNGER OFFICERS of the University's ROTC units who were confident about the future of the program on the Minnesota campus were, from the left, Captain Ronald W. Vaughn, Military Science IV director for Army ROTC; Commander Jesse W. Lewis, Jr., associate head and executive officer for Naval ROTC; and Major Dennis J. Golden, a junior instructor and assistant professor of aerospace studies for Air Force ROTC.

Scholarships are based on entrance tests, grade-point average and extracurricular activities. Once enrolled at the University, scholarship students, like others in ROTC, must maintain a C average to stay in the program.

This can be a challenge to some students, who, in addition to their regular academic program, devote three to six hours a week and often more to ROTC, and sometimes hold part-time jobs, too.

"I guess that's why you can say ROTC is not for everyone," Lt. Colonel George Stenehjem, commander of Army ROTC, said. "Our requirements are not easy. There may have been a lot written about the 'new Army', but I can tell you there haven't been many concessions or changes in ROTC."

ROTC curricula are administered under the supervision of the University of Minnesota through the Departments of Military Science (Army ROTC), Naval Science (Navy/Marine ROTC) and Aerospace Studies (Air Force

ROTC). Both four-year and two-year programs are available to students. Some academic courses are applicable to both degree and ROTC work.

In recent years ROTC teachers have come under fire and efforts have been made to upgrade the qualifications of the ROTC faculty.

"Most of our faculty now have advanced degrees," Colonel Tom Madigan, commander of Air Force ROTC, said. "We have an awareness that academically and in other ways that we're not separated from the larger University community."

"We have had team teaching with

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***"Our requirements are not easy. There may have been a lot written about the 'new Army', but I can tell you there haven't been many concessions or changes in ROTC. . ."***

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people from outside our faculty in courses such as speech communication and world military history.

"Plus, all our courses are open to anyone on campus," Madigan said.

Communication between ROTC and the University takes place through the University ROTC committee, a subcommittee of the University Senate. This subcommittee consists of the three ROTC commanding officers, civilian faculty representatives, ROTC students and civilian student representatives. The committee deals with matters which affect the ROTC program and the University, but has no input into internal department matters.

Such a subcommittee is in keeping with the historical American conception of the citizen-soldier and civilian control of military forces, according to ROTC leaders. The fact that ROTC graduates are products of colleges and universities, instead of military



THE THREE COMMANDING officers of the University's ROTC units who recently discussed the ROTC programs at Minnesota with *The Alumni News* included, from the left, Lieutenant Colonel George N. Stenehjem, Army ROTC; Colonel Thomas D. Madigan, Air Force ROTC; and Captain Edward N. Bouffard, Naval ROTC.

academies and officer training schools is a strength rather than a weakness, they argue.

"Our schools have produced civilian-oriented military officers from all geographic and social strata," Colonel Madigan said. "Their innovative and flexible leadership reflects the kind of background from which these people come."

"The academies and officer schools don't supply as many officers as ROTC does," Colonel Bouffard added. "This is the way it should be, for without our ROTC programs, we wouldn't have the high quality of military leadership that the United States has historically had. We need the kind of people who come out of colleges and universities."

Just how much the Defense department thinks it needs ROTC men and women is reflected by the \$150 million which will be spent this year to produce 15,000 or more officers.

At the University over \$1 million is spent annually on ROTC by the Defense department. The University contributes over \$50,000 each year for

clerical salaries and other office expenditures. Landgrant colleges have historically been supportive of ROTC because of Congressional influence.

Officers

at the University think the future is bright for ROTC, both at Minnesota and nationally.

"I look for a new trend toward higher enrollment numbers," Lt. Colonel Stenehjem said. "There are already more units on more campuses than in the past."

"There is a reawakening of awareness that ROTC has a right to exist on our campuses," Captain Bouffard said. "National defense is a reality of life and those who don't recognize that are not realistic. So long as our defenses are needed, we must have ROTC."

"We are not butchers as many critics suggested during Vietnam. We're people who believe in keeping America militarily strong and who recognize the contribution that college students, as future officers, can make toward that goal.

"There's no good reason why we shouldn't remain on our college campuses. There are many students who want to participate in our programs. Why should a small minority prohibit them from doing so?"

Captain Bouffard and others base their optimism toward a more "healthful future" on several factors. These include the termination of the Vietnam war, changing student attitudes regarding service to the United States, the job market and the economy.

"Vietnam has been over with for a couple of years and today's college student was in junior or senior high school when it was going on," Captain Bouffard said. "It just isn't very relative to today's student.

(Turn to page 12)

ROTC From page 11

"A lot of people believe that the student coming out of our high schools today is more conservative in his views than the student of a few years ago. I believe there is a feeling of wanting to serve one's country and many students feel the military is one way of being of service.

"Knowing that there is a good paying job with good benefits waiting for you after graduation has to be another plus. An ROTC student with a history major knows he or she has a job. And along with that job that person can get training which will be useful in civilian life."

Clearly, ROTC does offer some attractive benefits. Whether they are attractive enough to solidly boost enrollments at Minnesota is speculative. However, for now, the Armory walls would appear safe. — David Shama



UNIVERSITY PRESIDENT C. Peter Magrath, left, presented the British Royal Society of Arts Award to Charles M. Osborne '75BBA at a recent meeting of the Board of Regents.

Former student wins British Royal Society Medal

Charles M. Osborne '75BBA was awarded the British Royal Society of Arts Silver Medal for 1975 at the October meeting of the University's Board of Regents.

Osborne, who graduated in June, is the fourth University of Minnesota student to receive the award. He was chosen by a committee of faculty members and students.

According to society standards, recipients of the award must be receiving their first degree, should have a "distinguished academic record" and should have played a "significant part in student activities."

The Society was established in 1754 and United States association with it dates back to the membership of Benjamin Franklin in 1756. Prince Philip, the Duke of Edinburgh, currently heads the Society.

Osborne, who lives in Minneapolis, is a graduate of the St. Anthony Village High School. While at the University he served as a member of the

Twin Cities Student Assembly's academic committee, treasurer of the University's Accounting Association, president of Beta Alpha Psi, a national honorary accounting fraternity, and president of Beta Gamma Sigma, a national honorary business fraternity.

He was also a representative to the College of Business Administration's Student Governing Board and a member of the curriculum committee for the college. While a student he tutored other accounting students and helped minority students in the Martin Luther King Program to meet business school prerequisites.

Osborne is currently employed at Haskins and Sells Company, a national accounting firm located in Minneapolis.

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PRESIDENT'S DINNER SEMINAR II

You are cordially invited to attend the Second President's Dinner Seminar on Tuesday, November 11. A 6:00 p.m. Reception precedes the 6:30 p.m. Dinner.

The evening's featured speakers are Paul Giel, University of Minnesota Athletic director, and his head coaches, Cal Stoll, Football; Herb Brooks, Hockey; and Jim Dutcher, Basketball.

Giel, the University's sixth athletic director, assumed his position in December 1971 as a favorite native son with a remarkable record of achievement in competitive athletics. His most recent honor came early this year when he was named to the National Football Foundation's college football Hall of Fame.

Giel has built a strong Athletic department during his tenure, facing and overcoming a tremendous financial deficit through energetic fund-raising efforts, and winning Big Ten Championships in baseball, hockey and basketball, and an NCAA Championship in hockey.

During his first month as athletic director he had to contend with Minnesota's infamous basketball brawl; now the NCAA has charged the University with a number of rule violations.

Still — Paul Giel sees a bright future for intercollegiate athletics and will talk about his program and try to answer your questions at this seminar. He will also introduce the members of his coaching staff.

Reservations for the Second President's Seminar can be made by contacting the Minnesota Alumni Association at 2610 University Avenue, St. Paul, Minnesota 55114, or by calling (612) 373-2466. Tickets can be obtained at \$5.95 per person, plus tax and gratuity.

PRESIDENT'S DINNER SEMINAR III

Mark your calendars now for the January 6 President's Seminar that will feature Minnesota's own astronaut, **Deke Slayton '49BAeroE**.

AMONG THE CLUB'S COMING GOURMET EVENTS:

November 15: **Hawaiian Luau.**

December 13: **Christmas Party.**

January 24: **New Orleans Night.**

February 28: **San Francisco Night.**

March 13: **Gala Night**, celebrating the Club's Second Anniversary with special entertainment and an exotic menu.

Special low-priced, complete Dinners are available at \$5.50 (*plus tax and gratuity*) per person on Monday through Wednesday evenings.

Every Thursday night is **Family Night**, and features savory, full-course dinners at \$5.95 (*plus tax and gratuity*) for adults and \$4.50 (*plus tax and gratuity*) for children.

Call Club Manager Irene Kreidberg at 376-3667 to make reservations or ask for details.

Alumnus designs instruments for space and earth uses

Mariner 10, which carried Schonstedt instruments to examine the magnetic field and the core structure of Venus and Mercury, was not the first satellite to take space magnetometers into the outer limits. Hundreds have been sent up by the National Aeronautics & Space Administration (NASA) and by universities that used the instruments invented and manufactured by E. O. Schonstedt, a 1941 Minnesota graduate in business administration and mechanical engineering, at his plant in Reston, Va.

Schonstedt was one of those seniors excused from the University in the early days of World War II to help solve problems of international significance. They were given degrees in absentia. He went to the U.S. Naval Ordnance Laboratory (NOL) to help develop counter measures for Hitler's magnetic mines.

In 1953 Schonstedt left NOL to found his own company, the Schonstedt Engineering Company. Later it was incorporated as the Schonstedt Instrument Company.

The company has produced and is producing instruments for space exploration and for very practical purposes on this globe.

Among them are instruments for determining the orientation and spin rates of rockets using the earth's magnetic field as a reference. They include several hundred magnetometers aboard a great variety of space satellites. Much of what is known about the earth's magnetic field in space has been determined with Schonstedt magnetometers.

He has produced some of the first instruments used at airports for anti-hijacking purposes;

Instruments for measuring the magnetization of rock specimens for geological research concerning continental drift and ocean floor spreading;

Instruments used extensively by land surveyors, municipalities and highway departments to locate iron boundary markers, buried valves, manhole covers — or plain old nails;

Instruments for measurement of magnetic fields of ships; and

Laboratory magnetometers of many varieties.

If this list reads like a technical catalog of scientific instruments little known to laymen, you are wrong. Get ready to sell your house and ask a surveyor to establish lot lines or boundaries on your farm. Once there were iron stakes to mark those boundaries. Now they are buried under dirt and tree roots. They will be located by the surveyor probing with a long metal rod instrument which is a Schonstedt Magnetic Locator.



Erick O. Schonstedt

The street crew does not need to dig up your entire block to find the manhole cover and to get to the pipe or wire problem below. And highway maintenance men can pinpoint P-K nails on resurfaced roads with Schonstedt equipment.

The Magnetic Detector beeps when an airline passenger or person passing through it, carries metal with him. This system also has courtroom and data-processing-center applications.

Geologists and paleomagnetic researchers are using Schonstedt Spinner Magnetometers to determine the intensity and direction of magnetization of rock samples, making it possible to date geological formations and helping to confirm modern theories about the formation of the earth's crusts.

The Schonstedt Company began its geophysical research with the development of a small magnetometer which measured rocket attitude. Work continued, resulting in increasingly sensitive magnetometers useful for seri-

ous scientific measurements in interplanetary space. The expanded use of these instruments has resulted in the investigation in detail of the earth's magnetic field, the magnetic field associated with the sun and the interactions of these fields with charged particles radiated by the sun. Satellites orbiting the earth, the sun and the moon have carried the magnetometers.

The June 1975 issue of *National Geographic* told the story of Mariner 10 and its revelation of the planets Venus and Mercury, "the earth's inner sisters." Venus, the Schonstedt instruments on Mariner 10 revealed, has an atmosphere that is 95 percent carbon dioxide. Earth has produced as much. The difference between the planets is that here there are oceans in which "carbon dioxide combines with calcium and magnesium from silicate rocks to form carbonates. Virtually all earth's carbon dioxide is now in the crust.



A PLANT of the Schonstedt Instrument Company.

much of it locked away in vast deposits of limestone, including the accumulated skeletons of myriad tiny sea creatures."

On Venus findings in magnetic measurements seemed minor. That was not true of Mercury.

"To everyone's surprise, Mercury, like both Mars and the moon, is two-faced. It is clearly a fossil landscape. . . . Mercury possesses something else that was quite unexpected — a magnetic field. Though only about one percent as strong as the earth's, it is still a fair-size magnetic field for a slowly rotating planet much smaller than the earth."

