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# MSU News-Bulletin

Vol. 4, No. 24

Michigan State University

April 12, 1973

## College quota system proving effective

Enrollment quotas in the College of Education are doing the job they were designed to do — limiting enrollment to the number of students the faculty can adequately handle.

The quotas were instituted just over a year ago in March, 1972, limiting elementary education majors to 1,100 and secondary education majors to 1,600 seniors and juniors.

The limits were misinterpreted by some as a response to the current tight job market for teachers. However, College of Education spokesmen have been saying for some time that its graduates can find jobs if they're willing to go to where the jobs are.



BY  
JANET  
MARSH

Leland W. Dean, associate dean and director of the School and Teacher Education at MSU, has said several times that during the past two falls, elementary education jobs have gone unfilled. The situation is the same in secondary education, he says, except in social studies, English and foreign languages.

"We never saw (the quotas) as a way to keep a lot of people out of education," says Kenneth L. Harding, coordinator of undergraduate student affairs for the College of Education. In fact, when the quotas were set a year ago, they exceeded the number of students then enrolled.

This past fall the effects of the quotas began to be seen. There were 1,052 seniors in elementary education and 851 juniors. In secondary education there were 1,274 seniors and 890 juniors. As an example for comparison, there were 1,551 seniors in secondary education in the fall of 1971.

Harding explains that the College of Education enrollment was nearing the point where its faculty could not devote the attention to each student that they should. The quotas and course called "Exploring Teaching" are part of an effort to encourage freshmen and sophomores to seriously examine their motivations for choosing a teaching career.

In addition, publicity about the so-called "over-supply" of teachers has also deterred students who were going into education because they weren't sure what they wanted to be.

As a footnote, the publicity about the over supply of teachers was usually accompanied by the observation that there was a big need for special education teachers. As a result, the College of Education has been inundated with applicants for special education, according to Dean.

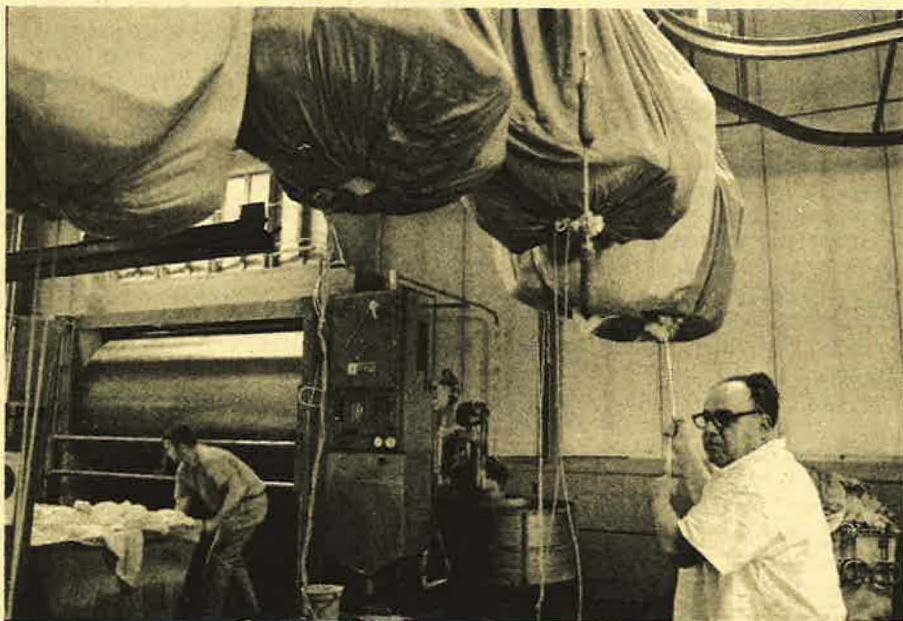
Harding says that almost two out of every three freshmen in the pre-education program say they would like to be special education teachers.

College of Education officials aren't particularly worried at this point because they believe that when these

students become juniors and are ready to be admitted into a specific college many of them will have changed their minds.

The quotas that were introduced limit enrollment in elementary education to 1,100 juniors and 1,100 seniors. Likewise the secondary education quotas limit enrollment to 1,600 juniors and 1,600 seniors. However, the secondary education quotas are broken down into specific categories, such as art, history, and mathematics.

If the quota in any one area is met, but there are still qualified and highly motivated students who would like to be admitted, there is a special appeal procedure.



Within the memory of some faculty members, the University laundry facilities consisted of a collection of scrub boards in the basement of Morrill Hall. For an idea of how things have changed, see the story by Janice Hayes on page 4.

## Salas begins eyeing priorities

Gumecindo Salas has been with the University only three weeks since being appointed director of minority programs, but he is already aware that there are some areas that need to be looked into.

"Several groups have expressed interest in increasing the number of minorities in graduate school," he said.

Additionally, according to Salas, there is a need to provide more grad assistantships for minorities.

"There would be a greater number of minority graduate students if financial assistance was available to them," he said.

Salas added that he is also interested in opening those career fields to minorities that have before been closed. "This includes the fields of medicine, law and dentistry," he said.

Salas said he realizes that he has a late start for this year, but, he said, "I hope to spend the rest of the year gearing up to run full capacity by fall."

Salas will chair a 10-member Minority Advisory Council, which has not yet been named. This group will be appointed by President Wharton with nominations coming from various campus groups.

Salas will also have an assistant director, as yet unnamed.

These two appointments and an as yet unfurnished office in Linton Hall have curtailed Salas. He said, however, that these areas should be settled by early May.

Salas, age 31, has a BA in Spanish and an MA in educational sociology from Wayne State University. Prior to his MSU appointment, he was an instructor at WSU in the science of society and chicano-baricua studies. (Baricua, Salas said, is the designation used by Puerto Ricans to identify themselves.)

Salas has been involved in the development of MSU's College of Urban Development. This involvement has been through the La Roza Unida, a national political organization seeking

more opportunities for Latinos.

"We have watched the new college's development with interest. MSU has great potential in the areas of the poor and minorities with its ideal location in the middle of the state and excellent resources," he said.

He added that MSU is far ahead of the other universities in the state in its affirmative action programs. "The University has already recognized the problems and has allocated monies to these areas. The University of Michigan and Wayne State are just becoming aware of the problems."



GUMECINDO SALAS

According to Salas, another progression made by MSU is the Office of Minority Programs. "This office can be effective in coordinating individual efforts and ensuring that the experiences of minorities are involved in the College of Urban Development and the other University areas."

He said that the main responsibility of his office will be to monitor existing areas of the University to see how these areas are approaching the problems of minorities.

"We also want to ensure that there

will not be duplication in providing service to minorities," he said.

Salas said that the office will be providing liaison between groups and individuals with existing University services. Additionally, the office will be constantly reviewing the system.

Salas and his wife, Leticia, are currently house hunting in the East Lansing area. When asked his hobbies, Salas listed only one — "community organizing."

## EFC meeting dominated

Effective internal and external communication dominated the discussion at Tuesday's Elected Faculty Council meeting.

According to Gordon Thomas, the Secretary of the Faculties, the elected faculty were concerned about obtaining more effective communication within the faculty on matters of faculty concern and obtaining more effective two-way communication between faculty and administration.

He added that although no recommendation was suggested in this area, the faculty are urged to submit suggestions for more effective communication to Frederick Williams, chairman of the Faculty Affairs and Faculty Compensation Committee, and James Bonnen, chairman of the Steering Committee.

