MEA group files a new bargaining petition

Representatives of the MSU Faculty Associates (MSUFA) have reported that the group is filing a new petition with the Michigan Employment Relations Commission (MERC) to ask for a campus election to determine a bargaining agent for faculty.

William Owen of the Michigan Education Association (with which MSUFA is affiliated) said that the petition will be in the mail today. He reported that the petition contains authorization cards signed by more than 30 percent of the defined bargaining unit tentatively agreed upon in March by representatives of the Faculty Associates, the American Association of University Professors, the University administration and MERC (News-Bulletin, March 9).

Owen said “there was no question” that MSU-FA has more than 30 percent of the some 2,460 faculty who would constitute that unit.

He added that while an election date is subject to negotiation, he assumed that one could be set for next fall.

The unit definition set last month — broader than the one proposed by the Faculty Associates in a February petition — includes full-time teaching and research faculty (all ranks, including assistant instructors and specialists), faculty at those ranks who are half-time or more for three or more consecutive terms, non-supervisory academic staff such as librarians; non-supervisory directors of academic programs; artists in residence; counselors; and academic advisors.

It excludes such groups as extension personnel who do not hold rank in an academic unit; assistant, associate and department chairmen; assistant, associate and directors of administrative units; assistant and associate deans and deans; research associates; post-doctoral fellows; divisional librarians; and others.

The AAUP reports that it has nearly 30 (Continued on page 4)
Tenure: Taking an irreverent look

The following views are those of Florence Moog, professor of biology at Washington University, St. Louis. They are from a paper presented at the recent conference of the American Association for Higher Education. The article here, adapted from that paper, is excerpted from the April 10 issue of The Chronicle of Higher Education.

** **

Tenure in a sense merely wraps up academic freedom and job security in one neat package; but it does so in a way that provides little chance for redress when tenure fails. The tenure system is designed, if at all, to protect the tenure holder from criticism and to perpetuate its own limitations. Abolishing tenure isn't going to cure everything that's wrong on our campuses, much less elsewhere. But I think it is a step toward a more open and more academic society.

** **

BUT WHAT OF ACADEMIC freedom? Though tenure may be challenged on other grounds, it is widely regarded as indispensable because it guards the freedom of each scholar to think independently and to express his opinions without fear of reprisal.

In today's climate, the end of a contract period would no doubt be seized on in some cases as a means of rid ing the campus of an able teacher and scholar who advocated unpopular positions on some minor issue.

The renewal procedures would have to bear some guarantees of academic due process similar to those that now exist. It would be important to establish that the renewal of a seven-year contract would be earned by satisfactory service, not merely given, as is true of the granting of tenure today, for reasons that are neither defined nor defensible.

Amid the clamor that we must retain tenure to protect academic freedom, a rude question goes almost unanswered: Academic freedom for whom? For those who seem to assume that under a system of contracts dismissals would be commonplace.

I am not contesting my assertion that academic freedom is not obsolete. What is worn out is the view that the protection of tenure assures society that the faculties of its educational institutions will be made up of free minds, independent in thought and courageous in advocacy.

On the contrary, the system has produced a squarishness unquestioningly content to perpetuate its own limitations. Abolishing tenure neither retires nor eliminates anything, but it is not the same as saying that everything that's wrong on our campuses, much less elsewhere. But I think it is a step toward a more open and more academic society.

--- FLORENCE MOOG ---

** History in sound**

FDR calls a holiday

(Actual recordings that detail this and other events are available in the National Library on the fourth floor of the MSU Library. An agreement can be made by calling 355-1128.)

By G. ROBERT VINCENT
Coroner, National Voice Library

When one looks back over the years, certain occasions are indelibly engraved in the mind. One such date is Saturday, March 4, 1933.

The whole country was suffering from the most severe depression in its history. Hard times had been with us for several years, and so relief seemed in sight. The American people demanded change, and they had elected a new President, Franklin D. Roosevelt. Here is part of his inaugural address:

"...This is pre-emminently the time to speak the truth, the whole truth, frankly and honestly. It is not necessary for us to shirk from honestly facing conditions in our country today..." (In the country.)

So, first of all, let me assert my firm belief that the only thing we have to fear is fear itself, nameless, unreasoning, unjustified terror which paralyzes needed change, and they had elected a new President, Franklin D. Roosevelt. Here is part of his inaugural address:

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FDR made this explanation:

"...I want to tell you what has been done in the last few days, why it was done and what the next steps are going to be. The bank holiday, while resulting in many cases of great inconvenience, is affording us the opportunity to supply the currency now in the community. I want to make it clear that the banks will take care of all needs and it is my belief that hoarding during the past week has become an exceedingly unfortunate pastime... I can assure you that it is safer for you to keep your money in a reopened bank than to keep it under the mattress..."