Scientists now believe that Mercury has a very heavy core of iron. That planet, they think, is like the moon outside and the earth inside.

Such interplanetary exploration expands man's knowledge not only of space, but of the earth itself — thanks in good part to Schonstedt instruments.

The instruments which go to the planets must operate for a year or longer — the Viking will not land on Mars until July 4, 1976. And they must be produced under the most reliable manufacturing practices.

Schonstedt instruments have been awarded five Zero-Defect Awards from Lockheed Missiles & Space Company. In 1970 the Sub-contractor of the Year Award for Region III was given the company by the Small Business Administration.

Dr. Lawrence Cahill of Minnesota's Physics department paid Schonstedt great credit for his work. Cahill was not at the University when Schonstedt was a student, but he has known him professionally and personally since the '50s.

In Cahill's work on rocket flights at the University of New Hampshire, Schonstedt instruments were used. Now they are used on satellites put in orbit at Minnesota.

What does such a man do in leisure time when his business life is spent in work on precision instruments? He goes fishing.

He has a cottage in the Shenandoahs where there is a pond and a trout stream. And hiking is another of his hobbies.

Schonstedt has not forgotten his alma mater. As vice president of the Minnesota Alumni Association's Washington, D.C. chapter, he keeps in close contact with fellow Minnesotans. — Wilma Smith Leland.

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I certify that the statements made by me above are correct and complete. (Signed) Edwin L. Haislet, Managing Editor.

Freshwater Biological Institute is intimately involved in life



JOHN WOOD, a native Englishman who taught biochemistry at the University of Illinois for 10 years before coming to Minnesota, is the Freshwater Biological Research Institute's director. He is enthusiastic about the Institute's past and future and feels that the University can have the best ecological and environmental sciences in the country because of the Institute and its undertakings. In the photo above he is explaining an algae experiment to The Alumni News.

Despite

a crisis or two, the University's Freshwater Biological Institute is off to an ambitious beginning, according to director John Wood.

The Institute took real form as a place of ecological and environmental research and learning when Wood began work as its first director in July, 1974. A native of England who taught biochemistry at the University of Illinois for 10 years prior to coming to Minnesota, Wood talks enthusiastically of the Institute's past and future. (The Institute is located in Navaree, Minn., at the junction of County Roads 15 and 19 near Lake Minnetonka.)

"The University can have the best ecological and environmental sciences in the country," he said. "This is why I came here. I was encouraged with what the University was already doing and what it talked about doing.

"Most importantly, I was impressed with the people at the University and in

the greater community. The priority given to education here is impressive.

"With Minnesota being the only major university in the state, the potential is greater than some schools to do some real outstanding work. And I think one of those areas which will continue to be designated for emphasis here is the environmental sciences," he said.

"The businessmen who spearheaded the Institute had a noble concern with freshwater and other environmental problems. It's our responsibility to fulfill the ideals they expected of us when they turned this building over to the University."

Actually, the Freshwater Biological Research Foundation, a non-private foundation which raised the funds for the Institute, still has not yet given the \$2.5 million building to the University, but will within three years when the mortgage is paid. This is in accord with the plan conceived in 1968 by business leaders such as Richard G. Gray '40GE of Minnetrista, Hibbert M. Hill '23BCE of Chanhassen and Carroll E. Crawford '51BAJourn of Deephaven who wanted an intensive research and training facility to combat the problems of freshwater.

In addition to the building, the Foundation has also aided with equipment and salaries. Thus, the combination of funding from the Foundation and private and federal grants (which pay for most of the research) has meant that the University put out less than \$150,000 for the entire project.

But the school's commitment must grow in future years because eventually the Foundation will turn the building, equipment and money over to the College of Biological Sciences as a total gift.

A funding request during the last Minnesota legislative session met with resistance, according to Wood. Looking for places to trim the school's overall request, Governor Wendell Anderson decided to knock out the budgeted \$189,000 for the Institute. The planned cut perturbed Wood.

"Without support from the Legislature I was ready to quit," he said. "It would be a tragedy to build a facility of this kind and then not support it properly. Fortunately, we received \$100,000 for 1975-76 and \$125,000 for 1976-77. The credit has to go to Dr. Caldecott (Richard, dean of the College of Biological Sciences) who worked very hard to get the funding request restored."

Like any new entity at the University, the Institute is going to have to prove its worth to those whom it asks support. Wood believes the Institute has two major responsibilities to the state and nation. The first is to conduct fundamental research on freshwater systems (actually other ecological and environmental effects, too). The second is to conduct a graduate program to develop highly qualified scientists and teachers.

"The two responsibilities, of course, go together," Wood explained. "We've approached the time in man's development where we can no longer afford to destroy parts of our environment or waste certain products at the expense of others. Today we need scientists who can find real world solutions. At the present time there is a scarcity of highly trained scientists qualified to deal with environmental problems."

There are currently 25 people at the Institute, including 5 graduate students working on their PhD's. The backgrounds of the graduate students — in physics, chemistry, biochemistry, microbiology, limnology (both plants and animals) and toxicology — reflect the diversity of the staff whose guidance they follow.

The graduate students, selectively screened, are at the Institute to do fundamental research for four or five years.

"Because students are exposed to many disciplines they should receive a broad education in those fields which are critical for our understanding of environmental problems in freshwater," Wood explained. "In our search for faculty we have been looking for people who have obtained their degrees in one discipline, but who have published excellent research in other fields."

"I believe there are two kinds of people in universities: one has an education and is satisfied with it; the other is the perpetual student. At the Freshwater Institute we are a bunch of perpetual students."

Physicist Eckard Munck epitomizes the above philosophy, according to Wood. He is applying the techniques of nuclear physics to solve biological problems.

Munck is particularly interested in learning how micro-organisms convert nitrogen gas to ammonia because a large amount of energy is used by manufacturers of anhydrous ammonia for soil fertilization in American agriculture.

Dr. Ron Crawford is interested in the role of oxygen in the degradation of natural products such as those found in wood, leaves and grass.

"Micro-organisms use oxygen to convert natural organic products to molecules which enter cellular metabolism," Wood explained. "Man's understanding of these natural processes is critical so that we can convert these renewable resources to useful materials like natural gas."

Dr. Joe Lakowicz, the Institute's expert in toxicology, is concerned with the rate at which pesticides and herbicides accumulate in the food chain. Pesticides and herbicides are needed in agriculture, but research has shown that they can be dangerous to man when they accumulate in fish.

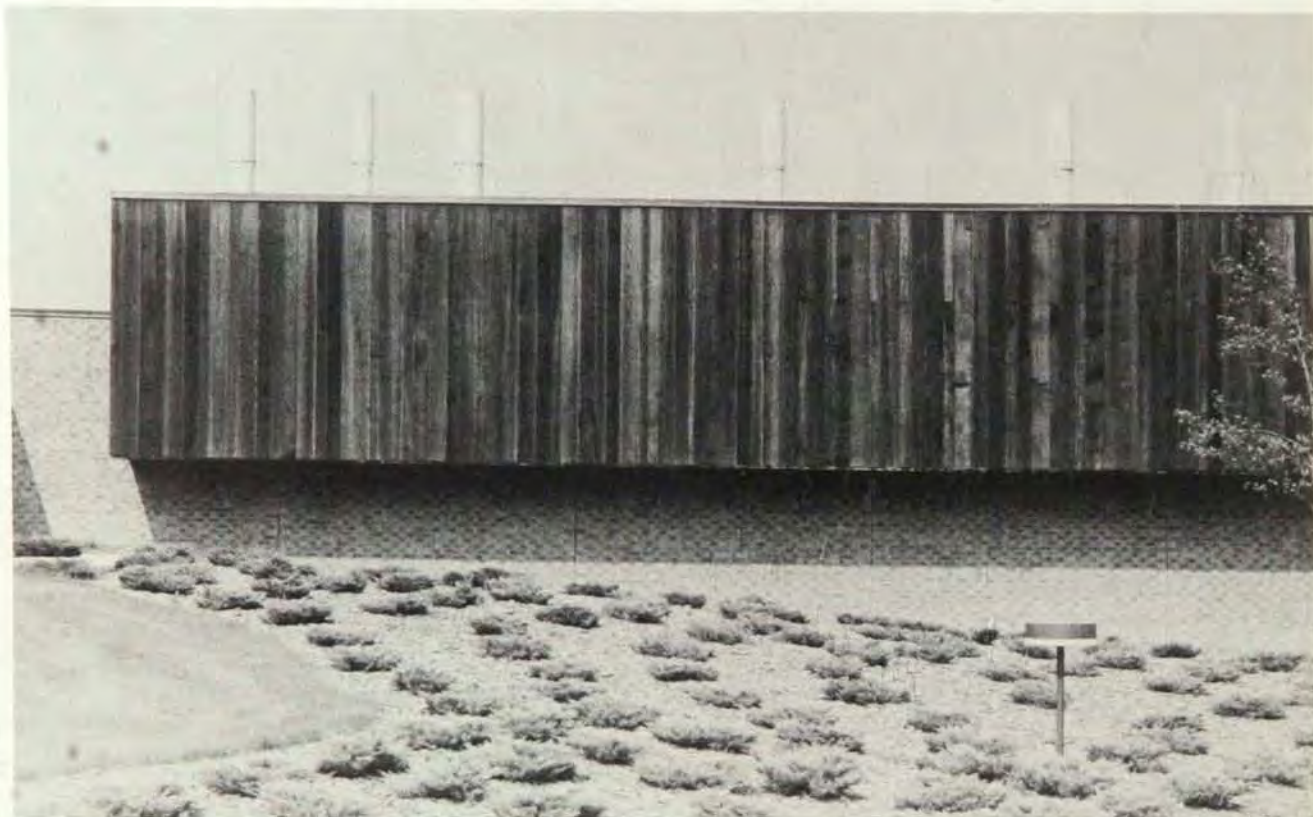
Recent developments in fluorescence instrumentation equipment will allow Lakowicz to determine why certain pesticides accumulate in the food chain and why others do not. This represents a breakthrough, according to Wood, because scientists can now determine whether a new agricultural product is safe before it is extensively marketed.

The fluorescence instrumentation equipment is maintained by Robert Thrift, the Institute's computer expert and equipment builder.

The Institute eventually will have the best analytic equipment on water research to be found anywhere, Wood said. "We already have several unique pieces of equipment, but we want to further develop in this area over the next few years. An idea can be no better than the equipment you have to work with."

Wood and his research group study biological cycles of poisonous elements in the environment. Before coming to Minnesota, he discovered how mercury accumulates in the food chain and how it was responsible for the death of over 4,000 people in Japan and Iraq. Since that time he has learned that tin, selenium, arsenic and possibly lead are capable of cycles similar to that discovered in mercury.

Wood is particularly pressed to learn more about the effects of tin in the biological system since the increase and variety of uses of that substance have grown considerably in recent years.



THE FRESHWATER BIOLOGICAL RESEARCH INSTITUTE is an unobtrusive part of its Navarre, Minn., environment. The modern structure's architecture blend into its surroundings and the landscaped grounds meld into the surrounding wooded areas and marshlands, as can be seen in the small photo below.

The above mentioned staff members and others will be joined in the future by more scientists. Thus far the laboratory program at the Institute is more fully developed than the experimental field program, but when staffing is completed the two will be comparable.

Within

the Institute and without. Wood stresses the importance of cooperation between all who are involved with the environmental sciences. "There are very good facilities and departments here such as the Bell Museum, the Department of Ecology and Behavioral Biology, the Limnological Research Center and the University field station at Itasca," he said. "We all need to coordinate our efforts together."

Actually the Institute's identity reaches out beyond the University. It is already gaining a national and international reputation as an outstand-

ing multidisciplinary center. Exchanges such as the program now going on between the Swedish Water Quality Laboratory in Stockholm and the Institute are enhancing that reputation.

"In addition to faculty exchange of information, the Swedish scientists are allowing us to use a group of experimental lakes," Wood said. "This is very important because so far we have been unable to obtain any lakes from the state where we could do as we pleased with them."

The experimental lakes in Sweden, then, nicely complement the Institute's use of nearby Lake Minnetonka.

Wood said the Institute was located near Lake Minnetonka "because it is a chain of lakes with considerable geological diversity, it is polluted and it is near the University."

