



The campus starts to bloom, with a little help for Mother Nature. See a story on campus plantings, page 4.

— Photo by Dick Wesley

# MSU News-Bulletin

Vol. 2, No. 26

Michigan State University

May 6, 1971

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## Council endorses tenure rule change; Senate to consider action on May 19

The Academic Senate will meet May 19 to consider the proposed change in tenure rules that would allow giving written reasons for nonrenewal of nontenured faculty members. The

University Faculty Tenure Committee proposal was unanimously endorsed by the Academic Council at its meeting Tuesday.

Little discussion took place on the

issue, except for a suggestion from president emeritus Walter P. Adams, a member of the executive council of the national AAUP, that appeal procedures, as outlined in national AAUP law, be included in the provision.

The AAUP policy, approved by the national AAUP membership last month, provides for giving reasons and for review of nonrenewal decisions as a "safeguard against arbitrary, capricious and indiscriminate actions" by both faculty and administrators, Adams said.

Speaking in support of the tenure committee proposal, Adams referred to a 1966 statement from the MSU chapter of the AAUP concerning the "Orange Horse Three," three instructors in University College who were not reappointed. At that time, the AAUP council recommended that an annual review of faculty members be conducted with the outcome communicated to individuals in writing; that nonreappointed faculty members be notified in writing in time to allow

for appeals within the department before the decision is relayed to the dean, and within the college before the decision is relayed to the provost. The notification should, the AAUP said, include some explanation of the basis for the nonreappointment, which should be considered privileged information.

Five years later, Adams noted, the University is acknowledging these recommendations and formalizing them into University policy.

A motion to have review and appeal procedures available at each administrative level within the University, with hearings to consider both substantive and procedural matters, was referred to the tenure committee for further consideration.

In other action, the Council:

\*Approved the deletion of the health, physical education and recreation requirements, but referred back to the

(Continued on page 6)

## Natural science approves new appeal procedure

The faculty of the Department of Natural Science provisionally approved Monday a procedure by which nonreappointed faculty members may appeal this fall to an ad hoc committee of tenured department faculty for

reconsideration of their nonreappointment.

The procedures would allow the four faculty members whose appointment would have terminated this August to appeal to the committee, if they are still here in September.

But only two of the four will still be here. Eileen Van Tassell, assistant professor of natural science, has requested a one-year extension of her appointment under a provision approved by the Board of Trustees last month. One of the four, an instructor in natural science, had earlier been granted a one-year extension by the department.

A third has said he will leave in August, and Bertram G. Murray has accepted a position with Rutgers University.

\*\*\*

THERE HAS BEEN some question about the range of the Trustee action regarding the extension for nonreappointed faculty members. The original motion from Trustee Clair White expressed concern about "those few faculty members whose contracts were not renewed in December 1971, and who requested but were denied reasons why they were not reappointed."

(Continued on page 6)

## University to honor retirees

The year was 1927: The name was Michigan State College of Agriculture and Applied Science...the president was Kenyon L. Butterfield...enrollment was below 3,000...the Ph.D. program was in its infancy.

And in 1927 Elwood P. Lawrence joined the faculty.

This year, after 44 years at MSU, Lawrence is retiring as a professor of English. He and 40 other faculty who have retired in the past year will be honored Friday (May 7) at a luncheon in Kellogg Center.

A list of the retirees, whose collective service to the University totals more than 1,100 years, is on page 5.

## Employees' group to meet; election of officers slated

Election of officers is the highlight planned for the annual meeting of the MSU Employee's Association next Wednesday (May 12) at 7:30 p.m. in Room 102B of Wells Hall.

A slate of candidates that may be as high as nine will be submitted to fill the offices of president, vice president, recording secretary, corresponding secretary and three directors at large.

The group, composed of clerical-technical employees, now has nearly 400 members, according to

Rollin V. Dasen, current president and recording supervisor for WKAR. He noted that the total is still far short of the more than 800 members the group seeks in order to gain official recognition by the University. It would take more than 800 members for the group to include more than 50 percent of MSU's clerical-technical employees.

Dasen said that next week's meeting is open to all clerical-technicals, although only association members will be able to vote.