The country, the voice, the confidence in the voice of Roosevelt prevented hysteria. I had less than fifty dollars but, like so many others, I was struck by the novelty of the move. We were all in the same boat. The declaration of the financial emergency under the New Deal are an important part of our social history and are preserved in the National Voice Library.
**Around the campus: A weekly review**

**Council defers grievance action**

Discussion on possible amendments to the proposed interim grievance procedures will continue at an Elected Faculty Council meeting scheduled for 2 p.m. May 9 in the Com Con Room of the International Center.

E. Fred Carlisle, associate professor of English and chairman of the ad hoc committee which originally drafted the procedures, offered several amendments which he said would guarantee representation of tenured faculty on the proposed University hearing panels (to hear nonappellate appeals); would establish a long-term Appeals Board; "move the faculty closer to a unified grievance procedure;" and would not replace or preempt the traditional role of the University Committee on Faculty Tenure (FTC).

FTC Chairman Wilbur Brookover, professor of sociology and education, disagreed, citing the FTC charge in the Bylaws of Academic Governance as the "judicial and investigatory agency for all tenancy actions.

Suggested amendments to support Brookover's stance.

The proposed grievance procedures were returned to the EFC by the Board of Trustees who questioned a provision which excluded matters of tenure, reappointment, etc., from the purview of the provisions that had been inserted by the EFC upon the recommendation of the FTC.

**Steering committee ballots out**

Ballots were sent out Monday to all Academic Senate members for the election of two persons to the Steering Committee of the Faculty.

Two vacancies are being left by Gordon Goyer, professor of entomology and current steering committee chairman, and Thomas Greer, professor of humanities. Nominated to fill the two vacancies are: William D. Collins, professor of physiology; Daniel E. Cowan, associate professor of pathology; Eil.P. Cox, professor of marketing and transportation administration; Martin C. Hawley, associate professor of chemical engineering; Chitra M. Smith, associate professor in James Madison College; Donzie W. Thornton, associate professor of psychology; A.L. Thurman, professor of American thought and language; and Duane L. Gibson, noncollege faculty.

The two winners will be announced at the May Academic Council meeting.

**Alumni wins Pulitzer Prize**

A 1969 graduate of MSU's School of Journalism has just received a Pulitzer Prize for his coverage of the prisoner revolt at Attica State Prison in New York.

Finally, Cooper won the awards a reporter with the Rochester, N.Y., Times-Union.

Frank B. Senger, chairman of journalism, expressed pleasure for Cooper and said it was unusual for such a prize to be won by so recent a graduate.

This is the second Pulitzer Prize for MSU alumni. Howard James, a radio- television graduate, won the prize in 1969 for his reporting in the Christian Science Monitor.

Cooper's advisor, Mary Gardner, associate professor of journalism, said she was "bowed over" when she called him with the news Monday night.

Cooper transferred to MSU in 1967 from Grand Rapids Junior College.

**Hexachlorophene: Use discreetly**

Microbiologists Thomas R. Corner and Philipp Gerhardt, reporting on a decade of research on effects of hexachlorophene, say that concentration of the chemical in a consumer product "has much to do with its effects on bacteria."

Corner told the American Society for Microbiology last week that relatively large amounts of the chemical are used where small amounts are all that are needed.

"Hexachlorophene is most disruptive to cells at high and medium concentrations," Corner said, "but it acts in a more subtle fashion at lower concentrations. Concentrations that are still lethal to the bacteria."

The cell wall of a bacterium, crudely similar to the shell around an egg, seems to disrupt the membrane and then small, vital molecules leak from the bacterial cell membrane.

Finally, at even higher concentrations, the hexachlorophene copulates contents of the bacterium, much as heat coagulates the white of an egg.

Is hexachlorophene safe for the "educated" consumer?

**Withholding deadline near**

Previously filed W-4 E withholdings forms have expired, and students need to file new forms if they want their wages to be exempt from federal tax withholding. To qualify, a student must not have owed any income tax last year and expect not to owe any this year.

Friday (May 5) is the deadline for students on the graduate student payroll to file exemption certificates at the Payroll Division (350 Administration Building) in time for the next pay period May 12 is the deadline for other students.

**Clyde Dow dies April 25**

Clyde W. Dow, professor of teacher education at Michigan State University, died last week (April 25) in Prescott, Ariz. He was 64.

Mr. Dow, was coordinator of MSU's student teaching activities in the Lansing area for 12 years until he retired in 1976 and was to retire in September.

Born in Wakefield, Mass., he held a bachelor's degree from Emerson College, Boston, a master's from the University of Massachusetts, and the Ed.D. from MSU.

