

More budget crunch; raises are 4 percent

Faculty and staff salary increases averaging 4 percent for 1972-73 have been "provisionally approved" by the Board of Trustees in a special finance meeting last week (July 8).

The wage increases, part of the new compensation package, are subject to final approval when the total budget is presented at the regular (July 28) Board meeting.

President Wharton stressed that besides the cash salary increases, there will be "substantial improvements" in fringe benefits, such as long-term disability insurance, improved hospitalization, fringe benefits for part-time employees and a unified vested retirement program for all employees (News-Bulletin, June 29).

In addition, he said, special provision will be made for a large number of individual pay adjustments to eliminate salary inequities for women faculty, and for anticipated adjustments among administrative-professional employee following completion of a salary study for that group.

Wharton said that the salary recommendation was made after an extensive, and often painful, review of the University's overall financial situation. He noted that the Legislature appropriated funds only for a 3.6 percent salary increase.

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"WE HAD HOPED to recommend a higher amount," he said. "However, after taking into account the disappointing level of our state appropriation, fixed-cost increases due to inflation and the effects of a \$1.3 million cut MSU took last year to help balance the state budget, the 4 percent raise was the most generous we could recommend and still be fiscally responsible.

"Even with the previously announced student fee increase, our proposed budget will have a projected deficit of more than \$600,000 which will have to be met through new reductions in the academic and nonacademic areas."

Wharton said the University has undergone serious internal retrenchment during the past three years in order to provide the highest possible compensation for faculty and staff.

"Any flexibility has long since vanished," he said, "and further economies gravely threaten the quality of our academic programs. This year, we must make certain absolutely essential allocations to meet our academic and service obligations, and we can no longer postpone vital repairs, alterations and maintenance to our physical plant.

"When one looks at the level of salary increases given at MSU in recent years, especially when compared to other Big 10 universities, our faculty and staff have done exceedingly well.

Wharton added: "I want to assure (faculty and staff) that we will continue to place the highest priority on fair and equitable treatment, consistent with the resources which we have available."

He said that details regarding allocation and distribution of the increases will be announced later.

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THE FACULTY AFFAIRS and faculty compensation committee (FAFCC) has registered opposition to the planned 4 percent salary increase.

The FAFCC was notified July 6 of the proposed increase and the plan for distribution.

"The committee finds the amount of the increase and plan for distribution completely unacceptable," said Frederick Williams, FAFCC chairman and professor of history.

The FAFCC has proposed a salary hike of 7 percent based on the 1971-72 faculty salary budget, and a system of distributing the increase to cover merit, "maintenance of competitive positions" and elimination of salary inequities. (News-Bulletin, May 11).

Williams said that the administration failed to give the FAFCC data or rationale on why the committee's recommendations were unattainable.

According to Williams, the plan as now approved will widen the gap between relatively less well-paid colleges and higher paid colleges.

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Practice makes perfect for students participating in the Cecchetti Ballet Conference and Seminar now underway on the campus. Students said instructors Fredbjorn Bjornsson, premier dancer, and Kirsten Ralov, Royal Danis Ballet master, will present a free evening of ballet at 7:30 p.m., July 19 in Fairchild Theatre.

—Photo by Bob Brown

Trying to figure 'productivity'

While there has been concern over the level of the 1972-73 state appropriation to MSU, the recently passed higher education appropriations bill also contains increased reporting requirements for state colleges and universities.

Section 4, of the bill stipulates that each institution submit to the legislature before Feb. 9, 1973, information by department, college, school or program for the preceding, current and ensuing fiscal years.

MSU officials express concern that such data may be interpreted in a

detrimental manner. They argue that there are no ground rules for faculty productivity goals.

Last fall, state colleges and universities were requested to supply information to assist the legislature in determining the productivity level of each institution. MSU submitted information on classload of faculty, student credit hours generated and salaries applied to instruction.

University officials became concerned over the way the information was interpreted. The interpretation did not appear to allow for faculty who

produced above the standards of the legislature but basically focused on those who were producing below the standards. On the average, MSU faculty are well within the standards. But, by focusing on faculty below the standards, the legislature cited MSU as one of the lowest in faculty productivity in the state.

MSU officials fear that similar interpretations will be made during 1972-73. They argue there still exist no ground rules in the reporting procedure and that the legislature appears to be

(Continued on page 6, col. 4)

C-T plan suspended

The suspension of merit salary adjustments for clerical-technical employees announced June 30 is a result of the University's shrinking budget and the decreasing turnover rate among C-T staff.

C. Keith Groty, assistant vice president for personnel and employee relations, pointed out that the merit step raises — which C-Ts had received in addition to annual cost-of living increases — were financed by separate sources of funds.

And he noted that in 1971-72, C-Ts were the only employee group with a program to receive adjustments above the 7 percent annual raise. A similar merit program for administrative-professional employees was eliminated a year ago.

"When there has been a high rate of turnover among C-Ts," he said, "salary savings have to a large extent been used to pay the merit increases. But turnover has declined in recent years, and merit adjustments have had to be paid from operating funds in the various departments and units."

With MSU's recurring budget crisis, operating funds have been cut to the limit, he noted.

Groty emphasized that suspending the merit program will not create any additional salary funds for other employee groups. It simply means that in 1972-73, for the first time, all employees, including faculty, A-Ps and C-Ts will receive a single increase effective July 1.

The C-T MERIT plan had provided step raises every six months for persons in grades I through V, and annually Jan. 1 for those in grades VI through XII.

This year, C-Ts and other groups are scheduled to receive 4 percent salary increases as recommended by the administration and provisionally approved last week by the Board of

(Continued on page 6, col. 2)

Achievements

JOEL ARONOFF, associate professor of psychology, will be visiting associate professor in psychology at the Hebrew University, Jerusalem, Israel, for 1972-73.

DONALD K. ANDERSON, professor of chemical engineering, chaired the sessions on chemical engineering at the recent 80th annual conference of the American Society for Engineering Education at Texas Tech University in Lubbock.

The feasibility of establishing an international Darwin Center at Cambridge University in England is being studied by PAUL H. BARRETT, professor of natural science. He has a combined grant from the National Science Foundation and Arts Fund, Inc., for the study.

GEORG A. BORGSTROM, professor of food science and geography, has been named special adviser to Mexico's Foundation for Population Studies, which conducts a family planning program of education, research and clinical services.

MARGARET BUBOLZ, chairman of family and child sciences, has been chosen to represent MSU on the Community Coordinated Child Council in Michigan.

WILLIAM K. DURR, professor of elementary and special education, is the new president of the 55,000 - member International Reading Association.

Recently appointed chairman of the advisory committee for the National Longitudinal Study of the High School Class of 1972 is ROBERT EBEL, professor of counseling, personnel services and educational psychology.

RICHARD D. ESTELL, general manager of WKAR - AM and FM has been elected board chairman of the National Public Radio Board, the noncommercial network that includes 132 stations throughout the U.S. and Puerto Rico.

Two faculty members and their spouses are among 177 Danforth Associates named by the Danforth Foundation. JAMES MCCLINTOCK, associate professor in Lyman Briggs College, and ROBERT L. FIORE, associate professor of romance languages, were chosen with their wives because of "their keen interest in student - faculty or student administration relationships."

J.S. FRAME, professor of mathematics and in engineering research, was invited to consult with the Institute for Quantum Chemistry at the Free University of Berlin. He also lectured in mathematics at the Universities of Erlangen and Ulm.

