

the university of michigan Today is the only Michigan publication received regularly by 177,000 alumni, friends, and faculty of the University



GENETICS TECHNOLOGY—Dr. James V. Neel (right) points out an oscilloscope reading on blood enzyme reaction values being fed into a lab computer. His associate, Dr. Robert J. Tanis, heads the laboratory phase of the \$4.6 million project.

University Undertakes Study Of Genetic Effects of Pollutants

A new research program aimed at developing methods of monitoring human mutation rates will soon begin at U-M under a five-year \$4.6 million contract with the Energy Research and Development Agency (ERDA).

The program will be carried out by the Department of Human Genetics under the direction of Presidential Science Medalist, Dr. James V. Neel.

Information derived from the program may lead to an understanding of the long-term effects on mankind of energy-related pollutants such as nuclear fallout, carbon monoxide smog, and aerosol sprays.

Commending the new research program and its potential implications for society, President R. W. Fleming, said, "We live in a period when we are not only concerned about pollutants in the environment, but when there are enormous pressures not to do anything about it."

Basic Research

Programs such as this, he added, are important to the University in three ways.

"It is easy to be critical of basic research because it does not have an immediate objective in terms of curing a specific problem. People have been questioning whether universities and research at universities are as useful as we thought. But now we are investing in some basic research which may have tremendous significance for all of us."

Faculty is Key

Secondly, continuing basic research at the university level ensures a stream of skilled scientists as junior colleagues work under the direction of senior researchers.

Finally, the program is "a reminder that the greatness of the University lies basically in its faculty. Contracts and grants do not come to Michigan simply because it is a great university, but because of the stature of our faculty."

Replacement of Hospital's Main Unit Is Proposed

It's hard to practice 1970's medicine in a hospital designed in the early 1920's.

While medical services at U-M are among the best in the nation, the 50-year-old Main Unit of the University Hospital complex has outlived its usefulness as an acute care facility.

A proposal to replace the double "Y"-shaped Main Unit building based on five years of long-range planning is currently before the state legislature.

No More Beds

Although an increase in the number of beds is not planned, the new building will be more adaptable and flexible. It will be designed to benefit patients, practitioners, and students well into the 21st century. The space in the old building will then be used for less intensive purposes.

Michigan has an eminent history of medical achievement beginning with the nation's first university-owned teaching hospital, and including the largest baccalaureate School of Nursing and one of the country's major medical schools.

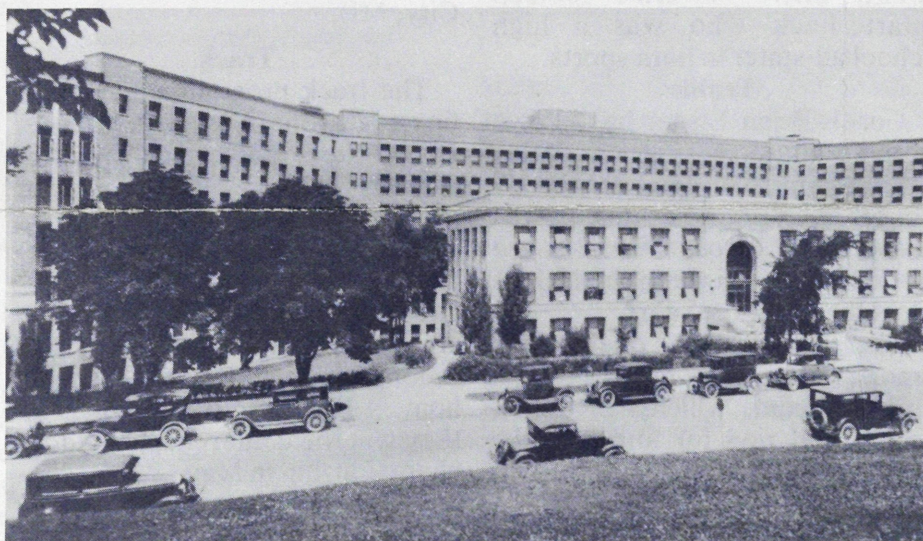
Largest Site

The aging Main Unit has become the heart of a 28-building, 82 acre complex devoted to patient care, research, and medical education—the largest single-site concentration of such facilities in the world.

Here the 40,000 patients who are admitted annually from every Michigan county and many surrounding states are cared for by 420 staff physicians, 382 house officers (residents in training), and 1,009 nursing personnel.

