



Netherlands dance troupe to perform

The Netherlands Dance Theater, a company of 50, will present contemporary dance programs Monday and Tuesday (April 19 and 20) in the Auditorium.

Monday's program, a Series "A" attraction in the Lecture-Concert Series, will feature "Symphony in Three Movements," using the music of the late Igor Stravinsky; "Situation;" "Variation on a Landscape," and "After Eden."

Tuesday's program, a Series "B" attraction, will include "Five Sketches" to the music of Paul Hindemith; "Imaginary Film" with music by Arnold Schoenberg, and "Grosse Fugue."

All of the ballets in the company's repertoire have been created by contemporary choreographers. The company regards the choreographer "as the focal point of its activities and planning" and makes every effort to provide him "with the right artistic climate, collaborators and creative dancers for his work."

Founded in 1959, the dance company functioned for two years without any private or government backing, but was soon rewarded by official recognition in the form of yearly subsidies from the Dutch government and the city of The Hague.

The subsidy has enabled the company to increase the number of dancers from 16 to 27 and to acquire a large building in The Hague as its headquarters.

Tickets are available at the Union Ticket Office.

MSU News-Bulletin

Vol. 2, No. 23

Michigan State University

April 15, 1971

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NORMAN GOOD

Good wins Guggenheim

A Michigan State researcher is among 354 scholars, scientists and artists selected for 1971 Guggenheim Fellowships.

Norman E. Good, professor of botany and plant pathology, will use the fellowship continue his research into the movement of ions into and out of cell organelles, an area linked to the understanding of life processes.

Good will spend the next academic year on leave at the University of Bristol, and his studies will be continued here by Seikichi Izawa, research associate in botany and plant pathology.

This year's Guggenheim Fellowships, supported by John Simon Guggenheim Memorial Foundation, totaled \$3,787,000. The recipients were selected from among 2,363 nominees from the U.S. and Canada.

Good, a member of the faculty since 1962, is a graduate of the University of Toronto and has the Ph.D. from Cal Tech. He had been a research associate at the University of Minnesota and at Cambridge University.

Shrinking budget has impact on campus maintenance job

There's no lack of attention focused on the University's attempts to keep salaries and educational programs alive under the stress of a shrinking budget. But another financial struggle is underway, too: How to continue to maintain the 360 million dollars' worth of buildings and grounds on the campus.

The maintenance job is one of the mammoth proportions:

*Various degrees of care, from daily cleaning and scrubbing of some classroom areas to major repair and remodeling, in the some 115 academic buildings.

*Upkeep and repair of the 25 residence halls and 223 apartment buildings, although routine cleaning is a responsibility of the student residents.

*Providing fuel, water and related utility services that will amount to about \$4 million this year.

*Disposing of some 100,000 cubic yards of solid waste each year.

*Maintaining 36 miles of roads, 96 miles of walkways and 150 acres of parking area which this winter needed regular plowing and sweeping and about 740 tons of salt.

*Caring for the more than 2,000 acres of ground on the campus, of which 1,300 acres require "maximum maintenance" (regular grasscutting, trimming, cleaning and tree care).

During the 1969-70 fiscal year, the total cost of campus operation and maintenance was almost \$11 million. The figure included alterations, improvements, repairs fuel and utility costs, labor and salaries, insurance, fire protection and safety services, road repairs, sewage and almost three dozen other items.

SERVING MSU'S total maintenance needs is difficult in "normal" economic years; at a time when budgets are tight,

it becomes next to impossible, point out those who direct the campus maintenance job.

"We really have few natural landscape attractions on the campus," says Milton Baron, director of campus park and planning. "Almost all of our campus beauty is man-made, and if we let up on the maintenance, it's very hard to catch up."

Even though the budget for grounds maintenance went up this year, the increase (to about \$880,000) was barely adequate to meet rising salaries and labor costs.

The total figure includes the academic campus, student apartments and dormitories, athletic areas and the golf course. The last three areas involved self-liquidating funding; as a result, all of grounds maintenance is facing budget problems.

"WE'RE IN trouble," says Burt Ferris, superintendent of grounds maintenance. He points out that the funds shortage is hitting when his department needs to launch its annual push to "get the campus into shape in time for spring and for commencement."

This includes general post-winter cleanup, fertilizing, reseeding, planting — jobs that require a larger-than-normal work force.

The grounds department has about 60 full-time, permanent employees, a

number that usually doubles to meet the spring and early summer workload peaks. Ferris says the crew will be smaller this year (which unfortunately means fewer jobs for students and other seasonal workers).

Smaller budgets also mean less frequent mowing and tree-trimming in most areas, Baron says, and perhaps less street cleaning and sweeping.

"Inflation and changes in the labor picture tend to give us less productive time on campus," he says. "But we're

(Continued on page 3)



Geography professor Ron Horvath: "If you can't hear what I'm saying, you're getting the message." See story, page 4.

Crossroads open

In response to faculty and student requests, the Crossroads Cafeteria will be open for coffee service, 7:45 to 9 p.m., each Monday through Thursday beginning this week, according to Lyle A. Thorburn, manager of dormitories and food services.

In Brief...

'FREEDOMS' AWARD. The East Lansing Drug Education Center, organized less than a year ago by MSU faculty and students and volunteers, has won a Freedoms Foundation award for "work in community education."

The center offers services in counseling, referral and drug education.

Edward Lynn, assistant professor of psychiatry and president of the center, says it "is not in business to tell people to stop using drugs. We just try to provide legitimate information so kids can make mature decisions about what affects their lives."

The Freedoms Foundation is a nonprofit organization designed to "award those people who speak up for the principles of America."

* * *

THE 'GREEN' MEDIUM. Television is entering its own phase of "yellow journalism," says an assistant professor of journalism. Vishwa Mishra says that TV is a "green" medium in the hands of "green" people, whose maturity leaves much to be desired.

He says that one sign of this immaturity is the networks' "inability to size up the intelligence of Americans. Their executives believe they should 'talk down' to people."

He adds: "I don't think that TV has ever been serious about providing good documentaries. The networks give the American public more filmfare because it's less expensive. Television is becoming an escape medium. Even documentaries and newscasts are made to be entertaining."

* * *

COMMUNITY RESOURCES. A bank of knowledge about the agencies serving the Greater Lansing area is being gathered and stored this term in a new course in the Department of Family Ecology.

"The Community: Its Needs and Resources" explores how human needs are determined and fulfilled via community resources. According to the instructor, Pearl Aldrich, the course will build a pool of information about Lansing's social and service organizations — their work, their structure, purpose, staff, use of volunteers and number of people served. The data can then be used by students and researchers in the College of Human Ecology and the University at large.

'CHINA COURSE' The Chinese revolution is examined in a new course being taught by 10 cooperating faculty members and visiting scholars. The course, "Continuing Revolution in China: Problems and Approaches" is offered through the Asian Studies Center and administered by the history department in cooperation with political science, anthropology and geography. Coordinators are Walter Gourlay, assistant professor of history and Paul Hiniker, assistant professor of political science.

* * *

ECONOMY UP. A much brighter Michigan economy is predicted by Leonard D. Bronder, chief of the research division at the Michigan State Department of Commerce. Writing in MSU's Economic Record, he notes that the state has an historical pattern of strong business growth every three years, and the current year, despite a national slowdown should usher in another period of growth for the state. Retail sales in Michigan are expected to rise by \$1.76 billion or 10.1 percent. Nationally, consumer spending will be up approximately 4 percent.

* * *

THE LACK OF WATER Georg Borgstrom, professor of geography and food scientist, contends that lack of water will be the major limitation in trying to feed an expanding population. And there is very little man can do, Borgstrom adds, to stretch the water supply to meet the increasing demands. "Those of us living in climates with ample water supplies tend to overlook the importance of this resource," he says. "We seldom realize that only 3 percent of the world's water is fresh, and that 97 percent of that fresh water is locked up in the polar ice caps."