LORRAINE T. FURTADO, instructor in business and distributive education, has won the G. Henry and Gladys V. Richert 1972 Professional Development Award. It recognized those engaged in projects for which there is "national need and potential benefit" to distributive education.

A Ph.D. candidate in entomology, STUART GAGE, has received the Dreisbach Memorial Award for

"outstanding accomplishments in the area of general entomology."

LAWRENCE J. GIACOLETTO, professor of electrical engineering and systems science, has been named to the trustees of the National Electronic Conference Corporation.

Fulbright Educational Exchange Grants have been awarded to BARRY E. GROSS, associate professor of English, and ROBERT A. SOLO, professor of economics and management. Gross will lecture at the University of Coimbra, Portugal, and Solo will lecture and do research at the University of Grenoble, France.

PETER G. HAINES, professor of secondary education and curriculum, has received the Past - President's Recognition Award from the Michigan Business Education Association.

The Pontiac Area Urban League has honored JAMES P. HOWARD, professor and chairman of community medicine, for "creative and pioneering efforts in the delivery of community health care." He is also executive director of Pontiac's Lakeside Comprehensive Health Center, operated by the College of Osteopathic Medicine.

EUGENE E. JENNINGS, professor of management, has won the Outstanding Achievement Award from the Alumni Association of Augustana College, Rock Island, Ill.

MARGARET Z. JONES, assistant professor of pathology, is president - elect of the Michigan chapter of the Society for Neuroscience.

ERLING JORGENSEN, director of instructional television services, has been elected president of the Telecommunications Division of the Association of Educational Communications and Technology.

WILLIAM W. JOYCE, professor of elementary and special education, is editor of the Elementary Education Supplement to "Social Education," journal of the National Council for the Social Studies.

DAVID KLEIN, professor of social science and human development, has been awarded a Fulbright Scholarship to teach medical sociology this academic year at the University of New South Wales in Sidney, Australia. He will also study highway crash research under a grant from the New Zealand Medical Research Council.

ERNEST H. KIDDER, professor of agricultural engineering, won the Hancock Brick and Tile Company's Soil and Water Engineering Award at the recent annual meeting of the American Society of Agricultural Engineers. He was cited for "noteworthy contributions to the advancement of drainage engineering."

DANNY LITWHILER, head baseball

coach, spent two weeks in the Netherlands - to reevaluate a baseball program he initiated there in 1958 - at the invitation of the Dutch government and the U.S. State Department.

ARTHUR F. LOUB, managing director of the MSU Development Fund, is chairman of the Big Ten Fund Raisers Conference. It is concerned with reviewing and improving fund - raising capacities of Big Ten schools.

CHARLES V. MANGE, professor of elementary and special education, has received a distinguished achievement award from the Michigan Council for Exceptional Children for developing the state's mandatory special education law.

FRANK B. MARTIN, director of data processing, has been elected president of the College and University Machine Records Conference.

ROBERT L. MICHEL, associate professor of pathology, won the Norden Teacher Award, presented by students in the College of Veterinary Medicine.

JOSEPH MEITES, professor of physiology, has been made the first president of the International Society of Neurodoctrinology. He was selected at the group's charter meeting in Washington, D.C.

OSCAR L. TOSI, professor of audiology and speech sciences, has been cited by the Outstanding Educators of America and will be listed in the group's reference manual.

'Humanizing education' goal of new education dean

"We have to view education as a means of facilitating human purposes. Knowledge is an instrument toward human ends rather than an end in itself."

This is the view of Michigan State's new dean of the college of Education—Keith Goldhammer.

Perceptive and realistic, Goldhammer is acutely aware of the problems facing education today and his long experience in the field as a teacher, superintendent, professor, and dean, now shows through as he fills one of MSU's key administrative positions.

One of the new dean's primary concerns is with humanizing education.

He explains that the concept of the ivory tower where knowledge is pursued for its own sake may have been viable in medieval times but it is not today where our human needs have really out run the ability of our technical-professional competence.

The function of education, Goldhammer feels, is to help individuals use that knowledge to make the most of their own capabilities to become participating, contributing human beings who can effectively deal with all the problems of human beings.



Keith Goldhammer: New education dean.

Goldhammer, dean of the School of Education at the University of Oregon since 1967, says that people need to think of the university not only just in terms of granting degrees of qualifying individuals for licenses or credentials but in terms of how its resources are used to provide for the educational needs of all the people within the community, state or nation.

"We have been wrong in identifying education with just schooling," he says. "As individuals mature they face various kinds of problems."

"Some individuals find, for instance, that their skills and performance of certain roles become obsolete and that they need to be retrained. They need to be recycled so that they can continue to contribute and participate..."

"We have to have educational programs then that any individual, at any time of his life, can use in order to maintain his viability as a human being."

* * *

ASKED ABOUT EXTENDING the concept of the open university at MSU, Goldhammer replied that individuals may "know" but still not be educated.

"The process of education," he points out, "involves interaction with others, the ability to apply what one has learned and the necessity of having one's ideas tested in the marketplace of his peers so that he finds out where the weaknesses in his perceptions are. Education has for too long been associated with knowledge and not with wisdom."

He adds: "If the open university merely means that individuals go off in their own isolated ways and do lessons, that doesn't constitute education at all in my philosophy."

"If it involves extending the specialized, technical, educational, pedagogical resources of the university throughout the whole community, throughout the whole state, then I am all for it."

* * *

GOLDHAMMER SAYS HE does not have any immediate plans for changes in the College of Education, but he does foresee mobilizing resources to more adequately meet the needs in a few particular problem areas.

"I think," he notes, "that one of the most serious problems confronting us in the U.S. today is our inability to deal adequately with the problems of cultural pluralism."

"The concept of the melting pot is no longer viable. We have to develop perspectives, skills so that we can build a stronger nation and stronger communities, recognizing that culture differences are going to be with us and are probably a source of our strength rather than our weaknesses."

"In our school systems we are still terribly inept in dealing with the problems of cultural pluralism among children."

Goldhammer sees himself primarily as a coordinator and facilitator in his role as dean. He says that he would like to assign the necessary routine operations so that he has free time to work with the staff on program development and he intends to spend time working with various committees and advisory groups.

Students are very important to Goldhammer. He emphasizes that "an administration that loses contact with either the faculty or the student body of an institution is very likely to branch out into irrelevant fields."

— BARBARA McINTOSH

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Around the campus: A weekly review

Committee makes recommendations

The ad hoc committee studying University policies relating to the Indochina war effort submitted 23 recommendations to President Wharton last Friday (July 7).

The recommendations cover ROTC, the Department of Public Safety, investment and purchasing policies, the Placement Bureau, research and overseas programs.

Under ROTC, the committee recommended that the University seek modified contracts with both programs to permit appointment of civilians to faculty positions and called for broadened procedures for selection of faculty members.

The committee also seeks elimination of a course "Marksmanship and Hunter Safety" from the catalog.

Recommendations under the Department of Public Safety include securing legislation permitting officers of the department to draw their legal designation as peace officers from the Board of Trustees rather than from the county sheriff.

Other recommendations include:

*MSU should continue to base its investments on probable yield as one means of retarding pressure for increased student fees.

*MSU should devote greater effort to publication of the cost - benefit criteria which are applied to purchasing decisions at the University.

*When feasible within cost - benefit guidelines, MSU should actively solicit bids from nonwar contractors.

*The Placement Bureau should develop and publicize a service to help conscientious objects find alternate service to military service.

The committee also recommended that the University make available in the MSU Library lists of all sponsored research, and education and overseas projects and programs.

