

Some raises likely

Interviews completed in campus job study

Any salary adjustments resulting from the current administrative-professional classification study on campus will be retroactive to Oct. 1, 1972, according to C. Keith Groty, assistant vice president for personnel and employee relations.

The six-month study which began two weeks ago is being done by the consulting firm of Robert H. Hayes and Associates, Inc., of Chicago.

The firm is helping MSU review its current compensation practices for A-P employees, and in developing and implementing a uniform salary administration program, including associated systems and procedures, to cover all A-P employees.

Robert Hayes, president of the firm, said that the study, including recommendations for salary adjustments, should be completed by January 1973.

Hayes and Timothy Reilley, the firm's on-site director, have completed two-hour interviews with approximately 25 key management personnel. They were assisted in the interviews by William Thompson, MSU's assistant director for compensation and evaluation services.

Additionally, 45-minute interviews have been completed with a sampling of approximately 100 A-P employees. "This sampling was somewhat biased to insure inclusion of minorities and women," Reilley said.

Management interviews included questions concerning makeup of staff, qualifications necessary for staff positions and performance measures used.

The A-P interviewees were asked to comment on salary and compensation, promotion possibilities and job satisfaction.

* * *

The next phase will be writing job descriptions for all A-P employees.

A group of study coordinators has been formed, and these coordinators will be responsible for distributing questionnaires to all A-P's and all employees in the top four clerical-technical grades.

The questionnaires, to be completed by employees and reviewed by their supervisors, will be used in writing the job descriptions.

"This will be the most time-consuming part of the study, and we expect to complete this phase by the first part of December," Hayes said.

The questionnaires will be distributed the week of Aug. 28, and are expected to be completed and returned by the second week in September.

Reilley urged that the questionnaires be answered completely and with seriousness, since they are "the basic source for writing the job descriptions."

(Continued on page 2)

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Michigan State University

Aug. 24, 1972



— Photo by Dick Wesley

Today's issue is the final summer News - Bulletin. We begin our fourth year of weekly publication with the first fall term number on Sept. 21.

The new FGO takes over

See page 2

C-T group files for election

See page 5

Serving a select clientele

See page 6

Harrison prepares to hear grievances

One bookshelf in Michael Harrison's office is getting more than normal use these days.



— Photo by Bob Smith

Harrison, professor of physics and the newly appointed faculty grievance officer (FGO), has been stacking the top shelf of one of his bookcases with books on higher education, administration,

grievance procedures, arbitration and campus issues.

"I have been doing research of the new position and reading as much as possible about University procedures and related information," he says.

Harrison, recommended for the position by the Faculty Affairs and Faculty Compensation Committee (FAFCC), began his new job Aug. 1.

"I am thrilled by the appointment and am looking forward to the challenge of the position which deals with human concerns" he says.

The FGO is independent of existing administrative structures. Harrison is responsible for resolving grievances and assuring that all hearings are conducted with due process. He is also charged with recommending any changes in the existing grievance procedures.

Since assuming his position, Harrison has had approximately 10 contacts from faculty members who have possible grievances or who want information about the new office.

* * *

HARRISON COMES TO the position with grievance experience both formally and informally through his work on departmental committees and as treasurer for two years of the MSU chapter of the American Association of University Professors.

A member of the faculty since 1961, Harrison says he feels he can be objective in his dealings with faculty members concerning grievances.

"Having familiarity with the faculty, I feel that I can more likely correspond

to the faculty's plight and the problems at hand," he says.

Harrison adds that it is necessary for a university of MSU's size to have an FGO. "I am told that this position is the first of its type in the country."

He says that it is to be expected that some genuine grievances will arise in a large and complex university, and that there must be a way of resolving these grievances with clarity, due process and promptness.

"I hope that the faculty will make use of the office and will feel comfortable with me," Harrison said.

* * *

HE PLANS TO maintain contact with the classroom by continuing to teach one senior seminar in Lyman Briggs College.

He will also continue his research on the collective properties of electrons in crystals under a National Science

Foundation research grant and his work on a contribution to a Czechoslovakian physics book.

"I thoroughly enjoy physics, both the teaching and research aspects, and I find physics is aesthetic," he says.

He adds that his interest in physics goes back to his childhood days in Chicago in the 1940s when science was for him an adventure and exciting.

* * *

HIS INTEREST IN science extends to his hobby of traveling and investigating archeological ruins. Last December he and his wife, Ann, associate professor of romance languages, explored the Mayan ruins in Yucatan, Mexico.

He also had the opportunity to explore Thailand when he served on the MSU's project in Bangkok.

— SANDRA DALKA

Books

Two physicists, SAM M. AUSTIN and GARY M. CRAWLEY, are editors of "The Two - Body Force in Nuclei," proceedings of an international symposium held last fall at the Kellogg Biological Station. Plenum Press is publisher of the proceedings.

S. HOWARD BARTLEY, professor emeritus of psychology, is the author of "Perception in Everyday Life," a guide for laymen that explores the concept of awareness through full use of sensory channels. Bartley is former director of the Laboratory for the Study of Vision and Related Sensory Processes. The paperback is published by Harper and Row.

JUAN A. CALVO, professor of romance languages, has written "La Veta Hipana," a book dealing with the history and culture of Spain. It is published by Appleton - Century - Crofts.

"Essentials of Educational Measurement," devoted to the practical problems faced by teachers, counselors and administrators in constructing tests, has been written by ROBERT L. EBEL, professor of counseling, personnel services and educational psychology.

GEORGE W. FAIRWEATHER, professor of psychology, is the author of "Social Change: The Challenge to

Survival," module for a series published by the General Learning Corporation. In the publication, Fairweather contends that "the greatest obstacles to creating needed change in technological societies are the very values and social organizations that man himself has created."

JOHN L. O'DONNELL, professor of accounting and financial administration, contributed a section on "Post - War Trends in Municipal Bond Financing" to the newly published collection titled "State and Local Finance."

KENNETH R. SCHOLBERG, professor of romance languages, has written "La Satira en la Espana Medieval," a book on medieval Spanish, Catalanian and Galician satire. It is published by Editorial Gredos.

JULIAN W. SMITH, professor of health, physical education and recreation, is the senior author of "Outdoor Education," which has been published in revised form by Prentice - Hall, Inc.

GORDON WOOD, associate professor of psychology, is an author of "Organization of Memory," published by Academic Press, Inc. He contributed a chapter on organizational processes and free recall.

Articles

REED BAIRD, associate professor of American thought and language and Lyman Briggs College, and PAUL P. SOMERS JR., assistant professor of ATL, compiled a bibliography of articles dealing with mass culture for the August issue of American Quarterly.