However, many of these patients must be treated in the Main Unit, which was designed in the early 1920's to facilitate medical

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1970 MEDICINE IN 1920 BUILDING—The present Main Unit of the University Hospital was designed to accommodate medical theories that are as out-of-date as the automobiles in this photograph of the building which was taken in 1925.

Campus Alumni Records Office Keeps People in Touch—and More

Do you want to renew a lapsed friendship, locate a long-lost relative, or compile information about your ancestors?

If the object of your search is a U-M alumnus or alumna, the Alumni Records Office may be able to help.

The following examples are typical of requests to which the office has responded within the past few months.

- Locating a student whose father had not seen her since she left China as a teen-ager 23 years ago.

- Returning a Michigan class ring to its proper owner through some detective work based on the initials and year of graduation on the ring.

- Enabling a Michigan resident to prove that her family had lived in the state for over 100 years by furnishing the date of her grandfather's attendance at U-M.

- Supplying the address of a graduate who lives abroad for a former classmate who was planning a trip overseas.

- Confirming some factual information for an author writing a book about several former students.

Besides maintaining up-to-date addresses for all alumni, which involves more than 60,000 address changes annually, the office is both a contemporary and historical resource. However, its records, which date back to 1837 and contain information on more than 300,000 individuals, are primarily for use within the University.

Privacy Is Protected

Protecting the privacy of U-M graduates receives the highest priority. No information is ever released to non-alumni or commercial firms without the prior approval

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Francoise Giroud Headlines Program For Commencement

Francoise Giroud, France's first Secretary of State on the Condition of Women, will be the main speaker at spring commencement May 1.

Giroud is an accomplished journalist who has edited the women's magazine *Elle* and the news magazine, *L'Express*, and has written several books.

Often described as "one of the most influential women in France," she was named to the French cabinet in 1974.



Research Hazards Catalyze Controversy And Public Debate

Controversy sparked by the interest of two U-M scientists in an area of genetic research that poses some potential hazards has catalyzed wide-ranging public debate.

David Jackson, assistant professor of microbiology, and Robert Helling, associate professor of cellular and molecular biology, have made major contributions to recombinant DNA (deoxyribonucleic acid) methodology, a new field of biological research that could yield substantial benefits for medicine, industrial processes, and agriculture.

New Genetic Combinations

Because the recombinant DNA technique enables scientist to form new combinations of genes, there are those at U-M and elsewhere who question the safety and the ethical and moral aspects of the research.

This concern attracted national attention in a recent two-day forum attended by more than 2,200 people during which the broadest aspects of DNA research were discussed.

U-M Is Leader

Scientists and nonscientists alike attended, including Nobel laureate David Baltimore of Harvard, representatives from U-M and the Ann Arbor community, and officials from the National Institutes of Health.

U-M is one of the first institutions of higher education to discuss implications of this new technique on a community-wide basis. Issues raised here are expected to influence the future of genetic research.



ALUMNUS SERVES AS VISITING PROFESSOR—Burton Benjamin, (AB '39), executive producer of the CBS evening news, recently returned to the campus as the Marsh professor of journalism. "I feel very strongly that this is a superb university," he said. "The students I've been dealing with are stimulating and reactive, and they write very well. My admiration for the University has been refortified. The high intellectual power of the people here is very impressive."

Spring Sports Forecast—Sunny

Baseball

After winning his first Big Ten championship in 14 years of coaching last season, Moby Benedict is eyeing the Wolverines' 24th league crown. Last season's 28-12 record included a second-place finish in the NCAA Mideast Regional.

He is counting on four incoming freshman including Rick Leach, (Flint, MI), Wolverine football quarterback who was a high school all-stater in both sports.

Tennis

Coach Brian Eisner has known nothing but success since joining Michigan in 1970. He has won six consecutive Big Ten titles, posted a dual meet record of 93-16, and placed in the top six in the NCAA meet the last three years.

There was only one senior among the top eight players on last spring's team, which had a 16-1 record and tied for fourth in the NCAA. Jeff Etterbeek (Holland,

MI), the top high school player in the Midwest and two-time state champion, may fill the vacancy.

Golf

In golf, six lettermen return to join with four outstanding recruits to give the Wolverines a solid chance of moving up from last year's fourth-place Big Ten finish. Promising newcomers include state champion Rod Pafford (Bay City, MI).