## In Brief...

**NOBELWINNER HERE.** The 1970 Nobel Peace Prizewinner, Norman E. Borlaug, will deliver a lecture and two seminars on the campus Tuesday, May 11. He will give the 1971 Distinguished Lecture in Agriculture and Natural Resources at 8 p.m. in the Auditorium.

Borlaug, director of wheat improvement at the International Maize and Wheat Improvement Center near Mexico City, will discuss "The Green Revolution - Its Genesis, Impact, Dangers and Hope." He will also receive an honorary doctor of science degree. His seminars will be at 9:30 a.m. in 106B Wells Hall and at 2 p.m. in 109 Anthony Hall.

He won the Nobel Prize for his role in developing new wheat varieties that have promise of abolishing hunger for millions in developing nations.

\* \* \*

**TIMES ARE CHANGING.** Universities are experiencing rapid social change, but it's only preparation for what will come, says the chairman of MSU's Department of Medicine. Writing in the spring issue of the MSU Centennial Review, Scott N. Swisher says:

"At present, only the vaguest outlines of what universities must become in order to fulfill a socially viable role can be gleaned from the rhetorical babel which arises from the contending groups."

He maintains that to restore the unity they once had, universities must deal with human values as well as the acquisition of knowledge and skills. "We need a larger sense of common purpose, an overriding academic principle which will provide a major organizer for most of our activities. A coming together within the university to deal with problems and values can provide such a force."

\* \* \*

**MOBILE POLLUTION LAB.** Thanks in part to a mobile laboratory, MSU scientists are developing an early warning system for water pollution. "Many of the things which indicate pollution in a stream are so gross that it's almost too late to do anything about it," says Niles Kevern, chairman of fisheries and wildlife.

He and scientists from the Institute of Water Research are comparing data from three Michigan streams in varying degrees of pollution to find factors which are early pollution indicators.

The mobile lab is a trailer that automatically and continuously measures the amount of dissolved oxygen in the water, the water temperature, the acidity of water and the presence of salts.

## Science notes

# Moral issues face scientists

By PHILLIP E. MILLER  
News Bureau

"We must all get used to the idea that biomedical technology makes possible many things we should never do."

Scare statement? Perhaps, but such statements are on the increase. This one was recently made in Washington by Leon R. Kass, Executive Secretary of the Committee on Life Sciences and Social Policy of the National Academy of Sciences.

"Recent advances in biology and medicine," he said, "suggest that we may be rapidly acquiring the power to modify and control the capacities and activities of men by direct intervention and manipulation of their bodies and minds."

What he went on to say drew to

mind images of humans being raised much as mushrooms in a cellar.

Kass was talking about cloning, which has been used on plants and animals to make duplicates of the plants and animals. "...Its extension to man merely requires the solution of certain technical problems," he said.

What he didn't guess at was the extent of expense, work or time required to solve the certain technical problems.

If you were the scientist who first discovered how to clone man, what would you do with this knowledge? If you don't like the cloning example, then think back to the scientists who foresaw the atomic bomb.

Usually, in the scientist's eyes, if scientific information does not somehow get presented to others, then the scientist is negligent who withholds information for very long.

GEORGE FAIRWEATHER, MSU psychologist, goes further beyond what he believes is the typical scientist's ideals.

"It is the responsibility of the experimental innovator to see to it that his inventions are used in the best interests of mankind," said Fairweather in a recent discussion of a book he is completing. "Once a new scientific discovery has been made, the ethical scientist cannot leave its implementation to others unless he has strong assurance of that successful implementation. If the scientist is to act humanely, his scientific job is not done until implementation has been accomplished."

Likewise, the scientist must try to prevent implementation of what he believes is harmful, said Fairweather.

"For humanitarian reasons, therefore, the scientist must now turn his attention to changing his society in

## Anti-discrimination policy available in handbook

A new handbook detailing the University's anti-discrimination policy and procedures has been issued by the Office of Equal Opportunity Programs.

It outlines the purpose of the policy, defines the kinds of discrimination prohibited, describes the Committee Against Discrimination and the Anti-Discrimination Judicial Board, and lists the appeals procedures.