Three professors have coauthored an article on engineering and environment in the July issue of IEEE Transactions on Systems, Man and Cybernetics. The article, titled "Engineering for Ecological, Sociological and Economic Compatibility," is by HERMAN E. KOENIG, professor of electrical engineering and systems science; WILLIAM E. COOPER, professor of

zoology; and JAMES M. FALVEY, professor of economics.

RALPH W. LEWIS, professor of natural science, has written a three - part series on the structure of the biological sciences for American Biology Teacher. He says that subject matter approached structurally can be made "more logical, more straightforward and simpler."

WILLIAM N. SHARPE, assistant professor of metallurgy, mechanics and materials science, is coauthor of an article for the June issue of Applied Polymer Science. His article deals with an optical technique for measuring strains on plastics over very short gauge lengths.

A-P study continues . . .

(Concluded from page 1)

A CLASSIFICATION coordinating committee has been organized to advise the study group and to provide a communications link, reflecting varying view points and reviewing the study.

The coordinating committee will hold regular meetings every two weeks. Its members are:

Dorothy Arata, assistant provost; Frederic Dutton, dean, Lyman Briggs College; George Fritz, personnel director, special programs/admissions office; Keith Groty; Philip Hoffman, assistant director, data processing; Sandra Huggins, assistant director, personnel; William Kenney, associate director for financial aids; John Lewis, director, University service material management; Richard Lewis, personnel administrator, physical plant; Robert Lockhart, assistant comptroller; Albert Martin, administrative assistant, Equal Opportunity Program; Doris McNitt, administrative assistant, College of Social Science; Gary Posner, director, employee compensation and benefits; Jerry Puca, director of hall assignments; Mary Sawyer, international program specialist; Judy Sorum, assistant director, volunteer programs; and Bernice McQueary, administrative secretary.

TED WARD, professor of secondary education and curriculum, has been reappointed to a three - year term on the advisory board for the U. S. Office of Education's Educational Resources Information Center.

GERALD A. SMITH, professor of physics, has been named chairman of the Users Group of the National Accelerator Laboratory at Batavia, Ill.

STANLEY SMITH, associate professor of journalism, was decorated by the prime minister of Lebanon for his efforts to improve the flow of news from the Middle East. Smith, organizer and director of the East - West Communication Seminar in Beirut, received the coveted Order of the Cedars. Smith has also received a Fulbright Grant to lecture in Yugoslavia.

GEORGIA ANNA JOHNSON, assistant professor in human medicine,

has received a Distinguished Alumna Award from Western Michigan University.

JOHN N. WINBURNE, professor of American Thought and Language, will deliver a paper at the Third International Congress of Applied Linguistics in Copenhagen, Aug. 21-26.

JAMES W. BUTCHER, assistant dean of the College of Natural Science, chaired a study group at the Conference on Scarcity and Growth Toward a National Materials Policy held in Bloomington, Minn.

MARTA TIENDA, assistant to the director for special programs in the Cooperative Extension Service, has won a five - year Ford Foundation Fellowship. She will study for the doctorate in Latin American studies and economics at the University of Texas, Austin.

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Around the campus: A weekly review

Job outlook brightens

Things are looking up for job - hunting college graduates says John D. Shingleton, MSU placement director.

"This coming year," he predicts, "will be the best in the last three years for college graduates."

His confidence, he says, is based on a number of factors:

*Employers are coming out from under the budget crunch.

*The profit picture will promote expansion.

*Mobility of employees will reintroduce itself into the market.

*Optimism will prevail.

Shingleton adds that although the business cycle is rebounding, there has been a lag in employment activity.

"The economic slip bottomed out around May or June," he says, "and it will take three to six months before employment activity catches up."

"When a business cycle starts to turn upward," he says, "employment activity for college graduates lags because among other things, employers have been used to getting by on a lean diet and this time around, unlike the short-lived upturn of the late 60s, employers won't fully commit themselves until they are sure this one is for real."

Shingleton reports that the recent crop of MSU graduates is faring reasonably well in the job market.

A preliminary survey indicates that this year's unemployment figures for MSU graduates are running slightly higher than last year's "but," he notes, "figures for 1971 - 72 graduates should drop as the economy moves through its recovery phase."

He said although things are looking better, "we won't approximate the employment peak reached in 1969."

'Ecology paper' available

The University letterhead is now available on recycled paper.

A limited amount of stock made from recycled post-consumer waste paper is now available for departments wishing to try the product. Stationery with the University and individual departmental letterhead is provided through University Printing.

Mark Rosenhaft, director of MSU's Waste Control Authority, has urged campus offices to try "ecology paper" as a means of helping to stimulate paper recycling. (News - Bulletin, July 13).

Grant supports urban counselors

Minority individuals from disadvantaged urban background will be selected for advanced training as urban counselors at MSU under a new grant from the National Institute of Mental Health (NIMH).

The program will be supported by NIMH grants totaling \$414,152 over three years. The initial grant of \$284,552 was accepted by the Board of Trustees at its last meeting.

Thirty fellows will be selected during the first year to work toward an M.A. degree, and five of these students will later be selected to work toward the Ph.D. degree in counseling during the last two years of the grant.

The program will include counselor training courses designed to prepare students to assist people of urban areas with their unique problems, according to Bob B. Winborn, professor of counseling, personnel services and educational psychology.

He notes that a special feature of the training program is instruction in "systematic counseling" developed by Tom S. Gunnings, professor and assistant dean of student affairs in the College of Human Medicine. This approach was developed to help people resolve problems created for them by "the system."

Fellows will also enroll in courses that focus on the psychology of urban and minority peoples; on conflict, intervention, and social change; and on social development and inter-ethnic relations.

Students in the program will spend approximately one-fourth of their time in practicum and internship.

The training program is a cooperative endeavor of the Center for Urban Affairs, Counseling Center, and College of Education. Faculty from these three areas will teach and supervise trainees.

Angus herd is a winner

Three heifers and three bulls in the University's purebred Angus herd dominated the recent annual All-American Angus Futurity at the Keeneland Race Track, Lexington, Ky.

MSU's January heifer was Grand Champion in her class and bested the Grand Champion bull to be named Supreme Champion of the show. According to Harlan Ritchie, professor of animal husbandry, this is only the fourth time in the show's history that a heifer won the Supreme Championship.

Competing with 200 head from 25 states and Canada, the MSU entries won three individual classes and were ranked the best six head. Lowest rank in the team was fourth. One MSU bull was named Summer Champion.

