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# the university of michigan Today

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Michigan TODAY is the only Michigan publication received regularly by 166,000 alumni, friends and faculty of The University



**GROUND BREAKING** — Mrs. Wells Bennett (left) and Mrs. Philip Youtz (center), wives of two late deans of the College of Architecture and Design, and Mrs. David Osler, daughter of the late Emil Lorch who was the first dean of the College, put the first shovels to earth on the new site of the College on the North Campus.

## Fleming Urges Insistence on High Quality Academic Work

A great university must require of its students high quality academic work and considerably more than mere memorization of material, President R. W. Fleming told faculty members and staff in his most recent State of the University address.

Students are increasingly concerned that much of their work involves memorization and recapitulation and are wondering whether they are really learning to think.

"How do we put together pure information, which is essential if one is to understand the history and culture of our society, or to work meaningfully in a specialized area, and a capacity to apply that information thoughtfully in a current context?" the president asked.

An example of the failure to apply information thoughtfully in the current context, Fleming indicated, was observed in many of the activist students who have emerged from social science and humanities studies "devoid of the humanistic values which are alleged to reside in the liberal arts and humanities." In relating to confrontations, he said, "while purporting to have made a supreme commitment to truth, justice and genuine social reform, they displayed incredible intellectual arrogance, an extraordinary intolerance of any view other than their own, and a complete

willingness to adopt totalitarian methods in achieving their ends. Meanwhile, how could their fellow students remain so uncritical of them? Somehow, the crossover between academic knowledge and values, and the application of that knowledge and values, simply never took place.

"Why? If we knew the answer, I suggest that our educational system would be a better one."

The president also described pressures against the insistence of high quality academic work, pointing out as perhaps symptomatic the move toward grading systems which avoid comparing students with one another or avoid judging their work. "Insofar as that is the purpose of a pass-fail system," he said, "I am in complete disagreement with it. . . . But there are other valid arguments for pass-fail."

There exists, he continued, "a body of opinion which takes the view that the educational world would be improved if we never made any comparison between individuals.

"If the events of the last few years have proven anything," the president said, "surely it is that the campus cannot isolate itself from real life. It follows that an academic experience in which one can never fail is contrary to every other life experience which the student will have."

## Riverfront Site Is Approved for New UM-Flint Campus

The University of Michigan-Flint will move to a 38-acre site on the riverfront in downtown Flint if expected approval is received from the Legislature's House-Senate Capital Outlay Committee and certain agreements can be reached with the City

Council in Flint.

The U-M Regents' approval was influenced largely by the results of a feasibility study that supports the move.

Contingencies include approval of transfer of state funds already appropriated for building construction on the present Court Street site, agreement by the city of Flint to revise its Urban Renewal Program consistent with University plans, and city appropriation of \$1.2 million for the provision of land in 1973 and \$4.8 million between 1975 and 1982. The city has pledged \$6 million in support of the development of the riverfront area. An additional minimum of \$9.75 million in non-state money will be needed between now and 1976 to support the project. The Mott Building on the present campus will continue to be used and there is no present intention of disposing of the Court Street site.

The move is designed to accommodate more students on a larger campus with more accessibility.

## Affirmative Action Director Named

Nellie M. Varner, assistant professor of political science and former assistant to the dean of LSA, has been named director of Affirmative Action Programs for the University. She earned the Ph.D. degree in the U-M political science department and is a specialist in Soviet affairs and international relations. She has been a research fellow at the Center for International Affairs at Harvard.

Dr. Varner has the responsibility for carrying out the administration aims to achieve full and equal participation of women and minorities in all areas of University activities.

## Lindemer and Baker Elected to U-M Board of Regents

Successful candidates for seats on the Board of Regents of The University of Michigan during the November elections were incumbent Lawrence B. Lindemer and Deane Baker, both Republicans. Baker succeeds William B. Cudlip, who chose not to stand for re-election. They will begin their eight-year terms January 1.