Borgstrom believes that since groundwater supplies all over the world have been taxed almost to their limits, man will have to rely on the hydrological cycle and get along on a fairly constant water supply. He is teaching a new course this term, "The Geography of Water."

* * *

ON OTHER CAMPUSES. The University of Pennsylvania has disposed of 33,421 shares (almost all) of its General Motors stock. Reports say the Penn trustees were concerned the stock would suffer from GM's efforts to meet legally mandated antipollution and safety standards. The sale was disclosed after student groups had asked about the disposition of the stock, an object of controversy at Penn . . . Purdue University has established a committee to coordinate its growing cooperative education programs. These are programs which allow a qualified student to alternate semesters of formal classroom training with employment with a participating industry.

Achievements

Space limitations dictate that material submitted for the "Achievements" section be considered for its general interest or importance. We hope to include such items as national or professional awards and honors; major publications, such as books; significant civic or public accomplishments. We don't have enough space to list all technical papers presented, journal articles published and professional meetings attended.

RALPH W. NICHOLAS, professor of anthropology, was recently elected to the South Asia Regional Council of the Association for Asian Studies. He will serve a three - year term.

HERBERT C. JACKSON, professor of

religion, was recently named a director of the Buddhist Vihara Society, Inc., the national organization of Theravada Buddhists in the U.S.

ROBERT CAROLUS, professor of horticulture, was honored recently by his colleagues for his more than 30 years' of horticultural research contributions. He is internationally known for his research aimed at improving the growth, harvest, storage and marketing of vegetables, and is a fellow of the American Society for Horticultural Science.

Hospitality Weekend offers Spanish feast

MSU gourmets with cosmopolitan appetites will be able to partake of a Spanish feast and wine-tasting planned for this Saturday night in the International Center.

The seven - course dinner featuring "paella a la Valenciana" is the culinary highlight of the two - day Hospitality Weekend planned by students in the School of Hotel, Restaurant and Institutional Management.

Preceding the dinner — on Saturday afternoon in Parlor C, MSU Union — is a seminar, "The Business man 1971 — A Social Activist." The features speaker will be James Farmer, former assistant secretary of HEW and a founder of the Congress of Racial Equality. Other speakers in the 2 to 5 p.m. session are Robert L. Green, director of the Center for Urban Affairs; Frank H. Sargent, associate professor of business at Norwich University; and Chester Hall,

educational director of the National Restaurant Association.

Saturday night's event begins at 7 with the wine - tasting reception in the International Center. Dinner begins at 8 p.m. Tickets for three food events (also, a Saturday noon Spanish buffet in the Union's Gold Room) are \$16. The Saturday night events only are \$14. Tickets are available on the fourth floor of Eppley Center.

WMSB

FRIDAY, APRIL 16

7 p.m. — "Peter, Paul and Mary: The Song Is Love" is a documentary following the trio in concert during a college tour, at the November 1969 Vietnam Moratorium and at a memorial service for Martin Luther King Jr. in Memphis.

SUNDAY, APRIL 18

11:30 p.m. — "The Spoils of Poynton: Pride of Possession" is the first episode of Henry James' novella in a six - part series on "Masterpiece Theatre." 1 p.m. — Elizabeth Drew interviews Indiana Sen. Birch Bayh. 4 p.m. — "The Weather Watchers" explores the possibility of man controlling the weather. 10 p.m. — Montessori schools and "Jesus Rock" are among topics on "Assignment 10." 11 p.m. — NET Playhouse presents "Reddick," the story of an urban minister working with young people.

TUESDAY, APRIL 20

7 p.m. — The final program of "Because We Care" emphasizes communication with young persons.

WKAR

THURSDAY, APRIL 15

7 p.m. (FM) — "MSU Concert" features music department honors students performing movements from concertos by Mozart, Wieniawski, Albinoni, Brahms and Beethoven.

SATURDAY, APRIL 17

1:30 p.m. (AM) — "The Liberal vs. the Men in Blue: Law and Order Redefined" features R. MacFachern, president of the National Police Patrolmen's Association, and George Berkeley, Northeastern University. 2 p.m. (FM) — The Metropolitan Opera presents "Madame Butterfly" by Puccini.

SUNDAY, APRIL 18

2 p.m. (AM-FM) — The Cleveland Orchestra performs Symphony No. 5 in B flat by Schubert; "The Shepherd on the Rock" by Schubert; Symphony No. 4 in G for Orchestra by Mahler. 4 p.m. (AM-FM) — "Arms Control Since World War I: Implications from SALT," with Hedley Bull, Australian National University.

TUESDAY, APRIL 20

1 p.m. (AM) — Milton S. Eisenhower, chairman of National Commission on the Causes and Prevention of Violence, discusses "Perspectives on Violence."

WEDNESDAY, APRIL 21

1 p.m. (AM) — A discussion of "Minorities and Campus Politics" with MSU students Jose Trevino and Moose Pamp, and political scientist Carroll Hawkins.

Books

VERNA HILDEBRAND, assistant professor of family and child sciences, has written "Introduction of Early Childhood Education," published by the Macmillan Co., New York. It is an introduction to professional preparation for nursery school and kindergarten teaching and is accompanied by a workbook for student teachers.

Two MSU scientists are among 18 contributors to the newly published "Conservation of Natural Resources" (John Wiley and Sons, Inc.). **LEE JAMES**, professor and chairman of forestry, authored two chapters, and **LOUIS WOLFANGER**, professor emeritus of soil science, wrote one chapter.

GEORGE W. RADIMERSKY, professor of German and Russian, contributed to an anthology, "The Teaching of German Problems and Methods," under the auspices of the National Carl Schurz Association, Inc., Philadelphia.

FRED S. SIEBERT, research professor in communication, and **GEORGE A. HOUGH III**, associate professor of journalism, are major authors of "Free Press and Fair Trial," published by the University of Georgia Press. They contributed two of three studies for the book, which deals with the effects of pretrial publicity on jury verdicts.

MSU News - Bulletin

Editor: Gene Rietfors

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Editorial offices: Rooms 323 and 324, 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

Maintenance . . .

(Concluded from page 1)

going to do our best to make the campus as attractive as it has always been."

A JOB THAT requires even more manpower is maintaining the University's buildings.

Theodore B. Simon, director of physical plant, says that his staff of custodians, power plant specialists and maintenance employees is about 40 fewer (about 740 now) than it was a year ago — even though the maintenance job is greater than last year.

He also cites rising labor costs as the major factor in the budgetary crisis.

Simon says that some services have had to be reduced: Lower frequencies of sweeping and cleaning in some buildings, for example, and fewer persons assigned to routine maintenance tasks.

But he cautions that most maintenance items cannot be reduced without creating even greater long -

term expenditures.

Simon points out that closer controls and cooperation have helped cut fuel costs this winter. He reports that during March, the campus consumed 13 percent less energy than it did in March of 1970.

He said the saving is due to faculty and staff efforts to conserve, improved controls that assure better scheduling and use of equipment and the conversion to gas by Power Plant '65.

In order to keep the operation efficient, Simon points out, physical plant conducts studies and cost analyses to improve its methods. For example, the number of man hours required to maintain every 1,000 square feet of floor space has decreased by 37 per cent in 20 years.

MAINTENANCE IN THE dormitories is handled by the residence halls division.

Although the halls have had to make cutbacks, their financial problems are the result of few occupancies.

"The 1,500 - student reduction in freshmen last year caught us," says Lyle Thorburn, manager of dormitories and food services. That reduction amounts to about \$1.5 million in revenue lost, he adds.

James Andrews, assistant manager for development and construction, says that some cutbacks have been made in repair work, and reduced amount is being spent in the cafeterias.

Andrews adds that housekeeping service is normal in the halls and he says that students have helped to keep the maintenance job easier. In the halls with predominately upperclass students, he says, occupants have become quite conscientious about their surroundings.

The financial loss from vandalism has increased, particularly among vending machines, according to Andrews, but fewer students engage in the kind of "horseplay" prevalent a few years ago.

