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MSU News - Bulletin

Vol. 4, No. 30.

Michigan State University

May 25, 1973

In State of U address

Wharton focuses on lifelong ed

President Clifton R. Wharton, Jr., delivered his annual State of the University address last night in 109 Anthony Hall. In it, he called for a commitment to the goals set forth in “The Lifelong University,” the recently released report of the Task Force on

Lifelong Education. The text of President Wharton's address follows.

Customarily, the State of the University Address reviews our progress as an educational institution over the span of the year past. We take stock, count our gains, measure our losses. We

look back and say, “Where have we been?”

During 1972 - 73, Michigan State University has witnessed important developments and innovations. Let me mention just a few.

* The Academic Council has voted to begin a review and evaluation of the academic governance system. I think we

are all agreed that while the committee structure is an effective tool, it lately has become burdensome with over-large bodies and other problems. I commend the Council for its initiative in seeking reforms.

* The Colleges of Human Medicine and Osteopathic Medicine have continued to grow in enrollment and educational capacities. Human Medicine recently has expanded its regional programs, thus contributing to improved community health services while providing medical students with more opportunities for applied learning experiences. Osteopathic Medicine, meanwhile, will hold its first hooding ceremony this spring.

* The Office of the Provost has completed a major review of our three residential colleges — Justin Morrill, Lyman Briggs, and James Madison. By evaluating their educational objectives and the degree to which those objectives have been met, we hope to contribute to the continuing improvement of the residential learning experiment.

* The College of Urban Development has moved closer to instructional operations, with formal trustee approval of two departments, their faculties, an acting dean, and two acting department chairmen. A Search and Selection Committee to recommend a permanent dean has gotten underway and first classes will begin this fall.

* The Academic Council, through several of its standing committees, has set in motion a major revision process relating to Michigan State University's general education component. The process, in all likelihood will evolve over several years, strengthening and renovating this institution's commitments to the arts, humanities, and social sciences.

* Governor Milliken has included in his 1973 budget message a recommendation for \$688,000 for a College of Law at Michigan State University. Pending favorable action by the legislature, a freshman class could enter as early as January 1974.

* The Center for Environmental Quality has moved further toward the integration of its commitments into the courses and activities of academic units throughout the University. Additional dimensions of environmental instruction and research are currently emerging from such projects as biological control and pesticide programs; ecosystems management programs; and investigations into urban and agricultural product recycling.

* Planning for the proposed Performing Arts Center has gathered momentum. An Ad Hoc Steering Committee has been reviewing centers in Michigan and other states preparatory to recommending an architect, and a film on the University's needs in this area has been produced.

“Where are we going?”

But rather than review a record familiar to you all, tonight I want to talk about the future. I want to ask not,

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Holly L. Schrank

Intern named

Holly L. Schrank, assistant professor of human environment and design, has been selected to fill MSU's first Academic Administrative Internship for Women.

Created as part of the University's affirmative action program for women, the internship was one of 21 recommendations made by the administration last July to improve the status of women on campus.

Miss Schrank will serve as an administrative intern working with Dean Lois A. Lund of the College of Human Ecology during the coming academic year.

A member of the faculty since 1970, she holds B.S. and M.S. degrees from Stout State College, Menomonie, Wisconsin, and a doctorate from The Ohio State University.

She was a high school teacher in Joliet, Illinois and an instructor at Heidelberg College, Tiffin, Ohio, before coming to MSU.

The College of Human Ecology was selected for the first internship because it has more women in the tenure stream than any other campus unit — 84.2 percent.

The internship program is designed to give women an opportunity to participate in administration and help them determine if they want to pursue an administrative career.

In announcing the program earlier this year, Dorothy Arata, assistant provost, said the purpose was not to train administrators, but to “provide a situation where a woman can identify with top level administrators and have the opportunity to demonstrate to herself that she can carry this type of responsibility.”

Public health programs aided by Kellogg grant

A grant of \$535,526 has been awarded by the W. K. Kellogg Foundation to assist the College of Human Medicine and College of Osteopathic Medicine in developing a cooperative program to improve the delivery of public health services in three of Michigan's local health departments.

Formal acceptance of the Kellogg funds is anticipated at the today's meeting of the Board of Trustees.

Administrator of the four-year grant will be the college's Office of Health Services, Education and Research.

Expected to eventually outline new dimensions for the state's public health system, the health department - MSU partnership also will provide expanded training for students in the College of Osteopathic Medicine and College of Human Medicine.

The new program brings together cooperative effort from the Michigan Department of Public Health, the two MSU medical colleges, and three local multi-county health departments:

* Barry - Eaton and Ionia Associated Health Departments,

* Thumb District Health Department (Tuscola and Lapeer counties),

* Branch - Hillsdale - St. Joseph District Health Department

The Kellogg grant, which contributes

about half the total cost of the project, will match funds received by the University through contractual relationships with local and state health departments.

A regional team - a public health administrator and a public health physician - will be appointed to work with the present staff members in each local health department. Each team will have medical - administrative functions that include responsibilities for education and evaluation.

Objectives of the program are to: strengthen state and local relationships; study alternative models for public health administration; improve retention of public health administrative personnel, and expand education of MSU medical students.

Close collaboration between the regional public health teams and the MSU medical faculties will enable broad use of University resources in solving local health related problems.

Physician team members will hold joint appointments as members of the MSU faculty and as employees of the local health departments.

The Bureau of Community Health, Michigan Department of Public Health, will participate in the continuing education and professional development

(Continued on page 2)

Trustees agenda set

The tentative agenda for the today's Board of Trustees meeting has been set to include:

1. Personnel Changes
2. Gifts and Grants
3. Bids and Contract Awards

Improvements to the Computer Center, Human Ecology Building, Jenison Fieldhouse, Library and WKAR studios.

4. Other Items for Action.

- * Extension of Interim Faculty Grievance Procedures
- * Board of Trustee Awards (scholastic)
- * Awarding of Degrees for June Commencement
- * Safety Improvements Near Veterinary Clinic

5. Progress Report

- * Affirmative Action Program

The Board will present its 1973 Distinguished Citizen Awards at a luncheon in the Centennial Room, Kellogg Center, at 12:30 p.m.

Recipients are Gladys Olds, Anderson, former Senator Frank Beadle and Mother Charleszetta Waddles.

'Frank Martin' award initiated by CUMREC

Frank B. Martin, director of data processing and founder of the College and University Machine Records Conference which has been meeting annually for 18 years, has been honored by CUMREC.

The Frank Martin Service Award, the highest annual award for distinguished service to CUMREC, was so named in recognition of his perennial support and his contributions to the profession.

Two recipients of the Frank Martin Award this year are Ernest R. Zimmerman, assistant vice - president of academic affairs at the University of Michigan, who last year authored the constitution of the organization, and Leo Corbaci, dean of administration at the University of Notre Dame, who in 1967 wrote the first charter.

The computerized speed of data processing at MSU, as elsewhere, has made for great efficiency in business processes and record keeping - the IBM computer can produce 1,100 lines of information per minute.

The human relationship that remains possible or becomes possible with such a system, came to light in recent weeks when the computer in the basement of the Administration Building provided instant information on the whereabouts of a woman student attending a night class. She was notified at once that she should go to a local hospital where permission was needed for an emergency appendectomy for one of her children.

Frank Martin began processing MSU data back in 1938, when he graduated on campus in Business Administration, and started what was then the Tabulating Department. He was on leave in the 1940s to take a master's degree at Harvard and for four year's military service, returning in 1946.

Frank Martin is proud of his Data Processing department, and happily shows it to those who gain permission to pass the security locks (sign in, get cleared, and somebody opens the first door for you; then stand back while the digital message is fingered in a concealed slot for the second door to open for you - it closes automatically in four seconds, so be quick).