President Wharton said that another major thrust of the faculty in effective communication could be between the University and the legislature and especially the general public.

He told of his own efforts to speak before various public groups, which also could be accomplished by faculty members.

"This helps clarify misunderstandings about the University and provides an outlet for informing the public of some of the programs going on within the (Continued on page 4)



## Science notes



BY PHILLIP MILLER

News about pollutants was both good and bad last month at a campus meeting of researchers of waterway bottoms.

Director of MSU's Institute of Water Research, Robert D. Ball, briefed the scientists at the meeting on the unique MSU project for processing wastewater for harvest and recreation uses. Waste water will run from the East Lansing sewage treatment plant to the four recycling lakes (under construction) of the \$2.2 million Water Quality Management Project.

The Red Cedar River was also part of the good news reported at the Midwest Benthological Society meeting.

In a darkened lecture room there flashed several black and white slides of effects of blobs of crude oil, followed by a color - slide presentation of the redressing of a poisonous outpouring into the Red Cedar River.

A Detroit paper, back in the late 60s had shocked people of this Red Cedar region with a story of studies by an MSU fisheries and wildlife scientist, Ronald Garton, who told of a foul discharge from a Fowlerville plating plant upstream. Pollutants had devastated Red Cedar River animals and plants, even the tiniest worms and amoeba.

Now at the meeting a different fisheries and wildlife scientist, Hal F. Harrington, told of a vast reduction of the contaminants in the discharge from the Utilex plating plant, Division of Hoover Ball and Bearing Company, at Fowlerville.

Since 1968 the Michigan Water Resources Commission has prompted cleanup efforts of the plant.

Now, cyanide contamination virtually has been removed. The chromium is down to less than one - tenth part per million.

Levels of zinc and copper are down to levels below some found in tap water from household plumbing of the usual copper tubing and galvanized (zinc - coated) pipe. Often the effluent has copper content approaching that of distilled water (from copper stills). Engineer Jim Dailey at the plant

recently tasted river water at the effluent entry point and drank a sample of it in front of Detroit Free Press reporter Michael Maidenber. "...Dailey did not show any ill effects from his drink..." said Maidenber who tried a sample himself.

"It had a mild soapy flavor but otherwise seemed like normal drinking water," said the reporter.

No one knows what the quarter - million dollar cleansing of Utilex effluent will bring, but at this point it is feasible that the effluent may be cleaner than the river into which it pours. Hope at Utilex is to maintain the discharge to meet any state or federal standards.

Meanwhile, down the river come

sporadic tides of cow dung clumps floating over dissolved nitrate and phosphorus run - off. Further downstream, around bends and under bridges, float white skuds of household detergent scum with who - knows - what beneath.

Another waterway culprit in the news last month was mercury: MSU physiologists Kenneth R. Olson and Paul O. Fromm, Friday, reported their find of serious ultrastructural damage to gill cells of fish. They were first to make the find. Further, Olson developed a simple method to remove a previous barrier to examining fish gills. He removes the mucus barrier from fish

gills so that both normal and damaged surface details could be examined in full clarity.

Some 20 other MSU scientists participated in the meeting and many more attended.

Some benthological researchers, including leading authorities, came from as far away as Washington, New York, Louisiana, Florida, Utah and Kentucky.

Olson, and many other MSU biologists, will present details of their current research at a meeting in Atlantic City next week (April 15 - 20) where scientists of the Federation of American Societies for Experimental Biology will meet.

## Waterway researchers receive good and bad news on pollution

## Hannah: continued aid crucial

The United States must continue its leadership role in world affairs, including the war on world poverty, if there is to be a generation of peace, former MSU President John A. Hannah said Friday (April 6) at Kellogg Center.

Hannah, currently administrator of the U. S. Agency for International Development, addressed District 636 Rotarians.

"This is one of the most important challenges that faces President Nixon, the Congress and the American people," he said.

"Much of the machinery for a systematic attack by rich and poor countries on the problem of world poverty is in one place," he told the Rotarians.

"The key question is will this country give the problem the priority it deserves?"

"There is only one intelligent answer. This country has no acceptable alternative," he said.

"This means that we must concentrate on applying a modest part of this country's science, technology, management skills and research competence to a limited number of the basic human problems which are common to the poor countries," he continued.

"This concentrated effort must be in cooperation with other developed

nations and with the United Nations specialized agencies and the World Bank and the Regional Development Banks," he underscored.

Hannah said that the assistance must be people - oriented . . . that developing countries must be responsible for their own development . . . that U.S. and others can assist, but that the problems



JOHN A. HANNAH

belong to the developing nations and must be solved by their people and

largely with their own resources.

Hannah said that the first aim of U.S. AID will continue to be "working with the developing countries to resolve the problem of adequate food and nutrition for all people in the poor countries." The next priority of the bilateral - assistance development program will be continuing to assist with populations problems and a minimum health standards, he said. Another high priority will be to continue education and human resource development.

He explained that AID will continue to concentrate on helping to develop new means of low cost education and that it will continue its trainee programs which have helped to educate 160,000 technicians and administrators now functioning in most of the less developed nations.

In a speech entitled "America's Commitment to Developing Nations," he also listed these additional priorities: reconstruction in Vietnam, Laos and Cambodia, and opening up the international economic system in ways which permit developing countries to expand their trade, increase private capital flow and gain increased resources for development.

Hannah explained his rationale for U. S. persistence in foreign assistance: "It is my deeply held conviction that the future of this country cannot be separated from the future of the world. The United States cannot achieve its aspirations for peace in isolation from the less developed countries. Meeting the challenge of underdevelopment is one of the prerequisites for building a stable international order and expanding international economy."

"We cannot ignore this worldwide problem. If the poor nations of the world do not progress toward better lives, there is no way the developed world can immunize its citizens from the consequences."

"We have no alternative but to join with the people of the other developed nations of the world in a common effort to do our fair share to help the peoples of those countries who want to help themselves harness their own resources, to move in the direction of improved quality of lives for all people."

VIRGINIA BAIRD

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## Relaxation and fear explored

Take it from a white rat: the way to counteract anxiety or fear is to stay in or return to the fearsome place until you learn to relax there.

Implications for therapy for many persons including those with generalized or free - floating anxiety, are seen by M. Ray Denny, Michigan State University professor of psychology, in his ongoing studies of avoidance learning by white rats.

Denny's laboratory work, aided by grants from the National Science Foundation, has persuaded him that, with the removal or absence of shock, there is a clear behavioral difference between relief, as a sudden, sharp reduction in autonomic activity, and relaxation, as a gradual return to a neutral state.

Relaxation can occur in a fearful rat if he is left alone, or if the fear - provoking stimulus that was previously associated with electric shock is removed. Relief, on the other hand, typically takes place after the removal of shock. When the rat is extremely frightened, however, relief also seems to occur with the removal of the fear - producing stimulus.



M. RAY DENNY

If a rat is put in a white box and shock is administered and then stopped, the rat, about five seconds after termination of shock, reacts with a

marked change in heart rate and other visceral activity that lasts five to 10 seconds. But he remains relatively "frozen" in his skeletal - muscular posture. He does not begin to relax until about two and a half minutes have elapsed since the shock.

"The implications for human beings," Denny suggests, "appear to be that people can be treated in much the same way. An impulsive flooding of a human being with a stimulus that provokes anxiety, but without bad effects actually occurring, will help remove his anxiety."