The ad hoc committee was established by the Board of Trustees in May in response to antiwar demonstrators.

The recommendations will be referred to the appropriate University committees and offices for consideration. President Wharton will determine which recommendations are appropriate for administrative implementation; which require Board approval; and which recommendations are impossible to implement.

Sports publications win awards

MSU's Sports Information Office won four national publications awards at the annual workshop of the College Sports Information Directors of America (COSIDA) in New Orleans.

Sports Information Director Fred Stabley received honors for the best football game programs of 1971 in the top circulation category, the best baseball brochure, the best special project publication, and the best football brochure for the NCAA District Four. All awards were in the university division.

The special project was the book "Spartan Saga," a MSU sports history which Stabley coauthored with the late Lyman L. Frimodig. The football program and the baseball brochure awards both were the third top citations in four years for these publications.

Stabley's associates in the projects were Nick Vista, associate director of sports information, and Jim Totten, managing editor of sports publications. Art director of the Spartan football programs, called Spartan Stadium Sideline, was Barbara Brown.

Stabley and Vista also have been named to coordinate and distribute the list of the annual football academic all - America selections made by COSIDA. The selection process begins in September and concludes at the end of the season when the names are released nationally.

Alumni magazine is cited

"MSU," the Alumni Association magazine, has won a regional award in the 1972 Newsweek/American Alumni Council national competition.

The 36 - page magazine, which is published five times a year, has been edited by Ronald F. Karle since September, 1970.

Allen Charles, vice president for public affairs for Newsweek, said, "This year's winners demonstrated excellence in reporting on the present concerns of our American colleges and universities, but perhaps more important they set forth, with clarity and insight, the problems most likely to plague us as the issues for the '70s and beyond."

General education report completed

General education in the 1970s must be oriented to problem solving and must stress interrelationships between areas of knowledge.

This view highlights findings of a committee report written by faculty members of the University College, following a study over the past year of the nature of general education. (The 44-page report was released June 30.)

Thomas H. Greer, professor of humanities, and chairman of the Great Issues course, is editor of the report. He chaired the seven - man committee which conducted the study at the request of Edward A. Carlin, dean of University College.

Coauthors are James W. Atkinson, assistant professor of natural science; Floyd V. Monaghan, professor of natural science; Theodore R. Kennedy, professor of American Thought and Language; Ronald R. Nelson, assistant professor of humanities; and Cyrus S. Stewart and Barry N. Stein, assistant professors of social science.

The report anticipates increased numbers of students, who are academically qualified, and advocates participation of students as customers in the planning of courses, noting that students say they want larger or equal voice in

nonadministrative areas such as curriculum, grading procedures, and faculty evaluation and dismissals.

Acknowledging students' negative views on grading, the committee subscribes to a "kind of measure in society" which results in "fair and clear" grading which is so perceived by the students.

The report calls for general education faculty broadly trained beyond the "comfort" of a single field, and equipped to deal with interdisciplinary problems, just as environmental studies lead the problem solver to biology, physics, social science, economics and other fields.

Researchers transplant crop bugs

Agricultural experts from throughout Michigan's lower peninsula converged on Battle Creek's Gull Lake in June for an unusual meeting.

Armed with buckets, barrels, bait boxes and beer coolers, they waded through thigh - high oat fields in search of tiny insect parasites that offer potential control of the cereal leaf beetle - one of the most serious grain pests in the U.S.

After filling their containers, these cooperative extension agents returned home and released the parasites on farms in their counties.

Their actions marked the second year of a biological control program aimed at eventually controlling the cereal leaf beetle without chemical insecticides and the potential hazards these chemicals have for the environment.

According to Richard J. Sauer, MSU extension assistant professor of entomology, "The program shows good promise of spreading the parasite throughout the state so the cereal leaf beetle has no place to turn."

Breast cancer affected by drugs

Breast cancer is affected for better and for worse by a number of drugs that act directly on the brain, recent experiments by a University researcher indicate.

Of particular importance, believes Joseph Meites, professor of physiology, is L-dopa, a naturally occurring substance used in the treatment of Parkinson's disease.

In experiments with rats, Meites and associates have shown L-dopa inhibits the growth of chemically induced breast tumors.

Reports on this work at scientific meetings have resulted in a number of physicians expressing interest in trying L-dopa on human patients with breast cancer.

"They are particularly interested in L-dopa because of the experience that has already been gained in its use and because it occurs naturally in the brain," Meites said. "I anticipate that we will hear reports from them in the near future."

L-dopa and a number of other drugs, including the ergot drugs (LSD and ergonine are examples), increase the production of chemicals called catecholamines in the brain.

These catecholamines stimulate the hypothalamus, a part of the base of the brain, which produces a substance called "PIF" - short for "prolactin inhibiting factor." PIF acts on the pituitary, causing it to reduce its output of prolactin, the hormone that is normally responsible for growth of the breast and the initiation of lactation.

It is the reduction of prolactin in the blood system that directly inhibits the growth of the breast tumors. Over the past several years Meites and his coworkers have shown in many ways that reduction of prolactin inhibits the growth of breast tumors.

Results of the Meites' research, which have been reported recently at scientific meetings and have been submitted for publication, are the latest in several years of research on hormones and their relation to breast cancer.

Meites was among the first to report on the production of neurohormones by the brain, via the hypothalamus, and on the influence of these neurohormones on the pituitary gland and consequently on the total animal or person.

-CHARLES DOWNS

Recycled paper urged for campus

The Waste Control Authority has launched an effort to encourage all campus paper users to specify recycled stock when they order their paper supplies.

Mark Rosenhaft, director of the authority, reports that several projects are underway to stimulate the use of "ecology paper" (paper from recycled pulp) on the campus. He says that by specifying recycled paper in its own orders, the University can help promote the market for recycled paper.

The Waste Control Authority is already experimenting with stationery made from "100 percent reclaimed waste," and Rosenhaft hopes that the practice will spread to other departments.

In addition, Rosenhaft says, these steps have been taken:

*A recycling subcommittee of the authority has helped arrange a course called "Paper Recycling" to be offered this fall in Justin Morrill College.

*A six - month pilot project is underway in which departments issuing publications through the University Editor's office will be urged to use recycled paper when possible.

*University Printing Service, the News - Bulletin and the State News will study the feasibility of using recycled paper.

Rosenhaft says that student-led efforts to collect newspapers for recycling have temporarily stalled because the demand for old papers is not high enough.

"We need to stimulate the market," he adds, "so we can return our waste paper to the mills."

He notes that the University generates some 140 tons of rubbish each week, 80 percent of which is paper. Nationally, it costs about \$4.5 billion a year to dispose of solid waste, 50 percent of it paper products.

Two women assume new committee jobs

Patricia A. Walsh, assistant professor of audiology and speech sciences, and Ann Tukey Harrison, associate professor of romance languages, have many things in common.

Both have been elected recently to "first women" positions; both believe in being involved in faculty and campus activities; both come from large families; and both met their husbands on campus.

Mrs. Walsh became the first woman chairman of the Academic Council's Committee on Committees on July 1. And on the same date, Mrs. Harrison became the first woman faculty member to serve on the Athletic Council.

Serving on committees isn't new to Mrs. Walsh. She is a member of the Academic Council, the Elected Faculty Council, the Faculty Tenure Committee and has served on the Committee on Committees for one year.

In addition, she serves on her department's committees on faculty

advisory clinical affairs, research, alumni affairs and international affairs. She is also a member of a special body, the newly formed Field Services Committee.