In a foreword to the publication, President Wharton says the document "represents a significant 'first' for a major university. We hope, thereby, to achieve a climate in which the equality of all persons is assured and accepted, regardless of race, creed, color, sex or national origin."

Copies of the handbook, as well as

## Ensemble concert

A work by Jere Hutcheson, assistant professor of music, will be premiered in a concert next Tuesday (May 11) by MSU's New Musical Art Ensemble. The concert is at 8:15 p.m. in the Music Auditorium.

The work, "About," is dedicated to Hutcheson's daughter, Amie, and was written especially for the New Musical Art Ensemble. The ensemble is conducted by Larry Nelson, a doctoral candidate in music composition.

forms on which cases of discrimination may be reported, are available from the Office of Equal Opportunity Programs, 312 Administration Building, phone 353-3922.

## WMSB

Friday, May 7

7 p.m. - Attorney William Kunstler and Harvard law professor Roger Fisher debate "If You Oppose the Vietnam War, Should You Answer the Call for Massive Civil Disobedience?" on "The Advocates."

Sunday, May 9

12:30 p.m. - A visit to a Texas bug - stomping contest leads off a six - week series of works by innovative young filmmakers on "16MM." 1:30 p.m. - Part 2 of "Trial: The City and County of Denver vs. Lauren R. Watson," the trial of a Black Panther. 3 p.m. - Singer Arlo Guthrie is featured on "Fanfare." 4:30 - "Black Journal" examines the judicial system. 10:30 p.m. - "Assignment 10" features recent oil discoveries in mid-Michigan. 11:30 p.m. - "George Eliot" is the subject on "NET Playhouse Biography."

Tuesday, May 11

7 p.m. - Storyteller Jean Shepherd rides the "City of Los Angeles" on its final rail journey across the West.

## WKAR

Thursday, May 6

1 p.m. (AM) - Anthony Kuharich, director of the bureau of standards for the Illinois Department of Corrections, discusses "Jails."

Friday, May 7

1 p.m. (AM) - "Morality and the Law" is discussed by Norval Morris and Joseph Sittler of the University of Chicago and Nat Lehrman of Playboy magazine.

Saturday, May 8

1:30 p.m. (AM) - British author - humorist Lord Ritchie Calder talks about "Man vs. Machine in 1984: A Struggle for Survival."

Sunday, May 9

2 p.m. (AM - FM) - The Cleveland Orchestra performs Five Pieces for Orchestra by Webern, Piano Concerto No. 3 by Prokofiev, Symphony No. 1 by Brahms.

Tuesday, May 11

1 p.m. (AM) - Presidential communications director Herbert G. Klein discusses "Perspectives on Violence." 8:30 p.m. (FM) - The Boston Symphony features Serenade No. 6 k. 239 by Mozart; Ma Mere L'oye by Ravel; Ein Heldenleben, Op. 40 by Strauss.

Thursday, May 13

1 p.m. (AM) - From the Albion College Convocation Series, author Betty Frieden ("The Feminine Mystique") speaks.

## Outdoor concert

An outdoor concert for family listening will be presented Sunday (May 9) at 5:30 p.m. on the lawn west of the new day-care center in Spartan Village. Parking is available near the center. Performing will be the 100-piece Symphonic Band under director Kenneth Bloomquist and three student guest conductors. The center is at Middlevale and Crescent Roads.

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## SUNday will return

Dialogue between students and community residents is the aim of SUNday II, planned for May 16 by two MSU students.

SUNday II, similar to SUNday held last June, is planned as a day of dialogue in a congenial picnic setting, say Belinda Novik and Doug Solomon.

It already has support from the East Lansing - Meridian Chamber of Commerce; Mayor Gordon Thomas of East Lansing and Jim Brown, Republican state representative for the East Lansing - Okemos communities.

SUNday will be May 16 from 11 a.m. - 4 p.m. in East Lansing's Valley Court Park adjacent to the bus depot and People's Church.



# Going 'down south' for the winter

To Henry A. Imshaug, a trip south in the winter does not mean 18 holes of golf followed by dinner in the Bamboo Bar.

The professor of botany and plant pathology has just returned after 40 days on Kerguelen Island, located in the southern Indian Ocean about 2,500 miles from either Africa or Australia.