He taught English at the University of Massachusetts and the University of Denver before joining the MSU English faculty in 1945. He was acting head of the Department of Written and Spoken English in 1948-49, and associate professor in that department through 1955 when he became a professor of teacher education.

Mr. Dow is survived by his widow, Wilma, and two daughters, Mrs. Ruth Thurlby of Lansing and Mrs. Judith Clinton of Mulliken. His ashes were taken to Massachusetts for burial.

**Despite thefts, the show goes on**

Seven inmates of Southern Michigan Prison got an unhappy object lesson about crime last week. Eight of their paintings — on display for an art show — were stolen.

The thefts temporarily jeopardized the future of the inmate art program sponsored by a host of MSU academic departments and the State Department of Corrections. Security of the art works was never a problem in the program's first nine years.

But this year's show will go on, said William S. Gamble, associate professor of art who discovered the overnight thefts from his arrangements in the corridors of Cell 660. Thirty - one works by 16 inmate artists had been selected to be shown at MSU starting Monday and continuing through June 17.

A value of $491 was placed on the stolen pieces by Gamble, a consultant to the program since its start at the Jackson prison in 1962. Sale of the art works has been encouraged each year as having a "rehabilitative value" for the inmates.

Two of the inmate artists are instructors for the art program sponsored by the Center for Urban Affairs, Departments of Art and Psychology, Schools of Criminal Justice and Social Work, Volunteer Programs and Continuing Education Service.

**MORE FOR TRAVEL**

Central Michigan University will have more liberal travel allowances beginning July 1. A new policy eliminates per diem rates for hotel and food reimbursement, raises both in-state and out-of-state meal allowances, and raises the mileage allowance for private cars from 10 to 11 cents a mile. The new meal allowances are $5.25 a day for in-state and $10 a day for out-of-state travel, MSU now pays 10 cents a mile, $8.50 a day in-state meal allowance, and $9.50 a day out-of-state meal allowance.

CRedit to ROTC. A legal opinion at the University of Colorado has overruled a faculty motion passed two years ago to deny ROTC courses in the College of Arts and Sciences. The legal opinion, by the cu resident counsel, reaffirmed the university's contracts with the ROTC units and ruled that the faculty motion of May, 1970, was "advisory only." Since that motion was passed, students in the college had not been receiving credit for ROTC courses.

ACCELERATOR CLOSED. Lack of funding has forced Princeton University to close its $40 million particle accelerator and place the facility on standby. Princeton Pres. Robert F. Goheen said that while various federal agencies and private foundations had been contacted, no funding was available. The facility was opened 15 years ago (with support from the Atomic Energy Commission) and since last year had been the scene of research on the physics and radiobiology of heavy ions relevant to their proposed use in cancer therapy.
Wharton: Build black intellectual power

Entry of more blacks into university graduate programs is the key to wider use and influence of black intellectual power, President Wharton said last week (April 28) in an address at the second annual symposium on the "State of the Black Community." The president said that efforts to encourage blacks and other minorities to enter graduate study in science, business and other areas where they are underrepresented.

Here are excerpts from that address, "Reflections on Black Intellectual Power."

... It is often said that the problems of the black community have been studied to death and that nothing ever results. My answer is that the problems will not be fully understood until we comprehend intellectual power.

... While there is a deplorable continuation of income differentials between blacks and whites with comparable levels of education, the fact remains that education, and especially higher education, continues to be a major factor in the progress of black society.

Recent years have witnessed a dramatic increase in the total number of blacks attending colleges and universities ... even more significant has been the shift in attendance patterns toward predominantly white institutions.

The predominantly black institutions must continue to provide education for large numbers of our youth for whom this is the only access to higher education ... These institutions must be strengthened if additional doubling of black enrollments is to be achieved by 1980. The strengthening of the predominantly black institutions must be placed high on the agenda of any program aimed at an increase in black intellectual power.

THE RAPIDITY WITH which the predominantly white institutions have responded with escalating enrollments of black students has brought in its wake a host of pure stemmed from the lack of prior preparation or planning for such students and the absence of prior experience with students from such backgrounds.

First there is the challenge of moving black students away from traditional fields such as education and into neglected fields such as science... They must acquire marketable skills which lead to positions of influence and power.

The second major challenge to such institutions is internal — how to provide a meaningful and relevant education.

The third challenge involves the orientation of higher education whether based upon socio-economic factors of birth or educational attainment is crumbling. Admitting only the bright 10 percent of high school graduates and then spewing them forth four years later is no longer accepted as a valid discharge of our educational obligation.

Educating the talented and gifted youth, while important and rewarding, does not challenge the intellectual skills of our colleges and universities. The greater challenge and opportunity lies in successfully meeting the educational needs of the wider society.