For example, if you have a proper request for information on a particular student and you don't know his student number, you can find it by asking the computer terminal for the directory information (MSU students please note: the code number for students is 1), and the television - style screen (a 12" diagonal one) will list the student by name and student number.

The MSU data processing centers on three areas: student records, University Business Office, and the catchall University General.

Student records are handled for admissions and the registrar, with every student's records kept up to date.

The business office data related to some 50,000 checks a month, 18,000 statements a month, 16,000 student scholarships a term, 18,000 accounts receivable a month, 44,000 students fees a term, and other business processes.

University General includes alumni records, about a million item analyses a month, weekly data on 2,500 apartments in married housing, and weekly reports on 19,000 residencies of students in halls, and the total library circulation control system.

Data Processing also serves 104 departments as billing points, with a combined work load of about one - fifth of the data processing capacity.

Martin says that, from the start, the MSU data process computer system has honored privacy. A "hard - wired" system is used with the 25 terminals located on campus; such a system allows operators at terminals to get only the



Frank B. Martin

information for which they have proper access. There are no "open" files. Further, the locks are changed at frequent but irregular intervals on those tricky Data Processing doors.

For the future, Martin sees more refinements, more in depth processing, and more computing tools to come.

For CUMREC, he sees continued growth. Every year more and more colleges and universities send representatives to exchange their experiences at the conference sessions. Some 400 schools attended the last meeting at the University of Wisconsin at Milwaukee, including people from Puerto Rico, Saudi Arabia and about 30 Canadian institutions.

FRAN MURRAY

... Grant

(Concluded from page 1)

activities, particularly in public health administration.

Directors of the project are Sidney Katz, director of the Office of Health Services Education and Research, College of Human Medicine; John M. Hunter, acting chairman of community medicine, College of Osteopathic Medicine, and John L. Isbister, chief of the Bureau of Community Health, Michigan Department of Public Health.

Project coordinator is Walter Stempel, medical consultant to the Bureau of Community Health, Michigan Department of Public Health.

Responsibilities of the regional teams include performing administrative functions prescribed by local health boards, teaching MSU medical students, and community problem solving.

Major goals of the local public health systems include providing uniform basic public health services to all Michigan residents through: preventive medicine and modern administrative practices; disease prevention, health education; patient care and rehabilitation; and prevention and control of environmental health hazards.

Deaths

Carl Gerlach, professor in the School of Urban Planning and Landscape Architecture and a member of the faculty since 1937, died on May 15. He was 64 years of age.

Ruth McKinley, 81, an MSU librarian from 1923 until her retirement in 1957, died on May 9.

Athletic Council activities reviewed

During the past year, the Athletic Council gave continued attention to the development of intercollegiate programs for women.

Charles Scarborough, associate professor of natural science and vice chairman of the Council, reported the group's activities at the May 16 Academic Senate meeting.

According to the report, recommendations by the council for administrative and financial support for women's programs were made to the administration. "There is strong support by the council for continued development of this aspect of the MSU athletic program."

The report also stated that the council "continues its examination of the financial crises facing intercollegiate athletics. Hopefully, acceptable solutions can be found."

"Another major value reaffirmed by the council was the commitment to a broad program of athletics with as great a number of participants as possible. During the 1972-73 academic year more than 900 student - athletes have participated as members of intercollegiate squads."

During the past year, the council participated in the national adoption of limitations of numbers of grants - in - aid for the various sports which was a development long sought by the Big Ten. The NCAA convention action enacting the limitations came about primarily through the efforts of the conference. Additional limitation in recruiting practices and expenditures proposed by the Big Ten were also adopted nationally.

In other senate activities, Provost John Cantlon reported on the review of departmental chairmen, the status of current academic plans for the College of Urban Development, the residential college review, and the Chairmen's Fall Workshop.

The Bylaws for Academic Governance (2.2.2.1.) requires "at intervals not to exceed five years the dean shall review the desirability of continuing the appointment of the chairman or director. At the same time the chairman or director should be consulted by the dean concerning his interest and willingness to continue."

Cantlon informed the senate that six reviews are being completed.

In the area of the College of Urban Development, Cantlon informed the senate of creation of two departments, and the appointment of acting chairmen: the Department of Urban Metropolitan Studies, Wilbur Brookover, acting chairman, and the Department of Racial and Ethnic Studies, Jack Bain, acting chairman.

The review for the three residential colleges has been completed, according to Cantlon.

"This review was mandated to take place after each of the colleges (Justin Morrill, James Madison and Lyman Briggs) graduated their first classes. Although Justin Morrill is seven years old, we decided to wait and do the review both as a composite of the three together and individually," he said. He stated that the results of the review indicate that all three residential colleges have a very high quality of instruction. "The colleges attract classes of above - average students, and the students seem well pleased with the curriculum," he said.

One of the main problems, according to Cantlon, is the high cost of these low production courses. "We have to find a means for rectifying this situation," he said.

On other information, Cantlon reported on the day - long workshop held March 24 for departmental chairmen and outlined the plans for a fall workshop.

According to Cantlon, the workshops

are necessary because many times department chairmen have little or no administrative experience.

"The workshops are established to ease the process of becoming a chief academic and administrative officer of the department and to make the process more effective," he said.

He added that the workshops are also planned to cover general and specific topics about MSU, academic governance and the roles of chairmen; making these roles more effective and more rewarding.

The results of the election for chairman of the Faculty Affairs and Faculty Compensation Committee (FAFCC) and members to the Steering Committee were announced at the senate meeting.

Richard L. Featherstone, professor of administration and higher education, was elected chairman of the FAFCC. He replaces Frederick Williams, professor of history, whose term expires June 30.

James Bonnen, professor of agricultural economics, was re-elected to the Steering Committee. Also elected were Erwin Bettinghaus, professor of communication, and Vera Borosage, professor of family ecology. They replace Walter Johnson, professor of administration and higher education, and Beatrice Paolucci, professor of family ecology, whose terms also expire June 30.

The offices for the two groups run from July 1 to June 30, 1975.

Phi Kappa Phi initiation held

Four faculty members were initiated into the MSU chapter of Phi Kappa Phi at the honor society's annual dinner and initiation ceremonies May 14 in Kellogg Center.

The four were Sam S. Basket, professor of English; Anthony J. Bowdler, professor of medicine; Gerhard Schneider, associate professor of forestry and fisheries and wildlife; and R. Keith Stein, professor of music.

Herbert J. Oyer, dean of the College of Communication Arts, assumed the presidency of the society from C. C. Morrill, retiring in June as professor and chairman of the Department of Pathology.

Also taking office were Dorothy A. Arata, assistant provost for undergraduate education, vice president; Vera Borosage, professor of family ecology and family and child sciences, secretary; J. Sutherland Frame, professor of mathematics, treasurer; Barbara Hanna, administrative secretary, University College, public relations officer; and Arthur W. Farrell, professor and chairman emeritus of the Department of Agricultural Engineering, executive secretary.

Justice Mary S. Coleman, associate justice of the Michigan Supreme Court, spoke at the banquet on the "Pursuit of Excellence in 1973."

Phi Kappa Phi, founded in 1897, is dedicated to the recognition and encouragement of superior scholarship in all fields of study.

MSU News - Bulletin

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Published weekly during the academic year by the Department of Information Services. Second-class postage paid at East Lansing, Mich. 48823.

Around the campus: A summary

Incomes studied

Spanish - speaking residents of Michigan have average annual family incomes below those of other white families, but they are "relatively better off" than their national counterparts.

This factor, says a University business researcher, indicates that Michigan "can expect above average growth in its Hispanic population."

David I. Verway, assistant professor and executive editor of the Michigan State Economic Record, says that in terms of median family income, Michigan Hispanics earn about \$1,500 less per year than the white population as a whole.

But nationally, he adds, the gap is even wider, or about \$2,200 per family.