It was called "Desolation Island" by its French discoverer, Yves Joseph de Kerguelen - Tremarec, who sought a wealthy civilization. But to Imshaug, the island is a rich botanical resource with a colorful history that can be traced from its present inhabitants: A strange collection of cats, rabbits, birds, sheep, reindeer, seals and about 100 Frenchmen who man a weather station.

The National Science Foundation supported Imshaug's small group and handled the diplomatic complexities involved when foreigners want to work on a French island. With Imshaug were two graduate students and two professors, one an American, the other Australian.

Imshaug will spend the next year analyzing some 3,500 plant specimens scheduled to arrive here soon, attached to a ton of rocks.

\* \* \*

KERGUELEN IS ACTUALLY an archipelago made up on one large island and several smaller ones, with a total size about the same as Rhode Island. Most of Imshaug's specimens were collected on week-long expeditions to surrounding islands, during which the dining fare was C-rations.

His special interest is lichens, and these as well as other lower plant groups are more prominent in the Southern Hemisphere than in the Northern. But the study of plant life in the Southern Hemisphere has been neglected, Imshaug says.

"The flora of Kerguelen has not been

studied with 20th - century techniques," he notes. "Some 19th - century botanists described the flora, but without benefit of sophisticated microscopes, chemical technology, computers or knowledge of evolutionary theory."

Imshaug expects that his work will support the idea of continental drift, and he also sees a possible medical use for his research. Lichens are already used in drugs for veterinary medicine and may have potential use in human antibiotics.

\* \* \*

IMSHAUG SAYS that Kerguelen is an excellent place to study the interaction of plants and animals because there are relatively few species of each. But man has profoundly altered life on the remote island.

In the 19th century it was a major fur seal hunting ground and a port for whaling vessels, many of them from New England. The seals were nearly killed off, but rabbits and sheep, introduced by sailors as a meat source, have thrived.

"Anywhere you look, you can see dozens of rabbits at a time," Imshaug says.

The rabbits have nearly destroyed one of the island's rarest plants, Kerguelen cabbage. It was first discovered by Capt. James Cook and was commonly eaten by sailors to help prevent scurvy.

Few rabbits have been killed for their meat, Imshaug says, because they taste too gamey. The French inhabitants raise sheep as well as reindeer, which they introduced in 1954.

Thousands of cats roam Kerguelen, he reports, and they upset the population of birds who nest on the ground of the treeless island. Their ancestors apparently escaped from ships. Imshaug says that the rare game hunter on Kerguelen receives a bottle of

pastis from the French steward as bounty for every 10 cat tails delivered.

\* \* \*

IMSHAUG BEGAN HIS botanical exploring in high school, going from his New York City home to Palisades Park after school. He spent his early summers in the parks of "all the Western states."

The recent expedition is his fifth to the Southern Hemisphere since 1965. He has worked on Campbell Island near New Zealand and in the Falkland Islands off the east coast of South America. In all, he has gathered more than 30,000 plant specimens and is

gathering his findings for the government's Antarctic Research Series.

It is getting harder to hitch rides to isolated places, Imshaug notes. Air cargo planes are replacing ice breakers as carriers of provisions to camps in Antarctica, and satellites are replacing some of the remote ground weather stations. But there is a growing number of oceanography ships like the one that took him to Kerguelen.

Next year Imshaug hopes to go to Staten Island — not the one south of Manhattan; the one near Cape Horn.

— KENT MIDDLETON



Henry Imshaug and a royal albatross: Highlight from an earlier expedition to Campbell Island.

## Rejecting students not the answer

This is the second in a two - part series dealing with the report issued last fall by the Carnegie Commission on Higher Education. The analysis of the report is by Robert H. Davis, assistant provost and director of the Educational Development Program. The questions were asked by Barbara McIntosh, assistant editor in the news bureau.

The Carnegie report says that 47 of every 100 students who enter college never graduate. What is the ratio at MSU? Would it be fair to say that these 47 should never have entered college?

About 50 percent of the students entering Michigan State graduate after four years. Perhaps 70 to 75 percent of students who enroll here eventually earn a degree, either at MSU or elsewhere. It would not be fair to say that 47 out of 100 reported by the commission should never have entered college.