I believe that the truly great university is one which can provide education to the National Merit Scholars as well as the educationally disadvantaged, to the on-campus youth as well as the obsolete adult professionals.

EVEN GREATER disagreement has taken place over the relevance of blacks of current course offerings and curricula. Early recall the push for "Black Studies" programs. It is no accident that this early push has waned as many graduates fail to meet the test of marketability. Some feel that sorts and local public administration do require alteration either to include neglected dimensions to influence new competencies. Others such as brain surgery or computer science do not have special ethnic traits and who are qualified to enter specific graduate disciplines where minorities are in short supply.

The goal is clear. If the black economy is to prosper, if the black society is to forge ahead, if our black people are to flourish, we must strengthen and expand our base of intellectual power.

Two urban affairs models offered in report from EPC

Two alternative models — one for a degree-granting, college, and the other for a less formal, voluntary, community program have been presented by the University's Educational Policy Committee.

The EPC released the two proposals to the Academic Council Tuesday and reported that it "expresses no preference for one over the other." They will be discussed by the Council on May 15.

The proposals are the result of a March resolution by the Board of Trustees affirming MSU's commitment to solving urban problems and asking that President Wharton present a proposal at the Board's May meeting.

One of the EPC proposals would create a College of Urban and Metropolitan Studies to provide degree programs within a "formal set of relationships with existing units." The other proposal — for an Office of Urban and Metropolitan Programs and Studies, and for a School of Racial and Ethnic Studies — would be "horizontal in thrust and emphasize information and community relationships."

In its report, EPC listed several similarities including: Either unit would be headed by an endowed chair professor, established with proceeds from the development of urban metropolitan programs; each would relate ongoing urban research to its problem-oriented activities; creation of a racial and ethnic studies unit; emphases on research to develop a knowledge base; and an extension function to consult with and coordinate with existing MSU public service activities.

EPC argued that one of either a college or another unit, once selected, "work with selected faculty or a regular faculty group to design specific graduate programs for the proposed academic unit so that the programs will have maximum acceptance in the University community."

Petition... (Concluded from page 1)

percent of the cards from the unit it has defined. The AUP unit, however, includes department chairmen, chapter presidents, and department heads. It is expected to consult with one of the listed faculty members, according to the McS model.

The McS includes a listing of mathematics faculty and specialty areas. The idea is for faculty or graduate students in other departments, with a penchant for mathematical problems or "a problem which appears to be amenable to a mathematical treatment," to feel free to consult with one of the listed faculty members, according to the McS model. It is a voluntary effort from mathematics faculty, and is further explained as a rejuvenation of the field through reaching out for new areas of research. The model of short lifespan, McS has received several responses, Tomber said, from such varied departments as dairy, philosophy, economics and management, besides human medicine, physiology and music.

Need a mathematician's help? Math faculty offers its services

The mathematics department does not want the campus community to think that mathematicians are necessarily introspective or indifferent, according to Marvin Solomon, professor of mathematics. So the Mathematics Consulting Service (MaCS) was set up to provide help.

And now mathematicians are helping legendary instructors figure a mathematical formula to determine the best placing of holes in a flute for the best tone. Another mathematician is working on baby pigs with the College of Human Medicine in trying to figure how infants absorb glucose. Distinguished Professor of Economics, is to be installed as national AUP president.

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Nature's show: From crocus to tulip

For those with lingering doubts, it is spring, and the campus is ablaze to prove it.

In the Horticulture Gardens north of the Natural Science Building, the crocus, squill, grape hyacinths and narcissus (Jonquil) are in bloom. And across campus, trees are beginning to flower. Cornelian cherry trees in Beal and by Yaley Hall; witch hazels in Beal and by the International Center; the Kwanzon Japanese flowering cherry trees by the library and Gilchrist Hall.

Some of the major concerns facing MSU — decreases in financial support and in public confidence, potential unionization of faculty, student complaints about quality of instruction, and admissions criteria — constitute an "especially potent mix" of problems, according to Provost John E. Cantlon.

Environmental law is topic

Joseph L. Sax, a noted environmental law professor and author will present the Distinguished Lecture in Agriculture and Natural Resources this week, on "Cost and unionization" especially potent and admissions criteria — constitute an especially potent mix of problems, according to Provost John E. Cantlon.

In a speech last week (April 27) to the Faculty Women's Association, Cantlon cited the fact that state and federal appropriations to higher education are decreasing in budget percentages. In Michigan, four-year institutions received 20.2 percent of the general fund in 1967-68, and that has dropped to 17.3 percent in 1970-71, Cantlon said.

"This clear expression of priority change is accompanied by multiple expressions from public and private figures of a lessening in confidence in universities as problem solvers and as producers of problem solvers," he said.