Lawrence Lindemer



Deane Baker

Lawrence B. Lindemer of Stockbridge, a Lansing lawyer, is a present Regent appointed by Governor Milliken in 1969 to complete the term of the late Alvin M. Bentley. A 1943 graduate of the University and a former state legislator, Lindemer served two terms as Republican State Chairman. He was assistant to the "Second Hoover Commission" that studied government organization in 1953-54. The Lindemers have two sons.

Deane Baker is president of the Deane Baker Company, industrial developers located in Dearborn. He is a graduate of the University of Wisconsin and earned the M.B.A. degree from Harvard. Baker, a Grand Valley College trustee, is vice-chairman of the Washtenaw County Republican Committee. He and his wife are the parents of four children. The family resides in Ann Arbor.



## Holden Lab Encourages Perinatal Research

"The valley of the shadow of life"—the period just before and for approximately 28 days following birth—is getting specialized and concentrated attention by a coordinated staff using the latest equipment at The University of Michigan Medical Center. The unit is dedicated to saving the lives of critically ill infants and their mothers.

Established in the recently opened, three-story James and Lynelle Holden Perinatal Research Laboratories, located between and connected to the Women's Hospital and the C. S. Mott Children's Hospital, it links obstetrics and pediatrics during the time when life and death is most proximate. The \$1.5-million research center concentrates on the little-known processes that occur during the perinatal period. The unit places specialized staff and needed equipment within easy reach to treat mother and child in one body, separating them at birth and continuing treatment with no significant interruption.

## P & A Survey Is Completed

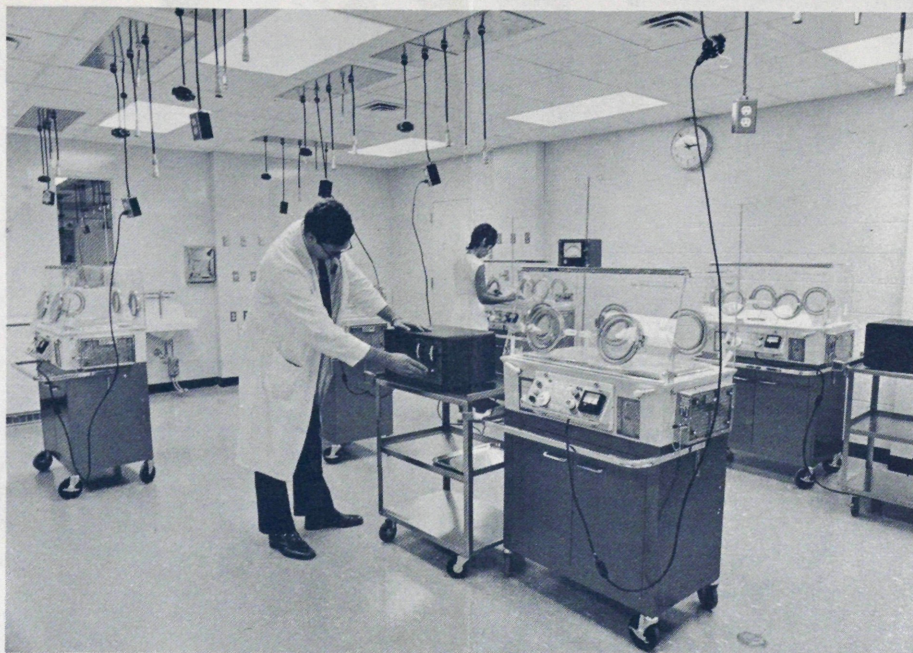
A management consulting firm has completed a comprehensive survey of classification and salary policies concerning professional and administrative positions at the University.

The study was conducted and recommendations made to develop and implement a uniform classification structure and salary program for all professional and administrative staff members as an integral part of the University's affirmative action plan.