— GENE RIETFORS

Science notes

Military spending: growing concern among scientists

By PHILLIP E. MILLER
Science Editor, News Bureau

Things that people of the world are willing to tolerate in the name of defense stagger the imagination.

The world's yearly bill for military expense is about \$180 billion. For every dollar the U.S.S.R. and the U.S.A. spend on the military, they spend only 4 cents on underdeveloped areas of the world.

More of the world's money is spent on the military than on education. As one result, there is more than 10 tons equivalent of TNT in nuclear weapons for every human on earth — man, woman and child.

"In the face of all this absurdity, why can't we do better?" asked W.K.H. Panofsky in a recent talk in Washington to science writers. Panofsky is director of the Stanford Linear Accelerator Center.

"Have the leaders of the world's powers lost sight of the enormity of the potential destruction? In the shrill debate between the right and the left, the radicals and conservatives, in this country and abroad, the parties are trying to identify the 'villain' responsible for this madness — a madness which Herbert York, the former director of Defense Research and Engineering in the Pentagon, has aptly called 'the race to oblivion.'"

"The American right puts the blame on 'Communist aggressiveness.' The Soviets pinpoint 'American imperialism' or the 'Adventurism of the ruling classes.' Yet the sad fact remains that the arms race prevails over sanity in most countries of the world, independent of their social system."

SO FAR, PANOFSKY said, the balance of terror is based primarily on so - called bomb effects. But just the ecological and social chaos following a nuclear exchange could be devastating to humankind.

"Even the calculations on which the U.S. positions for SALT — the Strategic Arms Limitation Talks — appear to be based are the same primitive models which forget all the disastrous consequences of nuclear war on the ecology, on physical and genetic health, and on functioning of the society. The time has come for ecologists and weapons - effects experts to join forces and generate a scenario of nuclear war which goes far beyond the simplistic models now in use."

Panofsky said that contrary to some military advisers, technology is adjustable.

"TO PUT IT in blunt terms: The military technicians maintain that evolution of military technology is inexorable, and that we must adjust our lives and political and strategic decisions to live with that evolution. I believe that such an attitude is dangerous to man's very existence, and that it is also insupportable on its own merit."

"Our knowledge of science will indeed increase continuously — the facts of nature are there to be explored, and they will not, and should not, remain hidden. But the process of going from science to military technology involves a protracted series of planned steps, including development, test, production and deployment. This chain extends over many years, or even decades, and it is up to man to decide through his political processes to undertake such steps or not to."

A THREE-YEAR program of grants to support research in relationships of arms control and disarmament has been launched by the National Academy of Sciences.

The program backed by the U.S. Arms Control and Disarmament Agency. For further information contact: Division of Behavioral Sciences of the National Academy of Sciences; National Research Council; 2101 Constitution Avenue, NW; Washington, D.C. 20418.

Hearings aired

In a special radio broadcast, WKAR - AM will present proceedings of a public hearing on the Michigan Abortion Bill from the floor of the House at the Capitol. The House Committee on Social Services and Corrections is studying the measure, Senate Bill 3, with a series of hearings.

The proceedings of last night's session will be aired today, from 1 to 4 p.m.

Munn cited

Former MSU athletes and coaches from across the country will be among those on hand tonight to pay tribute to athletic director "Biggie" Munn at Lansing's Civic Center. The recognition dinner is scheduled for 7 p.m. and will be preceded by a 6:30 hospitality. Tickets for the event are \$10 per person.



"I won't dance — don't ask me."

Geographical disorientation for ecology

By BEVERLY TWITCHELL
Associate Editor, News - Bulletin

A six - mile walk through urban East Lansing, and a 16 - mile bike hike through MSU's rural East Lansing — a disorientation for the 55 to 60 students enrolled in Geography 415 (field research) and Justin Morrill College 254 (geography).

"The very first thing we have to do is lose you," Ronald J. Horvath, assistant professor of geography, told the students on the first day of class.

"Until we disorient you, you aren't going to be able to do what this class is all about — find yourself again, reorient yourself."

His course is cultural geography, the study of man and his relationship to his environment, with the emphasis on ecology. And with a guiding philosophy that East Lansing is a "microcosm of the world."

Edward J. VanderVelde, instructor for the JMC students, says it's rare for geographers to relate their field to their own environment — that is, studying the geography of East Lansing as opposed to India or Ethiopia, for example, which are VanderVelde's and Horvath's special areas.

In this class, Horvath told the students, you must formulate a problem, then you will learn how to collect data. "Until you can formulate the problem, we have nothing to teach you."

Some of the problems studied in past sections of the course: Pollution of the Red Cedar River; variation of rents in East Lansing; organic farming; the effect of the automobile on East Lansing; the circulation of paper through MSU.

The bible for the class is an article by Michael Rossman entitled, "On Learning and Social Change." Rossman speaks of autonomous learning as opposed to the "Authority Complex," and of learning as behavioral change.

It is a philosophy to which Horvath and VanderVelde and their three teaching assistants subscribe.

Education is changing people, Horvath says, getting them to the point where they manipulate reality, not discover it.

They have to confront their own institutions, he says, and they do it by studying whatever they want.

But first they must be disoriented . . .

A walk through East Lansing

The 55 or 60 people make their first stop on a Grand River Avenue meridian.

"This is a really interesting piece of territory," Horvath says. "It's a dangerous divide. It separates two different kinds of decision - making entities . . .

"Who uses this piece of territory? The people who are passing through, out to the suburbs. It's automobile territory, machine space. Reclassify what it means to you."

Words are lost in the noise of the traffic. "If you can't hear what I'm saying," Horvath says, "you're getting the message."

Move on to a parking lot — more machine space. Eighty percent of downtown Detroit is laid out for auto use; 50 to 60 percent of East Lansing is for auto use, Horvath says. "All the problems are here. You don't have to go to downtown New York; all the problems are here, on a different scale."

"East Lansing is a microcosm of America; the symptoms and sources of the survival crisis are here."

Walk into an alley. This, too, is automobile territory, the students are told, and "the critical thing about machine space," Horvath says, "is who gets to use it? This is one of the sources of alienation."

Then walk on to the Bailey School. One of the characteristics of any inner city, Horvath says, is the lack of recreation area, the almost total absence of parks.

VanderVelde says that in the area from Hagadorn to Abbott Roads and from Grand River Avenue to Burcham Drive, the only green space is the Bailey School playground. He says a bond issue to build more parks had been approved a few years ago in the city, but all the parks were being built outside the "inner city," beyond Burcham and even beyond M - 78. He spoke of streets as barriers to children and said that "where kids play is part of geography."

As the group tours East Lansing's streets, rent is discussed. So are block busters, slum lords, the natives, the concept of the student as transient.

Business executives move more often than students, Horvath says. The average American family moves every 3.5 years. How do you view yourself? He asks the group. When are you going to decide that this is home? And how are you going to treat that idea?

A walk down Abbott Road, pointing out the increases in the amount of space devoted to asphalt (salt on the asphalt in winter pollutes the Red Cedar, VanderVelde tells the group). They point out a trend, a move away from the heterogeneity of the inner city East Lansing, to the homogeneity, the sameness of the area of Whitehills Estates.

A look at what is left of Burcham Woods, part of which was cut down to build tennis courts (more asphalt).

Crossing M - 78, and winding along the streets of Whitehills Estates, to come to rest by what Horvath calls "The Berlin Wall" of East Lansing, at "Checkpoint Charlie."

Here they talk about people who are "impoverished in their privilege," in their homogeneity, with no exposure to a different skin color or a different accent, or a different culture.

East Lansing's Great Wall divides two worlds, Horvath says, blocking the view of Whitehills from Tower Gardens, just across Lake Lansing Road.

Then back toward inner city East Lansing and the campus, stopping to check out what is called the "institutional buffer zone," or "the Poland of East Lansing." It is an area of churches, schools, a park, the library, which separate inner East Lansing from the more affluent city fringes.

A stop at VanderVelde's backyard, to see what can be done with ground up garbage and leaves (a compost pile), representing, VanderVelde says, "what we can do individually."

