

Inside . . .

... China trip, page 2
 ... Telephone operators, page 4
 ... LEASE, page 4
 ... Geriatric jogger, page 5
 ... Distinguished educators,
 page 5

MSU News - Bulletin

Vol. 4, No. 31

Michigan State University

May 31, 1973

Council appointed

Appointments to the Minority Advisory Council were announced Wednesday by President Clifton R. Wharton, Jr. The 11 appointees represent faculty, staff and student organizations on campus, as well as major racial categories.

"Appointment of the Minority Advisory Council completes the organization of the new Department of Human Relations," Wharton said.

"Since September, when the Board of Trustees approved the plan, we have provided staff for the Offices of Women's and Minority Programs, and appointed the Women's Advisory Council."

Gumecindo Salas, director of the Office of Minority Programs, will serve as chairman of the minority advisory group.

Those appointed by Wharton to the Minority Advisory Council were selected from among nominees made by the various constituent groups. Included are seven Blacks, two Chicanos, one American Indian and one Oriental. Among them are three minority women.

Wharton told members in his letters of appointment that the University would look to the Council "to advise as to policies, programs and procedures particularly affecting minorities within the University community."

Organizations providing nominees were the Council of Graduate Students, the Black Affairs Office of ASMSU, the North American Indian Association, the Chicano Students for Program Action, the Black Administrators and Faculty Association, and the Faculty Committee on Committees. In addition, an administrator was selected by the provost and two at-large members by the president.

Two additional posts will be held open pending future nominations. Local 1585 (AFSCME), representing service employees, informed Wharton that it would not have a nominee at this time. A representative of clerical-technical employees will be held in abeyance pending outcome of the current unionization situation.

Those nominated to the Council are: Julin Lu, Council of Graduate Students; Arthur J. Webb, ASMSU Office of Black Affairs; Luis C. Gonzalez, Jr., Chicano Students for Program Action; Richard L. Andrews, North American Indian Association; Sandra Huggins, assistant director of employment in the Personnel Center, Administrative-Professional Association; Joe T. Darden, assistant professor in the Center for Urban Affairs, Black Administrators and Faculty Association; Annette Kearney, assistant professor in the Counseling Center, Faculty Committee on Committees; Rudy Suarez, assistant professor in the Department of Elementary and Special Education, Faculty Committee on Committees; James Howard, chairman of Community Medicine in the College of Osteopathic Medicine, administrator (provost selection); Lloyd Cofer, consultant to the president, at-large (presidential selection); Ruth Hamilton, professor of sociology, at-large (presidential selection).



-Photo by Dick Wesley

Affirmative action steps outlined

A report on the progress of the University's affirmative action program and efforts underway through the Department of Human Relations were detailed to the Board of Trustees at its monthly meeting May 25.

Robert Perrin, vice president for University relations, reviewed steps taken since 1970 when the University's first written Affirmative Action Plan was implemented and the Anti-Discrimination Policies and Procedures were approved.

Those steps included a reorganization of the personnel office, the adoption of a new nepotism policy, the approval of sick leave for pregnancy-related purposes, the establishment of an office of training programs for women and minorities, the development of a posting system for job vacancies, and the eligibility of part-time employees for fringe benefits.

In the academic area, Perrin pointed out, faculty vacancies are now posted, an administrative internship program for women has been established, recruiting assistance has been provided to colleges, women faculty salaries have been reviewed resulting in upward adjustments for 138 women last year, and hiring goals have been established for women and minorities.

Also, the status of women's athletics has been improved, the marching band has been opened to women, and a limited day care center has been established.

Perrin pointed to statistics that help measure the progress of women and minorities, but cautioned that such a

yardstick was "rather impersonal and subject to misinterpretation."

The figures compiled by the Office of Institutional Research showed that there are 123 more women in the tenure stream today than in 1962 (a percentage increase of 80.4), and in the rank of professor alone, there are now 45 more women (an increase of 225 per cent).

The percentage of women in the tenure stream remained about constant at 10.2 between 1962 and 1970, Perrin pointed out, but has risen to about 12.2 percent in the three years since the affirmative action program has been in existence.

Other figures indicated that, with the exception of the instructor rank, the percentage of women in faculty ranks is significantly higher than the national average. The percentage of 10-month women professors at MSU is 11.9 compared with 6.7 nationally, Perrin said, and 17.8 percent of MSU's associate professors are women compared with 12.3 percent nationally.

Perrin said it was doubtful that the goals established in 1971 calling for 14.6 percent of the faculty to be women and 6.4 percent minorities by 1974 would be met because of availability problems and a slowdown in turnover, but that the "record demonstrates a genuine good faith effort to do so."

He pointed out that of the 62 faculty members in the tenure system hired since December of 1971, 42 were men, 20 were women, and 15 were minorities.

Perrin said the recruitment of minority women remains a key problem area.

"The reason is primarily one of availability, but I am hopeful that we can devise new methods of establishing a pool of potential applicants," he said.

"The distribution of women and minorities in the non-academic employment classifications also requires continued attention," he continued. "Promotion opportunities are slowed by the relatively few positions in the higher ranks and the low turnover of incumbents, but the development of promotion ladders and the increasing numbers of women and minorities among employees should do much to resolve this problem over time."

Members of the Department of Human Relations reported on their activities.

Chairman Joseph McMillan told the Board the department has been principally involved in organizing and building a staff since its creation last fall, and that as of next month a full staff will be on board.

(Continued on page 2)

Last issue next week

Next Thursday's edition of the News - Bulletin will be the final edition of the spring term. Publication will resume on a biweekly basis June 28 for summer term. Deadline for notices for the last edition will be noon Tuesday.

Travel and study in China highlight vacation plans

If Joseleyne Tien is asked how she and her family will spend their summer vacation, she has an interesting answer.

Mrs. Tien, associate professor of American Thought and Language, and her husband, H. T. Tien, professor of biophysics, are planning to spend more than two months traveling and doing research in China. They will be accompanied by the youngest of their four children.

According to Mrs. Tien, she plans to investigate the role of women in higher education in China. "I want to find out the status of women in education, and if there is discrimination in positions and the number of positions women hold in higher education," she said.

"Additionally, I am interested in knowing if men attend the normal schools (which train teachers for elementary grades), and the social class backgrounds of students attending the institutes of higher education, and if they are primarily from the peasant/worker class."

Mrs. Tien hopes to publish her findings upon her return.

While Mrs. Tien is pursuing her interests in China, her husband will be lecturing in biophysics at China's Academy of Sciences.

She said that he has an added interest in the trip, since he will be returning to his homeland and visiting with relatives he hasn't seen for 26 years.

"My husband received a letter recently from his uncle, which was the first communication he has received from any of his relatives since he left China," she said.

Mrs. Tien, a native of England, has been on the MSU faculty for six years.

She explained that her interest in China and Asia comes not only from her husband, but her minor subject while at Harvard University which was Asian Studies. She added that she speaks and writes some Chinese.

In addition to her research, Mrs. Tien said she hopes to be able to extend her trip to China for a year to teach in the country. "I am not sure how successful I will be in staying in China for a year, but I think that I could get to know and understand the country better if I am allowed to stay longer," she said.

She explained that she could prove useful to the Chinese because the children in the cities are now required to take English beginning in the third grade.