Verway's report is contained in the latest issue of the Economic Record.

Using figures from the 1970 national census, the latest available, Verway notes that in 1969, Michigan Spanish - speaking families had a median family income of \$9,800, compared with \$11,300 for the total white population.

But he points out that those Spanish - speaking families are also larger than average - 4.27 per household compared with 3.26 for the state as a whole.

"Consequently, the gap in income per family member is relatively larger," he adds. On a per - family - member basis, Hispanics in Michigan are about 30 percent below the average income for all whites, Verway reports, but nationally the gap is 39 percent.

Verway makes these other observations about the some 120,600 Spanish - speaking residents of Michigan:

*About 40 percent are not native to Michigan, compared with 25 percent for all whites.

*"To enjoy their culture and, perhaps, because of economic and other social exigencies, these people have settled together, for the most part, in certain areas of the state." The largest "colonia" is in Detroit, followed by Saginaw and Lansing.

*A lower - than - average number of Hispanics in the labor force have college degrees, a condition reflected in their "occupational profile" of relatively few professional, technical and other white - collar workers.

*A higher than average number of Spanish - speaking people are physicians which is probably because "national policy favors medical practitioners" over most other immigrants due to shortages of medical professionals in the U.S. The average income of Spanish - speaking physicians, however, is lower than the average income of all physicians in the state.

*The unemployment rate among Hispanics in Michigan is higher in total, and among both men and women.

*Because they often don't have the resources for college or technical school education, "Latin men become family breadwinners and Latin women mothers at a younger age than their counterparts in the rest of the population."

Spanish - speaking residents tend to remain downtown to compete for factory and less profitable jobs "because of economic and sociological constraints as well as reluctance to forsake familiar neighborhoods."

The Michigan State Economic Record is published by MSU's Bureau of Business and Economic Research.

Drug topic selected

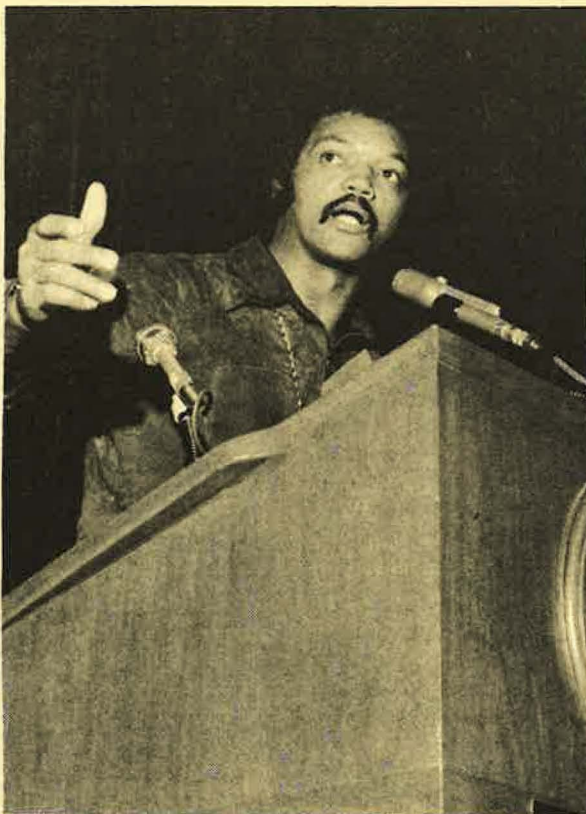
Use and misuse of drugs will be the focus of study and discussion in the Great Issues course this summer.

Philosophical, psychological, biological and psychiatric aspects of drug use and abuse will be discussed in the University College five - week course open to all students regardless of their major.

Campus speakers will include Andrew M. Barclay, associate professor of psychology; Arthur M. Vener, professor of social science; Lawrence W. Krupka, professor of natural science and chairman of the Great Issues course.

Guest speakers will be Edward J. Lynn, director of Community Mental Health at St. Lawrence Hospital; Gordon L. Steinhauer, associate director of the hospital unit; William F. Stevens, director of the Abuse Prevention Program of the Tri - County Community Mental Health Board; and a representative of Synanon in Detroit.

Starting June 20, classes will be held in Room 114 Ernst Bessey Hall, Mondays, Tuesdays and Thursdays from 10:20 a.m. to noon.



Jackson here Friday

The Rev. Jesse Jackson, director of Chicago - based Operation Push, addressed several hundred students and faculty and staff members Friday in the Auditorium in a program sponsored by Project Grapevine.

The former associate of the late Rev. Martin Luther King focused on morality in government and decried the lack of moral leadership indicated by such events as the Watergate scandal.

"At the highest levels of political authority in the country, the lights have gone out," he told reporters in a press conference preceding his speech.

During the speech, he said that society was in what he called a "civilizational crisis" and that blacks in America could not afford to remain in the "trunk" of the "car" that is society while present leadership in America drives it over a metaphoric cliff.

"Even though we are a numerical minority," he said, "we do not have to represent a minority in morality."

He told black students to leave the University not merely with a degree, but with the information needed to become a stronger factor in the political and economic systems of society.

Accompanying Jackson was the 100 - member Push Gospel Choir that brought the audience to its feet several times in its 45 - minute prologue to Jackson's talk.

Digressions

THREE YEARS AGO

Results of a questionnaire sent to members of the University's Administrative - Professional Association show that a job security statement, salary improvement and better longevity pay head the list of priorities among those A-P personnel.

TWO YEARS AGO

MSU is among nine universities helping to increase the number of black geographers and to improve geography programs at several predominantly black colleges. The University recently received \$25,000 from the U.S. Office of Education to finance its third year in a fellowship program sponsored by the Association of American Geographers' Commission on the Geography of Afro - America.

ONE YEAR AGO

MSU's faculty - on an average figured within all ranks - are among the nation's best paid in salaries and benefits, according to a survey of the American Association of University Professors (AAUP) reported in The Chronicle of Higher Education.

Chapter chartered

Members of the Michigan State University Chapter of the Society of Women Engineers received their charter Tuesday (May 22) at a dinner meeting in the Red Cedar Room at Kellogg Center.

The charter was presented by Naomi McAfee, president of the national society with headquarters in New York.

The MSU chapter was formed a year ago and has 17 members. About 90 women currently are enrolled in MSU engineering and computer science fields.

Nancy A. Sutate, sophomore in mechanical engineering, from Warren, Mich., will take office as 1973 - 74 president. Other incoming officers will be Linda Liszewski, sophomore in chemical engineering, from East Lansing, vice president; and Diana D'Angelo, junior majoring in mathematics and computer science, from Birmingham, secretary - treasurer.

Susan Bugher, a practicing engineer in Lansing, who graduated in civil engineering at MSU, is adviser to the MSU chapter.

NSF grant to Chen

The National Science Foundation (NSF) has announced its renewal of an \$180,000 project grant for research under the direction of MSU physicist K. Wendell Chen.

The professor of physics heads the counter spark chamber laboratory of the Department of Physics.

The grant is for Chen's high energy physics research effort entitled "Electromagnetic Structure of Nucleons." Most of the work will be conducted at the National Accelerator Laboratory at Batavia, Ill.

This grant will bring to a total of more than \$420,000 funds from NSF in the past year to support MSU high energy physics research.

Winning athletes

Winning athletes have two outstanding characteristics - calm self assurance and a belief that they influence their own lives, according to a MSU clinical psychologist.

Alan Friedman says "winners are usually able to take responsibility for their own actions very well while losing athletes tend to blame factors they have no control over."

This concept and others surrounding sports are being discussed as part of Friedman's "The Psychology of Sports" class currently being offered in Justin Morrill College.

Continuing on the subject of winning athletes, Friedman said an athlete becomes "centered in himself" as a result of early positive experiences.

"When parents allow a child to experience success and encourage him to master certain skills a positive sense of self develops," said Friedman.