Experiments at the University may one day improve the water quality in



the lake. For example, products from lawn fertilization and agricultural run-off have poisoned parts of Minnetonka to the extent that ducks and cows have died from consuming the water. Wood says that within 5 to 10 years products from experiments at the Institute may be able to alter the degree of pollution in the lake.

Such a breakthrough would benefit other freshwater bodies all over the country and world. And, of course, this is really what the scope of the Institute's mission is. "All freshwater eventually enters the sea, and water in its entirety is intimately involved with all life processes so everyone should understand that we're not just a staff occupying a building near Lake Minnetonka concerned only about the lakes and rivers in Minnesota," Wood said. "Our base is much broader than that."

In the near future Wood hopes that centers such as the Institute will be used as a third-party counsel on environmental matters. "We can provide an objective alternative to the haggling now going on between the Environmental Protection Agency and industry groups," he said. "Right now each group does its own research on such matters, neither of which is accepted by the other, and the matter winds up in court and is usually decided by lawyers. It would be much better to have independent groups like ours supply data and information."

If the Freshwater Biological Institute does play such a role in the future, it will be another mark of the diversity of the facility and scientists who work there.

"There are so many things which we can do that it becomes very exciting to think about the future here," Wood said. "I have confidence it will be a good future. Any area with the vibrancy in the cultural, academic and scientific areas of this one is going to succeed. You can tell, I really believe in Minnesota and its people." — David Shama



UNIVERSITY STUDENTS enjoyed the mild Indian summer temperatures this fall during study or socializing breaks on the plaza opposite the University's Administration building on the Minneapolis campus.

Enrollment reaches a record 55,114 at U

Increased enrollment on all campuses of the University of Minnesota has been reported, with a total fall quarter enrollment of 55,114 — up 6.3 percent from last year.

University president C. Peter Magrath said the enrollment increase is encouraging, since it reflects a "vote of confidence" in the educational programs of the University's campuses and indicates that the University of Minnesota is a "stable and healthy" institution.

"But these enrollment statistics also reflect the continuing and inevitable difficulty of predicting how people behave, for this enrollment exceeds the best projections we were able to make last year when trying to predict our 1975 enrollment for budgetary purposes," Magrath said.

The University had earlier projected an overall enrollment of 52,418.

Enrollment on the Twin Cities campus is 45,262, up 5.3 percent. The previous all-time high for the Twin Cities campus was 43,061 in 1971.

The University Technical College at Waseca increased enrollment by nearly 32 percent for the second year in a row and now has 705 students. Enrollment at the Crookston Technical College increased by 9.3 percent to 930 stu-

dents.

Enrollment at the Duluth (UMD) campus increased by 11.3 percent to 6,210 and Morris reported an enrollment of 1,593, an increase of 2.2 percent.

UMD undergraduate enrollment increased by 11 percent, graduate enrollment was up nearly 15 percent and enrollment in Duluth's School of Medicine was up over 18 percent.

The number of women enrolled at the University continued to increase, with women accounting for about 2,000 of the 3,280 additional students attending University campuses this fall.

There were 900 more freshmen entering the University directly from high school than a year ago and the number of students continuing on with their University studies increased about 2,100.

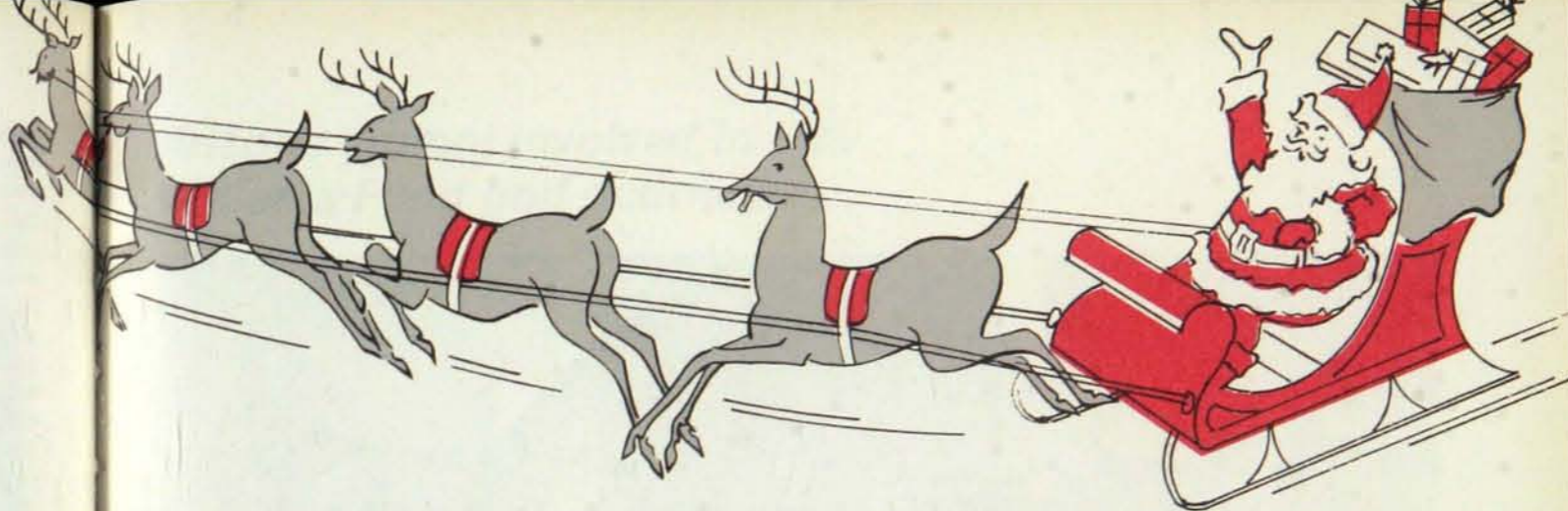
Noting the increase in students returning to campus and persons attending school on a part-time basis, Magrath said that it is apparent that the relatively poor job market situation is stimulating some people to continue as students so that they can upgrade their skills and education while waiting for the job market to improve.

The enrollment figures do not include 24,584 students in various programs of the University's Continuing Education and Extension division.

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Oval Bezel



Women's Dinner

The Minnesota Side



Cushion Bezel



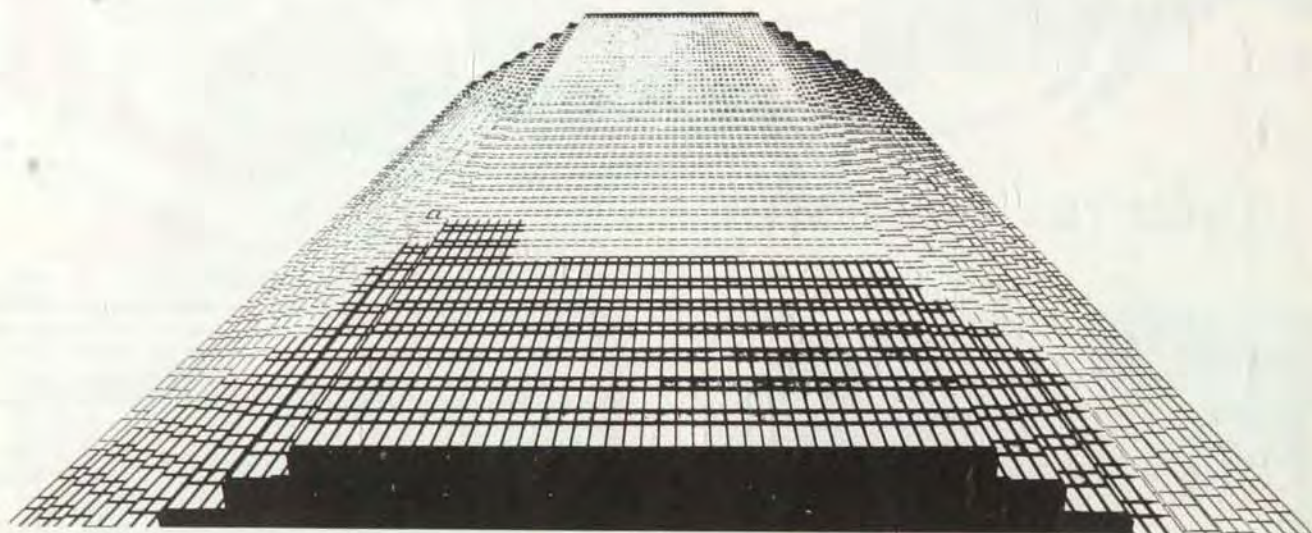
Business



Ash Tray



Tray



University of Minnesota Alumni Club opens Nonresident membership

For the first time since the new University of Minnesota Alumni Club opened in March 1974, Nonresident membership is now available to all University graduates. Nonresident membership can be taken out by those alumni who have their mailing addresses outside of the seven-county metropolitan area surrounding the Twin Cities.

The Alumni Club, located on the 50th floor of the IDS Tower in downtown Minneapolis, has met with enthusiastic response from Minnesota alumni. It is in general agreement that the decor and appointments of the Club are beautiful. The food, under the direction of Chief Willie Muller is outstanding, the service is good, the view breathtaking.

A number of special events have been planned for this fall and winter seasons, featuring a sumptuous variety of international dinners. Thursday night is reserved for Family Night, featuring five low-cost dinners. Our special dining rooms are available for parties, dinner receptions, business conferences, seminars and meetings.

In order to become a member of the Alumni Club, **you must be a member of the Minnesota Alumni Association.**

Nonresident Alumni Club dues are \$20 per year, plus a one-time initiation fee of \$15.

Right now the Alumni Club can accommodate 100 additional Nonresident members. If you are

interested, we urge you to mail the coupon below at once, and when it is received at the Alumni Association, you will be mailed an application for Club membership.

As a Club member, you will definitely enjoy using the Club, for either social or business reasons, and you will be proud of your membership. Request an application today!

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

Alumni Club Application Request Form

I would like to become a Nonresident member of the University of Minnesota Alumni Club. Please send me an application form.

I understand that Nonresident dues are \$20 per year plus a one-time initiation fee of \$15.

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Arizona alumni involved in new Williams Fund golf tourney



Waldo E. Hardell '26BSBus
Arizona co-chairman



George Kreutzer '51BSEd '56MSEd
Arizona co-chairman



Rollie Johnson, WCCO-TV
Minnesota chairman

Williams Fund outings and special projects, designed to raise money for the support of men's intercollegiate athletics at the University of Minnesota, have become a byword around the State of Minnesota in recent years.

Now, beginning in January, those events will become *nation-wide*.

Paul Giel, director of men's intercollegiate athletics, indicated recently that plans for the first annual Arizona-Minnesota Williams Fund Golf Tournament are well underway.

The tournament is scheduled for January 19 at the Pima Inn and Golf Resort — owned by Minnesota alumnus Don Knutson in Scottsdale, Ariz. — and includes a golf tournament, social reception and dinner program.

"We have an outstanding delegation working in Arizona," Giel said, "and another similar group of people doing the same thing here in Minnesota. It's an ambitious undertaking, but everyone involved is convinced we will have a successful event."

Waldo Hardell '26BSBus of Sun City and George Kreutzer '51BSEd '56MSEd of Scottsdale-Phoenix are co-chairmen of the 25-men Arizona committee, while Rollie Johnson of WCCO-TV is coordinating plans in Minnesota.

Kreutzer is currently an at-large member of the Minnesota Alumni Association's board, representing Region VI.

Hardell, founder and president of the Association's Sun City chapter and the Association's national president in 1966-67, has indicated that the tournament field will include 144 golfers, with the entry fee set at \$100.

The evening program will be open to all Minnesota boosters, and any non-golfers who want to attend the dinner may purchase tickets for \$25.

Among the special delegates from the University of Minnesota who will attend the event are University president C. Peter Magrath, Head Football coach Cal Stoll, Assistant to the Athletic Director Murray Warmath, Giel and others from the Athletic department.

"We're really excited about this new dimension being added to our Williams Fund golf tournaments," Giel said. "Fun for the Fund might be our motto before this one is over."

"Obviously we hope to raise a substantial amount of money for our program, but we know people attending the event will have fun in the process. There will be prizes for golf scores, as well as other prizes, and every player competing in the tournament will receive a Gold Country windbreaker and a special golf shirt."

Over the past three years Giel and Williams Fund director George Thomas have raised \$734,000 for the men's athletic program at the University. The totals over those three years have been \$177,000, \$243,000 and \$134,000.

"This year's goal is \$375,000," Giel pointed out, "and events such as the Arizona-Minnesota tournament, with its tremendous national image, will be extremely beneficial to our attaining that goal."