"Another interesting aspect," she said, "is that just recently they have changed from teaching the English accent to the American accent."

Mrs. Tien said she is looking forward to her studies in China because of developments in China, specifically in higher education.

She explained that when the Communist movement took over the country in the late 1940s, the old class structure was replaced by the worker movement. "However, many of the students in higher education still came from the upper class because they had the academic know-how."

"The entrance exams have now been abolished and students are sent to the universities through endorsements from local work groups. This has been in keeping with the philosophy of the country. Students are educated to serve the people, not for their own personal



Joseleyne Tien

goals or for advancing their own careers."

Mrs. Tien also said the professors are encouraged to work with the people and are sent out to do such things as work in the fields or clean the streets, "so that they don't lose contact with the people."

"Everybody is encouraged to join in and build the country," she said.

According to Mrs. Tien, she and her husband plan to visit China with the philosophy of "trying to be one of them" not as foreign tourists.

She said they have just learned that there is a serious drought in the northwest region of China, and that she and her husband are going to volunteer to assist in that region. Again, she isn't sure if this offer will be accepted.

She explained that the Chinese are fully aware of the American high standard of living and that accommodations are available with American luxuries.

"However, we hope that we can be successful in living by the Chinese standards while we are there," she said.

—SANDRA DALKA

Two positions filled

The appointments of a new director of the Cooperative Extension Service and a new chairman of the Department of Political Science were approved by the Board of Trustees at its monthly meeting last Friday.

Gordon E. Guyer, professor and chairman of the Department of Entomology since 1962 will head the Cooperative Extension Service beginning July 1.

He succeeds George S. McIntyre who will retire on that date.

President of the Entomological Society of America, Guyer is currently on sabbatical leave. He has also been director of the Pesticide Research Center since its establishment in 1964.

In recommending the appointment, Dean L. L. Boger of the College of Agriculture and Natural Resources pointed out that Guyer is committed to MSU and the educational philosophy of the Cooperative Extension Service.

"He is a proven administrator with the capacity to provide the leadership required for the service at this particular stage in its history," said Dean Boger.

Guyer recently completed a term as chairman of the MSU Academic Governance Steering Committee. He has just returned from his fourth tour of Africa under United Nations' sponsorship to develop education and research in plant protection in eight countries.

Known for his interdisciplinary approach to the scientific study of insects, Guyer received the MSU Distinguished Faculty Award in 1965. He played a leading role in establishing the Pesticide Research Center involving 17 separate departments.

Guyer is a specialist in aquatic insects and their significance in water pollution. He has conducted extensive research in insect control and the environmental effects of pesticides.

Much of his published information in more than 60 scientific papers has become basic reference material in his field.

Born in Kalamazoo in 1926, Guyer received the B. S., M. S. and Ph. D. degrees from MSU. He began his MSU career as an instructor in entomology in 1953.

As director of the Cooperative

Extension Service, Guyer will also serve as assistant dean of the College of Agriculture and Natural Resources.

He will be responsible for the staff of campus specialists and field agents with offices in 80 Michigan counties.

Charles F. Cnudde was named chairman of the Department of Political Science effective Sept. 1. He succeeds Charles Press, who will return to teaching and research. Cnudde will become acting chairman July 1.

Cnudde comes from the University of Wisconsin, where he has taught political science since 1967. Previously, he taught at Wayne State University, the University of North Carolina and the University of California at Irvine.

He received an A. B. from the University of Michigan in 1960, and a Ph. D. from the University of North Carolina in 1967. His doctoral dissertation was an examination of race politics in the South.

Cnudde is coauthor of "Empirical Democratic Theory," and author of "Democracy in the South," in addition to extensive publications in journals.

In 1970 - 71 he was visiting senior lecturer in government at the University of Essex in Colchester, England.

Retirements

Five retirements were approved by the Board of Trustees at its May meeting:

EDWARD HAID, laborer, Department of Poultry Science, effective June 1 after 19 years with the University.

DELILAH D. KELLER, Extension home economist, Cooperative Extension Service, effective July 1 after 17 years serving with the University staff.

EVA M. LYTE, food service worker, Union Grill, effective July 1 after 21 years with the University.

MRS. MAURICE M. RITCHEY, senior clerk, Department of Food Science and Human Nutrition, effective August 1 after 18 years with the University.

ORLIN C. WILLYOUNG, coordinator, Physical Plant Maintenance, effective July 1 after 19 years serving with the University staff.

... Affirmative action

(Concluded from page 1)

Mary Rothman, director of women's programs, said since February her office has identified about 30 "problem areas" affecting women that would be addressed in the near future.

Gumecindo Salas, director of minority programs who has been on campus only a month, said three areas would receive priority attention by his office: identifying career areas in which minorities have not traditionally participated; attracting more minority students to graduate school; and bringing more minorities into non-academic areas.

Josephine Wharton, coordinator of women and minority training programs, reported that 2211 questionnaires returned by clerical employees have helped identify training needs, some of which are already being implemented. One example she gave was speedwriting classes offered through Lansing Business University that were made available for the first time winter term.

She outlined a five-point, recommended career advancement and educational enrichment program that includes the creation of job mobility through well defined "career ladders" for each employee to progress according to individual ability.

Trustee Patricia Carrigan asked that time be allotted at next month's meeting for further discussion of affirmative action efforts since she had a

number of questions about progress made so far.

Trustee Don Stevens also voiced some reservations, saying he suspected that "walls have been created to keep some departments as lily white and male as possible," and that a "club in the closet" might be necessary to enforce the University's goals.

Grapevine Journal

In other action, the Board heard a presentation by editor George White on behalf of the Grapevine Journal.

White said the newspaper would "cease to exist within days" unless its financial problems were solved, and asked the Board to help assure that it would continue publishing.

He said the University should "stop discriminating" against alternative publications by collecting student taxes only on behalf of the State News, and give students the option as to which publication their \$1 would go.

At its finance meeting before the regular meeting, the Board appointed an ad hoc committee to explore alternative solutions to the Grapevine Journal's problems and to report at the June meeting.

The committee is composed of Trustees Aubrey Radcliffe and Warren Huff, University Attorney Leland Carr, Vice-President for Student Affairs Eldon Nonemaker, Assistant Vice President Stephen Terry, two representatives of the Grapevine

Journal, and the chairman of the State News Committee for Alternative Publications.

Gifts and Grants

The Board accepted gifts, grants and scholarship funds amounting to \$2,959,211, including more than 3,600 shares of Dow Chemical Co. stock valued at nearly \$400,000.

The gift of Dow stock was accepted from William J. and Hannah Baker of Midland. Baker, a 1915 graduate of MSU, has been a longtime benefactor of the University.

Other major donors were the United States Agency for International Development (AID) with grants totaling \$551,090; the National Institutes of Health (NIH) \$127,391; the National Science Foundation (NSF) \$130,030; and the United States Department of Agriculture \$193,200.

Scholarship funds accepted totaled \$55,792.

A previously announced grant of \$535,526 was accepted from the W. K. Kellogg Foundation to aid the Colleges of Human Medicine and Osteopathic Medicine in developing a cooperative program to improve delivery of public health service in three of Michigan's local health departments.