## Musical Instrument Collection to Move to New Music Annex

The U-M's famed Stearns Collection of Musical Instruments, viewed by thousands since 1914 while on display in the second floor lobby of Hill Auditorium, is to be moved to a School of Music annex, to be named for Frederick Stearns. The new home is a former fraternity house on the North Campus owned and being renovated by the University to provide 29 offices for faculty now occupying practice rooms in the School of Music. The building will also accommodate medium-sized musical groups for rehearsals.

The collection, given to the University in 1898 by Frederick Stearns, represents the evolution of musical art in several areas of the world. A \$12,500 federal grant from the National Endowment for the Arts will provide for considerable work to be done on computerizing the Stearns Collection catalog.



**INTENSIVE CARE UNIT**—Dr. Robert Borer and nurse Barbara Pratt adjust incubators and monitoring equipment in the Holden Perinatal Research Laboratories.

## Awards for Distinguished Work Presented to Faculty Members

Fourteen U-M faculty members have been honored this fall for distinguished scholarship, teaching, and service.

Prof. John Arthos, well-known literary scholar has been awarded the title of Hereward T. Price University Professor of English, and Prof. H. Richard Crane, inventor of the "race track," a modified form of synchrotron (atom smasher), has been named the George P. Williams University Professor of Physics.

The highest honor the University can bestow on a senior faculty member, the Henry Russel Lectureship, went to George E. Mendenhall, professor of Near Eastern languages and literature. He will deliver the Russel lecture in March.

Senior faculty members receiving distinguished achievement awards, with \$1,000 stipends, were

Alfred S. Sussman, professor of botany and associate dean of Rackham School of Graduate Studies; Charles G. Child, III, professor and chairman of surgery; Robert F. Bartels, professor of mathematics and director of the Computing Center; Marilyn Mason, professor of music and chairman of the organ department; and Donald A. Kerr, professor and chairman of oral pathology, Dentistry.

Winners of this year's Distinguished Service Awards, with \$750 grants, were Harold C. Livesay, assistant professor of history; Gary W. Fowler, associate professor of biometrics, Natural Resources; Karl R. Herwig, assistant professor of surgery; Myron D. Curtis, associate professor of chemistry; James A. Vann, III, assistant professor of history; and Michael W. Berns, assistant professor of zoology.



**500TH ANNIVERSARY**—The University is celebrating the birth of Mikolaj Kopernik (Copernicus) with the main event to be an international and interdisciplinary symposium on "The Relationship Between Science and Society" to be held April 3-5, 1973. The honoring began with a "Salute to Kopernik" by the Michigan Marching Band playing Polish music with the Wawel Dancers of Detroit entertaining between halves of the Michigan-Michigan State football game.

## Research Volume Rises \$4.3 Million

Research expenditures during 1971-72 were in excess of \$65.5 million, an increase of \$4.3 million, or 7 per cent, over the previous year. Research expenditures, excluding fellowship programs and training programs, had been near the \$62 million for each of the preceding four years. This is the first time since 1966 that there had been as much as \$4 million increase in any one year.

The U. S. Department of Health, Education and Welfare continues to be the U-M's largest research sponsor, underwriting \$19.2 million in 1971-72 projects. The upward trend resulted from some changes in the mix of sponsors and fields of research.

## New Live Vaccine Combats the Flu

A promising new live vaccine to combat virus influenza has been developed through a long-term cooperative effort in the laboratories of the U-M's School of Public Health and the Michigan Department of Public Health. The experimental vaccine contains weakened live influenza virus that has the capacity to grow in the lining of the human nose and throat without producing a characteristic influenza infection. The experimental vaccine has many advantages over the killed variety, including the fact that protection is increased at the site where influenza gains initial access to the body, that large volumes can be quickly produced at a relatively low cost, and that it can be sprayed into the nose rather than injected.

## Not 76 Trombones—But 15 Euphoniums!

When you see the Michigan Band in person or on television you are not only observing one of the finest marching musical units in the nation but a superbly managed organization.