Managing ground water by computer

Management and control of both present and future ground water supplies is the goal of a civil engineering research project begun here.

David C. Wiggert, assistant professor of civil engineering and researcher in fluid mechanics, has received a grant from the U.S. Department of Interior's Office of

Water Resources Research to make a computer model of the ground water flow in the MSU area.

Many Michigan communities like Lansing and the University are dependent wholly or in part upon underground water obtained from wells, Wiggert said. Regional planning is necessary so that the water-bearing level, or aquifer, will be conserved as a water resource.

Data will be fed into the computer on water table levels, pumping flow rates, and possible recharge conditions including natural recharge from rainfall and rivers, to determine the overall changes in the supplies at the water-bearing levels.

The Lansing area has a surface cover of from 60 to 70 feet of glacial till, under which lies some 275 to 300 feet of Saginaw sandstone which is the source of ground water for the primary wells of the city and the University.

Below the Saginaw sandstone is the Michigan limestone which has water of inferior quality and higher chemical content.

Wiggert expects to complete the study in about a year. His project is part of the overall work of the MSU Institute of Water Research.

Group monitors health at the zoo

An elephant's injured trunk... malnutrition among turtles and hoofed animals... animal diseases that infect zoo employees. These are just a few of the Detroit Zoo problems tackled by a medical team from MSU and the Detroit area.

The Detroit Zoo Medical Advisory Council is possibly the only one of its kind in the nation, says Charles F. Reed, associate dean of veterinary medicine and council chairman.

In 1967, the 33-man advisory council was formed to help the Detroit Zoo with its preventive medical programs, disease and injury treatment, autopsies and nutrition programs, Reed explains.

The council of veterinarians, physicians and nutritionists meets four times a year, but has continuous special projects and individual research. In a typical effort, the council developed a nutrition program that revitalized the coats, life expectancy and reproduction of the zoo's bison, wapita and reindeer.

Surgery by veterinarians Hiram Kitchen and D. J. Krahwinkel saved an elephant's trunk that had been bitten by another elephant. And nutrition findings by poultry specialist Cal J. Flegal curbed the high infant mortality rate of the rhea, a relative of the ostrich. Other council members are developing artificial feed for turtles and tranquilizers for lions and elephants.

The council also makes recommendations for vaccinating zoo employees against transferrable animal diseases and advises quarantine of animals at U. S. ports of entry.

Autopsies, lab diagnoses and surgery on zoo animals help train veterinary medicine students, Reed says. In addition, the council provides short courses on campus for zoo veterinarians and has consulted in renovating the zoo animal hospital.

Ex-coach Ben VanAlstyne dies

Ben VanAlstyne, a Michigan State athletic staff member for 35 years during which he was head coach of basketball for 22 years and of golf for 30 years, died Aug. 4 after a short illness. VanAlstyne, 79, had lived in Southfield since his retirement from MSU in 1961.

He is survived by a daughter, Jayne VanAlstyne, a faculty member at Montana State University, and a brother, Guy VanAlstyne, of Honey Falls, N.Y. His wife, Madelon, died in 1970.

VanAlstyne's basketball teams here won 232 games and lost 163, and the sport reached one of its all-time peaks in the 1930s. A 16-1 record in 1930-31 is MSU's best ever.

'Classical' autobiography declining?

Autobiographies being written today signal a decline from the "classic line of autobiographical literature" characterized by Benjamin Franklin, Henry Adams and Malcolm X, says an English professor in the latest issue of Centennial Review.

Ross Miller of the University of Connecticut asserts that "a serious metaphysical or self-reflective quality is simply missing in recent works." The works of Franklin, Adams and Malcolm X "are records of their lives and accounts of American history they affected as well as experienced."

"The sensuous aspect of the autobiography," Miller writes, "is really the link between the peculiarities of the autobiographer's life and broader historical currents. It affords the writer a chance to talk about the world as he talks about himself."

The Centennial Review, a quarterly publication of the College of Arts and Letters, also includes in its summer edition essays and poetry by 11 other authors.

Among the essays are "Sin and the City: The Uses of Disorder in the Urban Novel" by Alan Henry Rose, assistant professor of English at the University of New Hampshire; "Echoes and Refrains in the Canadian Novels of Margaret Laurence" by Denyse Forman, a graduate student at the University of Winnipeg, and Uma Parameswaran, assistant professor of English at the University of Winnipeg; "Is the Renaissance Over?" by Herbert Weisinger, dean of the graduate school at State University of New York at Stony Brook, and "Manhattan Transfer as Gateway to the 1920's" by James B. Lane, assistant professor of history at Indiana University Northwest.

The summer edition also includes poetry by Dora Polk, who teaches English at California State University at Long Beach; Paul Bennett, professor of English at Denison University; Alvin Greenberg, former editor of The Minnesota Review and a teacher at Macalester College; William Virgil Davis, a Connecticut poet, and Jerome Mazzaro, who teaches at SUNY at Buffalo and edits Modern Poetry Journal.

David Mead, professor of English, edits the Centennial Review. Copies are available at the Union Building.

Chemistry tutors help the underprepared

One of the University's most successful tutorial programs will enter its fourth year this fall with a financial boost and, its planners believe, bright promise of more help for underprepared chemistry students.

Called Project TAC (Tutorial Assistance in Chemistry), the program was launched three years ago to help "marginal" students over the introductory chemistry sequence, a major hurdle for some who plan careers in science or engineering. Most of the students are black, and most have chemistry placement scores that classify them as "high-risk." But results so far indicate general improvement — in some cases, striking success — for those who participate in TAC.

Students are not given watered down versions of introductory chemistry courses, emphasizes Jack B. Kinsinger, professor and chairman of chemistry. They are offered recitation sessions in addition to their courses to help them with such skills as studying, note-taking and organizing, and exam-taking. Selected graduate teaching assistants conduct the recitations. And the tutors benefit, too, from the chance to get teaching experience and to work with young people whose backgrounds may be far removed from their own.

James Hamilton, assistant professor of chemistry, conceived and directed the program until he became an assistant provost last year. Now it is directed by Kinsinger. But chemistry faculty members are assigned to the project on a term-by-term rotating

basis, and work with TAC receives the same priority as teaching any regular course.

DURING ITS FIRST two years, TAC received financial support from the Center for Urban Affairs and from the chemistry department. Last year, however, the outside money was cut drastically, and it was underwritten almost totally by department funds.

TAC last year used only three teaching assistants (it had had six for each of the first two years), Kinsinger notes, and as a consequence, some winter term sections in introductory chemistry had to turn away students.