The Institute of Water Research was granted \$326,000 from the Rockefeller Foundation for research in the hydrological, chemical and public health aspects of wastewater reclamation.

MSU News-Bulletin

Editor: Mike Morrison

Associate editor: Sandra Dalka

Calendar editor: Patricia Grauer

Editorial assistant: Janice Hayes

Editorial offices: Rooms 314 and 315, Linton Hall, Michigan State University, East Lansing 48823. Phone: 355-2285.

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

Council agenda set

The announcement of the appointment of the Ad Hoc Committee to Review Academic Governance and the annual report of the faculty grievance official (FGO) are major agenda items for today's meeting of the Academic Council.

The final meeting of the council for this year will be held at 3:15 p.m. in the Con Con Room, Center for International Programs.

The announcement of the review committee by President Wharton will enable the committee to begin its review of the system with the purpose of strengthening academic governance and improving the effectiveness of the student, faculty and administrative participation in academic governance.

The committee, which is faced with a Nov. 13 deadline for recommendations, is to be composed of two students, one graduate and one undergraduate; four faculty members; and one line administrator, from the level of dean or higher. President Wharton has selected the committee from nominations from various University groups.

Michael Harrison, professor of physics and the University's FGO, will present his report for the period of July 31, 1972 - May 15, 1973.

The report states that the faculty grievance office has processed a total of 37 grievances. Ten of the cases are pending, while 23 cases have been settled informally and four cases have been settled through formal hearing board conclusion at department or school level (two), college level (one) or University level board or committee (one).

Other council agenda items include an information report on academic advising and the University Curriculum Committee report.



Three Michigan residents were honored by the Board of Trustees Friday as "Distinguished Citizens" at a Kellogg Center luncheon. They are, left to right, former State Senator Frank Beadle; the Rev. Mother Charleszetta Waddles, founder of the Perpetual Mission for Saving Souls of All Nations, Inc., in Detroit; and Gladys Olds Anderson, chairman of the board of R. E. Olds Company known for her many civic and charitable interests.

Governor William G. Milliken, in a letter congratulating the Board on its selection, called Senator Beadle "a man who has won the title of 'statesman' in the fullest sense for his years of

thoughtful, active work within Michigan government."

The governor described Mother Waddles as a person "known throughout Michigan for her compassion for others, particularly those life seems to have passed by;" and said Mrs. Anderson "has contributed greatly to a better life for countless people" through her charitable and civic endeavors.

In accepting his award, Senator Beadle said, "I recognize in choosing me for this distinguished award, that you're honoring the legislature, which is the medium through which I was able to do some of the things for which you are paying me tribute today."

Ambassador speaks

Panama's ambassador to the United States will make his first public American speeches in a pair of lectures today (May 31) on campus.

Nicolas Gonzalez - Revilla will speak at 10:20 a.m. and at 1:50 p.m. in Room 114 of Bessey Hall. His topic will be "U.S. Colonialism in Panama."

The issue of U.S. presence in Panama through its governance of the 40 - mile long Panama Canal was most recently raised in the United Nations Security Council with a resolution calling for the U.S. to relinquish all control of the Canal Zone.

The resulting vote was 13 to 1 against the U.S. But the resolution failed since the U.S. exercised its veto power - although only the third time it has done so in UN history.

Gonzalez - Revilla has been Panamanian ambassador to the U.S. for about six months. At 27, he is the second - youngest foreign ambassador in Washington.

He is expected to discuss the historical background of U.S. - Panama relationships and the current Panamanian position on negotiations for a new canal agreement. One argument by Panama is that the U.S. is using the Canal Zone as a major American military installation.

His MSU lectures will be part of the University's Great Issues Course in the University College. The morning talk will be from 10:20 to 11:10, and the afternoon lecture will be from 1:50 to 2:40. Although the sessions are part of regular classes, visitors are welcome to attend.

Cosponsors of the Gonzalez - Revilla visit are the Latin American Studies Center and the Department of Economics.

His appearance is being coordinated by Milton Taylor, MSU professor of economics who has done extensive fiscal research and consulting work in Panama over the past 10 years.

Women meet

Walter Adams, professor of economics and national president of the American Association of University Professors, will speak on tenure to the Women's Advisory Council at its Monday meeting (June 4.) The group meets at 9:30 a.m. in Room 443 - B, Administration Building.

Ruth Useem, professor of sociology, will also report to the council on meeting with the University's Tenure Committee.

The council is also scheduled for reports on State News advertising and the Women's Center proposal.

Future meetings of the group are scheduled for June 18, July 2, July 16, and July 30. Future agenda items include a resolution regarding professorial discriminatory remarks, job security for part - time employees, training programs for women and television programming.

Bernitt explains informer policy

Richard O. Bernitt, director of public safety, released a statement Wednesday outlining the department's policy with regard to obtaining and using information of possible criminal activity.

The policy, he said, "has been subject to unfortunate misunderstandings and distortion. It is therefore important that a clear statement of this policy be issued."

He made the following points:

*The Department of Public Safety is responsible, to the maximum extent possible, for the prevention of crime on the campus, and the detection and apprehension of those engaging in criminal acts.

*The department is legally required to accept, investigate and act upon information volunteered by a citizen which would indicate that a crime may have occurred or is about to occur.

*The department encourages any responsible citizen to report information of a possible crime, but it does not recruit persons to serve as informers. Information received from such persons, however, will be evaluated as part of the department's crime prevention responsibilities.

*The department does not employ paid informers in carrying out its duties.

*The Department does not engage in "political" surveillance of individuals or organizations, nor does it keep any "political dossiers."

"It is the question of how information is received which undoubtedly results in the greatest misunderstanding," he said. "As noted, the department does not employ paid informers; however, we would be derelict in our duties if we did not accept any information which indicated the possibility of a crime.

"With respect to the infrequent presence of plainclothes officers at some public meetings, it

should be understood that his has had no political connotation. Rather, it began several years ago when there was undeniable evidence that some individuals were using such meetings as a cover for carrying out criminal acts. The presence of professional police officers was deemed a necessary deterrent to crime under the conditions which then prevailed.

"To the extent that such public meetings are now carried out in a reasonable and responsible manner, the department does not believe that a police presence should be necessary. However, should there be a demonstrable change in that climate, the department must take such actions as necessary to meet its crime prevention responsibilities.

"The Department of Public Safety believes it has an important part to play in the maintenance of a peaceful and safe campus so that the rights of every citizen may be protected. To meet its responsibilities, it requires the cooperation and respect of all those in the University community. We hope that the policy stated here will continue to earn us that cooperation and respect."

Outlook good

College of Agriculture and Natural Resources graduates in 1973 can expect slightly higher starting salaries and better job opportunities than those of a year ago.

This guarded optimism comes from a survey of 14 midwestern colleges of agriculture reported by David L. Armstrong, director of resident instruction for the college.

"A year ago, MSU agriculture graduates received an average starting monthly salary of \$717," Armstrong said. "This year they can expect \$735."

Strongest demands for 1973 graduates are in sales and management, food science, high school vocational teaching, agricultural journalism and plant science, the survey indicates.

From errant beds to potatoes

Campus telephone operators frequently go "beyond the call of duty" in handling the requests for information that reach their consoles, as the following article points out. It was written by Marilyn Liebrecht, a graduate student in communications, and is reprinted from the current issue of the MSU Alumni Magazine.