Performance is the product of perfectionist conductor Professor George R. Cavender but management and logistics are handled entirely by students under his direction. You are observing well-drilled and disciplined musicians. But few fans realize that you are also looking at over \$100,000 worth of uniforms and equipment, handled, cared for, and accounted for by students in a highly professional manner.

These students are responsible for 40 clarinets, 24 saxophones, 12 alto horns, 50 cornets, 15 euphoniums, 24 trombones, 16 sousaphones, and 24 drums. Robert Preston should have had so many.

Add to this 50,000 sheets of music (approximately 5,000 per game), travel, eating, sleeping, and you realize that the band members do more than practice and play spine-tingling music.



# Michigan's Landmark of Sight and Sound

Bells have been of interest to Regents of The University of Michigan since 1845.

The first reference to a bell for the Ann Arbor campus appears in Board minutes of that year with a notation that a bell owned by the Central Railroad was too small and that the Board "deemed the purchase thereof inexpedient." A bell was obtained in 1865 for \$526.09 but, as during the previous 20 years, it created controversy. There was disagreement over the size of the bell, and some upper-classmen objected to being awakened by the same bell that aroused the freshmen.

Chimes (five bells) were installed in the tower of the old library building in 1883 where they were used until they were transferred to the tower of the engineering building where they still remain. The old library building was demolished to provide space for the present graduate library.

From that early beginning evolved, through the efforts of thoughtful administrators and loyal citizens, the Charles Baird Carillon in the Burton Memorial Tower.

## An Idea Is Born

President Marion LeRoy Burton in a 1921 commencement address suggested that a campanile, tall enough to be seen for miles, be built at the approximate center of an enlarged campus as evidence of the idealism and loyalty of the alumni.

In 1935 Charles M. Baird, a former U-M athletic director, offered to give to the University a carillon and clock to be installed in a tower dedicated to the memory of President Burton. Baird desired to give the University a symbol in sound of its academic, artistic, and community life which alumni would cherish in their memories of The University of Michigan. The University of Michigan Club of Ann Arbor undertook the task of raising the funds for the campanile, assisted by the Regents and the Alumni Association. Private contributions ranged from two dollars to \$5,000, and there were gifts in kind of cement, gravel, and hardware donated by local merchants and builders.

The tower was to be practical as well as aesthetic and its classrooms were to be used by the School of Music. It was to be built between the existing Hill Auditorium and a proposed School of Music building. A site on the North Campus was later chosen for the School of Music.

The carillon was manufactured by the John Taylor and Sons, Bellfoundry in Loughborough, England, which has cast many of the outstanding carillons of this century. The carillon was installed in the nearly completed tower and was dedicated on December 4, 1936.

(The School of Music has a very interesting motion picture of

the construction of Burton Tower and the casting of the bells in England.)

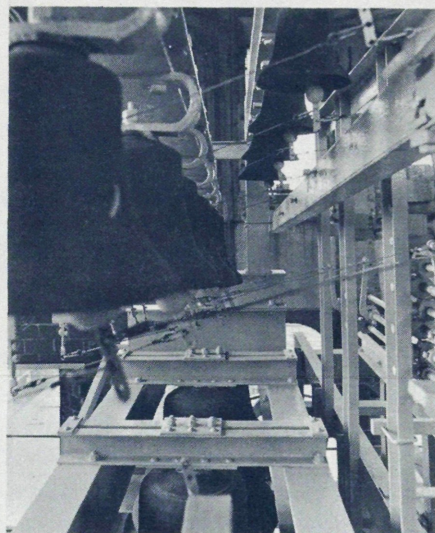
## One-hundred Tons of Sound

The Charles Baird Carillon, containing 53 chromatically tuned bronze bells, is the third heaviest carillon in the world. The largest bell, technically called the Bourdon bell, weighs 12 tons and is affectionately known as "Big Baird." Its pitch is E-flat below middle C.