"Eventually, the person must begin to relax, and the more often this process occurs, the more relaxation counteracts and eliminates the fear of this stimulus and all it stands for. That is, positive feelings replace negative fear."

Denny uses small electric shocks applied to the feet of the rats that are docile and not noticeably upset when outside the potentially hazardous area. The shocks are no more harmful, he said, than a gentle pinching of the rats' tails.

-FRAN MURRAY



# Around the campus: A summary

## Sparty promotes

## Health Professions

A king - sized white clinic coat, jumbo stethoscope, and imported doctor's bag initiated Sparty into the medical profession Monday at noontime ceremonies conducted by the Organization of Health Professions Students (OOHPS).

Hardy Sparty withstood the initiation despite the snow, wind and rain which struck the area.

Mike Shaw, OOHPS president and first - year osteopathic medical student, said that Sparty was made an honorary medical student - temporarily - to draw attention to Saturday's Health Professions Day open house on campus.

"More than 20 different health professions will be represented, including 12 from MSU and several from Ferris Institute, Lansing Community College, University of Michigan and Wayne State University," Shaw said. The Michigan Health Council is participating as a cosponsor.

Activities will be based in facilities of MSU's three medical schools - the College of Human Medicine, College of Osteopathic Medicine and College of Veterinary Medicine - and at the School of Nursing and the Department of Audiology and Speech Sciences.

The program will include the time - honored VetaVisit, open house staged for the eleventh consecutive year at the Veterinary Clinic.

Exhibits also will be set up in the medical laboratories and classrooms of East Fee Hall, Life Sciences, and Audiology and Speech Sciences where students in training for various health careers will be on hand to discuss their special fields.

For the fashion - minded, Sparty's coat (covering 832 - 56 - 65 measurements) was custom tailored by Mary Ann Marvin, MSU student in the College of Human Ecology. The green Stethoscope (no patent pending) was engineered and custom - crafted by the Paul Bunyon Instrumentation Co., an Okemos firm established to serve Health Professions Day by James P. Shaw, brother of OOHPS president, Mike Shaw.



## Wharton address, convocation set

President Clifton R. Wharton Jr. will give his annual "State of the University" address and MSU's top teachers and scholars will be honored at a faculty convocation May 24 at 7:30 p.m. in the Anthony Hall Auditorium.

Sixteen faculty awards will be presented: Ten Distinguished Faculty Awards, recognizing outstanding contributions to MSU's intellectual development; six Teacher - Scholar Awards for "devotion and skill in undergraduate teaching;" and six Excellence - in - Teaching Awards in recognition of classroom skills by graduate assistants.

Each winner of the Distinguished Faculty and Teacher Scholar Awards will receive \$1,000, and each Excellence - in - Teaching Award recipient will receive \$500.

A reception for all the award winners will be held following the convocation.

The Distinguished Faculty Awards were created in 1952 and have been supported by alumni donations to the MSU Development Fund. Support in recent years has also come from the Standard Oil (Indiana) Foundation, which also helps fund the Teacher - Scholar Awards.

## IICA officials here

Two officials of the Inter - American Institute of Agricultural Sciences (IICA) are on the campus this week to confer with University faculty and administrators.

Emilio Araujo, director general of IICA headquartered in San Jose, Costa Rica, and Jose Marrull, principal advisor to Araujo, will be here until Friday.

They are meeting today with President Wharton, and are also conferring with faculty and staff in International Studies and Programs, and in the Colleges of Agriculture and Natural Resources, Human Medicine and Human Ecology.

The IICA is an agency of the Organization of American States specializing in agricultural and rural development in Latin America.

## Engineering demand

Demand for engineering graduates is picking up and will soon outpace the decline in student enrollments. Federal government manpower forecasters anticipate an average annual national need for 48,000 engineering graduates between now and 1980.

Analysis for new shifts in the job outlook was made by George VanDusen, assistant dean of engineering at MSU; Joe Easley, associate dean of engineering at the University of Michigan; and Kenneth Meade, assistant to the dean of engineering at Oakland University on behalf of the Michigan Engineering-Community College Liaison Committee. Nationally, engineering college enrollments are down, as much as 50 per cent at some institutions. Yet the U.S. Labor Dept. sees engineering as having the largest number of job openings among all career occupations.

The reduction in student ranks has been attributed to a number of causes including the lowering of draft quotas and inflationary pressures on the general economy.

"Potential engineering students," VanDusen said, "may be overreacting to the bad employment news in the aerospace business, and the plight of many older engineers. They may be forgetting that engineers age like everybody else, and that the engineers of the 1940s and 1950s will be retiring and will have to be replaced by younger men."

In the financial returns, engineering graduates in 1972 received the highest starting salaries of all groups studied. At the bachelor's degree level chemical engineers averaged \$928 per month, followed by mechanical engineers at \$894 and electrical engineers at \$888. Electrical and chemical engineers led doctoral graduates with monthly average salaries of \$1,439 and \$1,405.

## Abortion position

The Women's Advisory Council has agreed to send a letter to President Wharton supporting the offering of abortions at Olin Health Center.

The letter reads:

"The Women's Advisory Council wishes to express to you and the Board of Trustees our support for the offering of abortion services at Olin Health Center.

"As a legal, valid medical procedure, abortion ought to be available to the campus community just as are other standard medical services.

"We urge you to move quickly as possible to make these services available at Olin."

The seven council members present at Monday's meeting stressed that they were not taking any stand on the moral issues involved with the abortion question.

Absent from the meeting were Dorothy Bedford (temporary and non - tenured faculty), Mary Kay Scullion (graduate students) and Vicki Martin (married students).

The meeting was the third since the council was named in February.

## Fellowship awarded

Ada W. Finifter, associate professor of political science, has won one of 14 fellowships in national competition sponsored by the American Political Science Association.

Mrs. Finifter, one of seven political scientists and seven journalists to receive the Congressional Fellowship Awards, was selected by an advisory committee of top government officials, Washington newsmen and political scientists on the basis of "superior academic training and performance."

The fellows, who are funded by a Ford Foundation grant, will work full - time for one year in the offices of senators and representatives in the nation's capital. The purpose of the program is to give outstanding young academicians and political journalists an opportunity to further their knowledge of the national legislative process.

## Seek faculty input

All members of the University community are urged to submit suggestions to the Steering Committee on format, procedures and charge to an ad hoc committee to review academic governance.

James Bonnen, professor of agricultural economics and chairman of the Steering Committee, said that suggestions will be accepted until April 16.

According to Bonnen, it has been decided that a review of the University's governance system is needed to strengthen academic governance and to improve the effectiveness of the student, faculty and administrative participation in academic governance.

Prior to appointing an ad hoc committee, the Steering Committee is interested in input concerning the size and composition of the ad hoc committee; rules governing the procedures for nomination to the committee; rules governing appointment to the committee; and what the charge to the committee should be.



# Bernie McQueary: gal Friday to faculty

"If she didn't exist, somebody would have to invent her."

James Bonnen, professor of agricultural economics, was talking about Bernice "Bernie" McQueary, administrative secretary to the Secretary of the Faculties.

Bonnen, chairman of the Steering Committee, said that he and his committee depend heavily on Mrs. McQueary.

"She functions as our memory and we couldn't function without her," he said.



**BERNICE McQUEARY**

Mrs. McQueary has been in her position for ten years. Most of her time on campus has been spent in the basement of the Library surrounded by numerous files reflecting the growth of the University's academic governance system.

Her mind supplements the files. A Bylaws change... A committee report... A date of an important Academic Council action... The name of a committee chairman... Just ask her any question concerning these areas and almost instantly an answer is produced.