* * *

"THE UNIVERSITY functions via faculty representation, and I feel that in order to be represented, faculty members must be willing to serve and share the responsibility," she says.



ANN TUKEY HARRISON

She adds that it is important for as many people as possible to serve on committees. "This way there is a good variety of people, and new ideas can be brought out."

Mrs. Walsh says she doesn't feel that being a woman effected her election to the chairmanship of one of the University's most important committees. (The committee on Committees advises the president and the Academic Council on the committee structure of the faculty government.)

"There are opportunities for women if they are willing to serve and accept the responsibilities, not as women, but as human beings," she said.

Mrs. Walsh, who has six brothers and sisters, is a graduate of Oberlin (Ohio) College. She received the M.A. from

Indiana University and the Ph.D. from MSU.

She met her husband, George L. Walsh, administrative assistant in the Colleges of Natural Science, Veterinary Medicine, Human Medicine and Osteopathic Medicine, when she came to MSU.

A member of the American and Michigan Speech and Hearing Associations, Mrs. Walsh has received the ASHA's certificate of clinical competence in speech pathology.

She says that her husband doesn't mind the time and responsibility required of her by the various committees on which she serves. "He is busy himself, and he feels that I should do what I want and feel I should do," she says.

* * *

MRS. HARRISON ALSO spends much of her time involved with committees. She is a member of the Women's Steering Committee, Faculty Women's Association and the ad hoc committee on criteria on general education. In addition, she serves on her department's graduate committee.

She is also on the fellowship selection committee of the American Council of Learned Societies and the State of Michigan Advisory Committee on Foreign Languages.

Mrs. Harrison says she is enthusiastic about her appointment to the Athletic Council. "Any assignment like this which has responsibility is flattering," she says.

"Anytime women are appointed to a standing committee," she says, "the University is taking a step forward."

Mrs. Harrison is not unfamiliar with the Athletic Council. Her father, Harold B. Tukey, who died last November, was professor and chairman of horticulture, served for many years on the Athletic Council and was MSU's representative to the Big Ten.

"I heard about the Athletic Council many times during dinner table conversation," she says.

Mrs. Harrison met her husband, Michael J. Harrison, professor of physics, after she began teaching here in 1968.



PATRICIA WALSH

The youngest of five children, she received her undergraduate degree at MSU, and her M.A. and Ph.D. at the University of Michigan.

She has coauthored three books and has just completed her first own book, "Charles d'Orleans and the Allegorical Mode."

The Athletic Council develops policies governing intercollegiate athletics at MSU; suggests policies for adoption by the Big Ten Conference; and serves as an advisory board to the athletic director.

— SANDRA DALKA

Dairy store still here

The days of the little old cheese maker are gone.

In their places are the companies that supply more varieties of cheese and cheese products than once might not have seemed possible. And helping develop these new products is MSU's dairy plant and food science department.

The University's dairy plant, completed in 1956, served for several years as a small commercial operation for student training programs, research and limited industry assistance.

The plant no longer operates commercially, and has shifted its emphasis to research. But cheese is still sold to the public and to residence halls on a limited scale. The plant employs a cheese maker and two research assistants, and its sales cover most of the research costs.

The dairy store, in the basement of the plant, is open to the public on Fridays from 1 to 2 p.m. More information is available by calling 355-8459.

* * *

WHEN THE DAIRY plant was begun, MSU's assistance to industry included testing and technical advice to small companies. For example, the University developed a process that helped a small manufacturer with dehydration of liquid flavorings, thus stabilizing flavors and making them easier to use.

In the dairy store, specialists evaluated consumer acceptance of new products and processes. Some MSU developments include chocolate cheese, a confectionary resembling fudge; dagano, a Swiss - type cheese; and rozano, a low-fat product. All are available at the dairy store.

Other products developed here are cherry dairy spread, a combination of cherry and dairy products into a spread, and Frumil, a milk and fruit dessert combination.

MSU was the first to develop a frozen whipped dairy products, four years before the first such products appeared on the market.

The University's dairy products are high in protein and other nutrients. Two 100-gram bars of chocolate cheese, for example, provide an adult with all the minimum daily requirements of vitamins B-1, B-2, A and C, and of calcium, iron and niacin.

Rutledge sees theatre rebirth

Interest in University theatre productions is enjoying a "real renaissance," according to Frank Rutledge, chairman of MSU's Department of Theatre.

He reports that productions by the Performing Arts Company and the Summer Circle Theatre have been well attended during the past two years, and he adds this hope: "I want our theatre to be the University Theatre."

Rutledge is directing this week's Summer Circle production of David Cregan's "Houses by the Green" which continues tonight through Saturday night at 8:30 in the Kresge Court. Next week's production is "Lyle."

Rutledge, who became chairman of the theatre department in 1971, originally intended to fulfill his father's wishes and become a lawyer. He earned the B.A. in history from Ohio State University. But after one year of law school at Ohio State, where he dabbled in theatre, Rutledge decided to earn a master's degree in theatre. He came to MSU 13 years ago as an instructor and technical director.

Rutledge says he would like to see the theatre "come out of its seclusion as a romantic art and become more serviceable to the University community." He believes that the theatre can be used "as a tool to teach humanistic resources."

Rutledge said that MSU's theatre department has emphasized production and production skills. Now he says he would like to see the curriculum become more professional and more complete. For example, a recently offered acting major requires undergraduate students to take a year of movement and vocal training.

The graduate program revolves around the Performing Arts Company

(PAC), but Rutledge still feels that not enough is being done in graduate acting. "We need more studio training," he says.

As a start in this direction, the theatre department has staged productions of classical works for humanities classes.

Rutledge feels that the theatre can play an immense role in the community. He says the theatre should be encouraged to serve as a social and creativity conductor, and not only as a fine art.

"A lot of communal joy is generated by the theatre," he says.

—DARIA SCHLEGA

Munn handles recent illness

Biggie Munn has recovered completely from the recent illness which put him in the hospital for several days and now is at home again.

James Feurig, director of Olin Health Center, said that Munn has resumed physical and speech therapy for paralytic effects of the stroke which he suffered last fall.

The attack of illness which put him back in the hospital for a few days was described by Feurig as a "convulsive seizure."

A new course looks at women's labels

"Downtrodden drudges" and "female saints."

Women have carried a variety of labels throughout American history.

A new course, Women and America, offered by the American thought and language department (ATL) investigates the reasons and effects of such labeling of women.

Developed by Albert Karson, professor of ATL, the course emphasizes political, social and economic effects of the American experience upon women.

Karson says the course is being offered because of the new awareness of the women's problems initiated by such people as Betty Friedan and other women's liberation organizers.

"Women today need to know their own history before they can chart their future," he says.

Karson's wife, Martha, acting assistant professor of psychology, helped develop the course. The husband - wife team recently collaborated on a book - "The Idea of Woman in America: Historic Views of Her Role and Character" - used as a basis for the course.

The course takes a chronological approach to the American woman from colonial times to the present. Karson explains that novels used in the class and dealing with women are examined from "the women's point of view."