"How do I get my hide - a - bed down?"

"How long do you bake a potato?"

"Could I speak to Mary? She drives a red Chevy."

If you are a campus telephone operator you learn to expect almost anything. Questions have been asked on how to get bees out of the attic, bats out of the garage, moles out of the back yard. One request came in for an ophthalmologist - for a dog.

Another caller wanted to know how to get rid of his girlfriend's worms. When he was given the number for the MSU Health Center he added, "No, not in her, these worms are in her trees."

Eight operators are on duty to answer the assortment of requests - or transfer the calls to people who can. General information questions are given over to the Reference Desk in the Main Library.

(Callers are encouraged to call 353-8700 for such information. The job of "trying to find events that no one tells us about," according to Florence Hickok, head of the Reference Desk, also includes locating places and times of final examinations which have been changed from the printed schedule, determining what books are not in the library, estimating what time a movie will be over, and running through an entire list of weekend campus activities).

But when the Library closes, University telephone operators are again the focal point for information about MSU. A total of 34 operators keep the lines open seven days a week, 24 hours a day.

The size of the campus (it's a small city of more than 50,000) seems beyond the comprehension of many callers. "I had a lady call and ask for the dean," operator Julia Gill recalls. "When I asked her which one, she became very flustered, and said, 'Oh, I didn't know you had two!'"

Operators are often asked for "Mr. Smith." Their directories contain 10 pages of listings for Smiths. Or, the caller will say, "I want to speak to Jane, she lives in Brody Hall." Given additional information, the operators

can attempt to locate the person, but sometimes it's impossible.

Eva Beckley, chief operator, and a 20-year veteran on MSU phones, says once, years ago, she received a long-distance call for a man working at a fair on campus - a fair that sprawled over 500 acres. Ms. Beckley explained that individual booths did not have telephone connections. "Well," responded the LD operator, "you certainly can page him then."

"Is that 'P' like in Paul?" "No, that's 'P' like in Pennsylvania." Spelling is a common request, presumably by students who do not have dictionaries. But June Schalow, one of the all-night operators, says the operators often check their dictionaries and look up the words. Another common evening call is from students wagering on subjects such as the age of Governor Milliken (he's 51), or the name of the fifth president of the United States (James Monroe). When they call operators for the answers, "We get together," says June, "and usually can come up with the answer."

Many a frantic parent has called the operators, attempting to locate a son or daughter. Operator Maxine Barnhart remembers the time, years ago, when a mother called to say that her daughter had left her white shoes in the back of a foreign student's car, and could they locate the shoes? Sounds like an impossible task, but Maxine says they found the student lived at Owen Hall, and got the shoes back.

Other parents report having called their son or daughter's room for three days without a response. In such cases, the resident hall advisors or the campus police are notified.

Foreign students have a reputation among the operators for being exceedingly polite - even when confronted with a system that often confuses them. One operator, when giving an address, said, "that's 1623 B, like in Boy, in Spartan Village." The response came back, "I understand the 1634, but, please, what is Bee Likenboy?"

Another student, confused by the operator's usual reply of thank you, asked, "Why do you thank me? I have done nothing for you."

Operator Kathy Badgers tells the story of a fellow who called and asked about a tonky honk. "You mean a honky tonk?" she offered, "a nightclub."

Students have not changed much in the last 15 years, it seems, they just call later. Operator Schalow, a mother of

six, says years ago, no one would think of calling a friend after midnight except in dire emergency. Now students think nothing of dialing each other at three or four in the morning. Professors also receive an assortment of calls from students about this time, and some have unlisted numbers for this reason.

Obscene phone calls are extremely rare, says Eva Hartzell, a senior operator who has been in her position for more than 15 years. "Sometimes a few off-color words slip out," she says, "and we just put the caller on hold for a bit." Many operators feel like mothers to the students, and they've discovered that some callers have no questions, they just feel lonesome.

Cooking poses another problem for students away from home. Florence Hickok says the Library Reference Desk has had calls on everything from artichokes to turkeys. Did she answer them? "I'm sentimental about artichokes, and told the fellow what to do with them. But I don't know what happened to the turkey."

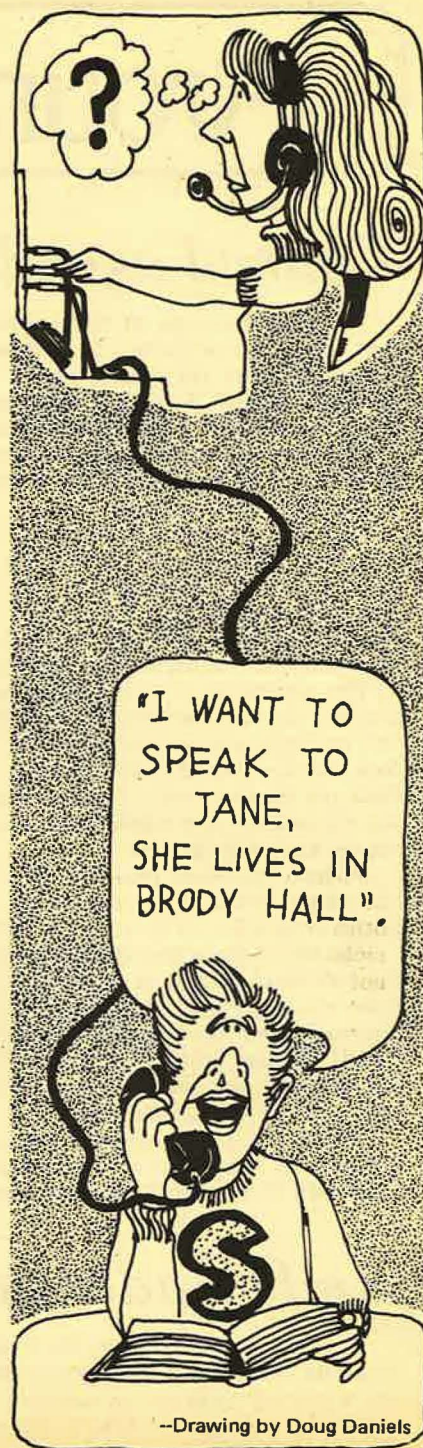
Then there was the long-distance call from Ann Arbor on how to make gumdrops, recalls Operator Dorothy Blodgett. Another call came in from a lady who had a piece of meat covered with mold, but who did not want to throw it away. The call was referred to the College of Human Ecology.

Maxine Barnhart had a call this fall, from a fellow who wanted to know how to cook corn. She assumed it was on the cob, and told him to boil it in water for about 20 minutes. It turned out he had a can of corn instead.

The operators man eight consoles and they each have directories and resource aids handy, including electronic innovations such as an overhead computerized viewing screen which allows the operators to merely type the name of the person whose phone number is desired and the number flashes across the screen.

Although the old switchboard was replaced by a modern Centrex system more than 10 years ago, the personal touch has not been shortcircuited.

Chief Operator Beckley remembers the time a man called to say he was having car trouble and would not be able to pick up his wife on time. She would be standing outside Agriculture Hall, and could the operator get the message to her? Eva got the lady's



--Drawing by Doug Daniels

description and personally delivered the message.