(TAC couldn't accommodate the heavy demand, either, and Kinsinger's file contains some letters of extreme disappointment from students unable to find places in the program last winter.)

This year, with the promise of increased University support and matching funds from the department, Kinsinger plans to have four graduate teaching assistants in TAC.

He also hopes to add some undergraduate teaching assistants to the TAC staff. They would be selected from among students who have participated in TAC, and he says they would be especially valuable at providing new students with advice and counsel on where to go with specific problems. And the undergraduate advisors would be able to follow through and make sure that those who need help get it.

Money for the program should be built into the department's financial base, Kinsinger maintains. "I don't

control the University's admissions procedures," he says, "but I strongly believe that if we admit marginal students, then we have a 100 percent obligation to help make sure that they are successful."

It is at the department level, in programs such as TAC, where money for support services should be funneled, he adds, "because this is where the education is taking place."

THREE PRINCIPLES guide Project TAC, Kinsinger says: A low student-tutor ratio (between 4-1 and 10-1, ideally); a system to encourage student participation and to make sure that participation is continual (recitations are held during the day, for example, to make attendance convenient); and an absence of grading in the recitations themselves (TAC instructors have nothing to do with a student's actual course grade).

Last spring, Kinsinger arranged an informal, no-holds-barred "rap" session involving a few blacks in TAC,

graduate students and faculty. It was a rewarding experience, he recalls, particularly for faculty members who, like most whites, have had little awareness of black culture.

From that meeting emerged several conclusions, he says, including the "absolute necessity" for retaining the low student-teacher ratio, the need for support projects like TAC for underprepared students, and the importance of better academic and personal counseling for those students.

The concept of helping students through TAC may help change some long-held attitudes in academe, Kinsinger says.

"In the past, we were always looking only for the bright student. When a student was in trouble, you filled out a mid-term report and that was it. It was 'sink or swim.'"

"But now we are looking for those who need help, and we are taking the responsibility for providing it."

— GENE RIETFOR

Library offers computer access to medical research data

Quick access to what's new and current in medical research — as reported in an international array of 1,100 scientific journals — will be available Sept. 1 to medical practitioners and biomedical researchers through a new MSU library service.

Known as Medline, it is a computerized bibliography system provided on campus by the Science Library in cooperation with the National Library of Medicine in Bethesda, Md.

In a matter of minutes, Medline can provide a detailed list of articles on a particular subject for the MSU Library patron via a computer housed in the National Library of Medicine.

The computer operates with a data base of more than 400,000 citations or subject references, drawn from all issues of 1,100 representative scientific

journals published in the last three years.

Listings provided by the computer include titles of articles, types of information each contains, names of authors, and titles and publication dates of the journals cited.

The MSU Medline is open to all physicians and researchers in central and northern Michigan and in the Upper Peninsula.

The new service, provided free of charge until January, replaces a manual system involving mailed requests which took from four to six weeks to fill.

MSU Librarian Elaine Idzikowski explained that Medline is an efficient search process of journal articles related to a very specific topic, such as "Methadone and Pregnancy." The topic "Pregnancy" would be rated as too general for Medline under usual circumstances, and better pursued through more traditional library channels.

On-campus researchers wishing more information can contact the Science Library.

The New system provides in-depth search, with computerized accuracy, to help the medical practitioner or biomedical researcher quickly compile references of real potential, and to discard those of little benefit to his needs.

Between 90 and 95 percent of articles cited by Medline are available for loan at the Science Library.

Medline was brought to MSU through the efforts of the College of Human Medicine's Office of Health Services Education and Research, the College of Osteopathic Medicine, and the Science Library. The service has been operating on a trial basis for several weeks.

— NAN HOUSTON

'One of the best free services'

Of the several letters he has received in praise of TAC, chemistry's Department Chairman Jack B. Kinsinger values most highly this one from a young woman student:

"Offering the TAC program to undereducated students is one of the best free services available at Michigan State.

"In high school I had a grade point average of 1.67. I came to MSU, after taking noncredit college courses to get my grade point up, with no knowledge of chemistry. I received a 3.0 and 3.5 in inorganic and now have a 4.0 average in organic, all because of the help I received in TAC sessions and from Mr. Mike May (a graduate teaching assistant). I also just received my tentative acceptance to nursing, which would not have been possible without this.

"... One can't pass chemistry with a decent grade by just going to TAC and not reading the book or not studying on their own, but if one combines them all, they should receive a very good grade.

"TAC explains and points out all the information that one should know. However, it requires good attendance, for missing a TAC class (means) one suffers just as much as if he missed a chemistry lecture — if not more.

"I am not rich enough to donate money to the TAC program; however, I wanted to let you know how much this program helped me and to thank you for giving me an opportunity to receive such assistance... (I) hope that in future years, more students will be able to benefit as much from this service as I did."

Finding blacksmiths and barns

If there are any doubts that the MSU campus is a little city, then one look at the Faculty and Staff Telephone Directory should dispel them.

Listings in the book compare with any public telephone directory, and they aren't even on yellow pages.

There's a barbershop, bowling alley and billiard room (all located in the Union).

There's a laundry... a carpenter shop... a key shop... a garage repair service... and a paint shop. There's even a tourist and resort service.

There's air conditioning maintenance (for those buildings fortunate to have man-made cooling). And there's a canoe shelter.

But unlike many other public directories, the campus book has some unique listings. Many arise from the fact that MSU started as an agricultural college and beginnings in this area continue as seen by a look through the directory.

There's the "loose housing barn" which should not be confused with the "swine barn" and the "nutrition barn," each of which has its own listing. (One wonders who answers the phone!)

Then there's the "blacksmith shop."

"Sugarbeet investigations" and "bean investigations" have listings under plant science.

"Pest control" is also listed, but not under any of the agricultural or related listings. It just says "see Public Safety."

Then there's the "Turkey Business Administration Project." If this conjures up visions of turkeys getting degrees in business administration, you're wrong. It's the country.

The telephone listings also show there's a "WEAK radio" on campus. It comes on strongly in North Wonders Hall as part of the student radio network.

Sometimes it's necessary to take a second look while your fingers walk through the campus listings. How about "Cooperation Conflict Research Group" (a project in the psychology department)... or "Pewabic Pottery Company" (an MSU-owned facility in Detroit)? They're listed in the MSU directory.

— SANDRA DALKA

Channel 23 opens Sept. 10

Testing of the University's new UHF channel 23 transmitting equipment is underway, with a target on-the-air date of Sept. 10.