Patricia Walsh, an assistant dean of the College of Communication Arts and

chairman of the Committee on Committees, reinforced the importance of Mrs. McQueary in the governance structure.

"Mrs. McQueary makes a major contribution to the office of the Secretary of the Faculties and the areas of academic process to which that office contributes," she said.

Mrs. Walsh explained that these areas include helping the chairmen of various committees carry out their responsibilities, ensuring continuity as these chairmen change, and coordinating the various facets of the academic governance process.

"Mrs. McQueary is organized, efficient, accurate and willing to help anyone at any time," she said.

According to Mrs. Walsh, one of Mrs. McQueary's best attributes is her interest in people which is reflected in her work.

"Her typical ending to a conversation is, 'let me know if there is anything I can do,'" she said.

Mrs. McQueary explained that because of her position she has been able to keep informed on the whole University structure and has the opportunity to get to know people in almost every area of the University.

"Because I really like people, this has been an important factor of my liking my job," she said.

She added that another important factor in liking her job has been the men she has worked for.

"I've been lucky to have three of the best bosses on campus," she said.

She has worked for three Secretaries of the Faculties - William H. Combs, director of the University Archives and Historical Collection, from 1963 to 1967; Madison Kuhn, graduate chairman of the College of Arts and Letters, 1967 to 1973; and Gordon Thomas, assistant dean, College of Communication Arts, who began the post February 1.

Thomas said he has found that she has an amazing ability to be on top of everything and in the right place at the right time.

"I never would have accepted the job if it hadn't been for Bernie being in her position," he said.

"The whole governance system is very complicated and the whole system would breakdown if somebody couldn't provide continuity. Bernie has been doing just that," he said.



Laundry manager Chet Harger (right) discusses with assistant manager Frank Schmitt an order that makes up part of the total 100,000 pounds laundered per week.

## MSU Laundry

### No washboards here

In the 1930's the University laundry offered scrub board service. Located in a basement corner of old Morrill Hall (then a women's dormitory), women utilized the scrubbing board to launder personal orders for students and faculty. Under the supervision of the Home Economics Department, their total production was about 200 pounds per week.

Today, located in a large sunlit building, the University laundry continues to offer quality service. Fifty-five employees using new techniques and modern machinery launder over 100,000 pounds of dry weight per week.

Robert F. Herron, manager of the Food Stores Department, explained how the laundry is "a service department to a service department." Chester Harger, manager of the laundry, is responsible to Herron. Both operations are located on Service Drive, south of campus.

The laundry, second to none in the nation, has been at its present location for four years. It was located as part of the Old Stores building, near Central Services. And before that, of course - in the basement of Morrill Hall.

Harger, who is retiring this year, became laundry manager in 1950. Since then he has been recognized as one of the leaders in upgrading the caliber of laundry managers through the Michigan Institutional Laundry Conference, now in its 20th year.

He explained how the University laundry is unusual in its type of operation. "Most university laundries are only a processing plant. The uniforms are owned by the individual units.

At MSU the laundry purchases the linens, uniforms and other materials and acts as a rental service.

"We purchase, repair, replace and process. We also furnish the hampers that the merchandise is delivered in," he said.

Before 1960, Harger explained, each dormitory resident furnished his own linen and towels. After 1960, the laundry began to furnish it. The laundry is presently processing 18,000 bundles a week for the residence halls alone.

The laundry also stocks small amounts of coats and trousers purchased by outside departments like veterinary medicine. Unlike a commercial laundry, an individual may come from personnel directly to the laundry and instead of having to wait the usual two weeks for a uniform, he can take it with him or pick it up the next day.

Herron and Harger agreed that it's their business to sell service. Noticing that their basement was not in use, they decided to rent it to students for bicycle storage over winter term and breaks. Over 400 students took advantage of this service winter term.

Harger said, "We saw a service that was needed, so we developed it. We run like a commercial plant to be effective and hold costs. The laundry is one of the self-liquidating buildings on campus."

-JANICE HAYES

## College of Ed has four presidents

MSU has the unusual distinction of having four presidents of national and international organizations, which have more than 70,000 members, on the faculty of its College of Education.

Professors Cole S. Brembeck, William K. Durr, Robert L. Ebel and Floyd G. Parker were honored by their colleagues and the University at a luncheon Wednesday in the ballroom of the Union Building.

Keith Goldhammer, dean of the College of Education, praised the four professors for the honor and recognition which they have brought to the University and for the significant contributions they have made to their professions.

Brembeck is president of the Comparative and International Education Society; Durr, the International Reading Association; Ebel, the American Education Research Association; and Parker, the Council of Education Facility Planners, International.

Ralph W. Tayler, founding director and director emeritus of the Center for Advanced Study in the Behavioral

Sciences at Palo Alto, Calif., spoke at the luncheon on the future role and responsibilities of university-based colleges of education.

Brembeck, who joined MSU in 1955, is director of the Institute for International Studies and associate dean for international programs in the College of Education.

The Comparative and International Education Society which he heads has more than 3,000 members from universities, government and international agencies who are concerned with the international aspects of education.

Durr, professor of elementary and special education, is a specialist in developmental and remedial reading and has written several articles, pamphlets and books on the subject. He came to the University in 1964.

There are 55,000 members and subscribers in 65 countries who belong to the International Reading Association of which he is president. The association works to improve reading instruction through research, conferences and publications.

The American Education Research Association is presided over by Ebel, professor of counseling, personnel services and educational psychology and a specialist in educational measurement and research. He joined the MSU faculty in 1963.

The more than 11,000 members of the association are behavioral scientists and educators who have a vital interest in basic research in education and the development and application of that research to educational problems.

Parker, who heads the Council of Education Facility Planners, International, is a professor of administration and higher education and is assistant director of the Continuing Education Service at MSU. He is the author and coauthor of numerous articles on school construction and facilities.

Members of the council are responsible for planning, designing, creating, equipping and maintaining the physical facilities of schools.

Parker has been a member of the faculty at MSU since 1956.

## ... EFC

(concluded from page 1)

University," Wharton said.

In other discussion, Jack Steiber, director and professor of labor and industrial relations, said it is important to "see to it that we have a competent Academic Council.

"Large numbers of faculty are not particularly interested in University 'politics' and it is necessary that those who do not desire to participate in the Council should not participate," he said.

This led to a discussion of rewarding faculty for their time on various committees.

Provost Cantlon said that a faculty member's committee work is considered at times of promotion and "committee work can have an impact on promotion."

Steiber stressed that faculty should place as their priorities teaching, research and community service, and not committee work.

Bonnen said that the faculty are welcome to submit agenda items to the Steering Committee.