Last year the Williams Fund conducted more than 15 special events, including golf outings throughout Minnesota in Anoka, Austin, Faribault, Hastings, Hibbing, Hopkins, New Ulm, Rochester, St. Paul and Wayzata.

"It is extremely gratifying to see how people have rallied behind the Golden Gopher program," Giel said. "Not long ago we started our first such venture at Midland Hills, and last year our golf outings raised more than \$50,000 for the Williams Fund."

And Giel believes this is just the beginning.

He emphasizes that the University of Minnesota has pledged itself to maintaining a total program, a competitive program and a quality program in men's intercollegiate athletics, and the success of ventures such as the Arizona-

(Turn to page 24)

Minnesota tournament is vital to the department which remains nearly 100 percent self-sustaining.

"It has taken a tremendous amount of work to get where we are," Giel stressed, "and it will take even more in the future. Our own staff members and many Minnesotans who believe in our program have given unselfishly of man hours and money.

"Now with people like Waldo Hardell and George Kreuzer joining our team, we're taking another big step towards meeting our goals."

While the January tournament field will be limited to 144 entries, a few openings do remain, and anyone interested should write Paul Giel at the Bierman Athletic Building, University of Minnesota, Minneapolis, Minnesota 55455, or telephone (612) 373-4210.



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gopher tales

by David Shama

Playing before hostile crowds in places like Grand Forks, Madison and Denver ought to be a breeze for the University of Minnesota hockey team this year.

The Gophers went through a "summer conditioning program" which even the Marines could appreciate. After playing before some blood-thirsty crowds in Europe, coach Herb Brooks figures his men are ready for either the Romans or the lions.

The trip was a lesson in cultural shock. Unfortunately the Americans got the most "electricity."

"The problem was the Europeans aren't used to as physical a style of hockey as we play here," Brooks explained. "Sometimes the Europeans would come back with some cheap tactics and the game would really get rough.

"We had one game where the fans came out of the stands and started belting our players. One of our players got hit with some brass knuckles. Later some of the people came outside and threw rocks at our bus," Brooks said.

If such adventure had persisted for the entire nine-game swing through Austria, Switzerland, West Germany and Italy, the University might be minus one hockey team today. "We had some games without incident," Brooks said, as if trying to reassure his visitor the team didn't have to fight its way out of Europe. "It mostly depended on the — referees and how competent they were."

The Gophers came through their adversity like the near national champions they were in 1975. They recorded a 7-2 record and even had the last laugh on a promoter who thought he could do the Gophers in by taking them on an all-day bus ride and night clubbing all night.

"When we were coming back from a game in Switzerland to West Germany this guy who was handling the West German game suggested we take a shortcut through the mountains," Brooks recalled. "I got suspicious when we kept circling the same mountains. He turned a six-hour bus trip into a 16-hour marathon.

"Then he ordered the bus driver to take us to a beer hall where a polka band was playing. He said he was trying to make up to us for the inconvenience he had caused. Mostly he wanted us tired for the game the next day.

"That guy was a real con man."

Brooks looks back on the European trip as a cultural adventure, not to mention an asset to his hockey program.

"We played some outstanding amateur teams and that game experience will really be useful," he said. "Possibly the most important thing about the trip hockeywise is that our boys had a chance to live together for a couple of weeks. In those circumstances you either grow closer or further apart. We're a closer team now."

The Gophers will need that togetherness, particularly in the early going when they struggle to find scoring punch.

"The key to this season is how well we rebuild up front," Brooks said. "We lost six of our top 12 forwards. I'm not a line juggler, but I'll do some experimenting in an effort to find the right combinations.

"We do have one big line returning in Pat Phippen, Tom Younghans and Tom Vannelli. We could give this line extra playing time early in the season or break these guys up and hope their leadership will lift a couple of different lines," he said.

Vannelli, a junior, and sophomore Mark Lambert are the key returnees at center. Vannelli had an outstanding sophomore year, scoring 17 goals and adding 35 assists to finish second in team scoring. Lambert had 12 goals and 13 assists last year.

More center help will come from Don Madson who played last year with the Fargo-Moorhead Sugar Kings of the Midwest Junior League where he led the league in scoring. Younghans, who became eligible at mid-season after transferring from St. Mary's and Wisconsin-River Falls, was outstanding in scoring 28 points (13 goals, 15 assists) in the 22 games he played. He heads a corps of right wingers which includes fellow seniors Warren Miller and Bryan Fredrickson and frosh Tom Gorence.

Miller was the number 4 Gopher scorer last year and led the team in

HERB BROOKS, left, Gopher hockey coach, and his new assistant coach, **Brad Buetow**, discuss game strategy before the beginning of the Gopher's season which opened in late October. Buetow played for the Gophers in 1972 and 1973.



TWO MEMBERS OF this year's gopher hockey squad, whom Coach Brooks claims could start a bidding war among the pros, relaxed with a friendly but competitive game of cards before practice - from the left, Reed Larson and Russ Anderson.

scoring in Europe. He is considered an outstanding prospect.

Captain Pat Phippen, a senior, was the number 3 scorer with 22 goals and 29 assists last year. He and sophomore Ken Yackel are the only returnees at left wing.

Brooks expects sophomore Dan Bonk and freshmen Phil Verchota and Bob Fish to provide help at left wing.

"We have good potential in the forward positions, but when you lose an all-American center like Mike Polich (third-leading career scorer) and some other outstanding scorers it takes time to rebuild," Brooks said.

However, the Gopher coach is candid enough to admit that his defense should be dynamite and that he would rather rebuild up front than with his defense.

"We should have the best corps of defensemen in the school's history," he said. "We'll be as good in that area as any team in our league."

On defense the Gophers have quality and numbers. The two best players are junior Russ Anderson and sophomore Reed Larson.

Anderson was the first American chosen in the pro draft last spring. At 6-foot-2, 210-pounds, he is very physical and Brooks predicts an outstanding pro career for the former Washburn athlete.

Larson could be the first American chosen on the first round of the pro draft next year, according to Brooks. "He's the kind of player the pros start a bidding war over," the coach said.

Larson, a strong skater with perhaps the hardest shot in college hockey, scored 11 goals as a freshman.

Junior Joe Micheletti, a smooth skater and stickhandler, senior Brad Morrow and sophomores Joe Baker, Tony Dorn, and Robin Larson and prize freshman recruit Bill Baker help make the defensemen corps outstanding.

Brooks considers "the picture bright at goalie, too." Junior Jeff Tscherne gave up an average of 3.3 goals in the 11 games he played last year, winning 7 of those games.

"Jeff played well in Europe," Brooks said. "The big thing I've noticed about him is that he's not as impulsive as he once was. He's got confidence now and is making the right moves. He's playing his angles particularly well."

If Tscherne should make too many of the wrong moves, freshman Steve Janaszak stands ready to move in. Brooks said Janaszak was the most highly recruited schoolboy goalie in the country last spring.

Such is the quality of hockey player Brooks goes after for the University. The talent and his coaching have produced a national champion and runner-up in the last two years.

How about 1975-76?

"We should be picked for fourth in our league," Brooks said. "Michigan looks like the favorite. Everybody will be tough. We'll do okay."

1975-76 Gopher Varsity Hockey Schedule

(Home games in CAPS)

Nov.			
7	*MINNESOTA-DULUTH	24	*Michigan
8	*MINNESOTA-DULUTH	30	*Minnesota-Duluth
14	*Denver University	31	*Minnesota-Duluth
15	*Denver University		
21	*Michigan State	Feb.	
22	*Michigan State	6	*MICHIGAN STATE
28	*WISCONSIN	7	*MICHIGAN STATE
29	*WISCONSIN	13	*Wisconsin
		14	*Wisconsin
Dec.		20	*Colorado College
3	U.S. OLYMPIC TEAM	21	*Colorado College
5	*NORTH DAKOTA	27	*MICHIGAN
6	*NORTH DAKOTA	28	*MICHIGAN
19	*COLORADO COLLEGE		
20	*COLORADO COLLEGE	Mar.	
26	St. Louis U Tournament (St. Louis, Mo.)	5	*North Dakota
27	St. Louis U Tournament (St. Louis, Mo.)	6	*North Dakota
		10	WCHA Playoffs (Semi-Finals)
Jan.		11	WCHA Playoffs (Semi-Finals)
2	*MICHIGAN TECH	13	WCHA Playoffs (Finals)
3	*MICHIGAN TECH	14	WCHA Playoffs (Finals)
9	*Notre Dame	25	NCAA Championships
10	*Notre Dame	26	in Denver,
16	*DENVER UNIVERSITY	27	Colorado
17	*DENVER UNIVERSITY		
23	*Michigan		

(*) WCHA Games

Mithridates

Charlemagne and Igor Asmodeus were curled up on a chair. They may have been dreaming of past empires, but more than likely they didn't dream at all.

They had chased up and over the drawing board, across Judith Anne Duncan's arms and shoulders. Usually they were more discreet, while she, pen or brush in hand, worked at the script or the drawings on the board.

The cats have been her models. Perhaps they were the inspiration for her latest book: *My Cat Geoffrey* is based on lines from Christopher Smart's poem, "Jubilate Agno." The lines start, "For I will consider my cat Geoffrey." The book in Duncan-modified Carolingian script is printed in black ink or tan paper.

Geoffrey is Judith Duncan's second book, illustrated and calligraphed by her.

A third book, her first, is a history and bibliography of the construction of organs, *Rank on Rank: A Bibliography of the History and Construction of Organs*, written by Walter M. Liebenow, was published in 1973. The cover design and title page, the chapter headings, the sketches are her work.

The Book of Jonah was published last year. Its script and brilliantly colored illustrations are reminiscent of Medieval manuscripts. Asked why she had chosen the story of Jonah for the book, Miss Duncan replied, "Because it is a splendid story-dramatic. It has all of the action working up to that final sentence where God said to Jonah, 'You are all upset about a mere plant which you didn't even plant, dying and you think I shouldn't be upset about wiping out a whole city of people?'"

"We in modern society depersonalize everything. Unless we work at making events we read about a part of us, we are Jonahs. It is a very old story and a very modern one."

Judy came to the University from public school education in Faribault, Minnesota. Her mother, father and three sisters are graduates of the University of Minnesota. Her parents are teachers and two sisters are artists.

After receiving a BA degree in 1964, Judy continued to work for an MA in library science. She started as a library assistant in the University's

Jonah, Geoffrey and Judith Duncan



CALLIGRAPHER JUDITH DUNCAN must often work around the gentle curiosity and playfulness of her cats, Mithridates Charlemagne and Igor Asmodeus. Charlemagne is pictured with Judy above. Both cats have proved an inspiration to her in her work.

Education library on April 1, 1964. She receive her master's degree in 1971.

She worked at Walter and later Wilson Library.

In February, 1975, Judy decided that her interest in calligraphy which had begun because of her love of words and been maintained through contact with rare books and manuscripts in the libraries, took precedence over her vocation. She left the library for the drawing board.

When recalling the beginnings of

her fascination for calligraphy, Judy remembered that, as a first grader, she had drawn a wonderful "C", copied from a Grennan Cookbook Cake Doughnut box.

"I don't think the teacher really liked it, but it was a step in the right direction. When I got to college and began to see some of the exciting things in the library, particularly the illuminations in the special collections, they fascinated me."

"Did you try your hand at them then?" The Alumni News asked.

"Not really. In my freshman year just when I was discovering the library, I remember sitting in a poli sci class and that I was not taking notes. I was writing a poem in Gothic letters.

"The fellow who was sitting next to me had been assiduously copying my notes. He stopped copying and sat looking at what I was doing.

"Then I did some funny little things for friends — some poems, Medieval

music manuscript, Judy continued. "They were forgeries — no one could have considered them originals, but they were things I could play with. One piece of music pleased a friend in the Music department so much that he had it framed and hung near a door. People used to look at it several times before they realized that it was not an original.

"Calligraphy was a hobby to begin with, not even a fulltime hobby, which I doodled with. People began to want to buy what I did. This went on for three years and I began to realize that I couldn't afford a regular job which paid a salary at the expense of the time I needed to do what I love doing."

A hobby turned into a vocation has not deprived the cats of their expensive way of life. Judy says her wants are simple, but they are satisfied.

Last spring she was commissioned to calligraph a piece for the Spring Arts Festival at the Cathedral Church of St. Mark in Minneapolis. She chose another section of Smart's poem, "Jubilate Agno" for the calligraphy. An exhibit of her work was hung in the library during the Festival.