He spoke of the problem of legislative riders on appropriations bills, a lack of understanding and appreciation of the total mix of university-related activities, particularly "research and scholarly activity." And, he said, as students complain that such activities are not relevant to their undergraduate instruction, legislators take note.

"Restoration of real public confidence will be a long, slow task," Cantlon said. "It hardly helps when political figures, student leaders, faculty and, on occasion even individual trustees, publicly join in attacking a university administration."

But the provost said his complaint was not with criticism per se — "if one runs any organization primarily to avoid criticism that organization will go nowhere" — but rather with "the nonconstructive, frequently malicious criticism mostly devoid of specifics and often heavily laced with inaccuracies." Cantlon also spoke at some length about the trend of faculty collective bargaining.

"Some kind of convention seems to exist that university administrators should make no statements concerning unionization of university faculty," Cantlon said. "I've never been much for conventions but believe in candor."

He said it was his "personal bias" that "from the administrator's narrow perspective," a university with a unionized faculty would be easier to run than the "present messy coalition wherein faculty are, indeed, much involved and consulted in decision making."

He said he thought unionization would tend to downgrade merit in reward systems, causing "the scholarly dimensions of the institution" to suffer; that competent scholars would be more easily lured away "to institutions left free to bargain for talent."

And Cantlon said he thought no really first-rate university will be unionized, including the MSU faculty.

The University administration is interested in "fostering the best possible relationships with its faculty and staff," he said, and it will continue to demonstrate that by trying to stay competitive in salary, fringe benefits and maintenance of a healthy intellectual environment.

"We must avoid the harm that will come to universities if we are so naive as to confuse student-faculty relationships with the labor-management relationships that have emerged in the private industry sector," Cantlon said.

He spoke of many other administrative problems — for example: Large student residence hall investments coupled with a legislative pars to enroll more upper level students when only freshmen are required to live on campus; the problems of nonreappointment of nontenured faculty; admissions and enrollment shifts, etc.

He listed several things public universities need to do:

"Recognize the general public and their representatives in the various legislatures that there is societal as well as individual gain in widely available higher education, and that the recent trend of declining public support must be arrested and soon reversed."

"Improve productivity within the university while maintaining or enhancing the quality of services."

"We must be exceedingly careful to protect the major university task of generating new knowledge and insight. No period of stress should be permitted to dry up research and scholarly endeavor in any institution worthy of the name 'university.'"

"We need to focus on the core of each of the University's main missions and design our programs and procedures to optimize progress toward these goals."

"We must work harder at raising funds from the private sector...."
JOHN J. APPEL, professor of American Studies, but not to the provost, is a newly elected member of the executive committee of the National Commission on Accrediting. Coler has also been elected vice chairman of the Associated Universities on Accrediting.

The good news, reported J. Henry Backus, assistant professor of the Administrative-Professional Association, is that the University plans to hire a consultant to do an independent study of the classification system for A-P employees and some of the clerical clerical levels. Recommendations from the consultant are expected this fall, Backus said.

And now, the bad news: A-P Association President William Kenney, associate professor of chemistry, has won the 1973 Coalition of Graduate Prizes in Molecular Spectroscopy. The award goes annually to scientists under 36 years old who have published outstanding research in molecular spectroscopy.

More and more college students are turning to criminal justice as a field of study — so many, in fact, that MSU has had to limit its enrollments. Increasing awareness of the crime problem and increasing financial support from Washington have helped to nearly double enrollment in MSU's School of Criminal Justice in the last 18 months.

In the fall of 1970, 620 undergraduate and graduate students were enrolled. This spring, 1,086 of them are overflowing classrooms and putting a strain on the faculty, which has not expanded proportionally.

The School of Criminal Justice is not a "police academy" in the sense that it graduates ticket-writing, criminal - justice graduates are prepared for leadership roles in parole, probation, and corrections departments, police service and court administration. The present warden of Jackson (Michigan) State Prison is an MSU criminal justice graduate.

Brandstatter attributed the recent jump in student numbers to several factors. First, he said, "There has been increasing attention, nationally, to the problems of crime, courts, law enforcement and corrections. This has created more student interest in our program."

"In addition, the number of two-year colleges offering criminal justice courses has increased dramatically since federal funds became available through the Office of Law Enforcement Assistance Administration," Brandstatter says.

There are presently 22 such colleges in Michigan. Their graduates are now seeking further training in four-year institutions such as MSU.

Brandstatter points out that direct student financial aid from the federal Law Enforcement Education Program further encourages increased enrollments.

The Alumni Association's trustee selection committee on the Democratic ticket has scheduled an open meeting for Monday (May 8) at 4 p.m. in the Union Ballroom.