The purpose of this tour, according to Horvath: To view anti-ecological concepts and behavior in urban landscape.

A bike hike through MSU land

Two days later the group takes to wheels, to view woods and fields and the poultry barns.

At the Stanford Natural Area, there is a contrast from one side of the river (trees,

stumps, leaves) to the other (sodded riverbanks, apartment buildings). Servicing several species on the former side, teaching assistant Tom Edison points out, and only one or two on the latter.

Looking at the outfalls from which pure garbage sometimes flows from the city to the river.

Talking about how the death of the river could actually be mapped, geographically. And about death, as ecologists define it: Homogeneity, the lack of diversity.

To the fields and a look at the soil, which is also being killed, they say, by the use of chemical fertilizers. A contrast to the VanderVelde garden which was rich with worms (indicating nutrients) — here there are none.

But this is the agriculture being taught here, VanderVelde says; this, too, is a microcosm.

To the woods. The students are told: "You have 10 minutes, go and become part of the woods." So they wander, looking at varieties of fungus, trees, digging beneath leaves to see the soil.

No one seems to want to leave the woods, and that, VanderVelde says, is part of the message, too.

And then a long bike ride to the poultry research farms, where the students may view through a glass door how chickens are raised in layered cages. One is reminded of tenements. Or dorms, Horvath says.

The chickens are crowded wing - to - wing in an area the students can't enter because the conditions are ideal for the spread of disease.



Ron Horvath and students in a parking lot: "... machine space. Reclassify what it means to you." — Photo by Bob Brown

"Watch the kids," Edison says to Horvath, "it's like they're walking into a funeral parlor."

Later, VanderVelde distributes a picture of a prison, leaving it to the students to note the similarity.

"It's an urban environment," Horvath says, "that man is creating for animals. Think about the total artificiality these chickens are raised with — a shot for color, a shot for tenderness, and who knows what all — and then think about the way we treat ourselves. That's part of the message."

A survival atlas

Bringing it all together, then, is up to the students — in whatever projects they decide they'd like to pursue in small groups. Part of the idea is to make it an ongoing commitment — a behavioral change. The biggest success for the teaching group so far has been the organic farming group from fall term. Starting as eight people in this geography — JMC class, they taught a Free University Class winter term and expanded their number to 65. They formed an organization called AHMOAB (Albert Howard Memorial Organic Agriculture Brigade), and hope to obtain a piece of unwanted University land to, as VanderVelde said, "bring it back (to life)."

And it's all to be put into a book, Horvath says, called a Survival Atlas.

But the success of last fall's course may also be measured to some degree in the evaluations submitted by students that term:

— The instructors as "remarkably enthusiastic."

— A fruitful and enjoyable experience."

— "There just wasn't enough time in the quarter."

— "A good experience for learning because every group did something a little different and everyone could learn their own way."

— "The introductory outings rooted the class in the reality of our environment"

— "I became more conscious of myself as a part of the system of nature and as a polluter. I see things in a different perspective — in terms of the geography of life — in seeing cycles rather than separate ends"

— "I no longer can work effectively in the usual authoritarian lecture - patterned learning environment"

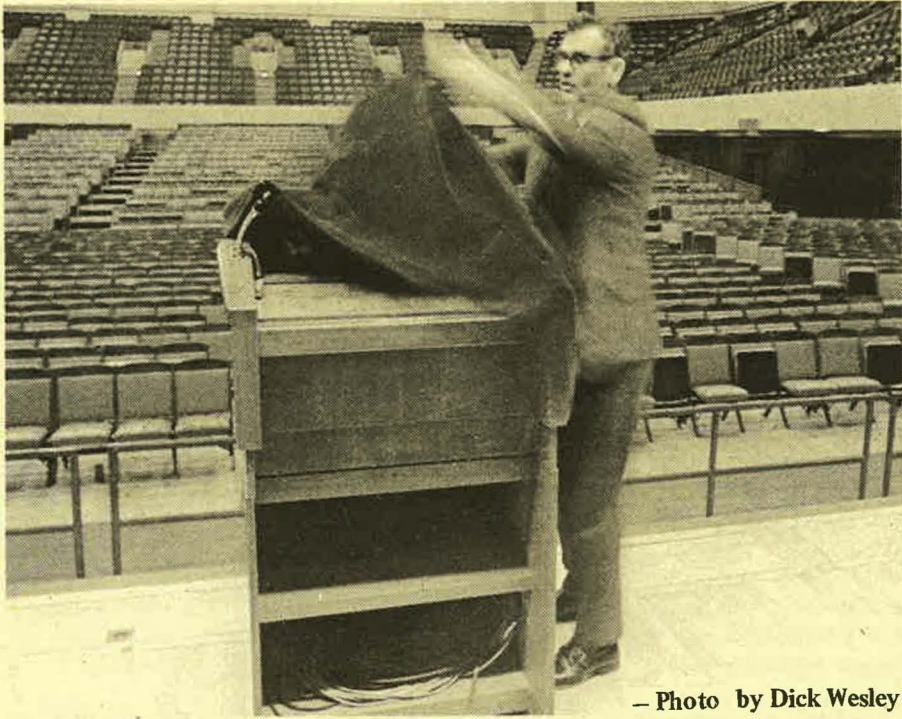
— "If we can understand and change our environment for the betterment of the whole ecology on a small local scale, then we can do it on a large scale"

— "All ideas were entertained, all discussed, and all evaluated"

And a little free style prose:

— "Walk around these city streets, take to your bicycle and see what surrounds them. Store the flashing images your minds view. . . what was beautiful? good? what was ugly or unjust? what do you feel? anything? can you see problems? on what levels? are they biological — have the birds left us — are the trees dying?"

"Are you angry? hurt? disappointed? . . . where are your heads at, students?"



— Photo by Dick Wesley

Jay Roberts

Setting the Auditorium stage

Sets to move, lights to set up, sound system to operate — all get the close attention of Jay Roberts, stage manager for MSU's Auditorium and Fairchild Theatre.

Roberts, who has been stage manager since 1967, is responsible for the operation of the two auditoriums which share a common stage.

The Auditorium is almost in constant use for student and faculty program, Great Issues lectures, conferences such as Farmer's Week, and more than 60 Lecture - Concert Series events. The number of programs total more than 100 annually.

Each day, he checks a three-foot wide rolling calendar listing events for both Fairchild and the Auditorium.

"It's an interesting job — you meet a lot of well-known people."

Prominent national figures such as Mrs Coretta Scott King, U.S. senators, noted performers including Walter Slezak, Ferrante and Teicher and Van Cliburn regularly appear on the MSU stage.

"Most people are fascinated when they come backstage. They are really glad when you take a few minutes to tell them about it," he observes.

Just ask him and he'll show you how the light panel controls the stage lights and house lights for both the Fairchild and the Auditorium, or how various combinations of lights can be connected to one dimmer.

Although he admits there's a lot of excitement in the theater, he says, "You get used to it."

A less glamorous aspect is making certain all the bulbs in the "border" lights and spotlights are working. When not set up for a program, the stage must remain clean and uncluttered, ready for the next production.

Working with Roberts regularly is Marshall Cleves, on call as house electrician.

When a touring show is booked, which may require extra stage hands, he serves as time keeper for these men. "When the Stuttgart Ballet came in 1969, 37 extra stage hands were used," Robert recalled.

Before his present job, Roberts worked at the auditorium stage on many occasions while he also was a projectionist at the Michigan Theater.

— FRED BRUFLODT

COGS establishes student loan fund

MSU graduate students who find themselves in a financial strain after spring vacation may now seek assistance from a newly established fund, thanks to the Council of Graduate Students (COGS).

COGS has successfully implemented a program which allocates 30 percent of each term's revenue for short-term loans to be administered through the Financial Aids Office.

Graduate students may borrow up to \$100 payable in 60 days with no interest. Kim Wilson, vice president of internal affairs for COGS and initiator of the proposal, says the objective of the loan program is to make funds easily accessible to graduate students for meeting financial emergencies without them having to show an "overwhelming proof of need." To date, no graduate students have taken advantage of the fund.