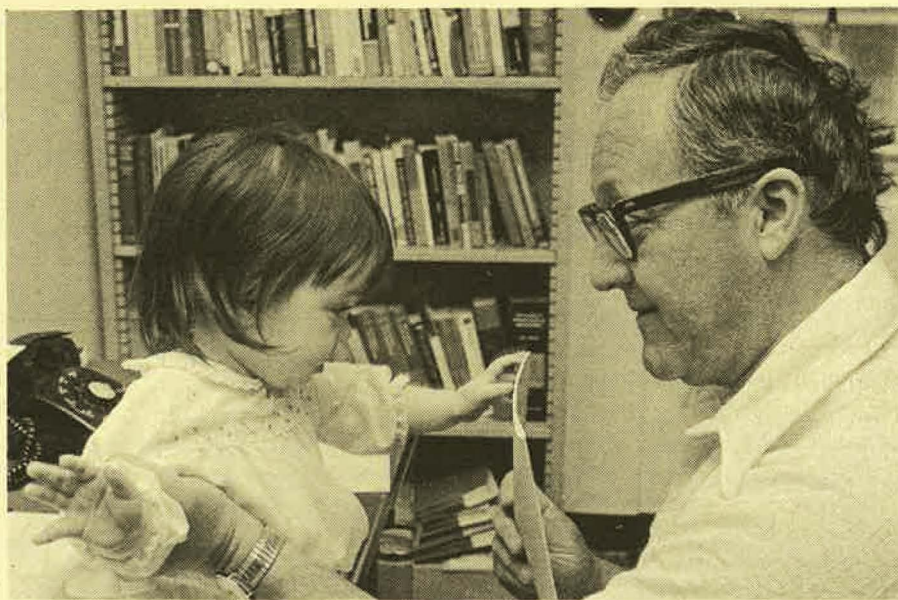
* * *

KARSON SAYS that his "interest in women" evolved from his association with his wife of seven years whom he met when she was a student in one of his classes. The couple have a 9 - month - old daughter, Alessandra.

"Since my life isn't typical, it has forced me to come to grips with my traditional views concerning women," he says.

Karson reports that he shares many of the household responsibilities with his wife, who, in addition to her teaching duties at MSU, serves as an consultant to the Ingham Intermediate School District and has a private practice.

"I help with the babysitting and I do most of the cooking," he says. "I practice what I preach."



Sharing responsibilities with his wife, Albert Karson babysits with 9-month old daughter Alessandra.

Karson says that he and his wife live as equals. "Women should have the choice of living as man's equal and not as man's servant. I want my daughter to be able to make this choice," he says.

* * *

THE ATL COURSE, offered for the first time spring term, is elective and open to both men and women. Of the 65 students who took the course, 15 were men.

"The course doesn't deal with the individual problems of women, but with social problems. If one woman needs an abortion, that's an individual problem, but it becomes a social problem when 10 million women need abortions," Karson says.

"The course shows how women have organized throughout history to solve their problems together," he adds.

Karson says he is happy that a Women's Steering Committee was formed at the University to investigate the problems of women at this institution. "Women have had enough of experiencing an inferior role and they now know what they need."

— SANDRA DALKA

The changing catalog:

From the auto's role to being with children

What impact does the automobile have on society? How do you deal with children? How does the election process work? How do you cope with conflicts created by environmental degradation?

Attempts to answer these and other questions relevant to the world today are offered through the dozens of new courses at the University.

Some of the courses begin in the fall; others will continue after being introduced during the past year.

The role of the automobile in society is the subject of a special course to be offered fall term.

Topics for the course, taught by Merle C. Potter and Charles R. St. Clair Jr. of the mechanical engineering department, include the history of the automobile, its components and characteristics, manufacturing techniques, regulations and potential solutions.

Alternatives to the automobile and gasoline engine also will be discussed, as will the effect of the car on lifestyle, use of natural resources, and economics.

* * *

UNDERGRADUATES ARE learning how to be with children through a year-long sequence of three courses offered in the psychology department.

The course, titled "Sensitivity to Children," is geared to male undergraduates, because American men have "more to learn."

Offered for the first time during the past school year, the sequence will be offered again in 1972-73.

Gary E. Stollak, associate professor of psychology, directed the program last year as a practical means of identifying and alleviating problems and dilemmas facing future parents, teachers, child therapists and child care workers.

During the course students participate in one-to-one relationships each week with children aged 4 to 8 in area homes or on campus.

He explained that the course is aimed to male students, "because women's magazines give a lot of space to how to be a mother, but men-oriented publications say nothing about how to be a father or how to share time with sons or daughters."

* * *

Besides voting in a national election for the first time in November, a number of undergraduates will be able to examine the ongoing election process in a special course offered by the social science multidisciplinary program.

John Hudzig, assistant to the program director, will teach the 1972 elections course.

Course content will include covering the senate, house and presidential elections, issues and relationships of

issues in the 1972 campaign, ideology and voting, voting behavior and candidate behavior, the establishment, political populism, radicalism, conservatism, and liberalism.

* * *

AMONG THE OTHER NEW offerings are "Seminar in Ecological Psychology," "The United States in World Affairs," "Minority Families in America," and "Doctor-Patient Relationship."

Offered by the psychology department, the course in ecological psychology is a critical study of contemporary issues, such as the psychological aspects of overcrowding.

"The U.S. in World Affairs," a history offering, studies American foreign relations during and after World War II. Course topics include recent relations with Asian countries, West Germany, the Soviet Union and America's reaction to the Middle East question.

"Minority Families in America," developed by the family and child study department, will investigate historical, structural and functional components of minority family systems in white America. The course centers on a particular minority family system each term in relation to his life styles, pressures, adaptations, viability and continuity of minority family sub-culture.

The College of Human Medicine is offering the new course on doctor-patient relationship, which focuses on teaching self-observation and exploration of human interaction. The course will identify specified elements of communication and interview responses through videotaped interviews.

These courses are among the more than 80 new ones approved this spring by the University Curriculum Committee and the Academic Council.

Games and puzzles:

For mathematicians only

Games and puzzles with numbers and drawings have long fascinated people—including mathematicians.

Some time ago, an MSU mathematician, Leroy M. Kelly, discussed unsolved mathematical problems with Hallard T. Croft of Cambridge University while Kelly was in England.

Croft is known worldwide among mathematicians for lists of unsolved problems that he periodically sends to his friends.

Croft challenged Kelly with an unsolved mathematical game, and the MSU mathematician solved it during his Cambridge visit.

Kelly's solution was so unique that the episode is described in last month's (June) issue of the Scientific American, and the mathematical puzzle is featured in this month's issue, says Martin Gardner, author of the journal's column on mathematical games.

Kelly's solution, "using only eight points, is so elegant that I give it as an exercise to be answered here next month," writes Gardner in his column.

"Croft was rather taken with that particular problem when I was over to Cambridge a few years ago," said Kelly. "He mentioned the problem, and so I came up with that particular set of points."

"They thought maybe there was no such set," added Kelly.

"Croft is a great problemist. He keeps putting out lists of problems and he keeps including that one. He's trying to get the mathematical community to get a better example— one with more points in it."

"Eight is the smallest number; and whether it's the largest number is another question."

What is the problem?

Find any number and pattern of points on a plane (such as a sheet of paper) such that the perpendicular bisector of the line segment joining any two points passes through two other of the points.

And this has to be done for all combinations of pairs of points in the set of points chosen.

—PHILLIP E. MILLER

TIAA-CREF retirement program to affect C-Ts and hourly employees

When the University's new TIAA-CREF retirement program takes effect next Jan. 1, the largest single group affected will be full-time clerical-technical staff and hourly employees (News-Bulletin, June 29).