Cast on the "Big Baird" is the following inscription:

THE CHARLES BAIRD CARILLON  
PRESENTED IN 1935 TO  
THE UNIVERSITY OF MICHIGAN  
BY CHARLES BAIRD, A.B., LL.B.  
OF THE CLASS OF 1895

The bells are suspended on a steel frame in the bellchamber 120 feet above the campus. The total weight of the bells is approximately 63 tons and the entire instrument weighs just under 100 tons.



**TWELVE BELLS**—Only a dozen of the 53 bells of the Baird Carillon can be seen in this photo atop Burton Tower.

Suspended inside the bells are clappers of graduating weights proportionately related to the weight of each bell. The clappers move on the average of only one inch to strike the inner side of the bells and are connected to the console by straight stainless steel wires. The only mechanical assistance involved are the counterweights which balance the heavier clappers. The clapper in the "Big Baird" weighs close to 350 pounds

and has a counterweight of about 150 pounds.

The console from which the carillon is played is located in a sound-proofed room on the floor of the bell-chamber. As the carillonner completes the depression of the key, the bell sounds in accord with the amount of energy exerted, which allows dynamic control. There is no way of stopping the sound of the bell and, therefore, the carillonner must avoid overpowering the small bells with the large ones.

## The Art of the Carillon

Carillon performance is an art which requires special musical training and virtuosity as well as considerable physical stamina. The instrument is related to the piano in that the touch (dynamic control) is much the same, while it is related to the organ only in that a pedalboard is involved. The technique required is vastly different than that needed to perform on other keyboard instruments in that the baton keys are struck with a clenched fist or an open hand.

A practice console is located on the eighth floor of the tower and, although identical to the carillon console in the playing hut, it is connected to tuned metal bars instead of bells.

## The University Carillonner

The University Carillonner is 28-year-old Hudson Ladd, who received the diploma with honors from the Netherlands Carillon School in Amersfoort, Holland. Ladd succeeded Professor Percival Price, who cited Ladd as "one of the technically most accomplished and most musically gifted carillonners in the world today." Price, who established at the U-M the first instruction in carillon at the university level, retired last year after serving as University Carillonner since 1939.

Ladd is the first American to be invited to compete for the world's highest award for carillon performance—the "Prix d'Excellence"—and is now in Holland for the competition.

The University of Michigan



**HUDSON LADD**—The University Carillonner at the console in a booth among the bells.

carillon is one of three "sister" instruments of equal size, the others being in the National Cathedral in Washington, D.C., and the Bok Singing Tower in Lake Wales, Florida. Ladd states that several fine carillons have been and are being built in this country but there are not enough carillonners to play them. Carillon lessons are offered through the School of Music and many of North America's finest carillonners have studied on the U-M instrument under Percival Price, University Carillonner Emeritus.

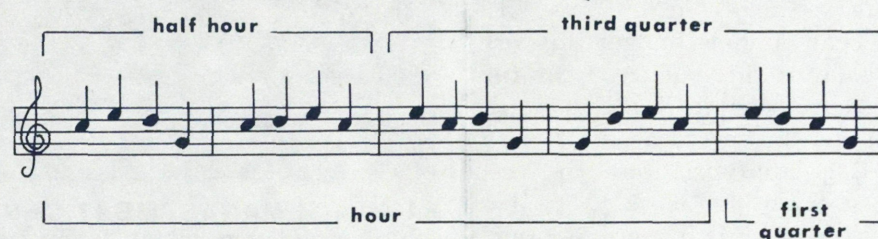
## Music for the Carillon

Several excellent modern composers are now writing for the carillon in contrast to the early days when the performer had to do his own arranging. Early original carillon compositions from the 18th century have been saved and are being published today. At the beginning of the 16th century the carillon was a rough prototype of those of today but as early as 1477 the bells in a tower in Dunkirk, France, were played for a local festival. It was not until 50 years ago that carillons came to North America when they were installed in Toronto, Canada, and Gloucester, Mass. The University of Michigan had bells before that and a notable carillon shortly after.