On that day, according to present plans, MSU will end its shared-time arrangement on channel 10 as WMSB-TV and become mid-Michigan's only full-time public television station, WKAR-TV.

Channel 23's new antenna, weighing 3½ tons and 66 feet long, has been erected and placed on its tower in Okemos.

WKAR-TV will be on the air 85 hours a week. Persons wishing information on how to receive channel 23 can request a brochure from WMSB.

Training to become change agents

A group of graduate students who see themselves as change agents in society are trying to solve problems that affect the everyday lives of Americans.

Each is doing graduate work in the new field of ecological psychology. Each is evaluating a social program in his or her area of special interest. Each is developing instruments to measure — in both quality and quantity — comparable programs planned or operating elsewhere.

The overall project, with umbrella funding from the National Institute of Mental Health and guidance provided by the Department of Psychology, is now completing its second year. George M. Fairweather, who instigated the program in 1970, and Louis T. Tornatzky are providing major direction.

Eight problem areas are being studied: Nutrition; drug addiction; teacher classroom behavior as it affects pupil learning; linkage between attitudes and action of private citizens in relation to environmental quality; response to innovation in mental health systems; institutional change in homes for elderly persons; family planning; and consumer participation in planning health services.

The students are mostly in their middle and late 20s. They intend now and in later professional careers to maintain ties between research and service at community, regional, state or national levels. Many have returned to graduate studies from work already done in related professional fields.

NUTRITION STUDY

The nutrition study is designed to evaluate results of counseling given to women by nutritionists working in community health agencies in four Michigan counties.

Undertaking this project is Kent S. Jamison, who came to MSU after three years of consumer and advertising research in Chicago.

Women who come to those agencies having staff nutritionists are given the primary health assistance they seek, but those with problems of overweight, underweight, anemia or high blood pressure also are counseled about eating habits and diets.

Jamison expects followups in his year-long study to show that women who received and followed the counseling attained greater health improvement than those visiting clinics where staffs do not include nutritionists.

DRUG ADDICTION

The drug addiction study, undertaken by William R. Ives, focuses on former junkies in the Lansing area who are rehabilitating themselves in

one of three ways: Getting counseling as outpatients at area institutions, sharing life in supervised Lansing half way houses, or being part of a residential program at a completely autonomous lodge.

Ives' background includes music studies, two years in industry and a master's degree in physiological psychology.

Participants in the study are either off drugs or willing to go the methadone route to get detoxified. Some have criminal records for thefts made to support addiction.

The followup is designed to determine if the former addicts have jobs; have been arrested; have gone back to drugs, and how much time if any has been spent in hospitals and jails.

Initial interviews note family, job, health, and military service histories, and any drug treatment and attitudes toward drugs.

CLASSROOM BEHAVIOR

The study of classroom behavior of teachers, and the responses between them and children in kindergarten through grade 6, is designed to improve the learning environment, communicative behavior and cognitive skills of teachers and learners.

Lynn T. Keith, who is near completion of the study, made audio-visual records to analyze what teachers and pupils say and do to each other. Nonverbal communication recorded included gestures, posture, smiles and frowns, and some physical contact.

"Many disadvantaged children," Keith said, "have good skills and competencies that remain hidden. Teachers may not be adequately engaged in recognizing or nurturing these talents."

ATTITUDES TO ENVIRONMENT

Links between attitudes and behavior in relation to environmental quality are being studied by John Lounsbury, who wants to find out what private citizens think about pollution and what they actually do about it.

He hopes to find relationships between attitudes and behaviors based on reaction to specific actions suggested, such as taking glass to be recycled, writing to congressmen about pending bills, and other action available to individuals.

MENTAL HEALTH INNOVATIONS

Innovation in structure and authority within existing mental health institutes is under study by Robert N. Harris, a master's degree holder in clinical psychology and a doctoral candidate in ecological psychology.

Harris is analyzing responses in institutions to suggestions and demonstration of the community lodge design in which some formerly

institutionalized persons live together and work in peer groups or on their own. The study covers more than 250 state and national institutions.

His study will produce a model to evaluate diffusion of an innovation in such institutions in terms of goals, leadership, handling of crises, forms of administrative structures and decision making.

THE ELDERLY

The kinds of institutional changes that can occur in institutions for the elderly are being studied by Esther Fergus, who is completing work in educational psychology before starting doctoral studies in ecological psychology.

She is examining responses to proposals for milieu therapy, a program currently used in two wards of one Michigan hospital for the aged. It features homelike living space where elderly men and women care for themselves, use kitchen and laundry facilities, and select their own clothes and recreation.

At issue are the initial and considered responses of the institutions and individual staff members, and the effectiveness of existing communication networks and channels of authority.

FAMILY PLANNING

A family planning study is nearing completion under direction of two graduate students, Jeffrey R. Taylor and Susan C. Hedrick. Both are also employed by governmental health agencies in Michigan.

They have surveyed a group of Ingham County women — all under 26 and married less than two years — to compare the attitudes toward family planning of those who received family planning information assistance with those who did not receive such assistance.

CONSUMER PARTICIPATION

Effectiveness and motivation of consumer participation in ongoing health planning at the regional level is under study by Amanda Beck, a medical technologist before she returned to graduate studies.

"Consumers named to planning boards," she said, "often become overwhelmed by the apparent expertise of the professionals on the board. At the same time the consumer representatives do have full authority to participate in policy making and to present consumer views on health services and delivery."

She expects to prepare an evaluation model for use in consumer participation in other planning projects. Assisting her in the project is Peter Bishop, a doctoral candidate in sociology.

—FRAN MURRAY

C-T group to file for bargaining election

The president of the MSU Employees Association (MSUEA) has reported that his organization will file a petition this week asking for a collective bargaining election among the University's clerical-technical employees.

Rollin V. Dasen, head of the MSUEA and recording supervisor for WKAR, said the petition, to be filed with the Michigan Employment Relations Commission, will include more than the required 30 percent of signed authorization cards from C - Ts.

He said that there are more than 2,200 C - T employees on the campus.

Meanwhile, representatives of the American Federation of State, County and Municipal Employees are also conducting a membership drive in an attempt to have AFSCME as the bargaining agent for C - Ts.

At an organizational meeting Monday (Aug. 21) night, it was reported that the AFSCME group had collected about 130 authorization cards, or almost 6 percent of the University's C - T work force. When a bargaining unit definition is certified by the employment relations commission, and if the MSUEA petition has authorization cards from at least 30

of that unit, the AFSCME group would need cards from at least 10 percent of the C - Ts in order to be on an election ballot.

Dasen said that his group hopes for an election among C - Ts this fall.