# WKAR to begin 'Radio Talking Book' for mid-Michigan blind and handicapped

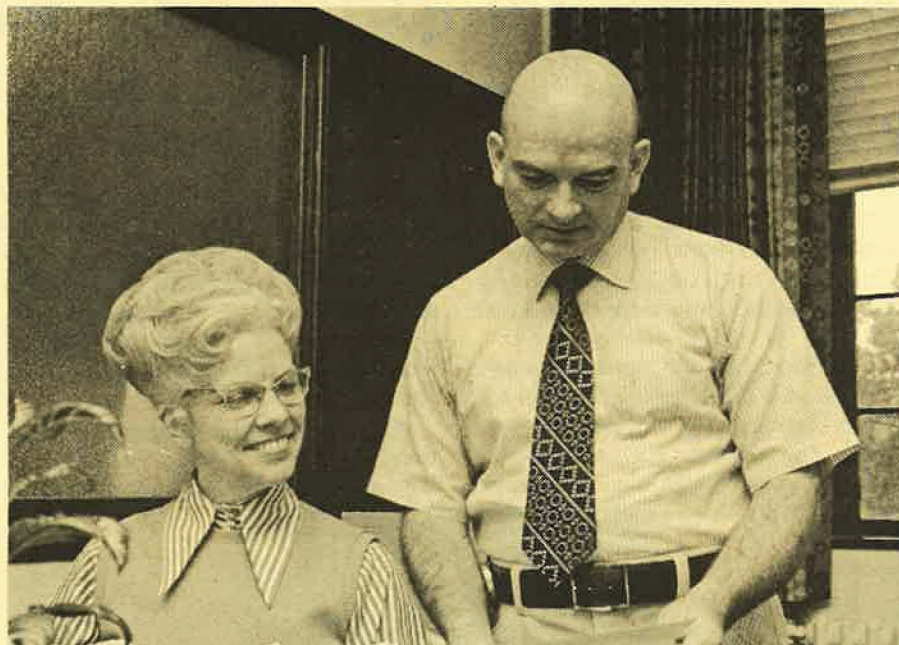
A special need determined years ago will soon be fulfilled by radio station WKAR.

By using a special subchannel of WKAR's FM band, the station will provide specialized programming for the blind and the physically handicapped.

Florence Harvath, coordinator of special projects for WKAR, said the "Radio Talking Book" will provide the blind and physically handicapped in the mid-Michigan area with material of interest such as readings of current newspapers and magazines and best-selling books while they are still popular.



BY  
SANDRA  
DALKA



FLORENCE HARVATH AND RICHARD ESTELL

Another objective of the service will be rehabilitation and education. Programming is expected to include occupational information, hobby information, and personal grooming.

This will be accomplished by providing a free receiver, to the blind and handicapped in WKAR's listening area. The subcarrier receivers will be fixed-tuned to the frequency of the special subchannel, and the general public will be unable to hear the programs. There is no need to adjust the dial; the handicapped listener merely turns on the radio and adjusts the volume.

Such point-to-point broadcasts are regarded under law as private communications, so no lengthy delays are needed to clear copyright material.

Mrs. Harvath said that this programming is expected to begin July 1 for eight hours a day.

"We are also hoping to distribute initially 500 receivers to the blind and handicapped," she added.

According to Mrs. Harvath, a \$61,000 grant from the Department of Health, Education and Welfare, and \$50,000 in matching funds from the University have provided for the studio broadcast equipment which is now being ordered and installed. A special studio is being constructed in the MSU Auditorium Building, which houses WKAR, to provide both recording and live broadcast capability.

"However, we need additional funds for the receivers which cost approximately \$50 each," she said. "We are trying to raise \$65,000 necessary for the first year of operation." Of this amount, nearly half will be needed to purchase the receivers; the remaining funds are necessary for administration and operational support.

Mrs. Harvath added that the program has received financial support from the Lions Clubs and private donations ranging from one dollar to \$400.

She explained that there has been much enthusiastic support of the program.

"The glassblower from chemistry, Jerry DeGroot, is giving a show at one of the shopping centers in April and donating half of the proceeds to the Radio Talking Book," she said.

Another area of support, according to Mrs. Harvath, has come from various members of the community who have volunteered to read program materials.

"We have had more than 125 persons volunteer with the list still growing," she said. "We figure we will need about 100 volunteers each donating approximately three hours a week to begin the service."

Some of the material will be recorded on tape, and oftentimes in the volunteer's own home, and some programs, such as the reading of daily newspapers, will be presented live from the WKAR studios.

Recording material for the blind is standard practice for many organizations established to aid the blind and physically handicapped. However, it is unusual for a radio station to use a private frequency to broadcast daily to these individuals.

There are presently only two such programs in the nation — one in Minneapolis, through State Services, and the other in Lawrence, Kansas, initiated in the fall of 1971 by the University of Kansas.

Richard Estell, general manager of WKAR radio broadcasting, said that the MSU program is the result of a

conference held in November, 1971 with more than 50 representatives of organizations working with the blind.

"I have always been interested in this type of programming and the conference established that there was enthusiastic support throughout the state," he said. "This led to the establishment of a planning committee."

The conference was organized by Rep. Robert Mahoney of Detroit. Mahoney is blind.

The approval of the HEW grant in February and the MSU financial support has enabled the development of the program.

Additionally, with the assistance of the State Library for the Blind, five committees have been established to assist in the development, programming and support of this new service.

The Library for the Blind, Lions Clubs, and representatives of agencies for the blind throughout Michigan believe that the project is especially deserving. Best estimates indicate that some 5,000 blind and visually handicapped persons reside within the WKAR coverage area, and an additional 15,000 physically handicapped.

Future plans call for this service to be available to nearly all the blind and physically handicapped in the state by employing the facilities of other non-commercial radio stations and cable services. The Library on Congress estimates that there are two blind persons per 1,000 of general population. This would indicate that between 18,000 - 20,000 blind persons in Michigan could benefit from this service.

Mrs. Harvath may be contacted at 353-3232 for information about contributions or recruitment of volunteers.



Tom Foster didn't yell "Taxi, please" but he got one anyway — for keeps. Foster, assistant director of Instructional Television Services, and his wife Virginia, secretary in instructional development at the Instructional Media Center, bought a ticket from the Okemos High School Band which was raffling off the 1962 Austin taxi to raise money to go to Europe. The Fosters only problem is where to park their third car.

So don't be surprised if you happen to see a 1962 Austin taxicab around campus — with the driver on the right, of course — license number 818 DYP. The fare table in the back seat states that for the first 900 yards or the first five minutes, there will be a minimum charge of 15p.

## What they're reading

Gods from Outer Space

Chariots of the Gods, VonDaniken (4)

Jonathan Livingston Seagull, Bach (4)

Separate Reality

Teachings of Don Juan

Journey to Ixtlan, Costaneda (3)

Guinness Book of World Records (3)

Open Marriage, Nena and George O'Neill (3)

Report from Engine Company 82, Dennis Smith (3)

Go Ask Alice, Anonymous (2)

Xaviera, Hollander (2)

The survey was taken during the week of April 9, and includes topselling books and paperbacks at these local stores: Paramount Newstand, Campus Book Stores, Community Newscenter, Student Bookstore and MSU Bookstore. Inside the parentheses are the number of stores at which each book is among the top 10.





BY FRED BRUFLO

## The arts

# Nureyev to give two performances with National Ballet of Canada

Rudolf Nureyev, one of the stellar names in the dance world, will join the National Ballet of Canada tonight and tomorrow night for two different programs in the Auditorium.

Although the name, Nureyev, on the bill has no doubt led to the quick sellout for both performances, the National Ballet of Canada itself is an outstanding attraction and one of the few companies that could suitably back a "star" of Nureyev's reputation.

Just 22 years ago, the Canadian group was founded by Celia Franca, who left a successful career as a ballerina with the Sadler's Wells Ballet (now the Royal Ballet) to come to Canada.

Following an extremely successful engagement at Expo '70 in Japan, the company was invited to Europe and last summer appeared in London, Stuttgart, Paris, Brussels, Glasgow, Lausanne and Monte Carlo.