Here is a brief rundown of the immediate effects and ground rules involved for C-T and hourly staff:

1. The TIAA-CREF program will be offered to all permanent full-time employees with at least three years' service.

2. It will be required for those who have reached 35 and have three years' service.

3. Contribution levels will begin at 3 percent from each employee and 6 percent from the University. The ratio increases within five years to 5 percent - 10 percent.

4. Persons who have reached age 55 by Jan. 1, 1973, may elect not to participate in the new TIAA-CREF plan and have their pensions based on the old noncontributory plan, but using a new

formula described below in No. 4. It is important to note that employees who elect not to participate in TIAA-CREF must meet the University's minimum service requirements for retirement, which state that a person has to serve 25 years, or be 62 and have a minimum of 15 years' service to receive benefits.

5. The formula governing the old retirement plan will be improved by basing pensions on an amount equal to the highest three years' average earnings, multiplied by 2 percent for each year of service, with a \$3,600 ceiling.

6. This new formula will be applied for each employee at retirement and will become the MINIMUM received by the employee.

7. The annuity purchased by each employee and MSU's contributions to TIAA-CREF will be compared to the pension amount computed in No. 6 above, and the employee will receive the larger of the two figures.

THE NET EFFECT is that each employee will be guaranteed a minimum pension, notes Gary J. Posner, director of employee compensation and benefits. But he adds that "in the vast majority of cases, employees will build up a substantially larger retirement pension through TIAA-CREF than would ever be possible by staying under the current pension system."

He says that most employees won't have to worry about the 2 percent formula or the \$3,600 ceiling, since each pertains to the University plan formula only. And Posner emphasizes that there is no pension limit under TIAA-CREF.

* * *

ALSO AFFECTED by the retirement change will be a number of faculty, extension service personnel and administrative - professional employees.

Faculty and extension service staff hired prior to July 1, 1958, and A-Ps hired before July 1, 1970, may still be

covered by the noncontributor program. Persons in these categories who are between 35 and 55 on Jan. 1, 1973, with three years' service will have two options concerning participation in TIAA-CREF, and each affected person will receive information outlining those options.

All employees affected by the new program will be provided more information in the coming months through brochures and meetings.

Productivity . . .

(Concluded from page 1)

more interested in the productivity of individual faculty than in the institutional productivity.

When the 1972-73 appropriations bill was before the State Senate, Sen. Gilbert E. Bursley (R) argued that this section infringed the autonomy given to MSU, the University of Michigan and Wayne State University by the Michigan Constitution. He maintained that in order to meet the requirements of this section, the institutions would have to create large bureaucracies just to gather this information.

In presenting the appropriations bill to the Senate, Sen. Charles O. Zollar (R) Chairman of the Senate Appropriations Committee, stated that the proposed legislation was well within the guidelines set forth by Judge Marvin J. Salmon of the Ingham County Circuit Court last December when Salmon ruled in favor of the "Big Three" universities. He maintained that the reporting requirements which the bill imposed on state colleges and universities were in line with the court's ruling that the legislature was responsible for evaluating how state dollars had been spent by the institutions.

The higher education appropriations bill for 1972-73 specifically states, "Pursuant to section 4 of article 8 of the state constitution, all institutions of higher education shall furnish an annual accounting of all income and expenditures to the legislature."

Section 17 of the appropriations bill also brought forth floor discussion. This section dealt with creation of three new state-supported law schools. Changes were made in this section in conference committee whereby Michigan State, Western Michigan University and Grand Valley College are appropriated \$100,000 to fully explore the feasibility and economic consideration surrounding the advisability of establishing on-campus law schools on or before Sept. 1, 1973.

— MIKE BORN

Cooperative Extension Service responds to discrimination committee's recommendations

Officials of the Cooperative Extension Service say they stand ready "to reason together with any individual or group with constructive suggestions" for increasing minority group involvement in extension programs.

That pledge is contained in an extension service response to recommendations made by the Committee Against Discrimination (CAD) after the committee made an extensive review of "hiring and other practices and programs" in the College of Agriculture and Natural Resources and in the extension service.

The CAD review was begun last winter at the request of the American Civil Liberties Union.

Sol de Atzlan, a Lansing Chicano organization, had filed several complaints with the ACLU: That job openings in the extension service were not publicized in "such a manner to facilitate and encourage" applications from Chicanos; that "there are no Chicanos in policy-making positions" in the extension service; that extension agents and home economists "are not sensitive and not instructed to deal constructively" with Chicanos' needs; and that agriculture and extension programs favor farm owners and operators at the expense of workers.

In its report, the CAD recommended that the extension service: Follow its affirmative action plan, recruit from universities having large concentrations of Chicanos and post job vacancies for 60 days; hire some Chicanos in "key decision-making" posts and create a "higher echelon line administrative position" for a qualified minority group person; provide extension staff with Chicano "awareness" sessions conducted by Chicanos; and devise more programs to aid migrant workers and more urban related programs, and that the agriculture college "use its influence" to help change the composition of the Governor's Agricultural Labor Commission to include more workers.

* * *

THE EXTENSION SERVICE response to the recommendations noted that since last January job vacancy

announcements have been made available and that contacts have been made "with schools having significant numbers of Chicano graduates." But extension challenged the suggested 60-day posting period, saying that such a lag would "seem to unduly delay filling vacancies," especially when employees resign suddenly.

The extension service statement noted that two Chicanos already have policy-making assignments, and it added — in response to a CAD charge that only one or two Chicanos in such roles is "tokenism" — that two key positions "represent some 10 percent of all such positions available on the state staff."

The charge that extension agents and home economists are not sensitive to Chicano needs would be "extremely difficult to empirically establish," the response stated. And it noted that

extension's two Chicano appointees now "provide an important resource" in planning staff training and in consulting with field staff.

Finally, the statement contended that while the federal Smith - Lever Act (which created the extension service in 1914) was designed to help farm owners, the extension service is trying to aid workers through its Rural Manpower and Public Affairs Center and its Expanded Nutrition Program.

And it noted that although a college such as engineering "would not likely be expected to retrain the workers displaced by new technology it helps to generate," agriculture does view manpower training and retraining "necessary and legitimate to the extent it is consistent with the Smith - Level Act."

C-Ts get 4 percent . . .

(Concluded from page 1)

Trustees. In addition, the longevity payment program will be continued.

Also effective July 1, C-Ts will receive two, rather than one, personal leave days annually. And beginning Jan. 1, 1973, C-Ts will be among those receiving long-term disability insurance and will be eligible for participation in the TIAA-CREF retirement plan.

AFTER SUSPENSION of the C-T merit pay plan had been announced — but before any salary recommendations had been made — the Alliance to End Sex Discrimination charged that the some 2,000 C-T employees, most of whom are women, were being discriminated against. This was flatly denied by the administration and called a misrepresentation of the facts.

Rollin Dasen, president of the C-Ts group — the MSU Employees Association — said that no representatives of the alliance had contacted him as of this week.

Two meetings of the C-T association are set for today (at 12 noon and 5 p.m. in 110 Anthony Hall) to explore possible actions the group can take.

Dasen said his organization's major objective still is to obtain recognition from the University as bargaining agent for the C-Ts. He said that the number of signed authorization cards from C-T employees has increased since suspension of the merit pay plan was announced.

Dinner to honor McFarland

Colleagues and friends of Dalton McFarland will honor the former chairman of the management department at a dinner July 25 in the Shibui Room of the University Club.

McFarland is leaving MSU after 20 years to accept a position as university professor of applied behavioral science at the University of Alabama at Birmingham.