* * *

REPRESENTATIVES OF BOTH groups seeking to represent MSU's C - T employees agree on one thing: C - Ts should organize — the sooner, the better.

But the two groups disagree on the form that such an organization should take.

Dasen contends that the MSUEA — campus - based and not affiliated with any outside organization — "can do a better job for less money." Its dues are currently \$2 a month per member.

But Cheryl Hart, coordinator for the AFSCME group, points out that the union, through its affiliation with the AFL - CIO, can provide the resources and expertise needed to effectively represent C - T employees. AFSCME's basic individual dues — which go to local, state and national offices — are \$4.25 a month. Any dues for the

campus unit would be added to this amount, with membership consent.

AFSCME now represents about 1,500 campus employees in two locals.

The MSUEA was formed about three years ago, and, Dasen said, its original goal was to secure authorization cards from 50 percent of the C - Ts and ask for voluntary recognition from the University.

The membership became bogged down, however, and only a few months ago the group was still well short of its 50 percent goal. But the flow of authorization cards picked up, Dasen said, with the announcement in June that the University would have to suspend C - T merit salary raises because of a tight budget.

That development, coupled with this year's across - the - board raises of only 4 percent, convinced more C - Ts of the need for representation, Dasen added.

The decision to file for a bargaining election was endorsed unanimously at the MSUEA's meeting last week, Dasen said. And he emphasized that the MSUEA seeks to represent C - Ts at all levels.

Ms. Hart, a clerk in the large animal

clinic, said she feels very strongly about the need for C - Ts to be represented. "We don't have anyone in the University asking us about policies that affect us," she added, "because they don't know who to ask."

She said that the organization she represents is interested in improving salary levels, and in more: Clarifying job descriptions ("So many of them have little to do with the actual jobs," she said); promoting professional improvement; and insuring fringe benefits (Nothing says that management can't take away benefits it provides").

(A check Tuesday with the staff benefits office indicated that the University has not voluntarily removed fringe benefits, and has, in recent years, added to them.)

Ms. Hart also noted that most C - Ts are women in secretarial jobs, jobs that still invite the stereotype of a woman performing only routine office tasks and making coffee for the boss.

She said that much remains to be done to build the consciousness level among women C - Ts so they can erase an often distorted image of their professional role.

—GENE RIETFOR

Auto services: Providing for a select clientele

There aren't any big, colorful signs to draw customers, or any promotional gimmicks ("Free dishes with a fill-up"). And there is no long line of cars waiting.

Surprising! For this service station has the lowest - priced - 20 cents a gallon - gasoline in town. But, the clientele is very select, because MSU's Automotive Services Department, only services University - owned vehicles.

The department, located adjacent to Spartan Stadium, is a revolving fund operation under Physical Plant, providing transportation services to the University.

Max Neils, manager of auto services, says those services include the service garage, which has automotive supplies, fuel and repair services; the motor pool, providing rental of vehicles; and the campus bus system.

"The University owns 628 vehicles, including 30 buses, which are eligible for servicing in the department," he says.

And servicing the department does. Last year 260,000 gallons of regular gasoline were pumped into University - owned vehicles.

"Approximately 95 cars a day are refueled in the service garage. In addition, repair service is performed daily on approximately 20 cars," he says.

* * *

THE DEPARTMENT employs 48 persons, including 11 mechanics and two apprentice mechanics.

There are 11 stalls or "bays" beneath the northeast corner of the stadium where automotive servicing is done.

"The department was established to offer automotive services, and car rental and bus service at a rate considerably less than that available from local retail agencies," Neils says. "And we remain competitive."

The motor pool has more than 100 vehicles available for daily or long - term lease.

"We only buy basic colors, such as blue, green white and tan," Neils says. "You won't find a red car purchased. It's not conservative enough."

The University replaces automobiles after two years of 50,000 miles. "We have all different brands. We buy from the lowest bidder who meets our specifications," he says.

The University fleet sports 44 new vehicles this year, including 12 new station wagons.

The bus fleet also includes two new additions. "We are replacing older buses as the need arises with buses equipped with a new injector and the environmental improvement package to cut down on pollution and emissions."

NEILS says that the University is

Water may be discolored as hydrants 'flush deeply'

The campus water supply may be discolored next week, but it won't offer any hazard for human consumption.

Cause of the off - color water is the physical plant's annual flushing and testing of fire hydrants. The work begins Aug. 30 and continues through Sept. 8.

Jim Sneathen, maintenance engineer, explains that the discoloration is caused by iron particles from the deep rock wells that "settle out" in the University's distribution system during the flushing.



— Photo by Bob Brown

Inspecting the temporary bus "stall" southeast of Spartan Stadium are (left) Jack Spencer, bus supervisor, and Max Neils, manager of automotive services.

constantly studying low polluting fuels and engines for its vehicle fleet.

Five campus vehicles are equipped with liquid propane fuel which emits less pollutants than regular gasoline. "These vehicles include lift trucks which are used inside of buildings," he says.

The campus bus system was established in 1967 and, Neils says, "although ridership on the buses is declining every year, we carry as many as 40,000 passengers a day during the winter months."

The bus drivers are absorbed into Physical Plant positions summer term and between terms, when fewer buses are running.

Neils explains that there are no women bus drivers on campus, "but this is because no woman has applied for the job."

Neils also says with pride that MSU runs one of the cleanest bus systems around. "The buses are cleaned every day during the winter months."

His department is working with the state Department of Transportation in its studies for more effective transportation on campus.

"The buses are the best system we can afford and this system will be with us for some time," he says. "The buses do help eliminate congestion on campus."

—SANDRA DALKA

Salary schedules revised

Here are the newly revised salary schedules for clerical - technical, administrative - professional and nonunion hourly employees as approved by the Board of Trustees at its July meeting.