Patrick J. Wilson, chairman of the Democratic committee, said the meeting will be "an open forum to permit expressions of public opinion concerning prospective trustee qualifications.

He cautioned that the forum was not for the purpose of announcing candidates, although the names of prospective candidates and their qualifications would be welcome.
COUNCILS MEET

The Elected Faculty Council will meet at 2 p.m., Tuesday, May 9, in 109 Anthony. An Academic Council meeting will follow at 3:15 p.m., also in 109 Anthony.

STEERING COMM.
The Steering Committee will meet at 3 p.m., Monday, May 8 in 443A Administration Bldg. to set the agenda for the Academic Senate meeting May 17.

HOliday SCHEDULE
There will be no classes and all offices will be closed on the following holidays: Memorial Day, Monday, May 29; Independence Day, Tuesday, July 4; and Labor Day, Monday, September 4.

RETIREES CLUB
The Retirees Club will hold its last meeting of the year at 1 p.m. Monday, May 8, in the Club Room of the Union following the regular noon luncheon. After a business meeting and election of officers, Elton Hill will speak on "My 50 Years at Michigan State."

TROPICAL STUDIES
The Tropical Studies Group will meet at 12:30 p.m., Wednesday, May 10 in 204 International Center. Dale Harpstead will discuss "Problems of Food Production Associated with Subsistence Agriculture in the Tropics." The meeting will be preceded by lunch in Parlor C.

C.K. YANG
C.K. Yang, professor of sociology at the U. of Pittsburgh, will speak on "Observations on My China Trip," at 3 p.m., Thursday, May 4, 104B Wells, under the sponsorship of the departments of anthropology and sociology and the Asian Studies Center.

ANTIQUE GROUP
The Faculty Folk Antique Group will visit Honolulu House, the governor's mansion and the restored school house in Marshall, Michigan, on Tuesday, May 9. Members should meet at Honolulu House at 10 a.m. Riders may be arranged by calling in Parlor C.

BOSSES' LUNCHEON
The MSU Business Women's Annual Bosses' Luncheon will be held at noon Wednesday, May 17 in the Big Ten Room of Kellogg Center. Guest speaker will be Lillian Hicks of Detroit's Fisher Theater, who will speak on "Theater Today." Reservations and checks must be sent by May 10 to Fleurette Bodell, 5-8908. Cancellations will be accepted until Friday, May 12.

SEMINARS

MONDAY, MAY 8, 1972
Perithelial initiation in Ceratocystis ulmi. Harold G. Brozman, 4:10 p.m., 168 Plant Biology (Botany & Plant Pathology).
The origin of astrophysical magnetic fields. Eugene N. Parker, U. of Chicago, 4:10 p.m., 118 Physics Astronomy (Physics).
On the mechanisms of action of the cardiac glycosides. Theodore M. Brody, 4 p.m., 216 Giltner (Physiology).

TUESDAY, MAY 9, 1972
Photoelectron Spectroscopy. David A. Shirley, U. of California, Berkeley, 8 p.m., 136 Chemistry (Chemistry).
Peasant demand patterns and economic development: A case study. Jan Devries, 10:30 a.m., 211B Kerby (Economic Development).
The effect of normal stress on the critical resolved shear stress of zinc single crystals. J.A. Barendreght, General Motors Research Center, 4:10 p.m., 312 Engineering.
Agricultural technology and food for people. Sylvan Wittwer, 12:30 p.m., 102 Human Ecology (Food Science & Human Nutrition).
Free fatty acid formation in and effect on fish muscle. Shinichi Kyan, 1:40 p.m., 110 Anthony (Food Science & Human Nutrition).
Oligosaccharides of some monostevioses. George Lolas, 4:10 p.m., 110 Anthony (Food Science & Human Nutrition).
Murine tumor viruses: genetic aspects. John Stevenson, National Cancer Institute, 4:10 p.m., 146 Giltner (Microbiology & Public Health).
Thyroid metabolism in the guinea pig. A.J. Pals, 4:10 p.m., 346 Giltner (Pathology).
Psychiatric studies on Shamanism in Taiwan. Wen-Shing Tseng, National Taiwan Hospital, Taipei, 10:30 p.m., 205B Life Sciences Building (Psychiatry, Anthropology, Asian Studies Center).

POETRY READING
Michael Hamburger will be reading his poetry at 8 p.m., Thursday, May 11, in 35 Union. His visit is sponsored by the Department of English.

SOUTH AFRICA
Harl J. dellbl of the U. of Miami will speak on "South Africa: Bantustans and Buffer Zones" at 1:50 p.m., Friday, May 5, in 304 Natural Science.