McFarland joined the MSU faculty in 1952 after teaching and research assignments at Michigan Tech and Cornell. He holds degrees from Western Michigan University, the University of Chicago and Cornell.

He served as chairman of the

management department from 1962 to 1971.

"In a very quiet way, Dalton McFarland has achieved international prominence in the field of management and organization behavior," says Richard F. Gonzalez, current department chairman. "Twenty years ago he was one of a small group of people who began to put a solid academic foundation under the profession and since then he has been instrumental in making it into a strong discipline."

McFarland assumes his new post Sept. 1. Those interested in attending the dinner in his honor can make reservations by calling 355-1795.

BULLETINS

NEWS-BULLETIN

The MSU News-Bulletin will be issued biweekly during the summer months.

The next issue will appear on Thursday, July 27. Notices for the bulletin are due by noon, Tuesday, July 25, to Patricia Grauer, 109 Agriculture Hall, 3-8819.

COMM. ARTS

The College of Communication Arts newsletter has established news sources

in each department. Information for the newsletter should be submitted to John Marston in advertising, Leo Deal in audiology and speech sciences, Boyd Miller in journalism, Robert Schlater in TV and radio, Barbara Haslem in communication, or to Carol Remondino at the college office, 5-3410.

SCHEDULES READY

The 1972 fall term Schedule of Courses Academic Handbook is now available.

Department representatives may pick up a supply in 64 Hannah Administration Bldg.

HALF-TERM GRADES

Final grade cards for the half-term will be delivered to department offices

Friday, July 21, and should be checked immediately to determine if there is a card for each student. The grading system is printed on the face of each class card. More detailed information is given on pages 87-88 of the 1972 summer term Schedule of Courses and Academic Handbook. Final grade cards for the half-term are due in the Office of the Registrar, 150 Hannah Administration Bldg. (5-9596) 36 hours after final examinations are given. For the convenience of academic departments the Office of the Registrar will make pickups from departmental offices beginning Thursday, July 27. The final pickup will be made Monday, July 31 at 8 a.m. All grades are due no later than 11 a.m., Monday, July 31.

CONFERENCES

- July 15 National Ski Patrol
- July 16-22 Cecchetti Ballet Seminar
- July 17-21 National Recreation Workshop
- July 17-28 Great Lakes Church Leadership School, Case Hall
- July 18-20 17th Annual Piano Teachers Conf.

FALL ENROLLMENT

Enrollment materials for fall term will be available for pickup by summer term students in 150 Hannah Administration Bldg. beginning Monday, July 17. Fall enrollment materials are being mailed to those students not registered during the summer. All Registration Section Request Forms for fall term should be returned to the Office of the Registrar, 150 Hannah Administration Bldg., no later than Tuesday, August 15.

ABRAMS CLOSED

Abrams Planetarium will be closed for maintenance work through August 3.

"The Last Question," a science fiction spectacular, will begin again in the sky theatre on Friday, August 4.

FILM SEMINAR

A special film seminar, "The Beginning of Life," will be shown by the Endocrine

Research Unit at 10 a.m. and 4 p.m., Thursday, July 20, in 110 Anthony Hall. The film has received much acclaim for its beauty and accuracy as it utilizes laparoscopic techniques to film the reproductive process. It received first prize in the Scientific Motion Picture Department of the 31st Venice International Film Festival and first prize in the 15th International Scientific and Educational Film Festival at Padova University.

SPEECH AND HEARING

Sister Marie De Montfort, director of training, Dublin College of Speech

Therapy, Dublin, Ireland, will present a lecture on "Program Development of Speech and Hearing in Ireland," at 7:30 p.m., Friday, July 14, in B4 Audiology and Speech Sciences Bldg.

WOMEN'S REPORT

Copies of the Report to the President from the Women's Steering Committee

are available to interested persons from Roberta Smith, 102 Engineering, 5-5103.

- July 23-28 Veteran's Representatives Institute
- July 27 Social Work Institutes Youth & Day Care

Students and faculty members are welcome to attend these continuing education programs. Those who are interested should make arrangements in advance with the Office of University Conferences, 5-4590.

EXHIBITIONS

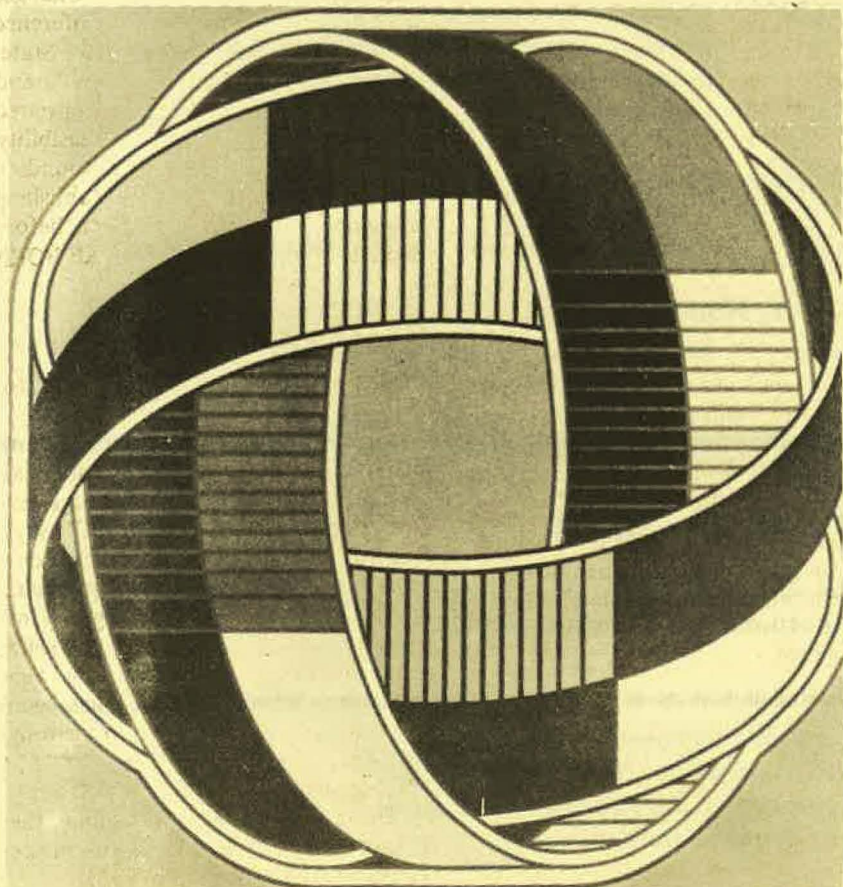
Hidden Lake Gardens Tipton, Michigan

On display in beds and containers are 314 varieties of annual flowers, including 153 petunia varieties. Tuberous begonias are outstanding now in the Temperate House display. Woodlands, water and wildlife are year around features. Open daily 8 a.m. until sundown.

Kresge Art Center

Entrance and North Galleries (through July 23):

These paintings are part of the "Inverse Illusionism" show currently being presented at Kresge Art Center. The exhibition, which is organized and circulated by the American Federation of Arts, includes 29 paintings by eight contemporary artists.



"Canto," 1970, acrylic on canvas, by Paul Camacho

Museum

Floor B— Furniture treasures from the MSU Museum collections currently being featured in Heritage Hall might very well be called an antique collector's dream. The display contains such curiosities as an 18th century rope bed, an 1895 gas heated bathtub and a 19th century olive-wood desk.

Floor B — In the Michigan Heritage Hall, the now famous, curved-dash Olds, once the personal car of R.E. Olds, has been moved into a new period setting.