"Children should be taught early that striving for a goal is to be valued," said Friedman.

According to him not all athletes are motivated by a positive sense of self alone.

"Many black athletes are geared toward the economic rewards of professional sports," said Friedman, "while others are interested in organizing black athletes and raising their consciousness in sports," he added.

Friedman and his students are developing a questionnaire for athletes and others involved in sports to examine motivation, ego development, self concept, and personality.

Certain sports myths, like professional sports being the haven of equality, are also being studied by the class.

"The sociological implications of economics in sports is another important aspect of the study because economics is more important than the athlete most of the time in professional sports," said Friedman.

He believes sports is implicit in government because both are run by dollars and politics. "It is not coincidental that many political programs are couched in sports metaphors," said Friedman referring to President Nixon's term "game plan" for the events in Vietnam.

... State of the University address

(Concluded from page 1)

"Where have we been?" but "Where are we going?"

For decades, teachers and the public at large have thought of education as a process taking place with formal K - 12 school systems and campus - based colleges and universities. Yet today massive societal forces compel us to revise our concept of education. We must face, among others:

- * An exponential increase in new information, techniques, and informational revision - a virtual explosion of knowledge;

- * Technological advances which are reshaping daily existence;

- * Rising personal expectations and greatly increased individual leisure time;

- * A growing awareness of economically and educationally disadvantaged groups;

- * The merging of new individual lifestyles.

For three decades and longer, these forces gradually have gathered. Now they present us with a demand we cannot ignore; a demand for education that extends over greatly increased periods of time - for lifelong education.

For Michigan State University, of course, lifelong education is no new thrust. Indeed, the very heart of the land - grant concept lies in its requirement that new knowledge and insight be made available to the widest public as soon as possible. The founders of this institution dedicated their lives to principles that are, in fact, identical to the assumptions which underlie lifelong education.

This was seldom the case, however, for other colleges and universities until recently. Now, a growing national awareness of the critical importance of lifelong education has led to major planning projects across the United States. Recent efforts include the Commission on Non - Traditional Study, chaired by Samuel Gould, and the Notre Dame Study on Continuing Education and the Future.

Task Force

In late 1971, the Michigan State University Commission on Admissions and Student Body Composition, building on 115 years of demonstrated capacities, recognized this institution's significant potential as an expanding lifelong educational resource for the citizens of the state.

In response to one of the commission's recommendations, I charged an All - University Task Force on Lifelong Education to investigate national and statewide issues in lifelong education, and then to suggest an effective and appropriate role for our own University. Funded by a grant from W. K. Kellogg Foundation, the Task Force deliberated for an entire year before recently releasing its final report, entitled *The Lifelong University*.

The report of the Task Force is advisory to me. During the last two weeks, my office has distributed copies to every faculty member, as well as other selected internal and external audiences. Copies have also been made available to all interested students and to the general public.

I have directed this broad distribution in order to gather reactions, comments, opinions, and additional data from the widest possible variety of Michigan State University's constituents. Once having gathered an initial reaction, I will determine whether to recommend to the Board of Trustees that it elevate the institution's priority in lifelong education.

Report

Now let us turn to the report itself. What does the Task Force on Lifelong Education suggest to the University community?

The report's first important point is that Michigan State University already is actively engaged in lifelong education. As I stressed earlier, Michigan State University is the pioneer land - grant

institution, so it should come as no surprise that many of its activities have been aimed at adult citizens throughout the state. The report emphasizes, however, that even beyond the familiar land - grant heritage, which for many years focused on agriculture, home - economics, and engineering, lifelong educational activities constitute a prime source of present institutional strength across the entire breadth of the University. To the inner - city social worker, the Ironwood agri - businessman, the K - 12 teacher, the county commissioner, the Detroit industrialist, or the Grand Rapids consumer group, lifelong educational activities are not merely a part of the University - they are the University.

The report proposes two avenues for expanding the University's involvement in lifelong education. One avenue is greater access for adult audiences to existing academic programs. To increase access, the Task Force provides recommendations for modifying admissions procedures, credit transfer, scheduling of academic and administrative services, residence requirements, and other policies and procedures.

A second avenue toward expanded involvement is through the creation of new programs - programs of special relevance to the adult audiences who seek ongoing learning at Michigan State University. One recommended new program is the Bachelor of General Studies, created to meet the needs of persons who desire a flexible curriculum combining humanistic studies and studies which may develop career skills.

Another suggested new program is the Community Lifelong Education Project which proposes a community - based University installation designed to cooperate with public as well as proprietary institutions in identifying and addressing educational issues in localities removed from the East Lansing campus.

Full integration

I have three comments on *The Lifelong University*. First, full integration of lifelong education into the existing spectrum of college and departmental activities is the most important theme of the report. Currently, few departments receive substantial budget allocations for providing lifelong educational services. Most faculty who undertake lifelong education assignments: do so in addition to their standard duties, and usually receive compensation according to an overload payment schedule. The Task Force recommends that Michigan State University tap the creative core of the University in its new role in society.

This does not imply, of course, that all faculty must then conduct lifelong educational instruction or research. On the other hand, faculty who choose to do so may pursue appropriate activities as a part of their regularly compensated responsibilities. The Task Force also recommends that criteria for salary adjustments, promotions in academic rank, and tenure should reflect the heightened priority of lifelong education.

Cooperative arrangements

Second, the Task Force recognized that the lifelong educational needs of the citizens of the State of Michigan are far too great to be undertaken by a single institution. Within the context of legal and other practical realities, therefore, the report suggests guidelines for cooperative arrangements among a variety of public and private institutions - not only community colleges and other universities, but secondary school systems, government, and private enterprise. The task before us is monumental - but so long as educational and other institutions communicate and cooperate, we need not worry about harmful competition.

Strategy for change

My last comment is directed to the Task Force's strategy for innovation and change. Rather than attempting to design a complete lifelong educational system, thoroughly articulated with detailed program content, specified geographic service areas, and enumerated audiences, the Task Force sought to initiate a "process."

The societal circumstances under which any educational effort takes place are in constant flux. Learning experiences appropriate in one year may be disadvantageous for the next. In searching for a process, organizational structure, and evaluatory mechanisms that could respond to changing conditions and decentralized responsibility, the Task Force displayed a sophisticated understanding of educational change unexcelled by any regional or national planning group.

Let us look, now, beyond the Task Force on Lifelong Education, beyond its report. What are the long - range implications of lifelong education - for this University, and for others?

My own experience and observations on current societal developments persuade me that higher education must, in the next twenty years, undergo major alterations and revisions in content, approach, and structure:

- * Regular learning sabbaticals for scientists, scholars, and executives;

- * Catch - up and updating opportunities for professionals;

- * Training or retraining experiences for homemakers and others who want to enter or re - enter the job market;

- * Enrichment opportunities for the disadvantaged who are seeking a fuller participation in the entire range of American culture.

Our historic vehicles such as continuing education, extension, and adult education have done yeoman's work with the resources that have been provided them. But now we must realize that the scope of educational needs to be met demand that we offer access to the entire range of University programs and capacities.

Lifelong education, if it is to be an effective answer to the problems we hope to address, must be interwoven into the fabric of the total institution. To the extent that we accomplish this interweaving, lifelong education will offer us a wellspring for personal and institutional renewal.

By rededicating itself to traditional lifelong educational commitments, Michigan State University will be able to resolve some of the thorny problems of the present.

"Either - or"

For example, until recently most people tended to think of career education and general education in "either - or" terms. Traditionally, the span of years given to formal higher learning was simply too short to provide adequate opportunity to acquire a broad liberal arts background and specialized career skills.

The student took his choice: a course of study grounded in the humanities and social sciences, or a course of study that would prepare him for a specific occupation. Few people could combine the two, and after graduation everyone assumed that the time for education was done.