Term break for the students gives the operators a break, too. During busy times they must handle more than 200 calls an hour. Springtime brings more calls, since the directory listings are more out of date.

Most callers do not seem to realize the equipment is modern, because requests are often prefaced with "plug me into..." or "do you have a directory there?" or, "while you've got the book open." Maxine Barnhart, after helping one caller, was told, "You're not a recording, you're a real live operator."

LEASE available for businessmen

The College of Business is giving assistance to small businesses through a program called LEASE in cooperation with the Center for Urban Affairs, the Lansing Model Cities Program and the U.S. Small Business Administration.

The Lansing Entrepreneurial Assistance Service (LEASE) is a small business entrepreneurship - student program with a dual purpose, according to David Hill, coordinator of LEASE.

Senior business students get a chance to put classroom techniques into practice fall term. They are given a set of tools to analyze a small business in a pragmatic situation, tear it apart and then put it back together again, he said.

Then disadvantaged businessmen who feel that some aspect of their business is not up to par can work with a team of LEASE students winter and spring terms to track down the difficulty, he explained.

Now completing its second year, Hill feels that the program has been

successful. So does Robert Rosenthal, LEASE participant, who found that LEASE reinforces classroom knowledge in a real-life situation.

Andrew Krutsinger, who started working with the Waste Disposal Plant in connection with LEASE, now works there full time.

LEASE provides assistance to disadvantaged or minority businesses in the areas of accounting, finances, sales and marketing and management.

Hill explained that the relationship between the businessman and the student team often starts off as an iceberg.

"The student must try to build a credibility factor with the businessman who has asked for help."

"We tell the businessman that the students are not miracle workers. They merely have the resources to bring information and ideas that are needed together," he explained.

This year Hill had requests from 23



LEASE participants are from left to right, John Shannon, Lisa Pollard, Robert Rosenthal and Gene Martin. Shannon and Rosenthal are seniors in the College of Business and work as a student-team. Miss Pollard and Martin are employees of Crossroads Imports, East Lansing.

different businesses ranging from institutional to governmental or private. The twenty-five participants are

working in connection with 18 of the 25 business applicants.

-JANICE HAYES

What makes him run?

The geriatric jogger: a study

By W. Fred Graham
Associate Professor
Justin Morrill College

If we cut quickly through irrelevant statistics we arrive quickly at what every geriatric jogger knows — that more men and women in the middle years are running and jogging than were two, four, or half-a-dozen years ago.

At noon recently on the indoor track at Jenison Fieldhouse, I was intimidated a little by two small knots of aging jocks who stormed past me several times during my two-mile run. The furlong track was choked by nearly three dozen runners that particular hour, whereas half a decade ago I might well have had the surface to myself.

What follows is not the result of a questionnaire, but distills literally scores of conversations that I have had with other slightly senescent runners over the past seven years. Some of these people have been steadfast, others fickle, but all of them have been motivated in self-imposed pain; but not all for the same reasons.

For aging trackmen fall naturally into three groups, with some overlapping and changing of motivation, as will be noted in transit.

There are the "Aerobicites," who for different reasons want a healthy cardio-vascular system, the "old jocks," who want to beat others and themselves in time and distance, and "quiet-time" runners (or addicts), who order their lives and regulate their days by this daily discipline.

None of the three, I have discovered, can understand what motivates the others, yet all will be found on the same track at the same time.

Kenneth Cooper's justly popular handbook, "Aerobics," is the Bible for that first bunch, who want to stay alive and believe running will help them. The reasons for their faith are clearly exposed in that book. Suffice it here to say that Cooper believes a racing heart and laboring lungs and improved ability to use oxygen are the keys to good health and longevity.

I began as an Aerobicite before my conversion. I was thirty-five and got started after a clumsy leftfielder kicked an ordinary single I had hit in a softball game, and my dash around the bases for a cheap home run left me crippled for two weeks. Terrified that I was already headed downhill to the cemetery, I began to jog and I have never stopped.

Some Aerobicites are like myself — they just don't want to be so old so fast. Like many Americans they are loathe to quit the Pepsi generation, but unlike most, they know it takes hurt and time to keep fit.

Others of that ilk take Cooper more seriously — they want not only to stay healthy, but to stay alive. Running

*In which the author eschews
purely temporal concerns about a
prolonged life and a lost youth in his
search for nirvana with sweat socks.*



—Drawing by Bob Brent

is their "memento mori" (reminder of death), and they stick to it with grim determination.

A friend of mine says he takes comfort in a push broom that stands in a corner of Jenison Fieldhouse. "When I'm eighty-four," he smiles, "I'll collapse over near that corner on the last turn, and you can take that broom and push me off the track. I'll be finished." Perhaps I shall someday embrace that philosophy — maybe when I'm eighty-three — but not just yet.

The second group, the "old jocks," have never forgotten the joy of winning. One of the more aggressive I know claims to be bewildered by a fifty-five year old veteran who runs exactly two miles in 15:55 three days a week. "How can he do the same old thing over and over without boring himself into a quilted bin?" he asks.

I, however, have my own problems with that jock's own regimen. Each February he recommences to drag his two hundred-and-thirty pounds laboriously around the oval. In March he allows me to pace him to a 15:30 two mile. In April he smashes fourteen minutes, dashes a mile in 5:35, and has his weight down to two hundred (he stands 6'5"). In May he joins a Saturday club of similar creed to his own, and by June he is running in meets. However, his vacation arrives in July, he quits running, and picks it up again next February.

Of course not every old jock is so sporadic as that one. Still I have observed that the agony of making archaic muscles go faster, lungs and heart work better, is very difficult to handle psychologically, and most of the fierce competitors are not as regular over long stretches of time as their duller and slower colleagues.

More than the rest of us, they seem to suffer from blisters, shinsplints, and pulled calf muscles. They are, however, real Americans. They form clubs, hold rallies (yes, they often use that stock-car designation), keep records, encourage each other to try harder and longer. "Excelsior!" is their motto.

I am occasionally propositioned by old jocks to run in a "moonlight rally"

or a "mini-marathon" or a "turkey trot," but I steadfastly refuse because my prime motivation is that of our third group. I am a "quiet-time runner," for whom running, like a daily period of devotions, provides an ordering point for the day.

It took this amateur investigator a long time to realize that this is my own motivation. I had known for a long time that I was not a competitor. When Tough John (who recently showed me three blisters on his foot, each superimposed on the one below it — he had trotted eleven miles in 77:40 that day!), when Tough John says he'll lead me to a 20:30 three mile, I am not even mildly tempted.

For if I did that, then next week I'd have to run it in 19:58 — and so on, always faster or longer, "ad mortuum." But when non-runners challenge me with the possibility that running may cause arthritis of the knees or some other physical ill, I am not bothered because I run, not so much for health, as for spiritual or psychological wholeness.

Your average runner needs a time to himself to order his day, to orient the minutes in a disorienting daily schedule. To the non-believer this may appear to be a mad way to stay sane. But it works.

Take myself, for I am typical, not unique. I teach classes, advise students, serve on committees, try sometimes desperately to find time for reading, reflection, and writing. I have a lovely wife and four delightful children who have rightful and cheerfully given claims to my time. I work with civic, church, and community groups. Like many people, I am tossed and bossed.