CLERICAL-TECHNICAL
SCHEDULE OF CLASSIFIED SALARY RANGES BY GRADES
Effective July 1, 1972

Grade	Annual Salary		Monthly Salary	
	Min.	Max.	Min.	Max.
I	\$5,300	\$6,141	\$ 441	\$ 512
II	5,440	6,422	453	535
III	5,511	6,562	459	547
IV	5,735	6,926	478	577
V	6,267	7,389	522	616
VI	6,436	8,048	536	670
VII	6,660	8,272	555	689
VIII	7,473	9,576	623	798
IX	8,384	10,418	698	868
X	8,973	11,147	747	929
XI	9,632	11,735	802	978
XII	10,221	12,605	851	1,050

ADMINISTRATIVE-PROFESSIONAL
SCHEDULE OF CLASSIFIED SALARY RANGES BY GRADE
Effective July 1, 1972

Grade	Annual Range		Difference Between Min. and Max. Range
	Min.	Max.	
AP-I	\$9,330	\$11,850	\$2,520
AP-II	9,930	12,590	2,660
AP-III	10,370	13,630	3,260
AP-IV	11,180	14,580	3,400
AP-V	12,000	15,550	3,550
AP-VI	12,810	16,650	3,840
AP-VII	14,060	18,360	4,300
AP-VIII	15,470	20,790	5,320
AP-IX	16,860	23,410	6,550
AP-X	21,240	Above	

SCHEDULE OF HOURLY RANGES
Effective July 1, 1972

Grade	Hourly Range		Grade (cont.)	Hourly Range	
	Min.	Max.		Min.	Max.
A	\$2.58	\$2.74	OA	\$4.17	\$4.84
B	2.61	2.84	P	4.39	4.95
C	2.64	2.97	Q	4.41	5.03
D	2.70	3.07	R	4.65	5.28
E	2.85	3.20	S	4.71	5.37
F	2.95	3.39	T	4.79	5.46
G	3.09	3.55	U	4.92	5.52
H	3.16	3.68	UA	5.03	5.74
I	3.27	3.88	V	5.15	5.99
J	3.38	3.96	VA	5.29	6.19
K	3.55	4.15	W	5.49	6.43
L	3.68	4.30	X	5.57	6.52
M	3.76	4.41	Y	5.72	6.81
N	3.87	4.57	Z	6.07	7.22
O	4.17	4.76			

EXHIBITIONS

Beal Gardens

Late summer and autumn-blooming members of the lily, amaryllis and iris families are now conspicuous.

Library

Through September, the library will display "Channel 23 (WKAR-TV) Inauguration," a guide to the new full-time University station, relating listings to library resources.

Campus Plantings

First of the woody plants to show sufficient autumn color to rival the bedding annuals are the bright-fruited mountainashes at the Manly Miles and Home Management Buildings.

Museum

Second floor—A dramatic setting has been installed for a collection of the skulls of African mammals ranging from gazelles to a rhinoceros and a hippopotamus. The skulls are from a study collection and have been gathered from Africa.

Kresge Art Center

Main Gallery: Works from the permanent collection.

Entrance Gallery (through Sept. 17): Paintings and prints of the faculty.

North Gallery (through Sept. 17): Works from the permanent collection.

CONFERENCES

Sept. 5-7	College of Human Medicine Faculty Retreat
Sept. 6-8	Region V Alcohol Counter Measure Forum
Sept. 7-8	Ingham County Probate Court Services & Restrictions
Sept. 8	Post Secondary Aspects of the Education Amendments of 1972
Sept. 10- Oct. 6	Cost Separations Conference
Sept. 11-12	Big Ten Alumni Magazine Editors
Sept. 11-12	Teachers Aides: Selection, Training & Utilization
Sept. 11-13	Small Animal Orthopedic Short Course (Clinic)
Sept. 11-15	Mutual Engineers Fleet Training
Sept. 11 - Dec. 18	E. L. ILA Insurance Institute 21
Sept. 12	Small Animal Anesthesiology Short Course (Clinic)

Sept. 13	Clinical Hematology I
Sept. 13-14	Michigan Non-Profit Homes Assn. (Nursing)
Sept. 14	Equine Infectious Anemia (Vet. Clinic)
Sept. 16	Insurance Women's Education Day
Sept. 18-22	Police Alcohol Training
Sept. 18-22	Basic Life & Health Insurance Inst.
Sept. 18-22	Basic Commercial Kitchen Planning AGA
Sept. 19-20	Workshop on Drug Abuse & Alcoholism
Sept. 19-22	Fire Inspectors Conference

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.

BULLETINS

BIOPHYSICS LECTURE John O. Williams will speak on "Some Aspects of the Photochemistry of Organic Crystals" at 3 p.m., Monday, August 28, in 136 Chemistry. The seminar is sponsored by Biophysics.

DOG OBEDIENCE The wives of veterinary students will sponsor dog obedience classes at 7 p.m. on Mondays from Sept. 25 to Nov. 27 in the Judging Pavilion. Enrollment fee is \$17.50. For further information, call Pat Wilson, 393-2388, before 6 p.m., or Pat Smith, 489-7675, or Diane Ford, 393-6653, after 6 p.m.

FELLOWSHIP MEETING The MSU Chapter of the Full Gospel Businessmen's Fellowship International will hold its monthly meeting August 26. Members will breakfast together at 8 a.m. in the Union Grill, and the meeting will begin at 9 a.m. in the Gold Room.

HALL ASSIGNMENT The Assignment Office, 190W Holmes Hall, will be open from 8 a.m. to 5 p.m. on Saturday, Sept. 16, and Sunday, Sept. 17. Students not knowing their assigned halls or wanting to make application should be directed to this office or call 5-7460.

U. COLLEGE FACULTY The University College fall faculty meeting will be held at 9 a.m., Thursday, September 14, in 114 Bessey Hall. The speaker will be E.O. Melby, distinguished professor of administration and higher education. For information, contact Bruce McCrone, 3-8865.

STUDENT EMPLOYMENT A second meeting regarding the Central Student Employment Program will be held Monday, August 28, at 9:00 a.m. in Room 108B, Wells Hall. Procedural changes in hiring and processing student employees will be discussed. Employers who did not attend the first meeting are urged to attend or send a representative.

SECRETARIES Secretaries interested in preparing for the National Certified Professional Secretary Examination may be interested in a course "Business Theory for Professional Secretaries" held from 6:30 to 9:30 p.m. every Tuesday from Sept. 19 to May 1. For information and applications, contact Mildred Williams, 373-7063.

OUTDOOR POOL HOURS The outdoor pool will remain open the rest of the summer. Students, faculty and staff are requested to come dressed for swimming. Enter at the west gate and use showers located in the outdoor pool area. The pool is open Monday through Friday from 11:30 a.m. to 5 p.m., Friday (family swim) 3 to 5 p.m., Saturday, Sunday and Holidays 1 to 5 p.m. Admission at gate. Effective Sept. 17, no guests will be allowed due to the return of the students.

TWO-WAY RADIOS Departments with two-way radio licenses KD-3060 and KK-9519 should contact William Winter at WKAR, 5-6540. Any department which has a two-way radio license, whether in use or not, should inform Mr. Winter. The information is required by the Federal Communications Commission.