Since, she is teaching a class at the Cathedral during the fall months and she has had work exhibited at the Weyerhaeuser Library, Macalester, St. Paul, and at the Lutheran Brotherhood building in Minneapolis.

How

does one become an artist? Does family background account for three artists in one family?

"My father and mother would not claim to be artists," Judy answered. "My father, Frank H. Duncan, teaches at Morrilton (Minn.) since Faribault doesn't approve of two in a family teaching there. My mother, Bernice Schroeder Duncan, teaches English in Faribault (Minn.)

"My parents have tremendous sensitivities. They are utterly fabulous people.

"Cathy lives in Milwaukee. She graduated from Minnesota in 1968 and has taught art. She works primarily in oils.



JUDITH DUNCAN is especially pleased with the work she did on the book *Jonah*, some pages from which she displays in this photo. She has left her work as a librarian to devote her full-time to a craft that began as a hobby.

"Ina, also a '68 grad, is the wife of Dr. Thomas R. Banks of the Augustana College faculty in Rock Island, Ill. He teaches classics. Ina wouldn't think of herself as an artist, but she creates. She sews, knits and does that kind of work.

"Diane has just graduated," Judy said.

Calligraphers may start careers by doodling, but they also study. Judy received the help of Donald Jackson, one of Queen Elizabeth II's two scribes, who has a school for apprentices. She could not study in that school, but Jackson directed her use of manuscripts in the British Museum. The staff there was very helpful when she worked with the old vellums and incunabula.

"I spent a little time with David Kindersley," Judy said. "He lives in Cambridge and is a stone cutter, calligrapher and a type designer. He has worked at the Huntington Museum in Pasadena, Calif., and has done work at UCLA.

"He made the wall maps at the

American cemetery in Cambridge. His alphabets, cut free hand in slate, are remarkable.

"He helped me. A calligrapher must learn on his own. There is only a little a teacher can do besides encourage.

"Young people are so interested in crafts today. Script in itself is a craft, but the talented calligrapher makes it an art. The illustrations used with the script is also art, interpreting the words being used. The words are the poet's or prose writer's art, so calligraphy combines the art of the written word in script and the interpretative or decorative illustrations," Judy concluded. — Wilma Smith Leland



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HALLUCINATIONS & OBJECTIVITY

An LSD subject described the hallucination he experienced: "I see a visual image of the last movement of Berlioz's 'Symphonic Fantastique,' which I listened to last night. All the goblins and witches are dancing around and teasing and tormenting me. The *idée fixe* is a cobra dancing around me, its tongue lashing out at my face, and now its body is encircling mine. Now Mickey Mouse and Donald Duck are in the circle shaking hands with me."

In recent years psychiatrists, psychologists and anthropologists have come to describe hallucinations not as false perceptions, but as part of a continuum with dreams, sensations, fantasies, thoughts and even perceptions of the "real world."

John Wiley & Sons has just published a comprehensive treatment of the phenomenology and theory of hallucinations, *Hallucinations: Behavior, Experience and Theory* (\$25), edited by Ronald K. Siegel and Louis Jolyon West '46BS '49MD, which brings together contributions from experts in psychiatry, psychology, anthropology, psychopharmacology and philosophy.

Based on the premise that hallucinations — regardless of when or how they occur — have varying degrees of apparent objectivity, the book examines hallucinations as phenomena involving neurochemical neurophysiological, behavioral, imaginal, experiential and cognitive systems. Specialists in the field of hallucination research discuss current methodologies and help explain possible mechanisms of hallucinatory experiences.

The theoretical framework of Hallucinations suggests a multitude of approaches for future research, thinking and treatment. The visual imagery of various kinds of hallucinations is depicted by 52 illustrations — nearly half of them in color — by artists including David Sheridan and Yando (Hildebrando de Rios).

Hallucinations: BEHAVIOR, EXPERIENCE AND THEORY is written for psychiatrists, psychologists, neuroscientists, anthropologists, sociologists and others who seek an understanding of the complex world of hallucinations.

Coeditor and alumnus West is professor and chairman of the Department of Psychiatry, University of California School of Medicine, Los Angeles. He also serves as psychiatrist-in-chief at the UCLA Hospital and Clinics and medical director of the Neuropsychiatric Institute.

CONSIDER THE VICTIM

The victims of crimes and the question of restitution or reparations to these victims are the major focus of a new book edited by Burton R. Galaway, a University of Minnesota PhD candidate who is an instructor in the University of Minnesota-Duluth (UM) School of Social Development, and Joe Hudson, a former UMD faculty member who is now director of research for the Minnesota Department of Corrections.

CONSIDERING THE VICTIM (Charles C. Thomas Publishers) is a compilation of writing in this field by 13 scholars. The book covers six topical sections: the historical background of restitution and victim compensation, philosophical foundations for the programs, legal perspectives on the victim, psychological and sociological perspectives, and practical application of restitution and victim compensation programs.

Heightened interest in this field has led Galaway to develop a new course at UMD, "Crime Victims and Social Policy." Students who take the course will learn about restitution and reparation, how people become vulnerable to crime, how people often precipitate crime and the need for services to crime victims.

Galaway is the co-author of another book, *Social Work Processes*, published by The Dorsey Press in Homewood, Ill. His co-author is Beulah Roberts Compton, professor of social work on the University's Twin Cities campus.

Galaway joined the UMD faculty in January 1974. He holds a BA from Nebraska Wesleyan University and an MS from Columbia University.

SWEDES' LETTERS DESCRIBE AMERICA

The University of Minnesota Press has recently published a book with Bicentennial flavor called *LETTERS FROM THE PROMISED LAND*.

America is a country literally flowing with milk and honey — a land of freedom and equality for all persons.

America is a land of back-breaking labor, infested with disease and political corruption.

Both of these views are expressed in the letters Swedish immigrants sent back to the old country between 1840 and 1914. A selection of these translated letters make up *LETTERS FROM*



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For that perfect Christmas gift:

MINNESOTA IN FOCUS, text by George Moses, photographs by *The Minneapolis Star* and the *Minneapolis Tribune*. A wide-ranging collection of pictures with perceptive commentary and observations by veteran newsman Moses, who is also a Minnesota alumnus, portrays the State of Minnesota and its people in all seasons, in various moods, and in many modes of work and play. The photographs were taken by staff members of *The Star* and *Tribune*, many of whom have won prizes of excellence for their photography. There are 165 black-and-white and 43 color photos in this 8½ × 11, 160-page book. Regular price \$14.95.

MAA price \$9.71, plus 62¢ postage & handling.

LETTERS FROM THE PROMISED LAND: SWEDES IN AMERICA, 1840-1914, edited by H. Arnold Barton. This collection of letters, diaries and memoirs of Swedish immigrants and visitors provides a vivid account of the great Swedish migration to America in the nineteenth and early twentieth centuries. The editor is an associate professor of history at Southern Illinois University and editor of the *Swedish Pioneer Historical Quarterly*. This 6 × 9 book has 34 illustrations and 344 pages. Regular price \$16.50. (See review in *The Alumni Bookshelf* of this issue.)

MAA price \$10.72 plus 62¢ postage & handling.

SEARCHING FOR YOUR ANCESTORS, by Gilbert H. Doane. This is the fourth revised edition of a popular handbook on genealogy, with illustrations showing how to draw a family tree. A 212-page book, it measures 5½ × 8½. Regular price \$5.95.

MAA price \$3.86 plus 53¢ postage & handling.



MINNESOTA: A HISTORY OF THE STATE, by Theodore C. Blegen, with a new concluding chapter by Russell W. Fridley. This second edition of the widely-acclaimed history of the state has an extensive concluding chapter by Fridley, director of the Minnesota Historical Society, which brings the book up-to-date. In the new material Fridley surveys the events and problems of Minnesota in the decade or so after the original publication of the book in 1963. He

traces political, economic and social developments, placing them in the context of national and international trends and events. Thus this second edition of the standard contemporary history of Minnesota provides an up-to-date view of the state in broad perspective. There are also new illustrations in this 742-page 6 × 9 volume where illustrations total 62 and maps, 21. Regular price \$12.95.

MAA price \$8.41 plus 71¢ postage & handling.

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

No.	Book	Price
_____	MINNESOTA IN FOCUS	\$ _____
_____	LETTERS FROM THE PROMISED LAND	\$ _____
_____	SEARCHING FOR YOUR ANCESTORS	\$ _____
_____	MINNESOTA: A HISTORY OF THE STATE	\$ _____
	(Minnesota residents, add 4% sales tax)	\$ _____
	TOTAL POSTAGE CHARGES	\$ _____
	TOTAL REMITTANCE	\$ _____

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(Make checks payable to the Minnesota Alumni Association.)

THE PROMISED LAND (\$16.50) edited by H. Arnold Barton.

The selected letters were written by all types of immigrants, from those who left the homeland to avoid criminal prosecution, to ministers of the gospel who were leading their flocks to religious freedom in the new country, to young men and women who were seeking their fortunes in "the land of opportunity."

Many aspects of life are seen through the eyes of the immigrants — encounters with the Indians, daily homemaking tasks, historical events such as the Chicago Fire and Custer's Last Stand, conflicts between cattle ranchers and farmers, slavery in the South, the role of religion in American life, life and work in America's large cities, and problems in learning the English language.

A young immigrant to Michigan's iron-mining country wrote home in 1911, "There is no country on earth with so much graft as America." Three years later, he wrote, "America is a marvellous land, all in all . . ."

An objective view is presented by a Swedish pastor who wrote from Minnesota in 1861: "There are many wrong ideas among you there at home. Some believe that if they could only come to America they would live like lords and in a few years become well-off, even rich; but they deceive themselves for one has to work hard and sweat for what he gets here. Others, meanwhile, find too much fault with this country, and since they have heard that it has gone badly for some one or another who has come here, they believe that want and misery must be everyone's lot. That also is wrong. Say what you will about America, one thing is certain, and that is that those who wish to and can work can escape from want; for work and earnings for both men and women are not lacking here."

The book is divided into three sections, each with background on Swedish immigration: The Pioneers, 1840-1864; The Great Farmer-Land in the West, 1865-1889; and Farm, Forest and Factory, 1890-1914. There are 33 black-and-white photographic illustrations.

The letters were sent by Swedes who lived in all parts of the United States, including Hawaii. Some of the letters were printed in Swedish newspapers of the time, and other statements collected in the book were solicited by the Swedish government's commission on emigration, established to find out why people were leaving the homeland.

The purpose of the book, says author Barton, "is to let the Swedish immigrants tell their own story." — JV

Science Fiction?

THE EDGE OF THE UNIVERSE (Allen, \$6.95) by Harold W. G. Allen '49BA, is described on the jacket as science fiction. The book was written for publication prior to 1970, but the first copies were not printed until that year.

A controversy between the publisher and the author arose before the book for released for sale. During the summer of 1975 the author obtained the initial printing by establishing his own company. Inquiries may be sent to the Allen Book Publishing Co., Box 330, 2800 Keele St., Downsview, Ont. Can. M3M 3A6.

The science fiction attitude of the book is questionable since the average reader cannot know whether the scientific facts offered at the beginning and at the end of the text are truth or fiction. Since the book was written, some of them seem to have been accepted as fact.

Allen sets his novel in the 23rd century. He sends a group of international astronauts including a woman, to explore a planet from which messages in code, which has not been broken, have been received.

Prior to takeoff, the group assembles for the dedication of the world's largest telescope is an observatory in Queensland, Australia. Allen, consequently pairs the niece of the observatory's director with one of the astronauts in a love story, and the Russian woman, who is part of the exploratory space team, provides another romantic angle.

The story of the trip to and from the planet Rufus and the surprising findings on the planet make interesting and exciting reading.

Allen seems to be able to work these "fictioned" findings into a development of his own philosophy of creation of the earth, man's future and the ultimate destiny of matter. Scientific data on evolution, the expanding universe and the principle of reincarnation and the Cosmic Pyramid are subjects of Allen's final messages in the book. — WSL

Illustrious Evidence

The subtitle of this book of essays is "Approaches to English Literature of the Early Seventeenth Century." Edited, with an Introduction by Earl Miner '49BA '51MA '55PhD, *ILLUSTRIOUS EVIDENCE* University of California Press, \$9.50) may be read by students taking advanced courses in 17th century poetry and/or based on the works of Milton.

Readers who have worked in these courses should have copies of the writing of George Herbert, Joseph Hall, John Marston, as well as Milton, at hand for reference.