Ladd is working toward making the carillon more relevant to both the University and the community. He has scheduled concerts on a regular basis during the noon hour and between 5:00 and 6:00 p.m., and a special series of concerts during summer evenings.

Impetus that was given by a suggestion in a commencement address was implemented by a former athletic director and many devoted alumni to honor a respected president with a living memorial. The result is a landmark of both sight and sound—The Charles Baird Carillon in the Burton Memorial Tower.

## The Westminster Quarters



The Westminster Quarters have sounded across the campus every 15 minutes from the Burton Memorial Tower since the Baird Carillon was installed in 1936. In 1794 when Cambridge University installed a clock in St. Mary's Church in Cambridge, England, an 18-year-old music student, William Crotch, suggested that the automatic timing mechanism be made to ring variations on the principal motive of "I Know That My Redeemer Liveth" from Handel's *Messiah*. Later they were reproduced on the bells of the newly installed clock in St. Stephen Tower at the Houses of Parliament and then throughout the world.



**the Vital Margin**

# Michigan-Ohio State Rivalry Extends to Alumni Giving

by Michael Radock

Vice-President for University Relations and Development

Competition between Michigan and Ohio State is not limited to the gridiron.

Loyal alumni of both institutions try to outdo their counterparts in participation and in dollars raised for their university.

	Donors	Dollars
	1967-1969	
Michigan	30,625	\$2,440,291
Ohio State	29,458	\$1,725,241
	1969-1970	
Michigan	28,803	\$2,292,367
Ohio State	27,939	\$2,072,916
	1970-1971	
Michigan	30,652	\$2,820,155
Ohio State	34,231	\$1,286,036

Source: CFAE reports for the last three years.

Figures appearing in the most recent reports (1970-71), published by the Council for Financial Aid to Education and by Brakeley, John Price Inc. reflect the public's growing awareness of the importance of all higher education in America, and a very significant increase in the amount of private support given to public colleges and universities. Giving to public institutions was up 17.6 per cent, whereas the increase to private universities increased only 1.9 per cent.

Michigan perennially ranks high among all universities in the nation, both private and public, as shown in the following CFAE list of universities by total volume of voluntary support in 1970-71.

Harvard	\$60,893,216
Yale	45,405,884
California (System)	40,617,520
M.I.T.	39,627,105
Columbia	35,578,336
Stanford	29,223,850
Texas (System)	28,267,995
Chicago	28,181,377
Cornell	25,627,416
Michigan	21,798,955
Princeton	21,763,139
New York	21,743,403
Pennsylvania	20,774,960

Michigan not only is third among all public universities in total voluntary support, it led all public universities in corporate support and alumni gifts to its Annual Fund. It also was second in foundation support.

In the category of Alumni Solicitation response, however, Michigan rank poorly.

	Alumni Total	% Solicited	% Response
Texas A&M	50,000	48,564	57.6
W. Virginia	70,000	8,000	51.7
Georgia Tech.	37,721	36,821	45.1
Mississippi St.	34,000	31,500	35.6
N. Carolina-Greensboro	34,875	24,600	32.5
Miami (Ohio)	44,000	36,000	30.3
Vir. Polytech	35,000	34,500	25.2
So. Dak. St.	18,000	18,000	25.0
Delaware	22,490	22,047	23.8
Ohio State	154,915	147,384	23.2
Michigan*	253,260	167,277	18.3

\*Not next in ranking.

While alumni contributions have given Michigan an enviable record in private money received, the relatively small percentage of participants limits the spiraling opportunities of the University's greatness.



**PRESIDENTS CLUB LEADER**—Alex Miller (left), Chairman, Columbia Iron & Metal Co., Cleveland, succeeded Raymond T. Perring, Chairman, Detroit Bank and Trust, as Chairman of the Executive Committee at the annual meeting of the Presidents Club. The most successful organization of its kind in existence, the U-M Presidents Club, of 1,203 members, has raised over \$30 million in private money for the University.