Several years ago the MSU Learning Service conducted a study of dropouts (Self - Reported Problems and Adjustments to College, June, 1969, by Benjamin Beit - Hallahmi). Financial worries and family problems were especially prominent in relation to dropping out. Obviously, students leave college for many reasons totally unrelated to academic performance . . .

The commission seems to imply that many problems (including the financial problems of higher education) can be solved by having colleges and universities reject larger numbers of students who in their confusion about goals and opportunities today opt for higher education, and by shoving those college students who have difficulty deciding who they are or what they want to be out the back door — into a society, I might add, which may not have prepared a place for them.

The commission suggests several new options which should be available to high school graduates, i.e., persons who learn outside the normal academic channels should receive higher education credit. What is your reaction to this?

. . . It is my impression that some officials in Washington have been too busy beating on colleges and universities to examine objectively the scope of the problem. After all, there are over 5 million students enrolled full time in higher education. However one calculates it, state - supported institutions are a bargain for the individual and particularly for the society.

At Michigan State we are helping 40,000 people to become useful citizens . . . We are feeding and housing half of them. We are providing meaningful work for many of them and the opportunity for educational and psychological growth for all of them. We are helping to prepare them to operate the most complex technological society the world has ever known. Assuming the total cost to society and the individual is about \$4,000 to \$5,000 a year, including board and

room, is that really too high? It costs about \$10,000 a year to maintain an infantryman!

The commission feels that if its proposals are adopted, the result will be savings of many billions of dollars over the next decade by cutting university operating expenditures and construction. I'm not so sure. I do not believe we can build and operate the social mechanisms needed to deal with the problems I've mentioned without spending large sums of money, perhaps more than would be saved by revising the way we operate our universities.

The Carnegie Commission says, "We need more paths and more rates of progress to individual self - fulfillment and service to society." How do you see new paths developing at MSU? And what do you predict will be the most significant changes in the next decade, in general and specifically at MSU?

There is no way to predict precisely what the future will bring, but I hope it will be in the direction of building a University without walls. Of course, we do not actually have walls surrounding Michigan State, but there are subtle and invisible barriers that restrict the free flow of people and ideas. In the past, it was most efficient and economical to bring students to the University because there was no practical way of bringing the University to them. But the emergence of modern methods of telecommunication is changing this.

. . . I would like to see us develop a plan that explores the possibilities for exploiting cable networks, the computer, television and other technological means to move the University as a process out to the people. But beyond this, I hope that we could develop closer relationships with community colleges and high schools, utilizing their facilities and perhaps even their faculties to integrate programs and serve the people.

I hope that in the future we will focus more on the University as a process rather than on its bricks, mortar and land, that we will begin to specify our goals as clearly as we have specified means in the past, and that we will certify student competencies regardless of how they are acquired or where or at what age.

Finally, I hope that we will be using a much wider range of teaching methods a decade hence. In particular, I would like to see us require students to assume greater responsibility for their own learning. We have become far too dependent on the lecture method.

The other day I participated in a discussion in which it was suggested that some of our difficult instructional and curricular problems might be partially solved if more large lecture halls were available to departments. Providing more large lecture halls to meet our curricular needs is analogous to building more super highways to solve mass transit problems; there are better answers available in both cases, but they cannot be implemented without stressing the present system. Stress and change go hand in hand, and this University is under great stress.



## Lecture-Concert schedule released

A Russian Folk festival, outstanding symphony orchestras, and top soloists, are highlights of the coming 1971-72 season for the Lecture-Concert Series.

Kenneth Beachler, associate director of the series, stressed the emphasis on accomplished, young performers in both series.

"There are a number of first

appearances on the Series as well as three significant repeats," he said.

The Chicago Symphony, conducted by Daniel Barenboim, will be heard Feb. 28 under Series "B." His wife, cellist Jacqueline Du Pre, will be soloist. Sunday, Feb. 27, Barenboim, a pianist, Miss Du Pre and violinist Pinchas Zukerman will perform together as a

trio.

The Alvin Ailey American Dance Theatre will return to MSU Jan. 19 under Series "A." They appeared at MSU in 1970.