Thus prepared, the scholarship of Frank L. Huntley of Michigan; James Thorpe of the Huntington Library, Pasadena; Barbara K. Lewalski of Brown; Robert M. Adams of UCLA; Louis L. Martz, Yale; and Stanley E. Fish of Johns Hopkins, should make challenging reading.

The essays were read before an audience of students and faculty at UCLA when Miner, professor of English at Princeton, was Clark Library Professor at UCLA in 1971-72. He is the author of a three-volume study of 17th century English poetry.

For the purpose of publication, Miner divided the essays into three sets: Canon and Context, Controlling Ideas and Interpretation. Under the first title, Huntley sought to establish the authorship of "The Returne from Parnassus," discussing Joseph Hall and John Marston. He gives the reader insight into the methods a scholar uses to establish authorship when it is unknown and disputed.

Hall and Marston, both satirists, were mud-slingers. Huntley believes that Hall is the author of the second part of the play given by the boys of St. John's College, Cambridge, at Christmas in 1598, 1599 and 1602.

This reader found Thorpe's essay, "Reflections and Self-Reflections: *Outlandish Proverbs* as a Context for George Herbert's *Other Writings*," and "The Music of Comus" by Martz, the most interesting in the volume.

Thorpe says of scholarship, "All scholarship is, I hope, an adventure in understanding. The understanding of any given poem involves, first and last, patient and careful reading with all the skill and knowledge that we can possibly bring to the poem . . . We must place the poem in one or another of its contexts — of genre, convention, form; social, cultural, intellectual history; metrics, language, style; literary movement and literary influence. . ."

He uses the word "poem" in this case to refer to any literary work of art. "The business of criticism, so far as any given poem is concerned, is to place it as an order of words within the context of all literature," Thorpe wrote.

Herbert is again under scrutiny in "Typology and Poetry: A Consideration of Herbert, Vaughan and Marvell" by Lewalski. Herbert, she says, may have made Vaughan a poet, but not in his image. Whereas Herbert develops the metaphor of the speaker's heart, Vaughan makes him a pilgrim.

The second essay in the section, "Controlling Ideas," is Adam's "A Little Look into Chaos," a consideration of Milton's use of Chaos in "Paradise Lost."

Both Martz and Fish examine Milton's "Comus" for their essays. Too many versions of the Masque make scholarship particularly difficult. The word "music" has four meanings: the literal music composed by Henry Lawes; other music which may have been planned; musical illusions within the poetry; and "the music of poetry" itself.

Fish asserts that criticism of "Comus" is a matter of criticism of problems. In the essay he attempts to reconcile various criticism "by transforming their disagreement into an insight about the way the poetry works." —WSL

FOOTPRINTS

Corbin Waldron '27LLB has dedicated *FOOTPRINTS IN AMERICA'S FIELDS* (Dorrance, \$4.95) to "a great president, Richard M. Nixon." But there seems to be inconsistencies in some of Waldron's philosophies and the impressions and memories many Americans have of Mr. Nixon.

The book of poetry, prose, musical scores and political expressions exhorts the reader to notice his surroundings. Waldron's love is for the heartland of America. A practicing attorney in Minot, N.D., his home state designated him Poet Laureate in 1957.

Poems like "The Partisan Usurpers" with its attendant cartoon called "Descent into Morasses of Stupidity" — senators voting to "assassinate the chief's name" —, "The Double Cross" and "Think First" deride the critic, be he a member of Congress, a newspaper or TV reporter.

Yet in "Forays in Philosophy" Waldron says, "When public officials institute campaigns to accomplish their own ideologies, with the premise in mind that the end justifies the means, constitutional government is shoved out onto thin ice, where a breakdown is in the making."

"Save America" says that Americans should "Fight against the tyrants' of treatise of the phony supermen/Who would break all great tradition, make America supine . . ."

Some of the verses are in dialect. Some are humorous. The songs indicate that words and music are by

"Dakota Cal" Waldron. They read like country music.

And there is a eulogy to Caesar Tovar of the Minnesota Twins.

If your political philosophy is conservative, if you like poetry which has rhythm and rhyme, you may like *FOOTPRINTS*. — WSL

MAA

Constituent & Club Activities Calendar

November 16

The College of Education Alumni Association has scheduled its Seventh Theater Dinner Party for Sunday, November 16, at the Old Log Theater in Excelsior, Minn. A 5:00 p.m. social hour will precede the 6:00 p.m. Beef Stroganoff dinner. The curtain will go up on "The Sunshine Boys," at 7:30 p.m.

Bob Aden stars in this, the funniest Neil Simon play since the "The Odd Couple." Critics have said that "The Sunshine Boys" is the most delightful play Simon has written in many seasons. The play is about an old ex-vaudeville team that has the chance to make a television comeback.

Reservations are available at \$7.00 per person (includes dinner and theater tickets) through the Education Alumni Association, University of Minnesota, 2610 University Avenue, St. Paul, Minnesota 55114, telephone (612) 373-2466.

November 19

The Twenty-second Annual College of Business Administration Alumni Institute will be held Wednesday, November 19, at the Radisson South Hotel in Bloomington, Minn.

David M. Lilly, chairman of the board of The Toro Company, is honorary chairman of the event. Jim Brandt '60BSB, a partner in Arthur Andersen & Company, is general chairman.

Three concurrent afternoon panel sessions, beginning at 3:30 p.m. will be the sites for discussions of finance, marketing and the Evening Master of Business Administration program.

A 5:30 p.m. social hour will precede the Twenty-second Annual Institute Banquet in the Great Hall West & Center. Fletcher Byrom, chairman of the board and chief executive officer of the Koppers Company, will be the evening banquet speaker. His topic is "Business in the Next Century."

Dr. Richard M. Cyert '43BS, president of Carnegie-Mellon University, will receive the University's Outstanding Achievement Award at the meeting.

Reservations are available at \$15.00 per person, or \$175 for a table of eight, from the Business Administration Alumni Association, University of Minnesota, 2610 University Avenue, St. Paul, Minnesota 55114, telephone (612) 373-2466.

November 21 & 22

An all-day program will be available to Dental alumni who return to the Minnesota campus for Dental Alumni Day on November 21. Events feature special morning lectures and an afternoon closed circuit television session and participation seminars. The morning program will be held in Mayo Auditorium on the Minneapolis campus, and the afternoon program in the new Health Sciences building.

The Annual Alumni Luncheon, which will last from 12 noon until 2:00 p.m. in the Main Ballroom of Coffman Memorial Union on the Minneapolis campus, will feature the presentation of the Outstanding Achievement Award to Dr. J. Raymond Gill '21DDS, Cupertino, Calif., and the A. B. Hall Award to Dr. Irwin A. Epstein '22DDS, St. Paul.

Reservations for the morning lectures and afternoon sessions, as well as the Alumni Luncheon, can be made at \$12.00 per person for Alumni Association members, and \$24.00 per person for nonmembers, by contacting the Dentistry Alumni Association, University of Minnesota, 2610 University Avenue, St. Paul, Minnesota 55114, telephone (612) 373-2466.

The Ninth Annual Century Club banquet will be held the evening of November 21 at the Radisson Hotel in downtown Minneapolis.

On Saturday, November 22, the Twelfth Annual Post Alumni Day Seminar will be devoted to color selection in dentistry. Reservation information is available through the Dental Alumni Association.

Minnesota People:

Larry Larson and the laser

With

newspapers losing circulation, their managements are seeking ways to reduce expenses. *The Los Angeles Times* has found a way through a new laser plate exposure facsimile system.

The first two units of the system went into operation on October 1. Two more units will be operating by the end of the year.

The system is the product of EOCOM Corporation located in Irvine, Calif. And EOCOM is the business of alumnus Larry G. Larson '59BEE.

The corporation's name spells out the products it markets: electronic optics and computers. They are designed, fabricated and sold by the company in Orange County.

Larson has been president of EOCOM since it initiated operations in January, 1970. The previous year he had been manager of all programs in the Textron, which netted \$40 million per year.

In 1968 he held the position of group manager in an operating division of Honeywell. From 1962-65 he directed the project office of Honeywell's aerospace division's largest program.

At Lockheed Corporation, Larson had been a group supervisor. He had worked in engineering and research with Philco and Economics Laboratory, Inc., prior to association with Honeywell. While he was with Honeywell he was selected to participate for five years in the key executive advanced development program.

Associated with Larson is another Minnesotan, Kenneth R. Lindelin '59BEE. His experience has been in the development and sales of industrial instruments.

From 1957-65 Lindelin was manager of systems engineering and



LARRY G. LARSON '59BEE, at the right, president and founder of EOCOM Corporation located in Irvine, Calif., and Minnesota classmate **Kenneth R. Lindelin '59BEE**, who works in the development and sales of industrial instruments for EOCOM, congratulate one another on the success of a company that has grown to a \$40 million per year business since 1970, because of its development of laser scan systems that have proved revolutionary items for the newspaper publishing industry.

product development for Control Corporation. In 1965 he became director of engineering for Control Data Corporation and was the company until he joined EOCOM.

Lindelin's work involves the sale of toxic gas monitors process control systems and such key accessories as an adaptive sampling software package for industrial area monitoring.

The

growth of EOCOM has been Cinderella-like. It was started with a \$10,000 bank loan when the company undertook the study and design contracts for advanced U.S. government programs.

This led to design, development and fabrication of a flat field laser scanner utilized in a government project in 1971.

The goal of EOCOM officers is to become a major manufacturer of commercial electro-optical systems. The 1971 laser scanner was the beginning from which the first design for a newspaper plate laser exposure system was developed later that same year.

Continued research and development resulted in the fabrication of the system for a large plate manufacturer in 1973 and the EOCOM Laserite System family. This group includes several models to be used by newspapers with separate composing and printing facilities, a system for all printing plate manufacturers and one for commercial printers.

The *Times*' management figures that
(Turn to page 38)

Selected by the Board of Directors
of the Minnesota Alumni Association

The Official University of Minnesota Alumni Ring



The Minnesota Side

A Treasured Symbol
Of Academic Achievement

Women's
Miniature



Women's
Dinner



This handsome 10K gold Minnesota ring is set with a maroon synthetic garnet. It is decorated on the Minnesota side with the University seal, Golden Gopher and Minnesota "M", while your graduation date appears at the top. On the ring's University side you can add your college as well as your degree.

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Your official ring is available with either an oval bezel or a cushion bezel.

A filigree ring or dinner ring is offered for the ladies, along with the official ladies ring.

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I am interested in immediate information on the prices and options currently available on the Official Minnesota Alumni Ring.

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Around & About

Education

40 Gordon C. Donnelly '40BSEd, president of the State Bank of Wheaton, Minn., announced recently that a new banking idea which he has developed, along with 500 other state and national member banks of the Independent Bankers of Minnesota, received final approval from the Federal Deposit Insurance Corporation in Washington, D.C. Approval went to the Independent State Bank of Minnesota, the first of its kind in the nation. Donnelly, who is also president of this bank, said that it "symbolizes the collective desire of independent bankers to maintain independent banking in Minnesota and is expected to serve as a catalyst toward this end. It will provide services to and through other banks, as do correspondent departments of large metropolitan banks. It will provide no services directly to the public."

66 Jeffrey D. Latterell, '66BSEd, Bloomington, Minn., has joined Dravo Corporation, Pittsburgh, Pa., as a training specialist. He was previously a training administrator at Economics Laboratory in St. Paul.

65 Reverend James Boren '65MA, Dallas, Texas, has retired after 10 years as associate pastor of the Flossmoor Community Church. Earlier he had spent 21 years at the University of Minnesota as Presbyterian University pastor and director of the Westminster Foundation of Minnesota. He came to the University from Chulalongkorn University, Bangkok, Thailand, where he and his wife had instituted the first Christian Hostel in Southeast Asia.

73 Jon Michael Hasbrouck '73PhD has been named adjunct professor of speech pathology in the department of speech pathology and audiology at the University of Denver, Colorado. He was chief of the speech pathology section at Fitzsimons Army Medical Center, Denver, when this appointment was announced. Previously he was assistant professor of speech pathology at Mankato State College.