Tonight, Nureyev will star as the prince in the famous "Swan Lake," newly choreographed by Erik Bruhn, the highly acclaimed dancer-choreographer from Denmark. Celia Franca, the company's artistic director, will dance the role of Black Queen.

Tomorrow, Nureyev will dance in "The Moor's Pavane," the serious study of Othello, his love for Desdemona and his fatal jealousy. He will also dance the role of James, in the famous "La Sylphide," choreographed in 1836 by August Bournonville of Denmark. "La Sylphide," which tells the story of a Scottish youth who is bewitched by a sylph on his wedding day, was the first of the great Romantic ballets.

The remaining works Friday are "Fandango," an amusing spoof on Spanish dancing, and the pas de deux, "Le Loup" (The Wolf).

The current 38-city tour by the National Ballet of Canada is one of the largest undertaken by any major dance company.

One hundred and forty dancers, musicians and technicians travel with the company. Production equipment require ten 40-foot trucks while the personnel, in most cases, travel on chartered airliners.

## Duo returns

Returning to campus Tuesday for their second concert will be violinist Paul Zukofsky and pianist Gilbert Kalish.

The two highly respected young artists will present a program which should appeal to a wider audience than the all-ives program of last Friday (April 6). It will include "Six Melodies for Violin and Keyboard" by John Cage, "Four Nocturnes for Violin and Piano" by George Crumb, "Sonata for Violin and Piano" by Maurice Ravel, "Four Pieces" by Anton Webern and "Sonata in D Minor, Opus 121" by Schumann.

Zukofsky and Kalish, who are on the music faculties of the State University of New York at Stony Brook and Swarthmore College, will present several seminars for the MSU music department Monday, Tuesday and Wednesday.

## Guest conductor

John Carewe, who has conducted most of the leading orchestras in London, has come to the MSU campus as guest conductor of the University Symphony Orchestra and Chamber Orchestra spring term.

He began rehearsals with the groups Monday. Concerts are scheduled for May 6, May 15 and May 29.

## Richardsons perform

"Piano Teacher in Action" is the theme of workshops and duet recitals being presented throughout the state by John Richardson, professor of music at MSU, and his wife, Florence.

The workshops are aimed at teachers of piano who are preparing students for college entrance. In addition to their recital, the pianists play and discuss music suitable for high school students.

Richardson is chairman of MSU's piano faculty.

## Votapek with 'Pops'

Pianist Ralph Votapek, associate professor of music at MSU, recently performed with the Boston Pops in New York's Carnegie Hall. His performance of Rachmaninoff's "Second Piano Concerto" received a highly complimentary review in the New York Times.

April 28 and May 1, Votapek will be heard with the "Pops" in Boston's Symphony Hall also in a performance of

Rachmaninoff's "Second." Votapek will perform the composer's "First Piano Concerto" with the MSU Symphony May 29.

This year is the 100th anniversary of Rachmaninoff's birth.

## Achievements

A. BABS FAFUNWA, dean of faculty at the University of Ife in Nigeria and currently visiting professor at MSU, has been named recipient of the first Franklin Award for Educational Development. The award was given recently at the Inaugural Award Dinner of the Franklin Book Company, Inc., in New York City. It is in "recognition of outstanding contributions to educational progress and the use of books and related materials in developing countries."

VICTOR HOWARD, director of the Canadian - American Studies Program and associate professor of English, has been elected president of the Association for Canadian Studies in the United States. He will head the 300-member organization for a two year term.

JACQUELINE BROPHY, acting director of the labor program service of the School of Labor and Industrial Relations, was elected first vice president of the University Labor Education Association during the association's recent national meeting at the Walter and May Reuther Family Education Center at Black Lake.

## Deaths

Jacqueline Dean, 26, an employee of the Dean of Students Office since 1968, died April 3 in Lansing.

Donald R. Campbell, 66, a retiree of the Dormitories and Food Services Division, died April 7.



Pianist Gilbert Kalish (left) and violinist Paul Zukofsky.

## MSU Positions Available

**IMPORTANT:** Administrative - Professional and Clerical - Technical applicants should contact the Employment Office at 353 - 4334 by April 17, 1973 and refer to the vacancy by the position number. Instructional staff applicants should contact departments noted. Fuller descriptions of positions are available in departmental postings.

### FACULTY

Coordinator: Engineering - Continuing Education (M.A.) Experience desired in engineering teaching, particularly in industrial setting.

Contact: Lawrence Von Tersch, Dean

College of Engineering

Asst. Prof. in Special Education (Ph.D. completed before Sept. 1973) Major responsibility for advisement, course work and practicum experience for the ongoing Master of Arts degree program in education of children with learning disabilities. Professional experience with learning disabilities in children is required.

Contact: James Snoddy, Dept. Chmn.

College of Education

Crop Physiologist in Crop & Soil Sci. Dept. (Ph.D. in plant physiology, or botany with strong emphasis on the form and function of the whole plant and the plant community) To plan and carry out studies related to plant architecture and physiological efficiency in the field bean; to help to establish principles of plant design, at an integrated level of morphology, genetics and physiology, that will enable the construction of more efficient plant models.

Contact: M.W. Adams  
Crop & Soil Sci. Dept.

Asst. or Assoc. Prof. of Physics with a research specialty in Solid State Theory. The successful applicant will have completed at least one year of productive postdoctoral research and will show promise of imaginative and useful research in the theory of condensed matter for the future.

Contact: T.O. Woodruff, Chmn.,  
Physics Dept.

### ADMINISTRATIVE - PROFESSIONAL

302. Staff Physician X - Graduation from a medical school approved by CME & AMA or AOA, or diplomate of NBME or NBOE. State license from Michigan to practice medicine or osteopathy. Experience as general practitioner. \$26,000.

303. Manager, Agricultural Information IX - Communications experience in agricultural and/or natural sciences area, journalistic writing and editing skills. Knowledge of various communications media. Administrative experience. M.A. in communications preferred. \$16,860 - 23,410.

304. Assoc. Biological Medical Editor V - Perceptive reporter, knowledgeable in health science education and/or health care delivery. B.A. plus four years of writing experience - at least two of them in health related organizations. \$12 - 15,500.

### CLERICAL - TECHNICAL

305. Dairy Technologist IX - B.S. in Food Science or Human Nutrition. Nutritional bacteriologist and chemical analyst. (Dairy products) Should have background in cheese manufacturing. \$8,384 - 10,418.

306. Asst. Mgr. VIII - Thorough knowledge of and experience of a hotel front desk operation. Willing to work variable hours

in include nights and weekends. Working knowledge and experience in NCR Class 42 accounting machine. Should have or nearly completed work for B.A. in HRI. \$3.59 - 4.60/hour.

307. Ex. Secretary VIII - Typing - Shorthand, knowledge of educational and organizational structure of the Univ. and previous experience in handling student records and evaluating transcripts. Must be discreet, respect confidentiality, and able to work under pressure. \$7,474 - 9,576.

308. Sr. Dept. Secretary VII - Shorthand - typing, supervisory experience, general knowledge of bookkeeping. \$6,660 - 8,272.

309. Principal Clerk VI - Coordinate patient / physician appointments. Develop statistics of patients visits. Maintain medical record system. General secretarial duties including typing and bookkeeping. \$6,436 - 8,048.

310 - 313. Dept. Secretary V (4 positions) - Skills vary with position. Typing, shorthand, dictaphone, knowledge of medical terms. \$6,267 - 7,389.

314 - 317. Sr. Clerk - Stenographer V (4 positions) - Skills vary with position. Typing, shorthand, IBM transcription, general office skills.