Series "A" and "B" will open Oct. 24 and 25, respectively, with the Saar Chamber Orchestra from Saarbrücken, Germany. The Series "B" performance will feature violinist James Buswell as soloist.

On Feb. 4, Series "A" will present the Osipov Balalaika Orchestra of Moscow in a gala Russian Folk festival. The company of 71 will feature dancers and singing stars from the Bolshoi Opera.

Series "B" will close April 17 with "An Entertainment for Elizabeth," the New York Pro Musica's Renaissance spectacle with 27 costumed singers, instrumentalists and dancers.

The complete schedules are as follows:

Series A: Oct. 24, Saar Chamber Orchestra; Oct. 29, Garrick Ohlsson, pianist; Nov. 2, Gershon Kingsley's First Moog Quartet; Nov. 29, Alexis Weissenberg, pianist; Jan. 19, Alvin

Ailey American Dance Theatre; Feb. 4, Osipov Balalaika Orchestra of Moscow; Feb. 27, Barenboim — Du Pre — Zukerman Trio; March 7, Vienna Symphony Orchestra.

Series B: Oct. 25, Saar Chamber Orchestra; Nov. 1, Sierra Leone National Dance Troupe; Nov. 18, Budapest Symphony Orchestra; Jan. 20, Yehudi Menuhin, violinist; Feb. 21, Martina Arroyo, soprano; Feb. 28, Chicago Symphony Orchestra; March 8, Andre Watts, pianist; April 17, "An Entertainment for Elizabeth."

May 20 is the last day for current patrons to renew the same seats and series.

May 24 and 25 are reserved for season ticket holders wishing to change series or location. May 26 and 27, are reserved for MSU faculty, staff, grad students and part-time students who are new patrons to order season tickets.

Ticket sales will be open for all new patrons May 28.

Patrons can use their Michigan BankAmericard or Master Charge to purchase tickets at the MSU Union Ticket Office.

## Campus plantings: Maintaining an arboretum-park setting

In the early 1850s, three miles east of Michigan's capitol building, two spots were cleared in a 677-acre forest, and what is now MSU began.

The woodsmen with foresight to leave trees standing in those clearings formed the precedent which has helped develop the MSU campus into the arboretum park it is today.

Beginning with the first tree and shrub planting in 1857, the number of varieties on campus has increased to 5,500 in a deliberate attempt to try to grow every plant that could survive in Michigan.

Thousands of representative trees and shrubs are labeled, says Milton Baron, director of campus park and planning "so the plants may be for education as well as a joy to the eye."

\* \* \*

WHAT IS THE procedure for campus plantings?

According to Baron, plantings are decided at the same time that plans are made for new buildings or complexes by the Site Planning Unit. The aim, in a site analysis, is to maintain the same density and space throughout campus.

In the nurseries, new plants are being developed and tested for their hardiness in Michigan weather. Seed exchanges are made with other countries in order to test as many plants possible that are foreign to Michigan soil. Plants that succeed in the nurseries are tried on campus.

Each plant location is recorded, and according to Baron, the records are now partially computerized.

The actual planting of most trees and shrubs is done by 80 to 100 members of the grounds maintenance crews. The horticulture department plants and maintains the flower beds.

\* \* \*

THE PLANTINGS on campus are divided for educational purposes in four

major groups, and are labeled by group in the central campus:

\* Systematic, or family groups that illustrate botanical relationships.

\* Economic, or selected groupings have direct use to man.

\* Ecological, or components of plant communities representative to Michigan.

\* Landscape, or plants valued for their ornamental qualities.

The Division of Campus Park and Planning is responsible for development of the master plan for the development of the East Lansing property of the University, to plan and coordinate construction of site work, and to maintain the campus park grounds including Beal Botanical Garden, the athletic grounds, housing areas, and golf courses.

It also develops, and maintains the Hidden Lake Gardens at Tipton, and is consultant to the Kellogg Biological Station and farm properties at Hickory Corners. (A look at Hidden Lake Gardens will be presented in next week's News-Bulletin.)

—Patricia Grauer

## Fighting an 'invisible pollutant'

Noise — the "invisible pollutant" — deserves concern equal to that for the other kinds of pollution threatening the environment, contends MSU's chairman of audiology and speech sciences.