Now the concept of lifelong education offers myriad avenues by which graduates can pursue both general education and career education. Lifelong education offers new vistas of learning to all, for whatever purpose. We no longer need think that career education and general education conflict, for we can choose the appropriate times in our lives for each.

Implications

Let me speculate on a few other implications of lifelong education:

- * New knowledge, methods, and perspectives developed through lifelong

education activities will enrich and expand the other components of the University academic program. Many lifelong educational programs will differ significantly from present instructional and research activities. It would be surprising indeed if the new programs did not begin to re - affirm traditional offerings.

- * In a period of declining public confidence in higher education, of lowered enrollments, and of fiscal scarcity, lifelong education may provide new vitality to the University through the implementation of educational activities perceived as relevant and useful by a much larger segment of society. Demand for and utilization of educational services will grow as public familiarity with University capacities increases. Paradoxically, in an era of declining enrollment and scarce economic resources, lifelong education may contribute to the maturation of the institution.

- * The University will no longer remain a "City of Youth." Diverse audiences and their philosophies and backgrounds will contribute to the growth of multi - dimensional excellence - individual excellence, and institutional excellence. Ultimately, this heterogeneity within the University may have effects that overflow into the wider society, fostering greater communication and understanding among peoples.

Conclusion

Tonight, I have voiced my unswerving commitment to lifelong education. Tomorrow, I hope to hear your confirmation - your assertion that you, the faculty, students, and staff of Michigan State University have glimpsed the lifelong educational future that lies before us.

In conclusion, we have gathered tonight to celebrate the academic enterprise. We come to recognize colleagues for excellence in academic accomplishment and contribution to this University. We come to assess and reflect on the institution that is Michigan State University.

Michigan State University is an outstanding institution - far greater in its academic distinction and capacity, more profound in its potential, than even its own faculty, staff, and students sometimes realize.

Michigan State University's academic excellence and capacity for innovation are of national and international renown. This stature is the work of many hands, long dedication and leadership in response to challenge. We should be quietly proud, remembering that we "stand on the shoulders of giants" in a long tradition.

In a sense, we here are all trustees - trustees for citizens of Michigan and the nation of a proud tradition of academic distinction and of educational service. We must not only conserve but add to this inheritance.

Herein lies the significance of the partnership which each of us must sustain, for without it, even the best articulated goals and priorities will not be met.

No autocratic administration can achieve them. No faculty practicing intellectual isolationism can achieve them. No student body content to be the passive recipient of knowledge can achieve them.

But in concert, we have immense power to shape this University - to harness and apply its full potential for greatness. This is our challenge - to match our abilities not only to the realities of today, but to the visions of tomorrow.

I am confident that the faculty, students, and administration of Michigan State University will meet - and exceed - these expectations.

University campaign next week

The annual All - University Development Fund Campaign will be held beginning next week through the end of May for faculty and staff members.

In the past three years, nearly 1,000 faculty and staff members have contributed more than \$56,000 through the program.

Jack Shingleton, placement director and chairman of the campaign, says the campaign allows faculty and staff members to make financial contributions to their departments at a minimum cost to themselves, and also gives a significant boost to off-campus fund raising efforts.

Contributions can be designated to a specific department or account, and state and federal tax credits that accompany the gift allow the faculty or staff member to make the contribution at a personal cost of between one-quarter and one-third of the actual amount depending on his or her taxable income and the size of the gift.

Off campus, the All - University Campaign has an impact also.

"When funds are solicited off-campus among alumni and other friends of the University," Shingleton said, "one of the questions frequently asked is how well the faculty and staff support the University financially. Being able to point to this success in attracting gifts from our own people becomes a tremendous asset."

Anyone wishing to contribute or ask questions may contact Shingleton at 355-9510, or the staff of the MSU Development Fund at 355-8257.

A follow-up campaign will be held in the fall.



Photo by Dick Wesley

Beal Garden was one stop on a tour of University facilities Friday for members of the Presidents Club that emphasized the theme "Spartan Science Spanning a Century."

The Presidents Club is made up of alumni and friends of the University who have donated or pledged at least \$10,000 to the MSU Development Fund.

President and Mrs. Clifton R. Wharton, Jr., acted as hosts for a day-long recognition of the support given the University by club members.

In addition to Beal Gardens, club members toured Horticultural Gardens, the Pesticide Research Center, crop and soil sciences exhibits, the Beef Cattle Research Center, dairy science facilities, and the Department of Foods Science and Human Nutrition.

Members were also honored at a buffet luncheon, a reception at Cowles House, and a dinner at Kellogg Center.

Formed in 1963, the Presidents Club now numbers 170 members. The active members have contributed or pledged a total of more than \$4.7 million to the University during that time.

In addition, 66 "In Memorium" members of the Presidents Club have accounted for \$19.9 million in contributions to the University.

The idea of bringing club members to campus once each year for a program highlighting different areas of the University originated with President Wharton in 1971.

In a welcoming message to club members, President Wharton said: "As Michigan State University enters a new era of activity, we hope that the Presidents Club will reflect this vitality. Hopefully, the common bond of interest in the University will provide the basis for a growing number of congenial gatherings of the membership."

Presidents Club Chairman Glenn B. Moore, Detroit manager for Aetna Life and Casualty, said: "An avowed objective of the MSU Development Council and the Presidents Club is to encourage an ever-widening investment in quality. The Presidents Club enhances the University by broadening its financial base, extending its prestige as an educational and research institution, and influencing public service resources."

Friday's program was planned by a committee chaired by Mr. and Mrs. Sheldon Moyer. Moyer is vice-president for automotive marketing, Bureau of Advertising, American Newspaper Publishers Association.

Achievements

K.N. SUBRAMANIAN, assistant professor of metallurgy, mechanics and materials science, and graduate students SANDRA CARR, OSAMA H. EL-BAYOUMI, and ANWAR R. DAUDI, recently presented a series of four technical papers at the annual meeting of the American Ceramic Society in Cincinnati.

GEORGE H. AXINN, professor of agricultural economics, will be a member of a World Bank team in India from mid-May through mid-June that will assist Indian authorities in developing and strengthening patterns of education and training relevant to rural development.

SHIGEO IMAMURA, director of the English Language Center, has been elected chairman of the Association of Teachers of English as a Second Language (ATESL). He has also been appointed to the board of directors of the National Association for Foreign Student Affairs, parent organization of ATESL.

WILLIAM MITCHAM, manager of the MSU Photo Laboratory, was recently elected executive vice-president of the University Photographers' Association of America.

JEANNE BROWN, child development specialist with the Cooperative Extension Service, received the U. S. Department of Agriculture Superior Service Award in recent ceremonies at Washington, D. C.

Mrs. Brown was cited for "exemplary educational leadership and unrelenting efforts in conducting child development programs which have expanded opportunities for youth, improved family stability and created new horizons for human potential in Michigan."

She is one of 10 throughout the United States to receive the award.

WILLIAM LAZER, professor of marketing and transportation administration, served as visiting distinguished professor of marketing May 24 and 25 at the University of Tennessee. Lazer, who is president-elect of the American Marketing Association, gave two lectures and one seminar dealing with the future business environment and trends in marketing.

JAMES L. GIBSON, assistant professor in the Institute of Agricultural Technology, and his wife, Kenna, have been named Danforth Associates by the Danforth Foundation, St. Louis, Mo.

The appointment makes the Gibsons eligible for Danforth Foundation grants to use in projects to improve college learning and teaching processes.

Professor and Mrs. Gibson are among 179 named as Danforth Associates this year from the nation's colleges and universities. Some 5,000 associates in all academic fields are participating in the program.

Watergate saddens veteran UPI reporter

One of the few woman journalists on President Nixon's historic visit to China says she is saddened by events at the White House, the so-called Watergate scandal.