"We hope that we have made adequate provisions," said Wilson, "but if the loan fund is not exhausted, the money will go for other pressing COGS needs."

IN ADDITION to short-term loans, COGS began a life insurance program which until last quarter was the second of its kind in the country. COGS feels the program is beneficial to graduate students because underwriters do not recognize graduate students as a separate entity.

"We hope to establish a medical program, something that can beat Blue Cross and Blue Shield — but that's speculative for right now," Wilson said.

COGS has also allocated \$600 per term for the support of speakers, and other programs especially geared to graduate students.

Regarding the newly adopted constitution, Wilson explained that "It (the constitution) has been a real hassle. Some of the administrative personnel were complaining over technicalities and clouding the pertinent issues. The legitimacy of the organization (COGS)

was questioned, and because there is no judiciary body to handle the problems of grad students, we have had to reaffirm our position as a duly elected body to represent them."

IN A LETTER (April 1) to C.W. Minkel, associate dean of the graduate schools, Wilson noted that the constitution was approved by a 6 to 1 margin.

"We interpret this vote," the letter continued, "as graduate students' recognition of the Council of Graduate Students as their governing organization." He said that this vote, plus approval from the Board of Trustees, "should hopefully be the final step in the question of (COGS) legitimacy at Michigan State University."

"Now that we've crossed that hurdle," says Wilson, "COGS can start treating some of the other problems facing graduate students on this campus."

William Greene, president of COGS, expressed concern for implementing workable solutions to the problems of graduate students by "pressing for basic structural changes within the University to accommodate these students."

"One of the major drawbacks with which we are faced," he said, "is the network of University policy" which requires that many programs for graduate students are not distinguished from undergraduate programs.

"If we can expand the graduate programs and graduate governing bodies, then we can expand significant participation by the graduate students," Greene said.

The graduate rights and responsibilities document was presented to the Board of Trustees.

"If the document is passed," says Greene, "It will establish the graduate students as a viable entity within the MSU community."

— REGINA SHERARD

JMC: How to be a 'trying' college

"Changing curriculum anywhere is like trying to change a graveyard," says the dean of Justin Morrill College. "People get very defensive."

D. Gordon Rohman has headed MSU's first residential college since its beginning in 1965, and he is currently very involved with change, in the birth pangs of what is called "JMC II."

"At its inception," Rohman said, "Justin Morrill College reflected the best educational thinking of the fifties. It is time now that we try to implement the most significant developments in education of the sixties, and we hope to do this in JMC II."

ROHMAN HAS outlined nine themes in education that he feels are important in the creation of JMC II.

*First, "the ancient ideal that education should be the development of students as individuals and not merely the accumulation of knowledge for vocational or professional ends."

*Second, that the college student "needs preparation for a world in which he must play a variety of roles," a world with "an awesome potential for either Utopia or disaster."

*Third, education for individual development to promote "an identity based on such qualities as flexibility, creativity, openness to experience, and responsibility," with intellect considered as only part of the total personality.

*FOURTH, "THE creation of a total educational environment guided by a theory of total personality as well as social theory," in order to develop "a rich and varied impulse life as well as a 'repertory' of intellectual skills."

*Fifth, new objectives, directed not toward the production of credits or test scores, but toward the development of independent thinking, creativity, and social responsibility.

*Sixth, "the standard model of undergraduate education has fostered uniformity in curriculum structure and depersonalization in relations between faculty and students and between students and students." Rohman emphasized the need for small primary groups, and the need to "break down the classroom walls and combine books with direct experience."

*Seventh, a move from the traditional "didactic model" of education (which is "authority centered" and "the student is treated as a kind of information storage and retrieval unit") to a "dialectic model," (in which "learning is a process of joint inquiry.")

"CURRICULUM IS grounded in the concepts of numbers," said Rohman.

"Everything is by count: So many credits for so many hours for so many weeks for so many years, with a grade-point average not under such-and-such yields a degree. This labels as 'excellent' many students who turn out only to be the best gamesmen. Colleges are asked to redefine excellence, to find new ways of appraising it, and to invent new ways of keeping records of it."

*Eighth, "a new understanding of the significance of student protest in the sixties, with a feeling that 'we should move to use the adolescent's blunt and often honest perception as a source of social self-renewal and help him translate his idealism into reality.'"

*Finally, Rohman seeks more "dynamic kind of analysis" of educational institutions, and turns to "systems thinking" as a strategy for analyzing organizations that "tries to take into account the complex and dynamic interplay of every part."

THESE EDUCATIONAL ideals are being implemented this term in a special student-faculty seminar to more clearly shape the concepts surrounding JMC II. The seminar itself is to be structured entirely by the participants who, Rohman hopes, "will step outside the stereotypes of an educational system and begin afresh with what a learning system should be."

But Rohman does not see JMC II, no matter how well composed, as the final answer. Rather he hopes for the establishment of an "opportunity structure," one which remains open-ended, never solidified.

"Our answers will at best be partial," said Rohman. "But the system that will survive is one that will examine itself and change itself. Stability is rigor mortis."

"Justin Morrill College is a scouting party for the University," he said. "My favorite phrase for new students is to tell them that we're a 'trying' college — and I mean 'trying' in every sense of the word."

— PAT GRAUER

The search is still on for three deans

Two months after its first meeting, the College of Communication Arts committee for the "search and selection" of a new dean has submitted the names of three candidates to Provost John Cantlon.

The three candidates are all from MSU, and search committee chairman Robert H. Davis, associate director of the Educational Development Program,

said he expects the new dean to be named soon.

The new dean will replace Jack Bain, who has resigned to return to teaching duties.

Meanwhile, human ecology, whose search committee had submitted three names to the provost in December, is still without a dean. One candidate was here for an interview with the provost in

January, but the other two names on the list were not contacted, according to Robert Rice, chairman of human environment and design and chairman of the search committee.

An invitation is now being extended from the provost's office to a second candidate to come for an interview, Rice said. This candidate was suggested by the search committee after a review of its data on candidates, at which time more names were submitted.

Human Ecology Dean Jeanette Lee announced her intention to retire about a year ago.

The search committee for the College of Education will hold its first meeting this afternoon with the provost to discuss organizational matters, including the election of its chairman.

Election of committee members for that committee was completed by the end of March, and the provost named one committee member and a liaison with his office last week.

The committee members are:

Hugo David, professor of teacher education; Carl Gross, chairman and professor of secondary education and curriculum; Gale Mikles, professor of health, physical education and recreation; James Nelson, professor of administration and higher education; Donald Nickerson, associate professor of elementary and special education; Lee Shulman, professor of educational psychology; Jean LePere, professor of elementary and special education, named by the provost; graduate student Michael Pasternak, and undergraduate Barbara Collar. Alternate students are: James Covert, graduate, and Linda Kay Butler, undergraduate. Liaison from the provost's office is Robert Davis.

Education Dean John E. Ivey Jr. announced his intention to retire last term, effective by the end of the term. William Hawley was named as interim dean.

President Wharton responds to Gov. Milliken's proposal

Earlier this week, Gov. William Milliken released his proposal on educational reform in Michigan. Following is a statement by President Wharton in response to that proposal.

"Gov. Milliken's proposal to establish a Michigan Commission on Higher Education is a necessary step in the development of sound state policies in this vital area. It is appropriate that the governor listed as the commission's first responsibility the identification of goals and objectives for higher education in this state. This objective is most laudable because the fundamental decisions must treat higher education as a wise social investment and not deal just with the specific organizational aspects of the system.

"The critical nature of the funding problems which face our state universities and colleges, whatever the commission's findings, certainly lends urgency to this proposal. We at Michigan State will cooperate in any way possible.

"Meanwhile, the work of the MSU Commission on Admissions and Student Body Composition, which is attacking a number of problem areas in higher education which the governor highlights, is nearing completion. We would anticipate that the detailed work already done by our group will be a valuable contribution to the governor's proposed Commission on Higher Education."