But that hour when I take my tote bag to the locker room, change into ritual clothing, and do my two miles in sunshine or rain, over track or grass — ah, that is a healing hour, a rebaptism into newness of life, the quiet center of my day.

I never run on weekends, and I am convinced the reason is that life's disorder is not so great when classes, students, and committees are not prowling about seeking to eat my life away in tiny pieces.

Nor do I anxiously peruse "Aerobics" any longer. Physical conditioning is important — I need to be able to finish my daily course — but improvement, cardio-vascular points earned, and all the gradations which Cooper records are irrelevant now.

The day has been seized (Carpe diem, "seize the day," said St. Augustine, who must have jogged to escape the pressure of his episcopal and theological duties). The hour has renewed my world; I am saved! For the hour itself is redemptive, like time spent in your closet, or floating on your back on Walden Pond.

Seniors honor five faculty

Five faculty members have been selected as "Distinguished Educators" by the Senior Class Council.

Chosen to receive 1973 Distinguished Educator Awards are Andrew Barclay, associate professor of psychology; Eleanor Huzar, professor of history; Allen W. Jacobs, assistant professor of anatomy; Donald S. Gochberg, associate professor of humanities; and Kent J. Chabatar, assistant professor of political science.

They will receive their awards at a banquet tonight sponsored by the Senior Class Council and the Alumni Association.

The awards are presented to "members of the academic community who have made significant contributions to the student body through their educational efforts."

Nominations were received from students and other interested persons, with the council making the final selections.

Achievements

A University professor who has been instrumental in establishing a rehabilitation counseling volunteer program between the United States and Central and South America has received a presidential citation from the National President's Committee on Employment of the Handicapped.

JOHN E. JORDAN, MSU professor of counseling and educational psychology, received the citation at the recent annual meeting of the committee in Washington, D. C. commending him for his work.

Jordan is national director of the Partners' Rehabilitation and Education Program (PREP) which is a project of the National Association of the Partners of the Americas. He began the Michigan-Belize (British Honduras) PREP project in 1966 which led to the building of the first school for the mentally retarded in Belize. The all-volunteer project continues to be active, providing specialized training, materials and equipment, consultation, medical assistance, research and education.

C. W. MINKEL, professor of geography and associate dean of the School for Advanced Graduate Studies, will return to South America on a Fulbright Award, for six weeks in July and August.

Minkel will work with the Asociacion Colombiana da Geografos to develop geography as a professional discipline within Colombia. He also will teach a post-graduate field course at the University of Tunja, Colombia, with participants primarily faculty members in Colombian universities and personnel in governmental agencies.

His work will be a continuation of a summer project over the past two summers.



W. Fred Graham

The arts



BY FRED BRUFLODT

PAC entertains servicemen in Azores; MFA exhibit in Kresge Art Center

While most MSU students are preparing for finals, 14 members of the MSU's Performing Arts Company (PAC) are entertaining American servicemen in the Azores with the musical, "A Funny Thing Happened on the Way to the Forum."

The PAC members, mostly graduate students, left MSU last Wednesday for a nine-week tour of "Forum" plus an original variety show, "Antics A -

Broad," sponsored by the USO, the American Theatre Association and the Defense Department. Following its five-day stint in the Azores, the group will tour West Germany and northern Italy.

Although the PAC presented "Forum" to MSU audiences last month in Fairchild Theatre, the USO production will be a bit different. Not only will the students appear in the show, they will also have to handle the

other aspects of the production, including lighting, costumes, and properties.

In 1964, MSU theatre students entertained U. S. military personnel with the musical, "Boys from Syracuse."

The current tour concludes with two weeks free time in Europe for each of the participants.

MFA Exhibit

As a requirement for the Master of Fine Arts degree at MSU, the MFA candidates must show their work in the Kresge Art Center Gallery.

The current MFA exhibit, however, is more than an academic exercise: it provides the gallery visitor with a varied and worthwhile series of visual experiences.

Upon entering the gallery, the visitor first sees ceramic work by John Stewart. This selection of functional objects includes two large plant holders and an unusual cookie jar. Stewart is also showing some of his drawings.

Georgia Forster, who is a printmaker, has included a series of four panels with a repeating design.

Rosa Patino is exploring the new medium of television - new in the art gallery, that is. She has displayed photos of the images she has put on videotape. Gallery visitors can also see her complete TV presentation on the videotape - monitor system which is

part of her exhibit.

John Bloyer's large and boldly patterned acrylic - on - canvas paintings demonstrate color interaction and the illusion of space.

Entering the North Gallery, Cort Strudwick is showing a series of paintings as well as a series of sculpture - case resin or metal and vacuum formed plastic - presenting forms similar to those in his paintings.

On the far end of the North Gallery are several sheet metal sculptures by Greg Jaris. Most are small enough to be hung on the wall; one large sculpture stands on the floor. Two of Jaris' drawings are also included.

The MFA Exhibit continues through June 10. Gallery hours - 9 a.m. to 5 p.m. - include the lunch hour. Most of the works are for sale.

In Orchestra

Two MSU music students have been granted scholarships to study in the National Youth Orchestra this summer at Wolf Trap Farm Park for the Performing Arts in Virginia.

The students are cellist Bonnie Beuthien, who studies with Prof. Louis Potter, and Linton Bodwin, a string bass player who studies with Virginia Bodman, associate professor of music.

The members of the National Youth Orchestra study with the music faculty of the American University in Washington, D. C.

Achievements

MARGARET JACOBSON BUBOLZ, chairman of the Department of Family and Child Sciences, has received the Award of Merit of the Michigan Council on Family Relations. The award, presented at the council's annual conference held recently, recognizes her "continuing service and outstanding contributions to family life education and related fields."

Among the council officers elected at the conference were: president (1975) THELMA DUNN HANSEN, instructor of family and child sciences and family ecology; vice - president (1975) LOIS HUMPHREY, program director, family living education. Cooperative Extension Service; secretary JEANNE M. CONVERSE, Branch County extension home economist; and board member LUELLA HAMILTON, extension home economist, Onkama.

DAVID J. ELLIS, professor of large animal surgery and medicine, was selected by student vote to receive the Norden Teacher Award as the outstanding veterinary teacher. The award, which includes a \$400 check, was made at the College of Veterinary Medicine's annual awards banquet held recently.

M. Z. KRZWOBLOCKI, professor of mechanical engineering, has had his first papers and his curriculum vitae included in the Hall of the Smithsonian Institution, National Air and Space Museum. Krzwoblocki, born in the previous Austrian - Hungarian Empire, was one of the first pioneers in rocketry. In 1935 he performed tests on flying models propelled by powder rockets on the military airfield in Lwow near the Carpathian mountains.

JACK STIEBER, director of the School of Labor and Industrial Relations, is serving as chairman of a five-member Advisory Employment Relations Committee to the Civil Service Commission on criteria for a system of unit determination and for recognition of collective representatives of employees in the Michigan Classified Civil Service.

PHILLIP L. CARTER, assistant professor of management sciences, was recently elected president of the Midwest Regional Division of the

American Institute for Decision Sciences for 1973-74. The professional organization is dedicated to the development and application of quantitative and behavioral methods to all areas of business and public administration.