UNIVERSITY CLUB
Food, music, artwork, handicraft, movies, and dances from Denmark will highlight the evening of Saturday, May 6, at the University Club. Reservations must be made in advance.

CHILD LANGUAGE
Courtesy Cazden, professor of education at Harvard University, will speak on "Child Language and Education" at 10:15 a.m., Thursday, May 4, in the Con Con Room of the International Center.

COURSE IDEAS!
Faculty and staff members interested in teaching the noncredit course program for Fall 1972 Evening College should submit course ideas to Charles A. McKee, 19 Kellogg Center, 5-4562.

POTTERY SALE
MSU pottery students and the Pottery Guild will hold a sale from 10 a.m. to 6 p.m., Friday, May 5, and from 9 a.m. to 5 p.m., Saturday, May 6, in the Union concourse.

FACULTY FOLK
Max Ellison, noted Bellaire, Mich., poet and sometime farmer, will speak before 400 members of Faculty Folk at their annual spring luncheon, Friday, May 12 in Kellogg Center. Scholarship winners will also be announced. Nursery reservations may be made by calling Mrs. C.R. Halverson, 337-0184 or Mrs. J.S. Bolen, 351-0423.

LECTURE-CONCERT
May 12 is the deadline for current season ticket holders to reserve their same seats for the 1972-73 Lecture-Concert subscription series. Series "A" and "B" are offered on a reserved-seat basis only. For the Chamber Music Series at Fairchild Theatre, seats are unreserved. Current patrons wishing to make changes in seating location or series are requested to visit the Union Ticket Office on May 16-17. May 18-19 are reserved exclusively for MSU faculty-staff to make seating selections as new patrons. On May 22 the season ticket sale opens to all new subscribers. For further information contact the Union Ticket Office, 8:15-4:30 p.m., weekdays, 5-3361.

WEDNESDAY, MAY 10, 1972
Carbon-nitrogen ratio. Dr. George A. Bogtstrom, 4 p.m., 131 Anthony (Institute of Nutrition Graduate Student Assoc.).
TMV synthesis in tobacco tissue culture. Lawrence E. Pelcher, 4:10 p.m., 168 Plant Biology (Plant Pathology).
Liverpool '71: An experience in social work abroad. Sherron Cranmer, 2 p.m., 117 Bessey (Social Work).

THURSDAY, MAY 11, 1972
Differentiation of chondrocytes. Albert Dorfman, U. of Chicago, 4:10 p.m., 101 Biochemistry (Biochemistry).
Wind blown soil as a factor in the epidemiology of bacterial leaf-spot of alfalfa and common blight of beans. Larry Claffin, 4:10 p.m., 168 Plant Biology Lab (Botany & Plant Pathology).
Can a computer think? Charles Johnson, 4 p.m., 402 Computer Center (Computer Science).
The effects and fate of copper in aquatic ecosystems. Alan Mclnrou, 1:30 p.m., 221 Natural Resources (Fisheries & Wildlife).
Some postmortem alterations affecting bovine muscle tenderness. Gary Gann, 4:10 p.m., 110 Anthony (Food Science & Human Nutrition).
Mercury in foods. Mando Gomes, 4:10 p.m., 110 Anthony (Food Science & Human Nutrition).

FRIDAY, MAY 12, 1972
Agricultural research productivity. Robert Eveson, U. of Chicago, 3:30 p.m., 304 Agricultural (Agricultural Economics).
Paleoecological reconstruction. Ronald O. Kapp, Alma College, 3 p.m., 204 Natural Science (Zoology).
## Calendar of Events

### Friday, May 5, 1972
- **3 p.m.** Tennis—Illinois vs. MSU, Varsity Courts.
- **3 p.m.** Baseball—Michigan vs. MSU, John Kobs Field.
- **8 p.m.** "The Last Question"—This science fiction spectacle in the sky theatre was written by Isaac Asimov. It explores the theory of entropy, which maintains that all the life-giving energy of the stars is being drained. Abrams Planetarium.