Medical

48 Dr. Philip Y. Paterson '46BS '47MB '48MD, Sackett Professor of Medicine and chief of the Infectious Disease and Hypersensitivity section at Northwestern University Medical School, has been named chairman of the department of microbiology-immunology. Paterson's work has been concerned with the possible immunological basis for central nervous system diseases like multiple sclerosis and meningoencephalomyelitis, diseases which have also been virus-linked. He has been investigating theories that hold that the immune system which protects the body against infection may turn against the body itself and destroy native tissues. He has helped to focus national attention on the relationship between disorders of the immune system and many widespread diseases. The department he has been named to head will emphasize his avenue of research. Dr. Paterson has been a research fellow in the Division of Infectious Disease at Tulane University School of Medicine, New Orleans, La.; a member of the U.S. Army Medical Service Graduate School Department of Virus and Rickettsial Diseases; a medical officer at the National Institute of Health's Laboratory of Immunology, National Institute of Allergy and Infectious Diseases; a visiting assistant professor of

microbiology at the New York University School of Medicine; and associate professor of experimental medicine at NYU from 1960-65. He joined Northwestern as associate professor of medicine, director of the Samuel J. Sackett Research Laboratories and chief of the Infectious Diseases and Hypersensitivity section of the Department of Medicine in 1965. He is the co-author of *Biological and Clinical Basis of Infectious Diseases*, a text that was released this fall. His wife, Virginia Bray Paterson, is also a Minnesota alumnus.

55 Dr. Robert W. Gustafson '55MD, formerly associate medical director of Lutheran Brotherhood Life Insurance Company, Minneapolis, has been named assistant medical director of National Life Insurance Company of Vermont. He has also served as a physician and surgeon at the Granite Medical Center in Granite Falls, Minn., and at the Mound (Minn.) Clinic.

66 Theodore D. Allen '66BA '68MS '71PhD (Microbiology) is an assistant professor of biology at Lake Forest College in Lake Forest, Ill. He has served as assistant professor of biology at the University of Guam and has worked for 3M in St. Paul.

Business Administration

39 James C. Nystrom '39BBA, Edina, Minn., chairman of the board of Nystrom Constructors, Inc., Minneapolis, has been elected a trustee of Hamline University, St. Paul. He is also president of Nystrom, Inc. and Inercity Equipment Company. He will serve as a link between the Midwestern School of Law board, which he heads, and Hamline while the two schools continue discussion of affiliation.

42 Calvin L. Smith '42BBA, corporate vice president and controller of Cargill, Inc., Minneapolis, has been elected a director of the agricultural products and processing firm. He held management accounting positions in the commodity marketing, processing and administrative divisions after he joined the company in 1946, became assistant controller in 1957, assistant vice president in 1965, and vice president and controller in 1970. He was named to his current position two years ago.

48 Newell V. Risdall '48BBA, North Oaks, Minn., vice president of marketing for Smith System Manufacturing Company, is serving on the manufacturers Council board of governors of the National School Supply and Equipment Association (NSSEA). A vice president with Smith System for the past 15 years, he has been very active in national education trade associations, serving on NSSEA's top governing bodies, as a past chairman of that group's membership committee and current member of its nominating committee, on the board and as president of Education Industries Association, as chairman of the Exhibitors committee for the Association of School Business Officials and as a member of the board of governors for the School Facilities Council.

54 Vernon E. Sieling '54BSB, Minnetonka, Minn., has been promoted to executive vice president from senior vice president at Control Data Corporation, Minneapolis. He joined the company as a salesman in 1964 after seven years with IBM. He became vice president for western U.S. marketing operations in 1971, head of western European operations in 1972 and senior vice president for worldwide marketing in 1974.

61 C. David Jones '61MBA, president of Roth Young Personnel Service of Minneapolis, Inc., was recently elected to the board of the National Employment Association. Beginning January 1 he will serve a two-year term as a district director, representing Minnesota, Wisconsin, Iowa, North and South Dakota, Nebraska, Kansas and Colorado. He is currently a vice president of the Minnesota Employment Agency Association.



Saunders named vice president and general manager of Endeveco division

John T. Saunders '53BEE, San Juan Capistrano, Calif., has been named vice president and general manager of Endeveco's Dynamic Instrument division. He was previously director of marketing for the same division in the San Juan Capistrano company.

He joined Endeveco as director of marketing in 1971 and the following year was given the additional duties of director of international operations.

Earlier he had been employed by the Arcata Data Management Company as vice president-marketing and by the Western division of Data Control Systems as vice president and general manager.

Around & About

63 USAF Major David G. Hamm '63BSB, Litchfield, Minn., has been awarded the Meritorious Service Medal for his performance as a procurement officer at Lajes Field in the Azores. He is now a missile combat crew commander at Francis E. Warren AFB, Wyo.

Vic Reim '63-'73, president of the Commercial State Bank in St. Paul, is the youngest president of a major bank in the Twin Cities area at age 35. He joined the bank's staff after he was discharged from the Army with the rank of lieutenant in early 1963. During the next ten years he was, successively, a clerk, assistant cashier, assistant vice president, vice president and administrative vice president. He was named executive vice president and to the bank's board of directors in 1974. Active in the St. Paul community his bank serves, he has been vice president of the St. Paul Jaycees and a member of its board for three years, president of the St. Paul Optimist Club, an officer of Optimist International and governor of the Dakota-Manitoba-Minnesota district. He serves on the boards of Jacob Schmidt Company, the Fighting Saints and Salvation Army, is president of the Twin Cities chapter of the St. John's University alumni association, active in the Chamber of Commerce and currently serves on the Capitol Area Architectural Commission, representing the City of St. Paul and Ramsey County.

65 Captain Douglas W. Bulen '65BSB, Anoka, Minn., a logistics officer at Edwards AFB, Calif., is currently active in the new B-1 bomber flight test program at that base, helping to evaluate the aircraft's systems during initial testing stages. He earned an MA degree in logistics management at the Air Force Institute of Technology, Wright-Patterson AFB, Ohio.

68 Jon T. Tremmel '68BSB '74MBA, La Crosse, Wis., has joined The Trane Company in La Crosse as manager of corporate systems. Previously he was a facility administrator for the St. Paul division of Whirlpool Corporation and an industrial consultant for Peat, Marwick, Mitchell & Company.

70 Kenneth L. Shaffer '70BSB '75MBA, Golden Valley, Minn., has joined The Bankers Life, Des Moines, Iowa, as a security analyst in the investment department. He served in the U.S. Army from 1970-73.

Veterinary Medicine

71 USAF Captain Michael J. Bradley '71DVM, Hollandale, Minn., has received the USAF Commendation Medal for meritorious service at Goose AB, Labrador. He now serves at Duluth (Minn.)/International Airport with the USAF Clinic.

Agriculture

41 Burton W. Kreitlow '41BSAg is on leave from his position as professor of continuing and vocational education at the University of Wisconsin and is serving as a Distinguished Visiting Professor at the Ohio State University. He was chosen by the latter institution's Graduate School for this honor and has been assigned to the School of Education where he will continue his teaching research and writing in Continuing Education.

Health Sciences

69 Robert Spinner '69MHA, Richfield, Minn., has been named administrator of the Northwestern Division of the Abbott-Northwestern Hospital Corporation. He joined Abbott-Northwestern in 1969 as an assistant administrator.

Institute of Technology

22 Walt Peters '22BMEchE, St. Paul, retired NSP gas engineer, was co-receiver of the Ramsey County Outstanding Senior Citizen award at the opening of the 1975 Minnesota State Fair. He was selected for his extensive involvement in community activities. A founding member of the Senior Citizen Coalition of Greater St. Paul, he was active in promoting the idea of a local senior citizens center, sponsored by the Wilder Foundation. For the past five years he has been general chairman of the St. Paul Winter Carnival senior activities. While at NSP his accomplishments in gas system design won him the nation's highest monetary award and recognition from the American Gas Association.



R. E. Smith named assistant vp with Educational Testing

Robert E. Smith '51MA '55PhD, East Amwell Township, N.J., has become an assistant vice president with the Educational Testing Service (ETS) located in Princeton, N.J. He previously was executive director for the organization's Higher Education and Career and Law Programs divisions.

He joined ETS 19 years ago and has worked there as a director of the Preliminary Scholastic Aptitude Test and College Scholarship Service programs and as College Board Guidance Services director.

31 Alfred O. C. Nier '31BEE '33MSEE '36PhD was at Cape Canaveral during preparations for the launch of NASA's Viking Mission to Mars. He is one of 74 scientists working on experiments which will take pictures and conduct a detailed scientific examination of the planet, including a search for life. Dr. Nier is team leader of Viking's Entry Science group whose investigation is concerned with direct measurements of the Martian atmosphere. The first Viking spacecraft is expected to reach Martian orbit in June 1976, with a soft landing on the surface anticipated in the following month.

Charles C. Winding '31BChmeEng '35PhD, Cornell University's Herbert Fish Johnson professor of industrial chemistry, was named a professor emeritus on July 1. A member of the Cornell faculty for 40 years, he was instrumental in creating the School of Chemical Engineering and in planning Olin Hall which houses the school's main research and administrative facilities. He directed the School of Chemical Engineering from 1957 to 1970, modifying its program so that it provided for the preparation of professional engineers through a design-oriented program as well as for preparation of engineering teachers and researchers. In recognition of his contributions to Cornell — where he served as teacher, researcher and counselor to over 1600 chemical engineering alumni — a group of alumni and friends of the School of Chemical Engineering established a special scholarship fund in his honor in 1973. He plans to maintain ties with the university during his retirement and remains active in several national professional organizations. He is chairman of the accreditation committee for the Society of Plastic Engineers and a member of the national metrification committee of the American Institute of Chemical Engineers.

38 George T. Piercy '38BChemEng, New York, director and senior vice president of the Exxon Corporation, has been selected to serve on Northwestern Mutual Life Insurance Company's 1975 Examining Committee of Policyowners. This is an independent group of "consumers" who review the company practices and policies on behalf of its policyholders. Piercy joined Exxon in 1938 as a process engineer and has since progressed rapidly through a variety of responsible administrative positions. He has represented the petroleum industry in many of its negotiations with the Organization of Petroleum Exporting Countries (OPEC). He is a director of the Arabian American Oil Company, the Chemical Bank of Chemical New York Corporation. He serves as a trustee of the Education Broadcasting Corporation, New York, and as a director of the Near East Foundation and a member of the Council on Foreign Relations.

46 Paul R. Doty '46BAeroE, Kettering, Ohio, deputy director of the Directorate of Program Control, Deputy for B-1, Aeronautical Systems division of the USAF, was recently awarded the Meritorious Civilian Service Award. He was cited for his leadership, management and administrative activities for the B-1 weapons system, the newest strategic bomber being developed for the Air Force.

60 Louis G. Shew '60BMEchE, La Crosse, Wis., has been promoted to assistant general manager of the International division of the Trane Company in La Crosse. He joined Trane in 1960.

DEATHS



62 John F. "Jack" Evert '62BME '64MSME, Stillwater, Minn., has been named manager of the environmental specialties project at 3M Company, St. Paul. He joined the company in 1964.

University College

64 Roger H. Olson '64BA, Chicago, Ill., has been appointed regional representative to the American Society of Interior Designers by the F. Schumacher Company of New York. He joined the Schumacher fabric house shortly before his graduation.

College of Liberal Arts

07 Richard L. Griggs '07BA, Duluth educational leader, former University of Minnesota regent, philanthropist, big game hunter, banker and civic leader, has been named to the Governor John Sargent Pillsbury Fellowship. He and 27 other new Fellows of this very select group were honored at a dinner in Bloomington, Minn., this fall. To become a member of the Pillsbury Fellowship, one must have given a minimum of \$10,000 to the University of Minnesota. Since the Fellowship was formed in 1962, more than 300 persons have been inducted. Griggs who served as a regent for 24 years, returned recently from a five-week safari to Africa, the most recent of 12 safaris to 11 African countries. During the trip he was a special guest of President and Mrs. Clifford Dupont of Salisbury, Rhodesia, one of many African leaders Griggs has met over the years.

24 Ten years of research by Anna B. Kerr '24BA produced an article on "The Wharton Punch Bowl," published in the July issue of the prestigious British antiques magazine, *Connoisseur*. Mrs. Kerr sought to establish the identity of a colonial mansion painted on the Chinese export bowl. Her research determined it to be Rosewell, a Virginia estate on the York River. The 18th century bowl belongs to the Minnesota State Historical Society.