Helen Thomas, a 30-year veteran reporter for United Press International, has a ringside seat to history. And from this unique perspective in the White House, she spoke recently at the annual dinner of the MSU chapter of Women in Communications about the Presidency.

"Power and the exercise of it is what the Presidency is all about. But it should be above all a source of moral leadership and inspiration. When it is less the nation suffers."

She said, "for Nixon's competent, if arrogant, top aides, the landslide election - which may turn out to be the biggest steal in history - was a mandate to grab more power and to set the White House apart from the rest of the nation."

Miss Thomas believes that if Nixon had held more press conferences (there have only been three in the four months following the election), he might have saved himself the dilemma of now having to present himself to the world as a man who was duped, betrayed.

"For, if he had been subjected to more questioning these past many months then he would have had to determine the facts."

Miss Thomas believes that the White

House chose to assume Watergate was one newspaper's vendetta against a president. She credits the digging reporters who refused to give up or be intimidated with unravelling the story.

But although these days have tragic overtones, she said, "it is a joy for me to go to the White House each day. Each day is an education. It could be a trip to Peking or a telephone call from Martha Mitchell."

Miss Thomas said that covering Nixon's trip to China was "the greatest story I ever covered."

She feels the fact that it was all in living color on our TV sets, proves that it wasn't "a secret cell meeting."

"The trip was a cultural shock for all of us. Never were we so ill-prepared to cover a story. We had landed on the moon . . . sights and sounds . . . the oneness of looks. Unisex in drab blue or gray. I never saw a skirt or makeup on a woman. And you've heard, no crime, no muggers, no beggars."

"I thought Mrs. Nixon did a superb job in proving as she always does that people are the same the whole world over - only systems are different," Miss Thomas said.

Her speech also included inside comments on the Kennedy and Johnson administrations, the Presidential tour of Russia - and Henry Kissinger's love life.

The arts



BY FRED BRUFLODT

MFA exhibit begins at Kresge; International Festival ends

Following its show of undergraduate art work, the Kresge Art Center Gallery presents examples of work by MSU's more advanced art students. The Annual Master of Fine Arts Exhibition opens tonight at Kresge and continues through June 10. The nine MFA candidates will

exhibit paintings, prints, sculpture, ceramics and work in industrial design.

The painters are John Bloyer, Jean Sewell, William Strudwick, Rosa Younkman; the printmakers are Judy Finfer and Georgia Forster. Others include Gregory Jaris, sculptor;

Bovornsakdi Krisadaphong, industrial designer; and John Stewart, ceramist.

Tonight's opening at 7:30 is free and will include refreshments. The artists will also be present to discuss their work.

The MSU Orchestra's International Festival will draw to a close Tuesday when the MSU Symphony plays its final concert of the 72-73 season.

Under the baton of guest conductor John Carewe, Pianist Ralph Votapek will join the orchestra to perform Rachmaninov's "Concerto No. 1 in F Sharp Minor for Piano and Orchestra."

Also on the program will be "Symphony No. 4 in F Minor" by the English composer, Ralph Vaughan Williams, and "La Mere" by Claude Debussy.

Financial support for this unique festival, which brought three outstanding visiting conductors to campus this year, came from individuals and companies in addition to the University, the Music Department and the Humanities Department.

MSU's two top bands — the

Symphonic Band and the Wind Ensemble — will present concerts outdoors in the garden area between the Music Building and Beaumont Tower Wednesday and Thursday (May 30-31) at 6:30 p.m.

In the event of inclement weather, Wednesday's Symphonic Band concert will be canceled, but Thursday's Wind Ensemble performance will be heard in the Band Rehearsal Room in the Music Building.

A book setting forth principles of curriculum development and the program building process in music education has recently been written by Robert Sidnell, professor of music.

Sidnell's book, "Building Instructional Programs in Music Education," is one of a series on "Contemporary Perspectives in Music Education" published by Prentice-Hall. The series is for use in undergraduate programs in music education.

A major goal of Sidnell was to show the educator how to give meaning and direction to the music learning experience in the classroom.



Judy Jashinsky Finfer, one of nine MFA candidates showing their work at Kresge Art Center, holds the silk screen from which she has made prints in her "self portrait series." Mrs. Finfer, whose specialty is prints and drawings, is a graduate assistant teaching etching at MSU. She received her undergraduate degree in art from the University of Wisconsin at Stevens Point.

Books

The third edition of the "Information Service in Guidance: Career Development and Planning" (Rand McNally) has been recently published. Co-authors are WILLA NORRIS, RAYMOND N. HATCH, and JAMES R. ENGELKES, of the College of Education, and FRANKLIN R. ZERAN, dean emeritus, College of Education, Oregon State University.

ROY T. MATTHEWS, associate professor of humanities, recently translated and abstracted the papers delivered at the University of Reims symposium

"Europe in November 1918" which will be published in Historical Abstracts.

TIMOTHY H. LITTLE, assistant professor of elementary education, is the co-author of a new book, "Teaching Social Studies in the Secondary School." The book, described as a handbook of tested ideas useful to teachers, was co-authored by John R. Lee of Northwestern University and Stephan E. Ellenwood of Boston University. It was published by The Free Press, a division of Macmillan Publishing Co., Inc.

MSU Positions Available

IMPORTANT: Administrative - Professional and Clerical - Technical applicants should contact the Employment Office at 353-4334 by May 29, 1973 and refer to the vacancy by the position number. Fuller descriptions of positions are available in departmental postings. Instructional staff applicants should contact departments noted.

FACULTY

Rank depends on experience, Human Environment & Design Dept. (M.A.) Desire some college teaching and/or experience in industry. Teaching in areas of basic design, design illustration and fashion illustration.

Contact: Robert R. Rice, Chmn., Human Environment & Design Dept.

Asst. Prof. of Business Law (J.D. required) Broad liberal arts undergraduate background. Interest in teaching with a jurisprudential approach desirable.

Contact: Mary V. Moore, Chmn., Dept. of Business Law & Office Admin.

Chairman of Racial & Ethnic Studies (Ph.D.) Administrative, teaching, and research experience desired. Teach in graduate program in Social Science as related to Racial & Ethnic Studies.

Contact: Jack M. Bain, Racial & Ethnic Studies

Asst. or Assoc. Prof. in Urban Development (Ph.D. completed by Sept. 1973) Undergraduate teaching, program development with special competence in urban and minority group political processes, problems and change. Some teaching,

research, and urban related work experience desirable.

Contact: Wilbur B. Brookover, Urban Development

Asst. or Assoc. Prof. of Urban Development: (Ph.D. completed by Sept. 1973) Undergraduate teaching, program development, and research in urban health problems and organization. Some teaching, research, and urban related work experience desirable.

Wilbur B. Brookover, Urban Development

Chairman of Urban Development (Ph.D.) Background-Social Science orientation with interest and experience in urban problems i.e. health, education, housing, transportation, welfare. Demonstrated ability to lead in development of a teaching, research and service program in a new college.

Contact: Wilbur B. Brookover, Urban Development

Dean for College of Urban Development (Ph.D.) Background in multidisciplinary approach to urban problems and demonstrated competence in action oriented research. Demonstrated ability to work in a multiracial - multiethnic setting. Administrative experience necessary.