CMU faculty set to vote on 3-year contract

Negotiating teams representing the Central Michigan University faculty and the CMU Board of Trustees last week agreed on a three-year contract.

The contract, which goes into effect with the beginning of the 1971 - 72 academic year if ratified, calls for direct salary increases ranging from 6.5 percent, plus \$66, for the next year to 6.6 percent, plus \$200, for 1973-74.

Fringe benefit provisions range from a 1.2 percent increase for 1971-72 to 2 percent for 1973-74. Fringe benefits affected by the proposed contract are hospitalization insurance, life insurance, disability income benefits and travel accident insurance.

A ratification vote by the CMU faculty is scheduled for sometime next week. The contract must also be ratified by the CMU Board of Trustees.

Other major provisions of the new agreement include procedures establishing faculty participation at the departmental level in such areas as selection of new faculty, retention and termination of nontenured faculty, tenure, promotions and other matters.

Compensation increases for each of the three years are:

*For the 1971-72 academic year, the total direct salary increase will be 6.5 percent, plus \$66, while fringe benefit increases will total 1.2 percent.

*For the 1972-73 academic year, the total direct salary increase will be 6.54 percent, plus \$100, in addition to 1.5 percent for fringe benefits and about .5 percent for special achievement awards.

*For 1973-74, the total direct salary increase will be 6.6 percent, plus \$200, while fringe benefits will increase 2 percent and achievement awards will increase .5 percent.

The major fringe benefit provision for next year will be an increase in the CMU's contribution to faculty hospitalization

insurance from \$13 a month to \$32 a month. That figure will go to \$49 a month in 1972-73 and to \$75 a month in 1973-74.

Also to be implemented in 1972-73 are improved disability income benefits for faculty members and an increase in the University travel accident policy from \$25,000 to \$50,000.

In 1973-74, in addition to the hospitalization provision, term life insurance available to faculty members will be increased to a minimum of \$15,000 with the CMU paying the entire cost of the first \$5,000 and the balance being paid on a shared basis by CMU and each faculty member. Current policy provides for term life insurance equal to the faculty member's annual salary with the entire premium being paid on a shared basis.

Froines to speak

A speech by John Froines, former chemistry professor at the University of Oregon and one of eight defendants at the Chicago conspiracy trial, will highlight this weekend's "Festival of Alternative Life Styles and Community Action."

Froines will speak at 8 p.m. Sunday (April 18) in 106B Wells Hall on antiwar activities planned for this spring and on the People's Peace Treaty. His speech will be the first annual Paul Revere Memorial Lecture, sponsored by Faculty for Peace and the Lansing Area Peace Council.

Other events scheduled for the Festival include: A social change film festival beginning at 7 p.m. Friday in the Shaw Hall basement; displays and programs beginning at noon Saturday in and around Shaw Hall; pot luck dinner at 4 p.m. Sunday in Shaw Hall, and the film "Time is Running Out," to be shown with the Froines speech.

Need campus information?

An expanded MSU information service has been announced by Robert Perrin, vice president for University relations, and Richard E. Chapin, director of libraries.

A single telephone number, 353-8700, will be the central point of inquiry for persons seeking assistance on questions concerning the University.

Designed primarily for the public, the service also will be available to MSU faculty, staff and students. In addition, students may continue to use the student-run Hubbard Information Center (HIC) which also serves as a rumor control center.

The expanded telephone service is located at the reference desk of the MSU Library. On duty from 8 a.m. to 11 p.m. Monday through Saturday and

from 10 a.m. to 11 p.m. on Sunday, staff members will assist callers regarding schedules of campus events, where to call for specific help and general University information.

"In the past, callers on and off campus frequently had frustrating times seeking to track down accurate information about MSU activities," Perrin and Chapin said. "We hope to centralize the gathering and dispensing of information, and thus eliminate confusion."

The Hubbard Information Center also is located in the library, which will facilitate coordination of the two services. Reached through 353-8114, the HIC operates from 10 a.m. to 9 p.m. daily with student volunteers. It is closed weekends and during term breaks.

From the registrar

SUMMER ENROLLMENT

The 1971 summer term Schedule of Courses and Academic Handbook is available to students at the counter in Room 150, Hannah Administration Bldg. Students may also pick up a Registration Section Request form which should be completed and returned to Room 150 no later than Wednesday, May 5. The course sections that students request in enrolling on the Registration Section Request form will be reserved for them only through early registration which will be held in the Men's IM Bldg. June 8, 9, and 10. All students who register at regular registration on June 21-22 must obtain class cards for each course.

ACADEMIC ADVISING

Students enrolled during this spring term who plan to attend the 1971 summer term and/or fall term should see their academic adviser according to the arrangements in the colleges and departments. This information will be announced in the State News during the week of April 19. The catalog, and college and departmental mimeographed materials, will be available for use by academic advisers in working with advisees during spring term. The fall term Schedule of Courses and Academic Handbook will be printed after the final meeting of the Academic Council in June.

FALL ENROLLMENT

In July, the fall term Schedule of Courses and Academic Handbook (including a blank Registration Section Request form) will be mailed to each student who was enrolled during spring term, and who plans to return for the 1971 fall term. The student at that time should (1) refer to his "academic progress plan" developed with his academic adviser, and complete his Registration Section Request form in accordance with that plan, and (2) return the completed Registration Section Request form by mail to the Office of the Registrar no later than August 13.

FALL REGISTRATION

The completed Registration Section Request forms will be processed through data processing, and preliminary class lists and tabulations will be prepared and distributed to assistant deans and departmental chairmen, following the procedure of the winter and spring terms this year. Comments and suggestions for the improvement of registration will always be welcomed by the Registrar from members of the faculty.

Bulletins

ACADEMIC COUNCIL There will be a special meeting of the Academic Council at 3 p.m. Tuesday, April 20, in the Con Con Room, International Center.

STUDENT EMPLOYMENT Students and faculty in need of typists for term papers, theses, etc., may contact the Student Employment Office, 5-9520, for names of MSU students desiring typing jobs. Students are also available for babysitting, housework, painting and odd jobs.

SUMMER WORK-STUDY Departments wishing Work-Study students for summer term should complete a Personnel Request, available at 257 Student Services Bldg. Current Work-Study students' eligibility expires June 11 and must be recertified for summer. Part-time employment (15 hours per week) will run from June 21 through Sept. 3. Employers should get an Assignment Notification from their Work-Study students for verification.

NATURE FILM SHOWN A feature-length color movie, "Alaska, Wildlife Wonderland," will be shown at 8 p.m. April 16-17 in the Veterinary Clinic Auditorium. Admission to the program, sponsored by Campus Advance, will be \$1 for students and faculty; public \$1.50, children under 12 free.

OPEN OBSERVATORY The MSU Observatory will hold a public open house Saturday, April 17, from 7:30 to 10:30 p.m. The new 24-inch reflecting telescope will be used for visual observing if the sky is clear. The telescope and facilities will be available for inspection. Children under 13 should be accompanied by an adult, with at least one adult for every three children.

FWA SPRING DINNER The Faculty Women's Association will honor Dr. Patricia Carrigan, new member of the Board of Trustees, at their annual Spring Dinner and Cocktail Reception April 27 at the Faculty Club. All MSU women, faculty and staff are invited. Reservations must be submitted to Mrs. Dorothy Ross in the Counseling Center by Tuesday, April 20.

HORIZONS ON WKAR On Horizons this Saturday, April 17, "Head Start" will include an overview of the Head Start program, its history, effectiveness, funding and future. Mike Smith and Doug Rook will interview Dr. Eileen Earhart of the Institute of Family and Child Sciences in this first of two programs produced by Jim Respress. Horizons can be heard at 5:30 p.m. over WKAR-AM (870).