Speaking this week to East Lansing's Kiwanis Club, Herbert J. Oyer said: "Noise cannot only damage hearing and cause hearing loss, but evidence shows that it can have deleterious effects on mental as well as motor performance in work situations."

He suggested a "revitalized commitment" by citizens who should be aware of employment needs and social programs for the hearing handicapped, provide help for elderly handicapped and provide early identification of the hearing impaired child.

And he urged formation of a committee to study noise pollution in East Lansing. He said that traffic noise on Grand River Avenue sometimes reaches 90 decibels (normal conversation is in the 65 to 70 decibel range).

## Visiting scholar

Visiting scholar Loren Fessler, sponsored by the American Universities Field Staff program, is discussing "China and Things Chinese" in a series of lectures here through May 12. He has written extensively about China, his interest since 1945 when he worked with the Chinese Nationalists. His campus coordinator is Grafton Trout, 355-6639.

## Curriculum changes approved for Justin Morrill College

The Academic Council has approved a reduction in credit requirements for four areas in Justin Morrill College, effective beginning this fall.

Credits required in arts and humanities, social science, and natural science will be reduced from 20 to 15; in inquiry and expression, the credit number will be reduced from 12 to eight on a provisional basis for students entering JMC before fall term of 1973. The number of disciplines required in arts and humanities and in social science will be three out of the respective five and six which are available.

Other changes in the JMC curriculum include removal of the senior seminar requirement on a trial basis for students graduating before or during the summer of 1973, and the specification that 20 credits of JMC courses be included in the student's electives.

Barbara Ward, assistant professor of fine arts in JMC, said that the changes are "really not that extensive. They are primarily a redistribution of requirements rather than a complete change in curriculum requirements."

There is a possibility, however, that Justin Morrill will undergo a complete overhauling in the future by remaking the whole concept of the college.

But those future plans are "a different level of change in the college not to be compared to the routine changes in curriculum — this is something totally separate," said D. Gordon Rohman, dean of Justin Morrill.

The Council also approved establishment of 60 new courses in 11 colleges.

—REGINA SHERARD

## Faculty Club changes name; now it's the University Club

Members of the MSU Faculty Club decided in a meeting last week to rename themselves the "University Club."

"We feel the new name more adequately reflects the true nature of the organization," said Gale E. Mikles, president of the club and professor of health, physical education and recreation.

The membership also ratified a change that will extend voting privileges to all members — active, emeritus and associate. Associate membership is limited to 100 persons, and is for those not officially employed by the University. Most members are faculty and administrative-professional employees.

Mikles also said that there has been discussion of a possible second membership class that would make financial allowances for graduate assistants and lower-ranking A-Ps who would like to join the club.

The club requires a \$225 deposit, and the average member spends about \$30

each month: For dues — \$17.50 — and for \$12.50 minimum of food and beverage charges.

\* \* \*

THE CLUB'S GRILL has a new name — The Shibui Room.

The new name was judged the best submitted in a recent contest that attracted about 60 entries. According to club officials who conducted the contest, shibui is a Japanese word meaning "a blending of colors, texture and fabrics to create something beautiful." To help decorate the room, Hideya Kumata, professor of communication, donated some Japanese wood block prints and the person who submitted the winning name — and who asked to remain anonymous — won two free dinners in the room. Other entries included "The Snack Pit," "The Faculty Room" and "The Spartan Room."

Officers of the club have also announced that dining facilities are now open for Monday luncheon, from 11:30 a.m. to 2 p.m. The club had previously not served lunch on Monday.

## Bins ready for old glass

If you don't know what to do with that glass you've been saving for recycling, you can dispose of it now in bins on the campus.

The unsupervised bins, open around the clock, are located on parking lot "L," one-half block west of Harrison and Kalamazoo streets in East Lansing.

The program will operate on an experimental basis to determine whether Lansing area residents will voluntarily grade and dispose of glass properly. More than 150,000 pounds of glass have been collected daily and transported to Owens-Illinois, a bottle producing company in Charlotte.