Contact: Paul A. Varg, Dept. of History

CLERICAL - TECHNICAL

403. Health Physics Technician X (degree in physics, or related field, and prior health training & experience desirable) Mechanical ability, good physical condition. Collect, transport & store radioactive waste from campus laboratories and prepare for disposal. \$8,973 - 11,147

404. Production Asst. IX (Assoc. Degree from college or technical school in areas of radio - TV production, instructional media, studio or stage lighting techniques and set construction) Perform production tasks, operate television audio equipment, cameras, lights & other associated equipment. \$8,384 - 10,418

405. Clinical Nurse IX (RN preferred with work experience) Experience in a clinical situation. Other less qualified nursing personnel will be considered according to work experience. \$8,384 - 10,418

406. Sr. Lab. Technologist IX (B.S. or M.S. in chemistry or biochemistry) Previous experience in pharmacology lab. Familiar with biochemical and pharmacological methodology; drug metabolism or mechanisms of drug action; experienced in radioisotopes, spectrophotometry, electrophoresis, gas chromatography, enzyme kinetics, some animal work, and ability to supervise others. \$4,04 - 5,01/hour

407. Executive Secretary VIII - Excellent typist, assume responsibility & supervise students. Must be punctual and reliable. \$7,473 - 9,576

408. Technician VII (B.S. in Forestry, or equivalent combination of education and experience, including photo interpretation & mapping) Botanical knowledge sufficient enough for identification of native trees and

agricultural crop species. Work on SKYLAB project. \$3,20 - 3,98/hour

409 - 411. Sr. Dept. Secretary VII (3 vacancies) Various requirements. See Departmental Postings. \$6,660 - 8,272 or \$3,20 - 3,98/hour

412. Data Preparation Operator V (2 positions) Experience keypunch operator - at least one year. \$6,267 - 7,389

413. Dept. Secretary V (1/2 time) Typing and knowledge of MSU procedures. \$3,134 - 3,694

414 & 415 Sr. Clerk - Stenographer V (2 positions) Typing 60 w.p.m. Shorthand and dictaphone. \$6,267 - 7,389

416 & 417. Sr. Accounting Clerk V (2 positions) - Typing, math aptitude, bookkeeping experience, letter composing. \$6,267 - 7,389

418. Sr. Clerk Typist V Accurate/Excellent typist, ability to handle detail work. \$6,267-7,389.

419. Sr. Clerk Stenographer V - Excellent. Use dictating/transcribing equipment. \$6,267 - 7,389

420. Food Service Supervisor IV - Experienced waiter or waitress familiar with quality dining room operation. \$2,76 - 3,33/hour

421. Sr. Clerk IV - Knowledge of typing. Detailed record keeping. Student contact. \$5,735 - 6,562

422. Accounting Clerk III - Math aptitude. Bookkeeping ability & typing skill. \$5,511 - 6,562

423 & 424. Clerk - Typist II (2 positions) - Typing and general clerical ability \$5,440 - 6,422

MICHIGAN STATE UNIVERSITY IS AN EQUAL OPPORTUNITY EMPLOYER

BULLETINS

FOOD STORES CLOSING Food Stores will be closed for the annual physical inventory beginning noon, Thursday, June 28. Departments planning to have products charged to their accounts prior to the end of the fiscal year must present requisitions by Wednesday, June 27. Operations will resume Monday, July 2.

PORTABLE TERMINALS The Computer Laboratory has a limited pool of portable terminals for communicating with computers which weigh less than 30 pounds and may be used with any standard telephone instrument. Rental rates are \$6 per day (noon to noon), \$25 per week or \$50 per month. Teletype lease is now subject to minimum periods of one week with a \$20 per week or \$60 per month charge. Persons interested should contact Donald E. Horner, 3-6739.

CONFERENCES

May 24 Michigan Health Council
May 30-31 Michigan Foot Health Foundation
May 31 Interviewing Skills Seminar
May 31 Job Enrichment Seminar

LECTURE-CONCERT Season tickets for the 1973-74 University Series (A) and Lively Arts Series (B) subscription season are now available to all new patrons. Contact the Union ticket office from 8:15 a.m. to 4:30 p.m. weekdays, 5-3361. Master Charge and BankAmericard are accepted. A descriptive brochure on the new season is also available.

NURSERY SCHOOL The Spartan Nursery School is running a cooperative summer session from June 25 to July 26. Places are still open in the afternoon sessions from 1:30 to 4 p.m. The fee is either \$30 plus one or two parent participation days, or \$42 with no participation days. Children from two years and ten months to six years are eligible. Contact Margaret Browning or Jan Loria, 5-0336, for an application.

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.

EXHIBITIONS

Hidden Lake Gardens, Tipton
More than 200 crabapple and 100 lilac varieties contribute to the blossom spectacle symbolic of the season. Open daily 8 a.m. until sundown.

Museum
Another new case has been added exhibiting early nineteenth century stoneware, salt glaze and other types of crocks and jugs.

Beal Garden
Current conspicuous bloom includes the white American redbud, the mountain silverbell and the flowering dogwoods, including a pink form.

Library
In honor of Michigan Week, the exhibit "Michigan Revisited" includes a display of the state's historical accounts, journals, and maps.

Campus Plantings

The unusual spring weather has resulted in a mingling of campus bloom that is normally spread out over a considerably wider time span. Presently conspicuous are the flowering dogwoods at Kellogg Court, Landon Terrace and International Center.

Kresge Art Center

The Master of Fine Arts Exhibition, May 26-June 10, shows the works of nine graduate students who are completing their studies for the MFA degree. Included are works by John Bloyer, Jean Sewell, William Strudwick and Rosa Younkman, painting; Judy Finfer and Georgia Forster, print-making; Gregory Jaris, sculpture; Bovornsakdi Krisadaphong, industrial design, and John Stewart, ceramics.
Gallery hours are 9 a.m. to 5 p.m. Monday through Friday, 7 to 9 p.m. Tuesday, and 1 to 4 p.m. Saturday and Sunday.

SEMINARS

FRIDAY, MAY 25, 1973

Immobilized enzymes and their application. E. Kendall Pye, Dept. of Biochemistry, U. of Pennsylvania. 12:40 p.m., 101 Biochemistry. **Biochemistry.**

Environmental and clinical aspects of black-related diseases. Richard A. Williams, assistant medical director, Martin Luther King Jr. General Hospital, Los Angeles. 2 p.m., 137 E. Fee. **Human Medicine and College of Urban Development.**

Relationships of triassic vertebrates in southern continents. John Cosgriff, Dept. of Zoology, Wayne State U., 3 p.m., 140 Natural Science. **Zoology.**

TUESDAY, MAY 29, 1973

Grain quality and marketing. Robert Anderson, The Andersons, Maumee, Ohio, 10:20 a.m., 218 Agricultural Engineering. **Agricultural Engineering.**

Selected topics in analytical chemistry. R.W. Murry, U. of North Carolina, 4 p.m., 136 Chemistry. **Chemistry.**

Labor theory of value. Ronald Meek, U. of Leicester, 3 p.m., 111 Berkey. **Economics and Agricultural Economics.**

Vitamin and mineral fortification of foods. Ralph Jobin, Process Development, Kellogg Company, 4:10 p.m., 103 Food Science. **Food Science and Human Nutrition.**

Control of arginine biosynthesis in *Escherichia coli*. L. Williams, Dept. of Biological Science, Purdue U., 4:10 p.m., 146 Giltner. **Microbiology and Public Health.**

Perinatal toxicity of cyclophosphamide in mice. Robert D. Short, NIH predoctoral trainee, 4 p.m., 449B Life Sciences. **Pharmacology.**

Temperature control of phospholipid biosynthesis in *E. coli*. Michael Sinensky, Harvard U., 4 p.m., 101 Biochemistry. **Plant Research Laboratory.**

WEDNESDAY, MAY 30, 1973

The ripening process in tomatoes—the rin mutant. Kenneth Sink and Robert Hermer, 4 p.m., 103 Anthony. **Genetics.**

Photorespiration and nitrogen metabolism in relation to plant development. Han San Ku, 4 p.m., 209 Horticulture. **Horticulture.**

Mechanism of fungistasis of nutrient-independent spores in soil. Pete Bristow, 4:10 p.m., 168 Plant Biology Lab. **Plant Pathology.**