GAMUT ON WMSB-TV This Saturday Gamut presents "COGS, the Council of Graduate Students" which will look at the council's purpose, structure, its relation to the rest of university government, what COGS can do and has done. Gamut is produced by the MSU Broadcasters' Guild and is aired at 11:30 a.m. on WMSB-TV, channel 10.

SCIENTIST SPEAKS Dr. Erwin Chargaff, chairman of the dept. of biochemistry at Columbia U. and member of the National Academy of Sciences, will present the third annual Distinguished Scientist Seminar sponsored by the graduate students of microbiology and public health. He will present a public lecture on Monday, April 19, at 8 p.m. in 100 Engineering Bldg. entitled "Remarks on the Current Revulsion from Science." On Tuesday, April 20, at 4 p.m. in Room 106B Wells Hall he will speak on the "Problems in the Strand Separation of DNA."

EXHIBITIONS

Kresge Art Center
Works from the permanent collection.

Michigan artists David Barr, Morris Brose, Sheldon Iden, Zubel Kachidoorian, Joseph DeLuca, Roger Mayer, Mark Raudzens, and Robert Wilbert are exhibiting paintings, sculpture and metal collage. Entrance and North Gallery Through April 25.

Gallery Hours: Monday-Friday, 9-12 and 1-5 p.m. Tuesday, 7-9 p.m. Saturday-Sunday, 2-5 p.m.

CONFERENCES

April 15-16	Building Officials Conference
April 15-17	Workshop in Advanced Salesmanship
April 16	Undergraduate Education in Social Work
April 16-17	Home Economics Alumni Reunion
April 16-17	Midwest Comparative International Education Society
April 18-23	Job Search Information Officers
April 18-May 22	Housekeeping Management for Health Care Facilities
April 19-20	Dutch Bulb Forcers Clinic
April 20-21	5th Annual Dairy Fieldmen's Conference
April 20-29	Basic Fire & Casualty Insurance Institute

PUBLIC LECTURE The Christian Science Organization will sponsor a lecture by James Spencer of Detroit on "Where Do Our Rights Come From?" at 4 p.m. Monday, April 19, in 207 Student Services Bldg. The lecture, open to the public, will be followed by a question and answer period.

INT'L. EXCHANGE Foreign and Fulbright Scholars and other faculty members interested in international education exchange will meet at 7:30 p.m. Tuesday, April 27, in the Centennial Room, Kellogg Center. Dr. Milton E. Muelder, vice president for research development and dean, School for Advanced Graduate Studies, will discuss "The University's Role in Research."

SOVIET FILM SHOWN The Russian and East European Studies Group will present the Soviet film "Cranes are Flying" at 7:30 p.m. April 20 in 101 N. Kedzie. Admission is free.

NURSERY OPEN HOUSE The MSU Community Cooperative Nursery (Jolly and College Roads) will hold an open house for prospective members at 2-5 p.m. Sunday, April 25. Reservations are being accepted for 3 and 4-year olds for fall term.

MEXICAN FILMS The Mexican Film Festival, organized by the Romance Languages Dept., will include two films on April 21. "Forgotten Village" is the story of superstition and modern medicine in a small Mexican village. The films will be shown in 106B Wells Hall at 7:30 p.m. Admission is \$1.

STOP THE WORLD The MSU New Players will present Anthony Newley's English musical "Stop the World—I Want to Get Off" April 21-24 in the Union Ballroom. Performances Wednesday and Thursday will be at 8 p.m.; Friday at 2, 7:30 and 10 p.m.; Saturday at 7:30 and 10 p.m.

MEXICAN FILMS The Mexican Film Festival, organized by the Romance Languages Dept., will include two films on April 21. "Forgotten Village" is the story of superstition and modern medicine in a small Mexican village. "Kon-Tiki" shows Thor Heyerdahl's Voyage from Peru to Polynesia. The films will be shown in 106B Wells Hall at 7:30 p.m. Admission is \$1.

COMPUTER LAB COURSES The first of three noncredit short courses for spring term will be offered by the Computer Laboratory this week. A six week FORTRAN short course will be offered every Monday evening 7-9 p.m. in 313 C.C. beginning April 19.

INFORMAL NOTICES

FACULTY FOLK Tickets for the May 14 Faculty Folk "Lunch with Gwen Frostic" will be on sale at Friday's meeting 12:30-1:30 p.m. After that date they will be available from Mrs. Robert Ehrlich, Mrs. Carl Brautigan and Mrs. Harold Lane.

BOOK REVIEWERS CLUB The Faculty Folk Book Reviewers Club will meet at 9:30 a.m. Friday, April 23, at the home of Mrs. J. G. Moore, 2037 Pawnee Trail, Okemos. Mrs. Clyde Campbell will review Jonathan Daniels' "Washington Quadrille."

Campus Plantings
Among the first exotic trees to bloom is the Japanese Cornel. West of the International Center.

Beal Garden
The Daphnes, at three bed locations, the Fragrant Viburnum and Chinese Winter-hazel are among the first blooming shrubs.

Hidden Lake Gardens
Early tulips are now blooming. Open daily until sundown. Tipton, Mich.

April 21-11	Wage & Salary Seminar
April 22	Strike Contingency Planning for School Management
April 22	Medical Aspects of Sports
April 25-28	Federal Temple Sisterhoods Leadership Conference

All conferences are held at 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.

Items for the bulletin section, pages 7-8, may be submitted by an authorized MSU employe if the event or information pertains to events either held on campus or sponsored by an MSU organization. Material should be submitted to Sue Smith, Dept. of Information Services, 109 Agriculture Hall, (517) 353-8819. Deadline for submitting information is 5 p.m. Tuesday preceding the Thursday publication. The calendar of events will cover an 8-day period, Friday through Saturday.

University Calendar

Michigan State University

Calendar of Events

For the week of April 16 - April 24

Friday, April 16, 1971

- 10 a.m. Board of Trustees—monthly meeting. Hannah Administration Bldg.
- 2 p.m. Baseball—MSU vs. Minnesota, doubleheader. John H. Kobs Field.
- 3 p.m. Tennis—MSU vs. Northwestern. Varsity Tennis Courts.
- 8 p.m. Planetarium Program—"The New World" explores the mysteries of science fiction. Abrams.
- 8:15 p.m. Lecture-Concert Series (Series "B")—Pianist Van Cliburn will perform works by Brahms and Chopin. Auditorium.
- 10 p.m. Planetarium Program (see above) Abrams.

Saturday, April 17, 1971

- 1 p.m. Baseball—MSU vs. Iowa, doubleheader. John H. Kobs Field.
- 1 p.m. Tennis—MSU vs. Wisconsin. Varsity Tennis Courts.
- 2 p.m. Lacrosse—MSU vs. Denison. No admission charge. Football Practice Field.
- 2:30 p.m. Planetarium Program (see Fri.) Abrams.
- 6:30 p.m. Faculty Club Viennese Dinner and Entertainment.
- 8 p.m. Hospitality Weekend Gourmet Dinner features Spanish cuisine and wine tasting reception at 7 p.m. Tickets available at Eppley Ctr. for \$14. For reservations call 355-0110. International Center.
- 8 p.m. Planetarium Program (see Fri.) Abrams.
- 8:15 p.m. World Travel Series—"Ireland...Then and Now," filmed and narrated by Mildred Capron. Auditorium.
- 10 p.m. Planetarium Program (see Fri.) Abrams

Sunday, April 18, 1971

- 2:30 p.m. Planetarium Program (see Fri.) Abrams.
- 4 p.m. Planetarium Program (see Fri.) Abrams

Monday, April 19, 1971

- 8 p.m. Faculty Club Family Movies, featuring Charlie Chaplin, following buffet supper.
- 8:15 p.m. Lecture-Concert Series (Series "A")—The Netherlands Dance Theatre, company of 50, will present contemporary dance programs including music of the late Igor Stravinsky. Tickets available at the door. Auditorium.

Tuesday, April 20, 1971

- Noon Faculty Club Luncheon—Guest speaker will be Frank A. Colombo, executive vice president of J. L. Hudson Co. in Detroit, on "Will Hudson's Come to East Lansing?"