Track

The track program is having its finest season in over a decade. Every key performer has returned, along with a superior group of freshmen.

The Wolverines, who have successfully defended their conference cross country championship and have also won the Big Ten Indoor championship, will bring home a Big Ten "triple crown" if they win the conference's outdoor championship in May.

Alumni Records (continued)

val of the alumnus although the office sometimes forwards letters from these sources to alumni while protecting their addresses.

Emphasizing the human touch in record keeping, Alumni Records supervisor Mary Dewey said, "We really do want to hear from alumni and alumnae. We never ignore a request from them."

Address Preferences

This service orientation extends to recording the names of alumni and alumnae according to their preferences. "Our system is very flexible," Dewey continued. "We urge people to contact us if they wish to change the way that we are addressing them."

Queries and address changes should be addressed to:

Alumni Records Office
405 South Fourth Street
The University of Michigan
Ann Arbor, Michigan 48109

Hospital (continued)

care practices that are now obsolete. For example, in 1920 the best treatment for pneumonia was no treatment at all other than bed rest.

Despite extensive remodeling over the years, the Main Unit still includes 11 16-18 bed open wards, a legacy from the days when large wards were thought to provide the most efficient setting for group teaching.

Remodeling Is Expensive

It is difficult to accommodate the radical technological developments that have permitted so many advances in health care, particularly those that require installation of special utilities, in a 1920's building, and to achieve maximum efficiency and accessibility.

About \$2.5 million must be spent each year for adaptations and renovations to meet current regulatory and accrediting standards. Modernization is usually accompanied by a reduction in total bed space.

Structural Limitations

Unalterable limitations of the structure itself can assume life-and-death proportions. Patients in special care facilities cannot be observed directly in the Main Unit, and the emergency room is located on the fourth floor.

Health care planners believe that replacement of the Main Unit is necessary to ensure the continuing benefits of first-rate medical services and education for the citizens of Michigan.

New U-M Zip Code is 48109

The University now has an exclusive postal ZIP code. The former ZIP codes of all U-M departments and housing units within the city of Ann Arbor are superseded by the new code, 48109.

Will Be 'Most Played' in North America

Carillon Will Add Sound of Tradition to North Campus

Plans are under way to construct a tower and a 53-bell carillon on the North Campus.

Ever since the establishment of the Charles Baird Carillon, housed in the Burton Memorial Tower, U-M has been an active leader in the art of carillon performance. It is the only university in North America that confers a degree in this art.

Baird Carillon Is Famous

"Because of the excellence of the Baird Carillon, all but a few performers in the United States have at one time or another studied at U-M," stated University Carillonneur Hudson Ladd.

"However, the need for highly trained, talented performers is growing rapidly. We must expand our facilities if we are to maintain the University's national leadership."



BAIRD CONSOLE—Hudson Ladd demonstrates U-M's well-known carillon.

Because of its central location, the Baird carillon cannot be used for practicing, although advanced students do perform there with

Ladd. Practicing is limited to a dummy instrument that does not allow the students to "feel their instrument" or to actually make music.

"It's as if concert artists could only practice on dummy pianos before they perform," Ladd explained.

Used for Practice

The proposed instrument, to be housed in a two-story structure about 30' high, will have smaller bells than the Baird Carillon, although it will be a true carillon of 53 bells permitting unlimited repertoire use.

It will be used for complete musical performances and will be equipped with shutters so that students can use it for practicing as well.

Funds are being sought for the carillon and the tower, which can be named after the donor(s).

The new facility, which will expand the University's program in carillon performance, will soon become the most played, most well-known carillon in North America, Ladd said.

Campus News Briefs

JUSTICE IN ANN ARBOR—U.S. Supreme Court Justice Thurgood Marshall recently served as one of five judges for the Law School's Henry M. Campbell Moot Court Competition, the culmination of the program in legal advocacy in which students engage in legal research, writing, and appellate argumentation. The competition, named for an 1878 law graduate, was initiated through a gift from his law firm, Dickinson, Wright, McKean & Cudlip of Detroit.

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OVER ONE-HALF OF STUDENTS RECEIVE SOME FORM OF FINANCIAL AID—Support received by 58 percent, or 19,054 of the students on the Ann Arbor campus who found some form of financial assistance necessary to continue their education, totaled \$46,892,602 in fiscal 1974-75. This figure includes \$23,286,265 in outright grants and scholarships to 40.6 percent of the students, \$6,653,798 in loans to 16.9 percent, and \$16,952,539 earned by 33.5 percent through various University employment opportunities.