THURSDAY, MAY 31, 1973

Rural development problems in Daudzai Thana, Peshawar Province, Pakistan—contrasts and similarities with Comilla Thana, Bangladesh. Akhter Hameed Khan, visiting scholar, MSU, and professor on leave, Dept. of Economics, U. of Karachi, Sind Province, Pakistan. 3:30 p.m., 312 Agriculture. **Agricultural Economics.**

Conformational changes in myofibrillar proteins and the mechanism of muscle contraction. John Gergely, Dept. of Muscle Research, Boston Biomedical Research Institute, 4:10 p.m., 101 Biochemistry. **Biochemistry.**

Land disposal of waste water. L. Novak, 4 p.m., 301 Agriculture. **Crop and Soil Sciences.**

Fertilization responses in six southern Michigan Oldfield communities. S.N. Stephenson, 1:30 p.m., 223 Natural Resources. **Fisheries and Wildlife.**

How many torsion-free Abelian groups can dance? (on the head of a large pin) and other logical-algebraic questions or The Spectrum Problem. John Baldwin, 4:10 p.m., 304A Wells. **Mathematics.**

Keeping philosophy pure. Richard Rorty, professor of philosophy, Princeton U., 8 p.m., 137 Akers. **Philosophy.**

Energy resources and the environment. Alexander Zucker, director, Heavy Ion Project, Oak Ridge National Laboratory. 4:10 p.m., 120 Physics-Astronomy. **Physics.**

FRIDAY, JUNE 1, 1973

Expressions of intention. Donald Gustafson, U. of Cincinnati, 8 p.m., 117 Berkey. **Philosophy.**

For general information about MSU, please call 353-8700.

FRIDAY, MAY 25, 1973

- 10 a.m. Board of Trustees.
- 3 p.m. Track—Central Collegiate meet. Ralph Young Field.
- 7:30 p.m. Exhibition opening—The public is invited to the opening of the Master of Fine Arts Exhibition at Kresge Art Gallery. Refreshments will be served.
- 7:30 p.m. Eisenstein Film Festival—"Thunder Over Mexico" and "Sergei Eisenstein" are presented in the final program of the festival. The films are shown free of charge by the Russian and East European Studies Program. 102B Wells.
- 8 p.m. "Sun: Star of Life" emphasizes that no physical object in the universe beyond earth has been so significant to man as the sun. A 15-minute skywatching session will follow the 8 p.m. shows. Abrams Planetarium.
- 10 p.m. "Sun: Star of Life" (see above). Abrams Planetarium.

SATURDAY, MAY 26, 1973

- 2 p.m. Track—Central Collegiate meet. Ralph Young Field.
- 2 p.m. Eisenstein film festival (see May 25). 102B Wells.
- 2:30 p.m. "Sun: Star of Life" (see May 25). Abrams Planetarium.
- 8 p.m. "Sun: Star of Life" (see May 25). Abrams Planetarium.
- 10 p.m. "Sun: Star of Life" (see May 25). Abrams Planetarium.

SUNDAY, MAY 27, 1973

- 4 p.m. "Sun: Star of Life" (see May 25). Abrams Planetarium.

TUESDAY, MAY 29, 1973

- 12 p.m. University Club luncheon—"The Center for Environmental Quality" is the topic of John Nellor, associate vice president for research development and acting director, Center for Environmental Quality.
- 8:15 p.m. Concert—The University Orchestra's closing concert of the season will feature Ralph Votapek, pianist, as soloist under the baton of English guest conductor John Carewe. Fairchild Theatre.

WEDNESDAY, MAY 30, 1973

- 6:30 p.m. Concert—The MSU Symphonic Band, under the direction of Kenneth Bloomquist, will perform in the garden between the Music Building and Beaumont Tower.
- 7:15 p.m. Duplicate bridge—Faculty and staff are welcome to participate as either individuals or couples. For information, call Raymond F. Johnston, 5-6483.
- 8:15 p.m. Graduate recital—Natalie C. Light, saxophone. Music Auditorium.

THURSDAY, MAY 31, 1973

- 6:30 p.m. Concert—The Wind Ensemble, under the direction of Kenneth Bloomquist, will present a concert in the garden area between the Music Building and Beaumont Tower. In case of the rain, the performance will be held in the band rehearsal room of the Music Building.
- 8 p.m. Mariah Folk and Blues Coffeehouse—Leo Kottke will perform. Advance tickets, available at the Union, Marshall Music and Elderly Instruments, are \$1. Tickets at the door are \$1.50. McDonel Kiva.
- 10:30 p.m. Mariah (see above). McDonel Kiva.

FRIDAY, JUNE 1, 1973

- 8 p.m. "Sun: Star of Life" (see May 25). Abrams Planetarium.
- 8 p.m. Mariah (see May 31). McDonel Kiva.
- 10 p.m. "Sun: Star of Life" (see May 25). Abrams Planetarium.
- 10:30 p.m. Mariah (see May 31). McDonel Kiva.

SATURDAY, JUNE 2, 1973

- 2:30 p.m. "Sun: Star of Life" (see May 25). Abrams Planetarium.
- 8 p.m. "Sun: Star of Life" (see May 25). Abrams Planetarium.
- 8 p.m. Mariah (see May 31). McDonel Kiva.
- 10 p.m. "Sun: Star of Life" (see May 25). Abrams Planetarium.
- 10:30 p.m. Mariah (see May 31). McDonel Kiva.

BULLETINS

FELLOWSHIP CHECKS

The June Fellowship checks will be issued on June 8.

UNIVERSITY COLLEGE

Effective May 21 University College Academic Student Affairs office on East Campus will be located in 229 E. Akers. Telephone numbers are unchanged.

CHAVEZ SPEAKS

Richard Chavez will speak on the national lettuce boycott at 8 p.m. Wednesday, May 30, in 107 S. Kedzie. He will also show a film which depicts the present plight of farmworkers.

CLASSICS LECTURE

Gerald F. Else, professor of Greek and Latin and director, Center for Coordination of Ancient and Modern Studies, of Michigan, will deliver a public lecture on "Ritual and Drama in Aeschylean Tragedy" at 8 p.m., Wednesday, May 30, in Union Parlor A. The lecture will be of interest to students in classical studies, the humanities, comparative literature and interdisciplinary studies.

TICKET SALE

The athletic ticket office will have an advance sale of individual-game football tickets for next fall on May 24-31 for the benefit of faculty, staff and students only. The office will be open from 8:30 a.m. to 4:30 p.m. on working days. Full-price tickets for all MSU games are available. Tickets for the home game against Michigan and the away game against Notre Dame will be restricted to two per customer.

ACADEMIC COUNCIL

The Academic Council will meet at 3:15 p.m., Thursday, May 31 in the Con Con Room, International Center. Coffee will be served to members at 2:45 p.m.

FACULTY MEETING

The College of Veterinary Medicine will hold its spring term faculty meeting from 3 to 5 p.m. in the Con Con Room, Center for International Programs, Friday, May 25.

UNION HOURS

The Union Building will be closed Monday, May 28, and will close at 5:30 p.m. May 26 and 27. Hours for the billiard room will be noon to 5 p.m. May 26-27; the bowling alley, noon to 5 p.m. May 26, closed May 27; the cafeteria, noon to 2 p.m. May 27; and the grill, 8 a.m. to 5 p.m. May 26, closed May 27.

PANAMA AMBASSADOR

Ambassador Gonzalez-Revilla of the Republic of Panama will deliver a public lecture entitled "U.S. Colonialism in Panama" on Thursday, May 31 at 10:20 a.m., with a repeat lecture on the same subject at 1:50 p.m., both in 114 Bessey.

ACADEMIC APPAREL

Faculty members and advanced degree candidates who wish to rent academic apparel for spring term commencement, Sunday, June 10, are advised to inquire at the Union Desk or call 5-3498. The deadline for reservation orders is Thursday, May 31. Hoods from other universities must be specially ordered and should be requested now.

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.