MEN'S INTRAMURAL BLDG. The Men's Intramural Building will close for cleaning and repair at 9 p.m. Friday, Sept. 1, and will not re-open until 1 p.m. Sunday, Sept. 17. Students, faculty and staff are urged to clear from their lockers any equipment they may be using during this time.

INTERIM HOUSING Between-term housing for foreign students new to the university and students living in residence halls summer term will be available at East Holmes Hall. Students may check in starting at 9 a.m. Friday, Sept. 1, at the East Holmes reception desk. Fall term halls will open at 9 a.m., Wednesday, Sept. 13.

FALL SKATING Beginning Saturday, Sept. 16, open skating sessions at the MSU Ice Arena will be held from 3:30 to 5:30 p.m., Saturdays and Sundays, and 8:30 to 10 p.m., Mondays, Wednesdays, Thursdays, Fridays, and Saturdays. There will be no skating Nov. 23 and 24 and after 5 p.m. on days of home hockey games.

LECTURE-CONCERT Next week will be the last opportunity to purchase season tickets for the 1972-73 subscription season of the University Series ("A") and the Lively Arts Series ("B"). The final day of sales is Friday, September 1. Some excellent reserved seats remain, particularly in the \$18 price range. World-famed artists booked for the coming season include: Beverly Sills, Duke Ellington, Andre Previn and the London Symphony, organist Virgil Fox, Rudolf Nureyev and the National Ballet of Canada, the Vienna Choirboys and the Israel Philharmonic Orchestra conducted by Zubin Mehta. You may use your Master Charge or BankAmericard. Contact the Union Ticket Office, 8:15 a.m. - 4:30 p.m. weekdays, 5-3361.

FINAL GRADES Grade cards were delivered to departmental offices on Aug. 21 for basic courses, and for all other courses on Aug. 24. The cards should be checked immediately to determine if there is a card for each student. The University's grading systems are printed on the face of each grade card. Final grades are due back in the Office of the Registrar, 150 Hannah Administration Bldg., 5-9596, 36 hours after the final examination is given. For the convenience of the academic departments, the Registrar's Office will make pickups from departmental offices each morning after 9 a.m., and each afternoon after 2 p.m., beginning Thursday, Aug. 31. The final pickup will be made starting at 8 a.m., Wednesday, Sept. 6. Otherwise, grades should be delivered to 150 Hannah Administration Bldg. no later than 11 a.m., Sept. 6. It is important that these deadlines be met by all departments.

FRIDAY, AUGUST 25, 1972

- 8 p.m. "The Last Question"—This science fiction spectacular written by Isaac Asimov will be held for additional showings for one more weekend. "The Last Question" explores the theory of entropy, which maintains that the life-giving energy of the stars is being drained. Admission at door. Abrams Planetarium.
- 10 p.m. "The Last Question" (see 8 p.m.). Abrams Planetarium.

SATURDAY, AUGUST 26, 1972

- 2:30 p.m. "The Last Question" (see August 25). Abrams Planetarium.
- 8 p.m. "The Last Question" (see August 25). Abrams Planetarium.
- 10 p.m. "The Last Question" (see August 25). Abrams Planetarium.

SUNDAY, AUGUST 27, 1972

- 4 p.m. "The Last Question" (see August 25). Abrams Planetarium.

SATURDAY, SEPTEMBER 16, 1972

- 8 a.m. Welcome Week begins.
- 2:30 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.
- 8 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.

SUNDAY, SEPTEMBER 17, 1972

- 4 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.

MONDAY, SEPTEMBER 18, 1972

- 8 a.m. Registration for fall term begins.

TUESDAY, SEPTEMBER 19, 1972

- 8 a.m. Registration for fall term continues.
- 8 p.m. Folkdancing—Instruction is followed by dancing at 9 p.m. 327 M.A.C.

WEDNESDAY, SEPTEMBER 20, 1972

- 8 a.m. Registration for fall term continues.

THURSDAY, SEPTEMBER 21, 1972

- 8 a.m. Classes begin.

FRIDAY, SEPTEMBER 22, 1972

- 8 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.
- 8:15 p.m. Lecture-Concert Series—For its first presentation of the year, the Lively Arts Series will feature one of America's foremost living composers and a top entertainer, Duke Ellington and his orchestra. For information or tickets, contact the Union Ticket office, 5-3361.
- 10 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.

SATURDAY, SEPTEMBER 23, 1972

- 1:30 p.m. Football—MSU vs. Georgia Tech. Spartan Stadium.
- 8 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.
- 8 p.m. World Travel Series—Featuring color motion pictures personally presented by world travelers with extensive backgrounds, the first offering of the Series will begin with a tour through "Our Glorious National Parks" with Edward

Brigham. For tickets, contact the Union Ticket Office, 5-3361. MSU Auditorium.

- 10 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.

TUESDAY, AUGUST 29, 1972

- 8 p.m. Folkdancing—Instruction is followed by dancing at 9 p.m. 327 M.A.C.

WEDNESDAY, AUGUST 30, 1972

- 7:30 p.m. Films on Japan—The last presentation of a weekly film series on Japan Sponsored by the Asian Studies Center features "Noh" and "Nature Patterns." The films are furnished by the Consulate General of Japan in Chicago, and are being shown as part of a preview and selection process in preparation for Japan Week in the fall. Wilson Auditorium.

FRIDAY, SEPTEMBER 1, 1972

- 8 p.m. "Cosmic Dimensions"—Both educational and entertaining, this new presentation in the sky theatre provides a perspective picture of the seemingly infinite vastness of space, as visitors travel from our nearest neighbor in the solar system to a mysterious region far beyond the outer limits of our galaxy. Tickets may be purchased at the door. Abrams Planetarium.

SATURDAY, SEPTEMBER 2, 1971

- 2:30 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.
- 8 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.

SUNDAY, SEPTEMBER 3, 1972

- 4 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.

TUESDAY, SEPTEMBER 5, 1972

- 8 p.m. Folkdancing—Instruction is followed by dancing at 9 p.m. 327 M.A.C.

FRIDAY, SEPTEMBER 8, 1972

- 8 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.

SATURDAY, SEPTEMBER 9, 1972

- 2:30 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.
- 8 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.

SUNDAY, SEPTEMBER 10, 1972

- 4 p.m. "Cosmic Dimensions" (see September 1). Abrams Planetarium.

TUESDAY, SEPTEMBER 12, 1972

- 8 p.m. Folkdancing—Instruction is followed by dancing at 9 p.m. 327 M.A.C.

FRIDAY, SEPTEMBER 15, 1972

- 10 a.m. Meeting of the Board of Trustee

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