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U-M LEADS IN SCIENCE AND ENGINEERING STAFF—More persons, 3,293, are employed as scientists and engineers at U-M than at any other U.S. institution of higher education according to figures compiled by the National Science Foundation. Of that total, 774 are women. The percentage for women (23.5 percent) is the fourth highest among all institutions, but the total number of women is the largest.

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NEED A GUIDE TO GUIDEBOOKS?—The U-M International Center has published a new edition of "Suit Your Spirit," a 170-page review of travel guidebooks on the market. Probably the first publication of its type, it reviews 89 popular guidebooks including those of particular interest to budget-minded travelers. It is available for \$3.95 from the U-M International Center, 603 East Madison St., Ann Arbor, MI 48109

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200 YEARS OF PROGRESS—The American family's real income today is 10 times what it was in 1776, and is earned in a work week whose hours have been cut in half, according to J. Philip Wernette, professor emeritus of business administration.

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THE MIDDLE IS GETTING BIGGER—Slightly more than 45 percent of U-M freshmen responding to a national survey indicated that they considered themselves to be politically "middle-of-the-road," while the number of students who described themselves as "liberal" has dropped since 1970. High-ranking goals included "developing a philosophy of life," "becoming an authority in my field," "helping others in difficulty," and "keeping up with political affairs." A majority of the freshmen indicated that they came to U-M because of its academic reputation, prefer to live in residence halls, and plan to earn more than a bachelor's degree.

WOMEN'S HOSPITAL WINS HONORS—The Women's Hospital Unit has been named one of America's top 10 hospitals for women by a blue-ribbon panel of health care experts commissioned by the Ladies Home Journal. Dr. J. Robert Wilson, chairman of obstetrics and gynecology, observed, "We are naturally proud of being ranked among the top 10 women's hospitals in the country, but it is much more important that we stay there."

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THE OLYMPIC CONNECTION—Lindsay McLean, U-M athletic trainer, has recently returned from the Winter Olympic Games where he served as one of four U.S. trainers. "If you're at The University of Michigan," he said, "you have opportunities that other people don't."

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MINORITY ENROLLMENT INCREASES—Minority enrollment of 3,260 students comprises 9.4 percent of the student body on the Ann Arbor campus, an increase of 290 students from Fall 1974.

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BASKETBALL COMES ON STRONG—Johnny Orr's "little skinny kids" clinched the number two spot in the nation by beating previously undefeated Rutgers in the NCAA finals, losing only to top-ranked Indiana as two Big 10 teams met for the NCAA championship for the first time in history.

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COLLEGE OF ENGINEERING SHOWS 'ACROSS-THE-BOARD' STRENGTH—In a recent national study ranking graduate engineering departments, U-M was sixth in the country behind the Massachusetts Institute of Technology, the University of California at Berkeley, Stanford University, the University of Illinois, and the California Institute of Technology. U-M and Berkeley were the only universities with departments appearing in the top 12 in all categories that were evaluated.

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MEDICAL SCHOOL IS ONE OF THE BEST—The U-M Medical School has been listed among the top 10 in the U.S. by *Medical Economics*, a national magazine which circulates to 176,000 physicians. It placed second in the number of schools producing board certified specialists; was among the top 10 in producing medical school faculty members; and among the top 11 in producing deans for other medical schools.



Frye Named LSA Dean

Billy E. Frye, acting dean of the College of Literature, Science, and the Arts since July 1974, has been officially named LSA dean. A biologist specializing in endocrinology, Frye joined the U-M faculty in 1961 and became an associate dean in 1973. He has received both the Outstanding Teaching Award and the Distinguished Service Award.



MICHIGAN DELEGATION TO PEOPLE'S REPUBLIC—University of Michigan Regents, executive officers, and faculty members recently returned from an 18-day educational tour of the People's Republic of China. Traveling at their own expense, members of the U-M delegation visited the cities of Peking, Hanking, Wusih, Shanghai, and Canton. The delegation is shown here with officials of the Ministry of Education in Peking, where the group received a briefing on educational programs and politics in the People's Republic. Included in the delegation were

Regents Robert Nederlander, James Waters, Sarah Goddard Power, and Deane Baker, Regent Emeritus Lawrence Lindemer, Michigan's first lady Sally Fleming, Meg Brown, wife of Regent Paul Brown, Alumni Association President Margaret Host, Vice President Emeritus Allan F. Smith, Vice President Michael Radock, U-M Dearborn Chancellor Lawrence Goodall, Professors Ronald Freedman, Harriet Mills, Whitmore Gray, and Peter Heller, and Wan Wei-ying, head of the U-M Asia Library.