### Saturday, May 6, 1972
- **7 a.m.** Morning Bird Walk. Fenner Arboretum Nature Center.
- **9 a.m.** Small Animals Day—Featuring new born baby animals, the University Farms will be open for visitors until noon. It is requested that those participating park in the commuter lot and use the available bus service.
- **10 a.m.** Nature walk—Participants will explore the Sanford Woodlot and should meet on the sidewalk at E. Shaw Lane and Hagadorn Rd.
- **1 p.m.** Women’s Softball—Doubleheader with Calvin College. Men’s IM Fields, Diamond No. 8.
- **1 p.m.** Tennis—Purdue vs. MSU, Varsity Courts.
- **2 p.m.** Lacrosse—Kenyon vs. MSU, Old College Field.
- **2 p.m.** Track—Ohio State vs. MSU, Ralph Young Field.
- **2 p.m.** Nature walk. Fenner Arboretum Nature Center.
- **2 p.m.** Dimensions in Black Theatre—Candy Shannon will direct "Blood Knot."
- **2:30 p.m.** "The Last Question" (see May 5). Abrams Planetarium.
- **7:15 p.m.** Dimensions in Black Theatre—"She and Me" will be directed by Carol Wilson. Fairchild Theatre.
- **8 p.m.** "The Last Question" (see May 5). Abrams Planetarium.
- **8 p.m.** World Travel Series—In the final offering of the year, Walter Breckenridge will explore the "Far, Far North." Auditorium.
- **8:30 p.m.** Campfire program—Slides and information concerning the ecology and reproduction of wild foxes will be presented. Dimensions in Black Theatre—"Joy," a musical come­
- **9:15 p.m.** Nature walk—Participants will explore the Sanford Woodlot and should meet on the sidewalk at E. Shaw Lane and Hagadorn Rd.
- **9:30 p.m.** Flashlight hike. Fenner Arboretum Nature Center.

### Sunday, May 7, 1972
- **2 p.m.** Nature walk through Baker Woodlot. Participants should meet at the parking lot of the Natural Resources Bldg. parking lot.
- **4 p.m.** "The Last Question" (see May 5). Abrams Planetarium.
- **4 p.m.** Concert—The Women’s Glee Club will perform under the direction of Ethel J. Armeling. Music Auditorium.
- **8:15 p.m.** Concert—The State Singers will be featured under the direction of Ralph A. Harris. Edgewood Church.
- **8:30 p.m.** Evening Campfire Program. Next to Red Cedar west of the Women’s IM Bldg.

### Monday, May 8, 1972
- **1 p.m.** Golf—Oakland vs. MSU, Forest Akers Course.
- **7:30 p.m.** Night nature hike. Rose Lake Wildlife Research Area headquarters, Stoll Rd.

### Tuesday, May 9, 1972
- **12 p.m.** University Club luncheon—Ronald Chen will speak.
- **2 p.m.** Baseball—Doubleheader with Detroit. John Kobs Field.
- **3 p.m.** Midwest Film Festival—Film program A. Fairchild Theatre.
- **4 p.m.** Midwest Film Festival—Film program B. Fairchild Theatre.
- **5 p.m.** Midwest Film Festival—Film program C. Fairchild Theatre.
- **7 p.m.** Midwest Film Festival—Film program D. Fairchild Theatre.
- **8 p.m.** International folkdancing—Instruction will be given at 8 p.m. and dancing will begin at 9 p.m. St. John Student Parish, 327 M.A.C.
- **9 p.m.** Midwest Film Festival—Film program E. Fairchild Theatre.

### Wednesday, May 10, 1972
- **6:30 p.m.** Concert—The MSU Band will perform on the steps of the Capitol Bldg.
- **7 p.m.** Midwest Film Festival—Film program E. Fairchild Theatre.
- **7:15 p.m.** Concert—The MSU Wind Ensemble will be featured with Ralph Votapek, pianist. Okemos High School.
- **9 p.m.** Midwest Film Festival—Film program D. Fairchild Theatre.

### Thursday, May 11, 1972
- **1 p.m.** Nature walk. Rose Lake Wildlife Research Area headquarters, Stoll Rd.
- **3 p.m.** Midwest Film Festival—Film program F. Fairchild Theatre.
- **7 p.m.** Midwest Film Festival—Film program F. Fairchild Theatre.
- **7 p.m.** Midwest Film Festival—Film program A. Fairchild Theatre.
- **7:30 p.m.** Night nature hike. Fenner Arboretum Nature Center.
- **9 p.m.** Midwest Film Festival—Film program B. Wilson.
- **9 p.m.** Midwest Film Festival—Film program B. Fairchild Theatre.
- **9 p.m.** Midwest Film Festival—Film program B. Wilson.

### May 12-14
- **Gull Lake English Festival, Gull Lake Conf. Center**
- **All conferences will be held in Kellogg Center unless otherwise noted.**
- **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.**

### Hidden Lake Gardens
- **Daffodil, primrose, tulip, magnolia, and flowering cherry varieties are normally conspicuous in the early May blossom show.**

### Beerl Garden
- **Spring bulbs are concentrated around the Women’s IM Building. The large saucer magnolia should be in full bloom this weekend.**

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### Information on MSU events may be submitted, for possible inclusion in the bulletin, to Patricia Grauer, Dept. of Information Services, 109 Agriculture Hall, 5317-353-8819.

**Deadline for submitting information is noon Tuesday preceding the Thursday publication. The calendar of events will cover an 8-day period, Friday through Saturday.**