Floor B, East—Recorded calls of wild geese and the rare Kirtland's warbler can be heard.

SUMMER CIRCLE FREE THEATRE

For its third and final production MSU's Summer Circle Free Theatre will present the premiere of "Lyle" by Robert Somerfeld.

The play is named for its central character, a street cleaner who takes great pride in his work. As he makes his rounds with broom and pushcart, he meets many kinds of people and accepts them all, as they are and with all their faults.

Peter Moss will direct this first production of "Lyle" which he describes as "the saga of man and his broom."

Don LaCasse, Ph.D. student and member of the Performing Arts Company, will play the title role of the street cleaner Lyle.

Ken Beachler, director of the MSU Lecture-Concert Series, has performed for many seasons with Summer Circle Free Theatre. He will play the major supporting role of Owen. Carl Frankel, a Ph.D. student and a plant pathologist at MSU, will play George. Nancy Pulk will also play an important supporting role. Miss Pulk is a senior

Other members of the cast are Sandy Cooper, a graduate of Pasadena Playhouse and a M.A. student in the Department of Theatre; Pamela Riedl, a Ph.D. student at MSU; John Bunch, a teacher at a U.S. Air Force base in England who is working at MSU for a graduate degree.

Designer and Technical Director Gretel Stensrud, has designed the settings and costumes for all three Summer Circle Free Theatre productions. The staff includes Tom Ferris, Sara Jane Wright, Cathy Newman and Don Dairymple.

"Lyle" will be performed July 19-22 outdoors in Kresge Court on the campus. All performances begin at 8:30 p.m. and are free to the general public. About two hundred bleacher seats are available.

FRIDAY, JULY 14, 1972

- 7:30 p.m. Recital—Several of the top high school students from the summer Youth Music institute will be heard in recital. Music Auditorium.
- 8:30 p.m. Summer Circle Free Theatre—David Cregan's "Houses by the Green" is a satire on good neighborliness, on preventing overpopulation, and on the importance of preserving the environment. Eight characters are played by four actors, each impersonating someone else. There is no charge for admission. Kresge Court.

SATURDAY, JULY 15, 1972

- 8:30 p.m. "Houses by the Green" (see July 14). Kresge Court.

SUNDAY, JULY 16, 1972

- 4 p.m. Carillon concert—Carillonneur Wendell Westcott will perform as part of the annual summer carillon concert series. Programs for the concert are available in the lobby of Beaumont Tower, and those attending may watch him perform at the top of the tower. Tours will be conducted after each concert. Beaumont Tower.

MONDAY, JULY 17, 1972

- 7 p.m. Concert—The second summer session of the Youth Music Band will present a pops concert on the lawn near the Music Building.

TUESDAY, JULY 18, 1972

- 12 p.m. University Club luncheon—Gary Posner from the Office of the Executive Vice President, will speak on "The Outlook in Staff Benefits for MSU."
- 8 p.m. Carillon concert (see July 16). Beaumont Tower.
- 8:15 p.m. Recital—Garry Schunk, an MSU piano student from Warren, will present works by Schubert, Chopin, Ravel, and Liszt as part of the seventeenth annual Piano Teachers' Conference. Schunk graduated from the Palestrina Institute of Ecclesiastical Music, attended Interlochen Music Camp, and tied for first place in Grinnell Piano competition in 1971. There is no charge for admission. Kellogg Center Auditorium.

WEDNESDAY, JULY 19, 1972

- 4:30 p.m. Recital—Robert S. Hill, harpsichordist, will perform works by J.S. Bach, Johann Christian Bach, Antoine du Forqueray, and Frescobaldi on an instrument built by his brother. The performance is presented as a part of the seventeenth annual Piano Teachers' Conference. There is no charge for admission. Kellogg Center Auditorium.
- 7:30 p.m. Recital—Several faculty members in solo and ensemble and high school students from the summer Youth Music institute will perform. There is no charge for admission. Music Auditorium.
- 8:15 p.m. Recital—Ylida Novik, Hungarian-born concert pianist, teacher, and critic, will perform works by Liszt, Beethoven, Bach, and Bartok as part of the Piano Teachers' Conference. Miss Novik is internationally known as a specialist on contemporary educational and concert

repertoire, and is a member of the music faculties of George Washington University and Montgomery Junior College, Tacoma Park, Md. Tickets are available at the Kellogg Center Conference Registration Desk. Kellogg Center Auditorium.

- 8:30 p.m. Summer Circle Free Theatre—"Lyle," the story of a street cleaner who takes particular pride in his work, will be this summer's final production. There is no charge for admission. The performance will be held in Arena Theater in case of rain. Kresge Court.

THURSDAY, JULY 20, 1972

- 7:30 p.m. Concert—Members of the summer Youth Music institute will present a jazz concert. There is no charge for admission. Music Auditorium.
- 8 p.m. Carillon concert (see July 16). Beaumont Tower.
- 8:15 p.m. Recital—Allison Nelson, Australian piano virtuoso, teacher, author, and composer, will perform "Passacaglia" by Copland, "Sonata in F Minor, Op. 5" by Brahms, "Estampes" by Debussy, and Chopin's "Nocturne in F Sharp, Op. 15, No. 2," "Etude in A Flat, Op. 25, No. 1," and "Ballade in G Minor, Op. 23." Miss Nelson's performance is sponsored by the seventeenth annual Piano Teachers' Conference. Tickets are available at the Kellogg Center Conference Registration Desk. Kellogg Center Auditorium.
- 8:30 p.m. "Lyle" (see July 19). Kresge Court.

FRIDAY, JULY 21, 1972

- 7:30 p.m. Concert—The chorus and vocal ensemble of the summer Youth Music institute will perform. There is no charge for admission. Fairchild Theatre.
- 8:30 p.m. "Lyle" (see July 19). Kresge Court.

SATURDAY, JULY 22, 1972

- 2 p.m. Concert—The 1972 Youth Music band and orchestra will present the final concert of the summer. There is no charge for admission. Fairchild Theatre.
- 8:30 p.m. "Lyle" (see July 19). Kresge Court.

SUNDAY, JULY 23, 1972

- 4 p.m. Carillon concert (see July 16). Beaumont Tower.
- 4 p.m. Graduate recital—Donald Armitage, organist, will perform. There is no charge for admission. Hart Recital Hall.

TUESDAY, JULY 25, 1972

- 12 p.m. University Club luncheon—Gene Kenney, assistant to the director, Intercollegiate Athletics, will discuss "MSU's Summer Athletic Instructional School."
- 8 p.m. Carillon concert (see July 16). Beaumont Tower.

THURSDAY, JULY 27, 1972

- 8 p.m. Carillon concert (see July 16). Beaumont Tower.

FRIDAY, JULY 28, 1972

- 10 a.m. Board of Trustees meeting.

SEMINARS

MONDAY, JULY 17, 1972

The general problem of positional information and pattern in regeneration. **Jacob Faber**, Hubrecht Laboratory, Utrecht, The Netherlands, 4 p.m., 204 Natural Science (Zoology).

TUESDAY, JULY 18, 1972

Blood volume in obesity. **Janet Grommet**, 12:30 p.m., 9 Human Ecology (Food Science & Human Nutrition).

Information on MSU events may be submitted for possible inclusion in the bulletins to Patricia Grauer, Dept. of Information Services, 109 Agriculture Hall, (517) 353-8819. Deadline for submitting information is noon Tuesday preceding the Thursday publication. The calendar of events will cover a 9-day period, Friday through Saturday.