Bicentennial Theme Keynotes May Festival

The traditional highlight of the spring music season, the May Festival, will be held in Hill Auditorium April 28 through May 1.

It is the 83rd festival to be held in Ann Arbor and coincides with Alumni Week and commencement on May 1.

The Philadelphia Orchestra under Eugene Ormandy will perform four concerts featuring American music and artists in honor of the bicentennial.

Guest artists will be Aaron Copeland, who will conduct his own compositions and those of other American composers; pianist Andre Watts; and soprano Marilyn Horne. The Festival Chorus of 100 singers will also appear.

Series tickets range from \$12 to \$38 for the four concerts. Information is available from the Musical Society office in Burton Tower.

Junior Faculty Members Bring Enthusiasm, Talent to University

Junior faculty members provide the infusion of talent that ensures a university's future greatness. At U-M, they are as diverse and as talented as the student body itself. The four junior faculty members interviewed here represent this diversity and dedication to excellence while sharing a concern for their students.

Martha N. Gizynski, assistant professor of social work and a clinical psychologist at the U-M Institute for Human Adjustment, graduated from Radcliffe, married, and concentrated on her family for 15 years before returning to graduate school.

She enrolled at U-M because she lived nearby. "I was naive when I came here," she said, "but I soon became keenly aware of the excellence of the department, of the School of Social Work, and of the clinic."

Her colleagues are "splendid without peer. To be able to work with that kind of person is one of the big payoffs," and one of the reasons she joined the faculty. Another is that "one of the great riches of this University is its female faculty. I greatly admire my male colleagues, but I think that we have some extraordinarily talented women around here."

She is doing research on the development of an empathy teaching module and on the impact of myocardial infarction on patients and their families.

Her teaching is limited to graduate students, whom she describes as "very highly motivated and extremely bright, stimulating, and demanding. I have spent 10 years here as a student and teacher and every year they get brighter. It is almost impossible to overestimate them. The days of the 'gentleman's C' are over. They don't wait for you to light their fires. They demand work and learning opportunities."

Besides contributing through teaching and research, she has found that many of her female students appreciate having a role model. "Career and family are no longer an 'either/or' proposition. They seem to value knowing that it can be done, and they fully intend to have both."



Gayl A. Jones, visiting lecturer in English language and literature, received her PhD from Brown University.

Her first novel, *Corregidora*, published about one year ago, was described by *New York Times* critic Christopher Lehmann-Haupt as "poetry that hurts you and makes you still want to listen." Previously, her stories and poems have been published in magazines and anthologies, and she has written three plays. She is presently at work on another novel.

She came to U-M as an applicant for further study in the Michigan Society of Fellows program but was offered an appointment teaching creative writing.

"I found that I liked Michigan right off," she said. "It's a change from the smaller schools I attended. I like the bigness and I feel a kind of independence here."

Students benefit from her approach to teaching because of her experience. "Some of the things we talk about bothered me a long time ago."

"I feel that a person should be able to not only write things but articulate what they are doing what the process is."

"I like the interchange I find with U-M students. I'm still close to being a student myself," she explained. "I find the students interesting as far as writers go. I'm liking their work. They seem to be talkers which is good."

She did little writing during her first term at U-M. "I was liking it enough so that I really didn't feel the need to be writing. But I do feel that you should be able to write and do something else so that it doesn't get in the way. It's up to you to get past that point."



John R. Pringle, assistant professor of cellular and molecular biology, received his PhD from Harvard and served as a research fellow at the University of Washington and at the Swiss Federal Institute of Technology.

His research focuses on the mechanisms and control systems determining how a cell decides whether to undertake the process of division.

Both a scientist and an athlete, he swam competitively throughout high school and college and was a top NCAA competitor who still finds pleasure and satisfaction in athletics.

"I have wondered if I might have done better if I had come to Michigan to take advantage of the athletic program," he said, "since I feel that the differences between undergraduate education here and at Harvard are negligible."

He joined the U-M faculty because of his respect for Michigan's strong academic traditions and because he "always thought that Ann Arbor would be a good place to live."