## Diagonalis et Circumferentia

□ The Alumnae Council has established the Alumnae Athena Award to be presented to an alumna of The University of Michigan for excellence in her field of endeavor and her humanitarian qualities. The recipient must be a degree-holder or have been a U-M student for two years. Presentation of the first of what will be an annual award will be made at the Alumnae Luncheon on May 4, 1973.

□ President R. W. Fleming is the feature of "Symposium '72," a live program broadcast by U-M radio stations in Ann Arbor and Grand Rapids. Each Tuesday evening following the monthly meeting of the Board of Regents, the president fields questions from a panel as well as those phoned in by listeners.

□ The Center for Continuing Education of Women has created CEW Merit Scholarships for women whose education was interrupted. Twenty scholarship awards, ranging from \$300 to \$2,000, will be granted to women who are starting or continuing

any degree program at any U-M campus beginning 1973-74.

□ A new degree, Bachelor of Musical Arts will be offered by the School of Music effective with the fall term 1973. The B.Mus.A. will be offered for completion of a program comprising approximately one-half of the work in the School of Music and one-half of the work outside of music, for the most part in the LSA.

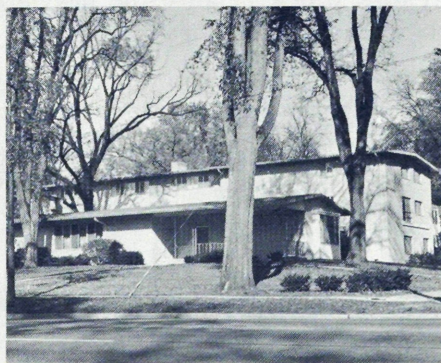
□ A goat, called Bugjuice, and a peace-signalling scarecrow stood guard over the Community Organic Farm on the North Campus during the season just closed. Over 400 persons took part in the program, a project of the Ecology Center and the Institute for Environmental Quality. There were ten special plots for chemical vs. organic fertilizer experiments, in addition to areas for a wide variety of vegetables, herbs, and flowers. For animal friends Bugjuice had chickens and rabbits in pens. A geodesic dome covers a breeding pond for algae-eating tropical fish.

## In A Few Words . . .

Only one per cent of the 752 persons who received doctoral degrees in 1972 from the Rackham School of Graduate Studies are involuntarily unemployed. . . . Present students are just as adept at nicknaming buildings as their predecessors; for instance, the undergraduate library is called the "UGLI," and the glassfront addition to the rear of Angell Hall is the "Fishbowl," . . . Enrollment of women in the College of Engineering reached 120 with last year's freshman class. . . . Thirty years before legislatures took an interest in the aged, The University of Michigan established the Institute for Human Adjustment which included work on aging as part of its program. . . . Programs produced for public viewing by the University's Television Center played 8,489 times over 69 stations not including runs on ed-

ucational TV networks and foreign stations. . . . U-M's entry in the international Urban Vehicle Design Competition received one of five styling awards and one of three high scores for safety in recent tests. . . . All University units are expected to "save" 1.3 per cent of their budget this year to balance the budget, with further cuts possible if the governor exercises his prerogative of withholding appropriations to keep the state in the black. . . . The "Voice of Michigan Stadium" Steve Filipiak, who has announced since shortly after his graduation in 1939, has given it up in order to be able to watch the game. . . . The first national meeting of a new group of medical specialists, the Child Neurology Society, was recently held at the Towsley Center for Continuing Medical Education.

## School of Business Administration Additions



**KALMBACH MANAGEMENT CENTER**—A gift from Leland J. and his son Dohn Kalmbach provided headquarters for management training programs. The converted Alpha Chi Omega sorority house, is located on Washtenaw Avenue.



**CLAYTON G. HALE AUDITORIUM**—A 500-seat hall and facilities for conferences and teaching make up this two-story structure named for major donor Clayton G. Hale. It is separate from but connected to the main Business Administration building.

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