SEMINARS

Monday, April 19, 1971

- ALBERT ELLINGBOE—Genetic control of primary infection of wheat and barley by *Erysiphe graminis*. 4:10 p.m., 106 Plant Biology. (AEC Plant Research Lab.).
- GUY EARL & HANK FOTH—Interpretive classifications for soils of Michigan. 12:10 p.m., 209 Soil Science Bldg. (Crop & Soil Sciences).
- D. A. BROMLEY, Yale U.—Nuclear molecules revisited. 4:10 p.m., 118 Physics-Astronomy Bldg. (Physics).
- DAVID K. MICHAEL—Hypoxia-induced alterations in mammalian CSF dynamics. 4 p.m., 216 Giltner Hall. (Physiology).

Tuesday, April 20, 1971

- R. L. BENOIT, U. of Montreal—Solvent effects on some reactions. 4 p.m., 136 Chemistry Bldg. (Chemistry).
- FREDERICK W. GEBAUER, Vice president, Cascade Data Computer Systems, Grand Rapids—Design of a computer for small business applications. 7:30 p.m., 100 Engineering. (Computer Science).
- LOUIS SAIR, Giffith Labs., Inc., Chicago, Ill.—Food additives in the meat industry. 4:10 p.m., 110 Anthony Hall. (Food Science & Human Nutrition).
- ERWIN CHARGAFF, Columbia U.—Problems in strand separation of DNA. 4:10 p.m., 106B Wells Hall. (Microbiology & Public Health).
- W. D. OXENDER—Endocrine development of the bovine fetus. 4:10 p.m., 346 Giltner Hall. (Pathology).
- K. S. RAO—Studies on aflatoxin induced fatty liver in monkeys. 4 p.m., 334 Giltner Hall. (Pharmacology).

Wednesday, April 21, 1971

- DIMITRI GERMIDIS—Collective bargaining in Mexico: variations in construction. 3 p.m., 3 Marshall Hall. (Economic Development & School of Labor & Industrial Relations).
- JOHN SHIRLEY—Enzymatic changes in bovine adipose and mammary tissue with initiation of lactation. 4:10 p.m., 131 Anthony Hall. (Institute of Nutrition).
- S. AGGARWAL, H. T. TIEN & J. SPECK—Structure and chemical composition of different membranes; physical probes. 8 p.m., 101 Biochemistry. (Membranes Research).
- VON DEL CHAMBERLAIN—What are the most relevant topics in astronomy for general liberal education — one opinion. 3 p.m., 322 N. Kedzie Hall. (Natural Science).
- MICHAEL CHUBB & NORMAL RICHARDS—State recreation planning and use survey problems. 11:30 a.m., 338 Natural Resources. (Park & Recreation Resources).
- PETER BRISTOW—Protection against *Rhizoctonia solani* by accumulated PCNB in plants. 4:10 p.m., 168 Plant Biology. (Plant Pathology).

- 3 p.m. Academic Council—special meeting. Con Con Room, Int'l. Center.
- 8:15 p.m. Graduate Recital—Clarinetist Carol Jessup will perform. Music Aud.
- 8:15 p.m. Lecture-Concert Series (Series "B")—The Netherlands Dance Theatre utilizes work by Hindemith in modern dance techniques. Tickets available at the door. Auditorium

Wednesday, April 21, 1971

- 8 p.m. New Players—"Stop the World—I Want to Get Off" by Anthony Newley includes 20 musical productions. Tickets, \$2, available at the Union Ticket Office or at the door. Union Ballroom.
- 8:15 p.m. Graduate Recital—Organist Stephen Lange will perform. Hart Recital Hall.

Thursday, April 22, 1971

- 8 p.m. New Players (see Wed.) Union Ballroom.
- 8:15 p.m. Concert—Faculty Brass Quintet of Western Michigan University will perform compositions by 20th century composers, as well as Bach, Bozza and Schuller. No admission charge. Music Aud.

Friday, April 23, 1971

- 2 p.m. New Players (see Wed.) Union Ballroom.
- 7:30 p.m. New Players (see Wed.) Union Ballroom.
- 8 p.m. Performing Arts Company (PAC)—Orchesis, modern dance group, will be featured in contemporary and interpretive dance. Tickets, \$1, available at the door. Fairchild Theatre.
- 8 p.m. Planetarium Program (see previous Fri.) Abrams.
- 10 p.m. Planetarium Program (see previous Fri.) Abrams.
- 10 p.m. New Players (see Wed.) Union Ballroom.

Saturday, April 24, 1971

- 9 a.m. State Gymnastics Championships—Top gymnasts in the midwest will compete in the finals. Admission is \$1 for adults; 50 cents for MSU students and children. 3rd Floor, Jenison.
- 2 p.m. PAC (see Fri.) Fairchild Theatre.
- 2:30 p.m. Planetarium Program (see Fri.) Abrams.
- 7:30 p.m. New Players (see Wed.) Union Ballroom.
- 8 p.m. World Travel Series—"The Amazing America of Will Rogers," filmed and narrated by John Nicholls Booth. Auditorium.
- 8 p.m. Planetarium Program (see Fri.) Abrams.
- 10 p.m. New Players (see Wed.) Union Ballroom.
- 10 p.m. Planetarium Program (see Fri.) Abrams.

- MILTON H. MILLER, Chairman of Psychiatry, U. of Wisconsin—Do we have the mentality to survive? 12:40 p.m., 104B Wells Hall. (Psychiatry, Anthropology & the Asian Studies Center).
- WADE O. BRINKER—Information gained during 6-month sabbatical leave. 7:45 a.m., S123 Veterinary Clinic. (Small Animal Surgery & Medicine).

Thursday, April 22, 1971

- LESTER THUROW, MIT—Poverty and discrimination. 3:30 p.m., Parlor C, Union Bldg. (Agricultural Economics).
- PO-CHAO LIN—Enzymes of cyclic nucleotide monophosphate metabolism in pea seedlings. 1:10 p.m., 101 Biochemistry. (Biochemistry).
- ROBERT MENSON—Mono amine oxidase. 4:10 p.m., 101 Biochemistry. (Biochemistry).
- DAVID IMIG—Masculinity-femininity as related to marital adjustment. 3 p.m., 102 Human Ecology Bldg. (Family & Child Sciences).
- ELLIS MEREDITH, Executive Vice President, American Apparel Manufacturers Assoc.—Communication by Mass Production. 3:30 p.m., Gold Room, Union Bldg. (Human Environment & Design).
- JON SCHMIDTKE, Scripps Clinic & Research Foundation—The immunogenic function of macrophages. 4:10 p.m., 146 Giltner Hall. (Microbiology & Public Health).
- MILTON H. MILLER, Chairman of Psychiatry, U. of Wisconsin— Chinese students in Wisconsin and American students in Taiwan. 4 p.m., McDonel Kiva. (Psychiatry, Anthropology & the Asian Studies Center).
- J. R. PILBROW, Monash U., Australia—Phonon broadening in optical spectra. 4:10 p.m., 221 Physics-Astronomy. (Physics).

Friday, April 23, 1971

- S. R. SEN, Executive Director, World Bank—Agricultural problems in developing countries. 10 a.m., 16 Agriculture Hall. (Agricultural Economics).
- S. R. SEN, Executive Director, World Bank—Unemployment, land reform and income distribution in developing countries. 3 p.m., Parlor C, Union Bldg. (Agricultural Economics).
- MILTON ORCHIN, U. of Cincinnati—The structure and bonding in platinum (II) complexes. 4 p.m., 136 Chemistry Bldg. (American Chemical Society of MSU).
- PHILIP SHEPARD—What is it that people communicate? 4 p.m., 206A Morrill Hall. (Philosophy).
- Preview Of The Washington APS Meeting. 4:10 p.m., Cyclotron Seminar Room. (Physics).
- HENRETTA T. BAND—Genetic changes, climatic shifts, cycles and other heresies. 3 p.m., 204 Natural Science Bldg. (Zoology).