318. Sr. Accounting Clerk V - Bookkeeping, typing, general office work. \$6,267 - 7,389.

319. Data Preparation Operator V - Experienced keypuncher for IBM 129 machine. General office work. \$6,267 - 7,389.

320. Sr. Clerk IV - Typing 60 wpm. General secretarial duties. \$5,735 - 6,926.

321 - 325. Clerk Typist II - 5 positions - General clerical work. \$5,440 - 6,422.

MICHIGAN STATE UNIVERSITY IS AN EQUAL OPPORTUNITY EMPLOYER



## CONFERENCES

- April 12-13 Building Officials Conference  
 April 13-14 College of Human Ecology Alumni Reunion  
 April 13-14 American Institute for Decision Sciences  
 April 16-18 Michigan United Fund  
 April 17-18 Dairy Fieldmen's 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.

## EXHIBITIONS

### Kresge Art Gallery

North gallery: Earl Kerkam's paintings and drawings. A collection from New York, Philadelphia, Chicago and Detroit includes 79 works by Kerkam, whom many consider an artist's artist.

Entrance gallery: A retrospective of 27 works by Ralf Henriksen, professor of art who will retire in June, covers a period of 43 years and demonstrates the transition of his style.

Permanent collection: Among the works now on exhibit is the Morris Louis "Alpha-Theta" which will be a part of the traveling collection of the Big 10 Universities opening at Wildenstein Galleries, New York, in October.

### Museum

A woman's dormitory room in Abbott Hall circa 1896 is the setting for crafts practiced during this early period of MAC history. 3 Floor C East.

### Hidden Lake Gardens, Tipton, Michigan

Five miles of marked hiking trails and more than six miles of paved drive provide access to both native and introduced plants. Open daily until sundown.

## SEMINARS

### THURSDAY, APRIL 12, 1973

Future research in rural development. Linley E. Juers, deputy administrator, USDA, 3:30 p.m., 312 Agriculture. **Agricultural Economics.**

Prostaglandins: biosynthesis and metabolism. Jack Hinman, The Upjohn Co., Kalamazoo. 4:10 p.m., 101 Biochemistry. **Biochemistry.**

Recent agricultural developments in China. Kenneth M. Pretty, vice president, Potash Institute of Canada. 4 p.m., 301 Agriculture. **Crop and Soil Sciences.**

Animal tissue fixation (perfusion). Al Sculthorpe, 12:30 p.m., 206 Food Science. **Food Science and Human Nutrition.**

The geology of the oceanic crust: a review of continental drift and plate tectonics. Paul Fox, U. of Albany, Albany, N.Y. 3 p.m., 205 Natural Science. **Geology Club.**

Developmental aspects of thyroid disease. John Stanbury, professor of experimental medicine, Massachusetts Institute of Technology. 12:30 p.m., 133A Life Sciences. **Institute of Nutrition.**

Teaching children to be mathematicians. Seymour Papert, Artificial Intelligence Laboratory, Massachusetts Institute of Technology. 3 p.m., 304A Wells. **Mathematics.**

Asymptotic behavior of solutions of a class of nonlinear Volterra equations. J. Nohel, U. of Wisconsin. 4:10 p.m., 304A Wells. **Mathematics.**

The copper-nickel alloys. Bernhard Kurrelmeyer, Brooklyn College, CUNY. 4:10 p.m., 120 Physics-Astronomy. **Physics.**

An opponent—process theory of motivation. Richard L. Solomon, 4:15 p.m., 111 Olds. **Psychology.**

### FRIDAY, APRIL 13, 1973

Strike behavior in Canada since 1945: some comparisons with American experiences. Garfield Clack, chief, Industrial Relations Research Division, Economics and Research Branch, Canada Dept. of Labour. 3 p.m., 30 Union. **Labor and Industrial Relations and James Madison College.**

Temperature dependents of the elastic constants of nematic liquid crystals. B. Lao, U. of Maryland, 10:20 a.m., 223 Physics-Astronomy. **Physics.**

Report on field trip to Florida. Zoology Undergraduate Club, 3 p.m., 140 Natural Science. **Zoology.**

### MONDAY, APRIL 16, 1973

Giant M1 resonance in mass-90 region. E. Cecil, Stony Brook, 4:10 p.m., Cyclotron Laboratory Seminar Room. **Cyclotron.**

Electronics in telephones. Donald J. Leonard, director, Telephone Laboratory, Bell Laboratories, Indianapolis. 4 p.m., 100 Engineering. **Electrical Engineering and Systems Science and Student Branch of IEEE.**

Physical sciences in medicine. H.E. Stanley, Massachusetts Institute of Technology. 1:50 p.m., 223 Physics-Astronomy. **Physics.**

Cooperative phenomena in physical and biological systems. H.E. Stanley, Massachusetts Institute of Technology. 4 p.m., 223 Physics-Astronomy. **Physics.**

International developments in science education. David Cohen, Macquarie University, North Ryde, Australia. 10 a.m., 37E McDonel. **Science and Mathematics Teaching Center.**

Linear filtering and equivalent processes. G. Kallianpur, U. of Minnesota and Mathematics Institute, Aarhus U., Aarhus, Denmark. 4:10 p.m., 405A Wells. **Statistics and Probability.**

### TUESDAY, APRIL 17, 1973

The stability of channel flow. Merle Potter, 4 p.m., 284 Engineering. **Chemical Engineering.**

Aspects of organic mass spectrometry. F.W. McLafferty, Cornell U., 4 p.m., 136 Chemistry. **Chemistry.**

Survival studies of selected pathogen organisms inoculated into a fermented turkey sausage product. William Baran, 4:10 p.m., 103 Food Science. **Food Science and Human Nutrition.**

New initiative in teaching statistics: work of the JCCSP. William Kruskal, Dept. of Statistics, U. of Chicago. 4:10 p.m., 405A Wells. **Math Education and Statistics and Probability.**

The role of the diagnostic virus laboratory. R.L. Muldoon, Hektoen Institute for Medical Research, Chicago. 4:10 p.m., 146 Giltner. **Microbiology and Public Health.**

### WEDNESDAY, APRIL 18, 1973

Interaction between soybean genotypes and strains of nodule inducing bacterium—*Rhizobium japonicum*. H. Grant Vest, 4 p.m., 103 Anthony. **Genetics Seminar Committee.**

Current status of treatment of lymphomas. Paul Hollister, Charles H. Sanders, J. Clyde Spencer, and L. George Suhrlund. 12:30 p.m., 107A Life Sciences. **Medicine.**

Resistance to the systemic fungicides. J.M. Vargas, 4:10 p.m., 168 Plant Biology Lab. **Plant Pathology.**

Calcium effects on leaf senescence. Carl Leopold, Purdue U., 4:10 p.m., 101 Biochemistry. **Plant Research Laboratory.**

### THURSDAY, APRIL 19, 1973

Program evaluation methods: an application to rural manpower programs. James H. Booth, 3 p.m., 312 Agriculture. **Agricultural Economics.**

Problems in dwarf wheat development. N.C. Stoskopf, U. of Guelph, Canada. 4 p.m., 301 Agriculture. **Crop and Soil Sciences.**

To be announced. G. Bennett, U. of Indiana, 4:10 p.m., 304A Wells. **Mathematics.**

How I use mastery learning. Henry D. Foth, 12:10 p.m., 149 Veterinary Clinic. **Veterinary Medicine.**