CONRAD DONAKOWSKI, associate professor of humanities, has been awarded a Grant - in - Aid of Humanistic Research by the American Council of Learned Societies. The grant will allow him to spend the coming academic year exploring "Memories of a Pious Childhood: Traditional Religion as a Counter - culture Among the European Intelligentsia in the Nineteenth Century."

MSU Positions Available

IMPORTANT: Administrative - Professional and Clerical - Technical applicants should contact the Employment Office at 353-4334 by June 6, 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

Faculty rank depends on experience - Dept. of Human Environment & Design (ABD - all but dissertation) Teaching and research in clothing textiles. Competency and experience in areas of textile properties and performance and economic aspects of clothing.

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

ADMINISTRATION - PROFESSIONAL

425. Student Services Asst. III - (B.A. or education and experience is necessary) To assist students and student organizations to function effectively within the administrative framework of the Univ. and to assist in the development and implementation of specific student services programs. \$10,370 - 13,630

426. Promotion and Public Relations Supv. III (B.A. or equivalent education and experience) Must be able to supervise overall promotion of a TV station. Experience in broadcasting and journalism. \$10,370 - 13,630

HEALTH PROFESSIONS

427. Staff Nurse (Graduate of an accredited school of nursing) current registration with the Mich. Board of Nursing. Ability to work flexible shift. One year of general hospital experience desirable. \$8,241 - 9,576

428. Operating Room Technician IV (Possession of a licensed practical nurse certificate, or proven ability as a lay person who has been taught the technical and procedures of an operating room technician) Ability to participate in in - service education program. \$2,76 - 3.33/hour

CLERICAL - TECHNICAL

429. Sr. Chemist XI (B.S. or M.S. in Chemistry) Ability to supervise analytical laboratory and one or more junior

technicians. At least one year experience in doing Kjeldahl analyses and volatile fatty acid determinations by gas chromatography procedures. \$9,632 - 11,735

430. Sr. Technician IX (B.S. or B.A. - educational background in biology or biochemistry) Strong inclination to be neat, orderly and keep accurate records. \$8,384 - 10,418

431. Laboratory Technician VII (Degree in entomology or related area and training in insect toxicology or combination of experience & education) Supervise the rearing of spider mites and their natural enemies, evaluate toxicity of chemicals to both pests and natural enemies, conduct genetic and biological experiments of above organisms. \$3,59 - \$4.60/hour.

432. Audio Visual Technician VIII - Working knowledge of electronics. Minimum of two years of practical experience. Ability to work weekends and evenings. \$3.49 - 4.60/hour

433. Sr. Dept. Secretary - Excellent shorthand and typist - secretary to the director involves much correspondence with foreign embassies, dignitaries, perspective students as well as many U.S. educational institutions, knowledge of bookkeeping. Congenial, neat in appearance, much contact with foreign students. \$6,660 - 8,272

434. Principal Clerk VI - Experienced keypuncher, knowledge of data processing operations, general office work. \$6,436 - 8,048

435. Sr. Clerk Stenographer V - MSU bookkeeping experience & secretarial skills. Ability to deal with faculty, staff, & public \$6,267 - 7,389

436 & 437. Dept. Secretary V (2 positions) Typing, familiarity with dictaphones, familiar with Univ. procedures, and knowledge of medical terms and office procedures.

438. Sr. Clerk - Stenographer V - Excellent typist; shorthand. To work for several professors. \$6,267 - 7,389

429. Sr. Clerk - Typist V - General office work. Good typing ability, accurate record keeping and pleasant telephone manners. \$6,267 - 7,389

440. Sr. Clerk IV - Good typist. Knowledge of shorthand desirable. \$5,735 - 6,926

441. Composition Technician IV - Ability to do paste - ups and layouts and working

knowledge of the principles and techniques of composition as it applies to the printing trade. One year experience or equivalent schooling in art. \$2.76 - 3.33/hour

442. Sr. Clerk IV - Typing ability. Take orders by phone and over counter. Process orders and handle money. \$5,735 - 6,926

443. Clerk - Stenographer III - Basic typing ability. Library experience desirable. \$5,511 - 6,562

MICHIGAN STATE UNIVERSITY IS AN
EQUAL OPPORTUNITY EMPLOYER

Books

GEORGE W. RADIMERSKY, professor emeritus of German and Russian, recently added to his collection of medieval facsimiles "Die Kleine Heidelberger Liederhandschrift" (A.D. 1275), an ancestor to "Die Grosse Heidelberger Liederhandschrift" (A.D. 1314), also known as the "Manessische Handschrift." Radimersky is the reviewer and American respondent for the "Facsimilia Heidelbergensis," a program emanating from the University of Heidelberg that reproduces in facsimile form significant documents of German medieval culture and literature.

ROSE L. HAYDEN, assistant executive director of the Midwest Universities Consortium for International Activities, Inc., and instructor of romance languages, is the author of "An Existential Focus on Some Novels of the River Plate," published recently by the MSU Latin American Studies Center.

GEORG BORGSTROM, food scientist and professor of geography, is the author of a newly published book entitled "Harvesting the Earth." The world - famous authority on world hunger predicted this winter that mass starvation would occur in India this spring.

Barr seeks school post

Robert O. Barr, Jr., associate professor of electrical engineering and systems science, is one of seven candidates running for two vacancies on the East Lansing School Board in the June 11 election.

Barr, a member of the faculty since 1966, is currently president of the Pinecrest PTA. He is the only MSU faculty member running for the school board.

BULLETINS

HALL ASSIGNMENT

The Residence Hall Assignment Office, W-190 Holmes, will be open from 8 a.m. to 5 p.m. Sunday, June 17. Students not knowing their assigned hall or wanting to make application should be directed to this office or call 5-7460.

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 10:10 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 by May 31.

NEUROMUSCULAR DISEASE A symposium on neuromuscular disease will be held beginning at 8:30 a.m., Friday, June 8. The welcome address will be given by Myron S. Magen, dean, College of Osteopathic Medicine. Sponsors include Osteopathic Medicine, Human Medicine, Veterinary Medicine, Continuing Education, the Muscular Dystrophy Associations of America, and the Greater Detroit Chapter of MDAA.

DIPLOMA PICKUP

Diplomas for spring term graduates will be available for pickup at the Administration Bldg. as follows: advanced graduate degrees, beginning July 2, Room 150; master's degrees, beginning July 9, Room 150; and bachelor's degrees, beginning July 23, Room 50. Diplomas will be released only to the degree recipients upon presentation of identification. Diplomas not picked up by Aug. 3 will be mailed.

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.

GENERAL STORES

The General Stores Department will remain open at fiscal year end to fill department requisitions, which must be received prior to 5 p.m. June 26 to assure charges to 1972-73 budgets. Requisitions received on June 26 will be charged against 1972-73 budgets if possible to do so; otherwise they must be charged to 1973-74 budgets. Departments which do not want charges made to 1973-74 budgets should state on the requisitions: "Return requisition if charges cannot be made to 1972-73 budget."

ADVANCED WRITING

The advanced writing course for doctoral candidates sponsored by the School for Advanced Graduate Studies will be offered during the five-week summer term, June 20-July 25. The course number and title are Justin Morrill 410—Studies in Composition (4 credits). Two two-hour sections will be offered: Section 101, MW, 10:20 a.m., 521 Bessey, and Section 102, TT, 10:20 a.m., 521 Bessey. This is a workshop-conference course with each student receiving extensive individual instruction. For information, call H.R. Struck, 3-0758 or Mrs. Wickham, 3-3853.