30 Selma Crow Therriault '30MA, Ephrata, Wash., retired last year after 30 years of writing news for the *Grant County Journal* in Ephrata. This year the Carlton Press of New York (84 Fifth Avenue), is publishing a book she has written for Christmas. It is *Frank and Frank Homesteaders*, the story of her husband Frank and his friend Frank Witte traveling on horseback in 1912 to Central British Columbia to look for homesteads. Following her graduation from Minnesota, Mrs. Therriault managed to find a teaching job in spite of the Depression, and, with the outbreak of WWII, moved with her husband to Ephrata.

31 Harry E. Atwood '31BA, Minneapolis, a past president of the Minnesota Alumni Association, retired in August of this year after 44 years with Northwestern National Life Insurance Company. He had been that company's president since 1969. He joined Northwestern National Life in 1931 as assistant editor of its newspaper for agents.

Herbert M. Schueller '31BA '32MA has retired as head of the Wayne State University Press. President of the American Society for Aesthetics, he was a faculty member at junior colleges in Tracy and Crosby-Ironton, Minn., before going to Wayne State.

32 W. Allen Wallis '32BA, chancellor of the University of Rochester in New York, has been appointed a director of the Corporation for Public Broadcasting. His nomination to the 15-member board by U.S. President Gerald Ford was recently confirmed by the Senate. The corporation was established in 1967 to provide leadership in the development of the nation's public broadcasting system. This past June, Wallis was re-named by President Ford to serve as chairman of the Commission on Presidential Scholars which he has headed since his appointment to the commission in 1969. He is also serving as a member of the New York Board of Regents commission to study the financial problems of colleges and universities in New York State, and he was chairman of the statutory national Advisory Council on Social Security.

38 Laurie L. Cavanaugh '38BA, director of public relations for the Minneapolis Star and Tribune Company since 1972, has been placed on a year's executive loan to the Minneapolis '76 Commission as project director for "Summer of '76," a Minneapolis Aquatennial production of Bicentennial commemorative events. Cavanaugh joined the Star and Tribune Company's promotion department in 1951 and served as its director from 1960-72.

49 Richard M. Straw '49BA '49-'50, Pasadena, Calif., is associate dean of Academic Planning at California State University, Los Angeles. A member of that institution's faculty for nearly 20 years, he has served as associate dean of the School of Letters & Science, professor of biology, coordinator of biology, curator of the Herbarium in the department of botany and director of Curricular Planning. As a known specialist in the area of genetics, he has served as a consultant in genetics to Children's Hospital of Los Angeles and as a member of the subcommittee on genetics of the committee on maternal and child health for the State Department of Public Health.

50 Hector Neri Castaneda '50BA '52MA '54PhD, a philosopher and educator from Guatemala who is a professor at Indiana University and a Chicago public relations and market consultant, received one of the first honorary doctorate degrees conferred by Governors State University, Park Forest South, Ill. He received an honorary doctor of humanities degree at the July commencement ceremonies. Castaneda holds the Mahlon Powell professorship of philosophy at Indiana University, having taught also at Wayne State University. And he is the founding editor of *NOUS*, a prestigious journal for philosophical research. He was named Outstanding Educator for 1974-75 for his international contributions in the fields of philosophy and education. He is presently doing philosophical research under a fellowship of the National Endowment for the Humanities.

Bruce A. Poulsen '50BA, North Oaks, Minn., has been promoted to chief legal officer at the Prudential Insurance Company's North Central home office in Minneapolis. He joined the Prudential in 1954.

57 David A. Gershaw '57BA '57-'59 has received a doctoral degree from the University of Arizona, Tucson.

'10-'19

John Dahlquist '14-'17 '26BA, a Minneapolis native who retired as a four-star general after almost 40 years of service with the U.S. Army, died June 30 at age 79 in Ft. Lauderdale, Fla. He was commander of the 36th Infantry Division as it moved through Italy, France, the Rhineland and Austria during WWII and he accepted the surrender of Nazi leader Hermann Goering. His troops also liberated French Premier Paul Reynaud. Dahlquist held a variety of military posts after the war, including commanding general of all continental U.S. armies. He retired from the service in 1956 and returned to Minneapolis to head a new department for Harris, Upham & Company which provided investment services for military men.

Ella Moeller Billmeyer '19BA, Sun City, Ariz., died July 13.

'20-'29

R. H. Olson '23BEE, Chicago, Ill., has died.
Allen C. Sulerud '26BA, St. Paul, has died.
Truman P. Young '26BCivE, Cincinnati, Ohio, is reported as deceased.

'30-'39

Donald J. Heng, Sr. '30-'36(IT), Grand Marais, Minn., died April 6 while vacationing in Palm Springs, Fla.

Robert J. Vickers '35BSED, Duluth, Minn., died September 14.

Ralph E. Blyberg '38BCivE, San Rafael, Calif., has died.

Fred Vant Hull '38-'40(CLA), owner of Vant Hull Old Time liquor store in St. Louis Park, Minn., died April 10 at age 55. He played tackle for the University of Minnesota Gophers in 1930 and 1940, and was with the Green Bay Packers in 1942. He was stricken with polio in 1949, and his legs and arms were paralyzed.

Miss Lola A. Fay '39BSEd, St. Paul, died August 6, 1975.

Reverend Leslie D. McGladrey '39BA, Sycamore, Ill., died in December 1973.

'40-'49

Mrs. J. R. Hankenson '40BSEd, Minneapolis, died December 28, 1974.

W. Kenneth Sauck '40AMS, Aberdeen, S.D., has died.

Mrs. M. R. Barber '41AA, Thomasville, N.C., has died.

Mrs. R. L. John '45BAJourn, St. Croix Falls, Wis., has died.

Wilford D. Samuelson '46BME, Hamburg, N.Y., died in a plane crash on June 19, 1968.

Robert J. Reese '47BBA, Fort Wayne, Ind., died March 22, 1973.

Thomas M. Hilligan '48LLB, Bemidji, Minn., died February 28.

Walter A. Sanborn, Jr., '48BChemE, Mankato, Minn., died December 9, 1974.

Vincent T. Schumacher '49BA, Calumet, Minn., died February 17, 1974.

Larson . . .

From page 33

the cost savings using the new \$1 million laser system will be about 75 to 80 cents per page. The system eliminates the need for page pasteup cameras, film, photographic paper and chemi-

icals. And, since there are no negatives, the cost of opaquing flaws is also saved.

The lapsed time from final page paste-up to printing plate is two minutes. The system reads the final page paste-up with a low-power laser and converts a light image into electrical energy. This energy is used to operate a medium-power writing laser which exposes a light sensitive magnesium plate by placing precisely controlled amounts of laser light on the plate surface. The magnesium plate is then etched and sent to Stereotype where a mat is molded and the press plate cast. The latter process is the same procedure that has been followed in the past by the printing industry.

The system means another revolutionary change in the industry. Photo-composition was the first. Plastic plates replacing metal has been another.

Laser

is the mid-20th century's miracle. The narrow, intense beam of light has a wide variety of functions.

The beam is formed by passing light through a crystal or gas, intensifying

the natural oscillations of the atoms. This amplifies the light to an incredible degree and it can be further amplified by the use of mirrors.

The beam is being used to perform delicate eye surgery. Canes for the blind are being equipped with laser to warn of hazards. And it is being used in cancer studies, for skin grafts and bloodless surgery.

The laser has been used for fantastic displays as entertainment. Three-dimensional holographs have appeared in exhibits, replacing traditional photographs.

The stenographer may find a laser device invented by Dr. Arthur L. Schawlow invaluable — it removes errors without marring the paper!

But the laser's greatest characteristic may be the production of limitless amounts of energy through the fusion of hydrogen pellets.

The laser products for commercial and newspaper printing were additions to a line of spectrometers for use in research and industrial applications, developed, fabricated, sold and serviced by EOCOM.

Larson and fellow alumnus Lindelin have joined the futuristic and revolutionary work of many Minnesota alumni. — Wilma Smith Leland

All-American Bill Bevan is dead at age 62

All-American Gopher guard William A. (Bill) Bevan, Chisago City, Minn., died August 26 following heart surgery. He was 62.

Bevan had played for the Gophers in 1933 and on Bernie Bierman's 1934 national championship team. He played without a head guard and was known, not only for his fierce blocking, but also for his leadership on defense.

It was the defense that made the Gophers a championship team in 1934.

Following his graduation from Minnesota, Bevan coached at Tulane and Pittsburgh under Red Dawson who had been a backfield coach at Minnesota. He also coached at Iowa State Teachers College and Dartmouth.

At the time of his death, Bevan worked as an insurance counselor in the Minneapolis office of Bankers Life of Des Moines, Iowa. He was a member of the company's Million Dollar Club for several years, including 1974.

1975-76 Basketball / Go with the Gophers

1975-76 Home Schedule

Sat.,	Nov. 29	South Dakota St.
Sat.,	Dec. 6	North Dakota
Tue.,	Dec. 9	Loyola
Thu.,	Dec. 18	Marquette
Sat.,	Jan. 3	Purdue
Mon.,	Jan. 8	Illinois
Sat.,	Jan. 10	Iowa
Sat.,	Jan. 24	Indiana
Mon.,	Jan. 26	Ohio State
Sat.,	Feb. 14	Northwestern
Mon.,	Feb. 16	Wisconsin
Sat.,	Feb. 28	Michigan State
Mon.,	Mar. 1	Michigan

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Athletic Ticket Office
Bierman Field Athletic Bldg.
University of Minnesota
Minneapolis, Minn. 55455
Telephone 373-3181

Name, Address and Zip Code Number

No. Tickets @ \$4.00	BASKETBALL Date and Game	Total
		\$
		\$
		\$
		\$
		\$
	Postage and Handling	.50
Total Remittance Payable to University of Minnesota		\$

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Benefits and Premiums

YOUR AGE	AMOUNT OF TERM LIFE INSURANCE	SEMI-ANNUAL PREMIUMS*
UNDER 25	\$10,000	\$ 11.00
25-29	10,000	12.50
30-34	10,000	17.50
35-39	10,000	24.00
40-44	10,000	35.50
45-49	10,000	51.00
50-54	10,000	73.50
55-59	10,000	108.00
60-64	10,000	175.00
65-69	5,000	135.00
70-74	2,500	99.00

*Premiums are current rates—subject to change by the insurer. For information concerning higher amounts, write the MAA Insurance Administrator.

Coverage terminates at age 75.

EASY TO ENROLL

1. Complete Group Life Insurance Enrollment Form
2. Mail to: Minnesota Alumni Association
Insurance Administrator
Suite Five Hundred
400 South County Road 18
Minneapolis, Minnesota 55426
3. Send no money now. You will receive your first billing from the Administrator upon acceptance of your Enrollment Form.

Minnesota Alumni Association Group Life Insurance ENROLLMENT FORM

A. Name _____

B. _____

Permanent Mailing Address: Street and Number _____

City _____ State _____ Zip _____

Coverage for residents of New Jersey, Ohio, Texas, West Virginia, Florida and Wisconsin is not available at this time.

Date of Birth _____ Sex _____ Year Graduated from U of M _____

Beneficiary (Print Name as MARY DOE, not MRS. JOHN DOE) _____ Relationship _____

Amount of Term Life Insurance: \$10,000

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 group life insurance provided by the Minnesota Alumni Association Group Life Insurance Program underwritten by The Prudential Insurance Company of America. As a member in good standing, I understand that any and all dividends declared under the above group policy shall become the property of the Minnesota Alumni Association. I represent that each of the above answers is complete and true, and that they shall be the basis of the issuance by the Company of any group life insurance pursuant to this application.

AUTHORIZATION: I hereby authorize any licensed physician, medical practitioner, hospital, clinic or other medical or medically related facility, insurance company or other organization, institution or person, that has any records or knowledge of me or my health, to give to The Prudential Insurance Company of America any such information. A photographic copy of this authorization shall be as valid as the original.

Date _____ X _____ Signature _____

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BECOMING A LIFE MEMBER NOW, will probably save you money — particularly if alumni dues go up again. One payment of \$175.00 or \$225.00 for a husband-wife membership assures your Life Membership. Or, use the time payment plan by sending \$50.00 as a down payment, while you pay the remainder over a two-year period.



A BARGAIN FOR YOU, because Life Membership is another way to hedge against the effects of inflation . . .
A BOON FOR THE ASSOCIATION, because it assures the Minnesota Alumni Association long-range strength in its numerous good works. Life Membership monies go into endowment — the interest services the membership.

These alumni recently joined the effort to support their Minnesota Alumni Association through Life Membership:

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- I am enclosing my check for \$175
- I am enclosing my check for \$225 (husband-wife membership)
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