Because he teaches several basic courses for undergraduates, he has been struck by the heterogeneity of the student body and "the acute problem of the differentiation in the quality of their previous education."

"There are lots of very good students here, but some have a difficult time."

"Even the brightest students who may be from poor high schools are at a disadvantage when they come here. It is a problem that must be solved on the campus. During the first year people may need to learn how to study and to fill in the gaps in their background."

He is worried about the students who are defeated by the system before they can adjust. "It is a challenge to satisfy the students with good backgrounds without totally destroying those who are less well prepared."



James H. Hand, assistant professor of chemical engineering, received his PhD degree from the University of California at Berkeley. He decided that "Michigan would be an exciting place to be because it had a good reputation, good graduate students, and good faculty."

His research encompasses three broad areas: bio-materials which can be adapted to dental and medical uses such as attaching artificial limbs; applied thermodynamics in relation to crystalline formations in articular oil reservoirs and in ocean sediments off the continental shelf as potential sources of natural gas; and properties of polymer solutions.

He is concerned by the changing attitude that he often sees in students as they move through their years of undergraduate education.

"Freshmen are very open and inquiring. They are willing to question almost anything the professor says and will challenge you at any point. Seniors won't do that. They tend to regard you as 'the oracle of truth.'"

"Something we do, that is not unique to Michigan, wears them down. Students come in with their enthusiasm at a peak. By the time they become seniors, their attitude seems to be 'What do I have to do to get out?'"

One way to solve the problem of "turning on the people in the middle," he believes, is to provide undergraduates with more opportunities for research. "Their interest in engineering is revitalized when they tackle a real problem and know that there is a real reason for doing the experiment."

He is also concerned about the length of time that students devote to graduate study. "Graduate students should be problem solvers who phrase a problem, solve it, and get on to something else. If it takes 15 years to solve, it doesn't have any engineering relevance."

His preference for efficiency is indicated by his hobby—amateur Grand Prix road racing.



The Vital Margin

Volunteer Recruiters Boost Presidents Club Membership to New High; Green Hills Foundation Gift Aids Engineering Capital Campaign

Growth of The Presidents Club, the most successful fund-raising organization of its type in the country, continues at an unprecedented rate, signaling another banner year for the group.

From September, 1975, through mid-March, 1976, membership grew by 123 to a total of 1,668.

In the month of November alone, 35 new members were added to the roster. This is believed to be the largest monthly increase in the 15-year history of the Club, whose members each pledge a minimum of \$10,000 to the University.

Recently, a member whose financial commitment to the University was almost completed volunteered to renew his pledge, perhaps signaling a new trend.

Michael Radock, Vice President for University Relations and Development, describes the members as "some of Michigan's most devoted supporters."

"It is a source of continuing gratification to the University that alumni and friends alike are joining in increasing numbers."

He attributes much of the credit for this growth to the desire of present members to recruit new members for the Club, based on the tradition established by Regent-Emeritus Paul G. Goebel ('23) and Frederick J. Vogt ('25), both of Grand Rapids.

Recruiting efforts for the remainder of the fiscal year are scheduled for Ann Arbor and Traverse City, MI.; Indianapolis and Fort Wayne, Ind.; Hawaii; and Kansas City.

Engineering Campaign

Approximately \$290,000 has been made available to the U-M Engineering Capital Campaign through termination of the Green Hills Foundation of Ann Arbor, bringing total funds committed to the Campaign to nearly \$12 million by the end of January.

Foundation president Richard Earhart (BSME '26), a member of The Presidents Club and a Michigan Benefactor, commented, "With this gift the Green Hills Foundation hopes to boost the college's efforts to raise private funds to help meet its endowment, buildings, and equipment."

In acknowledging the gift, Engineering Dean David Ragone said, "Receipt of this gift is a meaningful step forward in our campaigning, and is the latest demonstration of the Earhart family's long tradition of interest in the University. Private support such as this is tangible proof of our College's past achievements, and will enable us to maintain our position among the leaders in engineering education and research."

Announced in April, 1974, the College of Engineering Capital Campaign seeks \$12 million for new buildings and equipment, and \$8 million for endowment.



MUSICAL BENEFIT—More than 3,200 people attended a benefit concert by Yehudi Menuhin (left) and U-M professor of music, pianist Gyorgy Sandor, with the University symphony orchestra, from which the School of Music and the Musical Society will each receive approximately \$9,000.