FINAL GRADES

Grade cards will be delivered to departmental offices on May 31 and should be checked immediately to determine if there is a card for each student. Grading systems are printed on the face of each card. Final grades are due in the Office of the Registrar, 150 Administration Bldg., 5-9596, 36 hours after the final examination is given. 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, June 7. The final pickup will be made starting at 8 a.m., Tuesday, June 12. Otherwise grades must be delivered to 150 Administration Bldg. no later than 11 a.m., June 12.

CONFERENCES

- June 3-6 Simulation Evaluation Workshop
- June 3-8 Direct Mail Collegiate Institute
- June 4-5 Emergency Medical Technician Trainees Conf.
- June 5 Competency Based Teacher Education
- June 5-14 Basic Fire and Casualty Insurance Institute

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

"Tin Smith and Tinker" shows tin articles dating back to the 18th century, including a rare tinker's forge. These traveling tinsmiths toured the country repairing the housewife's kitchenware. Artisans Hall.

Kresge Art Center

The Master of Fine Arts Exhibition presents 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, Rosa Younkman, Judy Finfer, Georgia Forster, Gregory Jaris, John Stewart, and John Konopa.

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

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.**

MONDAY, JUNE 4, 1973

Thermodynamics of random spin systems. S.D. Mahanti, 4 p.m., 223 Physics-Astronomy. **Physics.**

FRIDAY, JUNE 1, 1973

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

THURSDAY, JUNE 7, 1973

Great barrier reef photorespiration expedition of 1973. N. Edward Tolbert, Chief Scientist, Alpha Helix Research Vessel, 4:10 p.m., 101 Biochemistry. **Biochemistry.**

Supersaturation of gases in surface water: causes and effects on fish. Gerald Bouck, 1:30 p.m., 223 Natural Resources. **Fisheries and Wildlife.**

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.

FRIDAY, JUNE 1, 1973

- 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 follows the 8 p.m. performances, with outdoor observation when weather permits. Abrams Planetarium.
- 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.
- 8:15 p.m. Graduate recital—Truby Clayton, tenor. There is no charge for admission. Music Auditorium.
- 10 p.m. "Sun: Star of Life" (see above). Abrams Planetarium.
- 10:30 p.m. Mariah (see above). McDonel Kiva.

SATURDAY, JUNE 2, 1973

- 2:30 p.m. "Sun: Star of Life" (see June 1). Abrams Planetarium.
- 8 p.m. "Sun: Star of Life" (see June 1). Abrams Planetarium.
- 8 p.m. Mariah (see June 1). McDonel Kiva.
- 10 p.m. "Sun: Star of Life" (see June 1). Abrams Planetarium.
- 10:30 p.m. Mariah (see June 1). McDonel Kiva.

SUNDAY, JUNE 3, 1973

- 4 p.m. "Sun: Star of Life" (see June 1). Abrams Planetarium.

TUESDAY, JUNE 5, 1973

- 12 p.m. University Club luncheon—Charles Sturtz, director, Michigan Bureau of Budget and Programs, Governor's Office, will speak on "Formulating the Higher Education Budget: The Outlook for 1973-74."

WEDNESDAY, JUNE 6, 1973

- 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.

FRIDAY, JUNE 8, 1973

- 8 p.m. "Sun: Star of Life" (see June 1). Abrams Planetarium.
- 10 p.m. "Sun: Star of Life" (see June 1). Abrams Planetarium.

SATURDAY, JUNE 9, 1973

- 2:30 p.m. "Sun: Star of Life" (see June 1). Abrams Planetarium.
- 7 p.m. College of Human Medicine commencement convocation. Peoples Church, 200 W. Grand River, East Lansing.
- 8 p.m. College of Osteopathic Medicine hooding ceremony. Kellogg Center Auditorium.
- 8 p.m. College of Veterinary Medicine commencement convocation. Fairchild Theatre.
- 8 p.m. "Sun: Star of Life" (see June 1). Abrams Planetarium.
- 10 p.m. "Sun: Star of Life" (see June 1). Abrams Planetarium.

BULLETINS

VACATION HOURS

The Men's IM Bldg. will be open from 10 a.m. to 7 p.m. Monday through Friday, June 11-15 and from 1 to 5 p.m. Saturday and Sunday, June 16-17. Pools will be open from 11:30 a.m. to 5 p.m. June 11-15 and from 1 to 5 p.m. June 16-17.

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.

JOGGING

Jogging hours at the Ralph Young outdoor track are daylight to 2 p.m. and 6 p.m. to dark on Tuesdays, Thursdays, and Fridays; 8 to 11:30 a.m. and 6 p.m. to dark on Mondays and Wednesdays; and daylight to 2 p.m. and 4 p.m. to dark on Saturdays and Sundays.

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.

ADVANCED DEGREES

Spring term advanced degree commencement will be held on Sunday, June 10, at 10 a.m. in the Auditorium. Tickets for guests will not be needed.

BACCALAUREATE

Spring term baccalaureate commencement will be held Sunday, June 10, at 4 p.m. in Spartan Stadium if weather permits; in case of rain it will be in Jenison Fieldhouse. If it is held in the stadium, no tickets will be needed and all will be welcome. If rainy weather necessitates using the fieldhouse, guest seating will be limited to two guests for each candidate. Additional guests, without tickets, may view the ceremony from the Auditorium and Bessey Hall via closed-circuit television.

GRAD PAYCHECKS

Graduate assistants' pay checks will be issued Friday, June 8.

BETWEEN TERM HOUSING

Between term housing for foreign students new to the university and students living in residence halls summer term will be available at Fee Hall. Students may check in starting at 11:30 a.m. Sunday, June 10. Summer term halls will open at 8 a.m., Sunday, June 17.

EARLY REGISTRATION

The course sections that students requested in enrolling on the registration section request form will be reserved for them only through early registration, June 5-6, in the Men's IM Bldg. All students who register at regular registration, June 18-19, must obtain class cards for each course.

ACADEMIC ADVISING

Students planning to attend the 1973 summer and/or fall term who have not yet updated their "academic progress plans" should see their academic advisers according to arrangements in the colleges and departments. College and departmental mimeographed materials will be available for use by academic advisers in working with advisees during spring term. The printing of the fall term Schedule of Courses and Academic Handbook is delayed until after the final meeting of the Academic Council in May.

FALL ENROLLMENT

In July, the fall term Schedule of Courses and Academic Handbook with a blank registration section request form enclosed will be mailed to students enrolled spring term who plan to return for the 1973 fall term. Students at that time should refer to their "academic progress plans" developed with their academic advisers, and complete their registration section request forms in accordance with those plans. The completed request forms should be returned by mail to the Registrar no later than Aug. 15. The completed forms will be processed and preliminary class lists and tabulations will be prepared and distributed to assistant deans and departmental chairmen.

FALL REGISTRATION

Students should complete registration and pay fees Monday through Wednesday, Sept. 17-19. The alphabetical Schedule of Registration will be included in the 1973 fall Schedule of Courses and Academic Handbook.