### FRIDAY, APRIL 20, 1973

Toward sexual anarchism. Alison Jaggar, U. of Cincinnati. 8 p.m., 104B Wells. **Philosophy.**

Mammals of the Pro-Namib Desert, South West Africa. Rollin Baker, 3 p.m., 140 Natural Science. **Zoology.**

*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, APRIL 13, 1973

- 12 p.m. Society for International Development luncheon—Emilio Araujo, director of the Inter-American Institute of Agricultural Sciences, San Jose, Costa Rica, will speak. Room C, Crossroads Cafeteria.
- 7:30 p.m. Eisenstein film festival—"Strike," a 1925 film, and Dziga Vertov's "Kino Pravda," a documentary on the period when Eisenstein was doing his early work, will be shown as part of this festival sponsored by the Russian and East European Studies Program. Admission is free. 102B Wells.
- 8 p.m. "The New World" is an original science fiction program with an underlying ecological theme. Skywatching sessions follow the 8 p.m. performances. Tickets are sold at the door. Abrams Planetarium.
- 8 p.m. Mariah—Eric Anderson. McDonel Kiva.
- 8 p.m. "Silent Reflections"—Green Splash women's synchronized swimming club will present its annual water show. Tickets are available at the door. Women's IM pool.
- 8:15 p.m. Art of Dance Series—The world's greatest *premier danseur*, Rudolf Nureyev, will perform as a guest soloist with the National Ballet of Canada. He and a costumed company of 40 will appear in August Bournonville's "La Sylphide." Auditorium.
- 8:15 p.m. Senior recital—Candace deLattre, mezzo-soprano, will be accompanied by Roseann Hammill and Charles Larkowski in works by Miss Hammill, arias, English songs, and songs by Liszt. Music Auditorium.
- 10 p.m. "The New World" (see above). Abrams Planetarium.
- 10:30 p.m. Mariah (see above). McDonel Kiva.

## SATURDAY, APRIL 14, 1973

- 9 a.m. Vetavisit—The annual Veterinary Clinic open house will be held until 4:30 p.m.
- 2 p.m. Eisenstein film festival (see April 13). 102B Wells.
- 2 p.m. Green Splash water show (see April 13). Women's IM pool.
- 2:30 p.m. "The New World" (see April 13). Abrams Planetarium.
- 2:30 p.m. Lacrosse—MSU vs. Ohio Wesleyan. Spartan Stadium.
- 8 p.m. World Travel Series—Dewitt Jones will present a unique view of "John Muir's High Sierras." The audience will wander through Yosemite Valley and the high country of Tuolumbe, crossing the Muir Trail to the Great Sequoias, meeting the people of the mountains today. Auditorium.
- 8 p.m. "The New World" (see April 13). Abrams Planetarium.
- 8 p.m. Green Splash water show (see April 13). Women's IM pool.
- 10 p.m. "The New World" (see April 13). Abrams Planetarium.
- 10:30 p.m. Mariah (see April 13). McDonel Kiva.

## SUNDAY, APRIL 15, 1973

- 2 p.m. Green Splash water show (see April 13). Women's IM pool.
- 4 p.m. "The New World" (see April 13). Abrams Planetarium.

## MONDAY, APRIL 16, 1973

- 8:15 p.m. Graduate recital—A recital of twentieth century works for oboe will be presented by Greg Steinke, doctoral candidate. He will be assisted by Bruce Williams, piano, Suzanne Wernette, soprano, and Alexis Turkalo, cello. There is no charge for admission. Music Auditorium.

## TUESDAY, APRIL 17, 1973

- 12 p.m. University Club luncheon—James Hamilton, assistant provost and assistant professor of chemistry, will speak on "MSU's Special Program for the Physically Handicapped and Disadvantaged."
- 3 p.m. Women's tennis—MSU vs. Central Michigan University.
- 8:15 p.m. Graduate recital—Barbara Mette, French horn. Music Auditorium.

## WEDNESDAY, APRIL 18, 1973

- 3:30 p.m. Lacrosse—MSU vs. Michigan. Practice field south of Stadium.

## THURSDAY, APRIL 19, 1973

- 1 p.m. Golf—MSU vs. Oakland. Forest Akers Course.

## FRIDAY, APRIL 20, 1973

- 10 a.m. Board of Trustees meeting.
- 2 p.m. Baseball—MSU vs. Iowa. John Kobs Field.
- 3 p.m. Tennis—MSU vs. Indiana. Varsity courts.
- 8 p.m. "The New World" (see April 13). Abrams Planetarium.
- 10 p.m. "The New World" (see April 13). Abrams Planetarium.

## SATURDAY, APRIL 21, 1973

- 1 p.m. Baseball—MSU vs. Minnesota. John Kobs Field.
- 1 p.m. Tennis—MSU vs. Ohio State. Varsity courts.
- 2:30 p.m. "The New World" (see April 13). Abrams Planetarium.

## BULLETINS

### ATHLETIC TICKETS

Information for 1973 football season ticket orders for faculty and staff will be in campus mail during the next week.

### EASTER FLOWERS

The MSU Horticulture Club is selling potted blooming hyacinths, daffodils, tulips, and other spring bulbs at \$2 per pot from 10 a.m. to 2 p.m. April 18-20 in the Horticulture Bldg. lobby.

### SPRING BANQUET

The annual spring banquet of the Faculty Women's Association will be held at 6:30 p.m. Thursday, April 26 at the University Club. Jean King, Ann Arbor lawyer, will speak, and scholarship awards to outstanding graduate women will be presented. For information, call Kay White, 5-8330.

### COMMUNICATIONS

Donald R. Gordon, professor, Inter-faculty Programme Board, U. of Waterloo, and one-time journalist, broadcaster, and TV correspondent, will present a lecture on communications at 8 p.m. Thursday, April 12, in 38-39 Union. The talk is sponsored by the Dept. of Journalism.

### EXTENSION WOMEN

MSU Extension Women's Club will hold its final meeting of the year at a "Spring Stroll Luncheon," Thursday, April 26, at 1 p.m. Luncheon will start at the home of Mrs. Lawrence Boger, and progress to the home of Mrs. Graydon Blank. Reservations must be made by April 20 with Mrs. Robert Ruppel, 351-0822.

### QUESTIONNAIRE

Faculty are urged to complete and return the questionnaire sent to them regarding the relationship of the Office of Volunteer Programs to academic units.

### GOLF LEAGUE

The Faculty Folk Golf League will meet at 9 a.m. Thursday, April 19, at the Kappa Kappa Gamma house, 605 M.A.C. Those interested in playing should call Jo Salmonson, 351-0525, or Jean Lewis, 337-0098.

### DUPLICATE BRIDGE

Duplicate bridge meets each Wednesday at 7:15 p.m. on the second floor of the Union. All faculty and staff are welcome, and may come as individuals or couples. For information, contact Raymond F. Johnston, 5-6483.

### ICE CREAM SALE

Deluxe chocolate ice cream will be sold by the Food Science Club at \$1.10 a half gallon from noon to 2 p.m. Friday, April 20, in the basement of the Dairy Plant at the weekly cheese sale. Advance orders will be accepted by calling 3-0764 between 8 a.m. and 5 p.m.

### OBSERVATORY

The MSU Observatory will be open to the public from 8 to 10 p.m. Saturday, April 21. Weather permitting, the 24-inch reflecting telescope will be used for observing current celestial objects. Children under 13 should be accompanied by at least one adult for each three children.