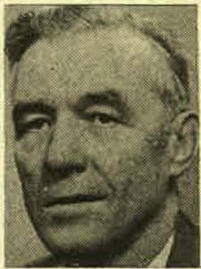
Glass must be clean, sorted by color, and free of metal labels and rings from twist-off caps. It is not necessary that paper labels be removed because they are easily destroyed in the melting process.



# Forty-one faculty retirees to be cited



Lyman Bratzler



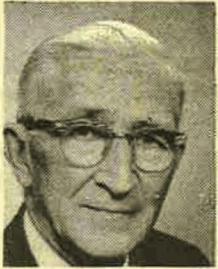
Carter Harrison



Jewell Jensen



Lawrence Johnson



Harold Kohls



Andrew Olson



Ina Redman



Annette Schaeffer



Margaret Suydam

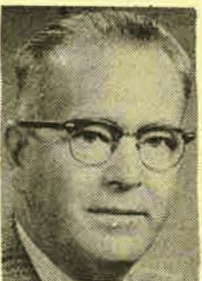


Karl Wright

Photos were unavailable for the following retirees: Lawrence Baril, Laurence Cooke, Bernice Dillon, Frieda Hinrichs, Gladys Knight, Clara Laidlaw, Nora Landmark, Joseph Mickaitis and Martha White.

## COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

Lyman J. Bratzler, professor of food science and human nutrition, and of animal husbandry, 1946-1972 (one-year consultantship); Carter M. Harrison, professor of crop and soil sciences, 1936-1972 (one-year consultantship); Jewell M. Jensen, associate professor of food science and nutrition, 1935-1972 (one-year consultantship); Lawrence A. Johnson, associate professor of dairy, 1945-1972; Gladys E. Knight, associate professor, extension service and institutional administration, 1947-1970; Harold L. Kohls, assistant professor of crop and soil sciences, 1929-1972 (one-year consultantship); Andrew L. Olson, 4-H youth agent, extension service, 1941-1970; Ina Redman, home economist, extension service, 1947-1971; Annette Schaeffer, home economist, extension service, 1950-1970; Margaret Jane Suydam, home economist, extension service, 1964-1971; Karl T. Wright, professor of agricultural economics, 1929-1972 (one-year consultantship).



Erling Brauner



C. Howard Church



Elwood Lawrence



A.J.M. Smith

## COLLEGE OF ARTS AND LETTERS

Erling B. Brauner, professor and chairman of art, 1935-1972 (one-year terminal leave); C. Howard Church, professor of art, 1945-1972 (one-year consultantship); Clara M. Laidlaw, associate professor of English, 1946-1972 (one-year consultantship); Elwood Parsons Lawrence, professor of English, 1946-1972 (one-year consultantship); Arthur J.M. Smith, professor of English and poet in residence, 1936-1972 (one-year consultantship); Martha White, associate professor of music, 1947-1971.



Kenneth Hance



Harold Byram



Russell Daubert



Austen Smith

## COLLEGE OF COMMUNICATION ARTS

Kenneth G. Hance, professor of communication, 1956-1971.

## COLLEGE OF EDUCATION

Harold M. Byram, professor of secondary education and curriculum, 1936-1972 (one-year consultantship); Russell B. Daubert, assistant professor of health, physical education and recreation, 1929-1972 (one-year consultantship).

## COLLEGE OF ENGINEERING

Austen J. Smith, professor of metallurgy, mechanics and materials science, 1948-1972 (one-year consultantship).

## COLLEGE OF HUMAN ECOLOGY

Mary Gephart Donnell, professor of human environment and design, 1945-1970; Jeannette A. Lee, professor and dean of human ecology, 1937-1972 (one-year terminal leave).



Mary G. Donnell



Jeannette Lee



C.D. Hause



Hugh Stelson



George Wallace

## COLLEGE OF NATURAL SCIENCE

Clarence D. Hause, professor of physics, 1932-1971 (one-year consultantship); Joseph M. Mockaitis, assistant professor of botany and plant pathology, 1955-1970; Hugh E. Stelson, professor of mathematics, 1947-1971; George J. Wallace, professor of zoology, 1942-1972 (one-year consultantship).



S. Howard Bartley



James Karslake



Charles Loomis

## COLLEGE OF SOCIAL SCIENCE

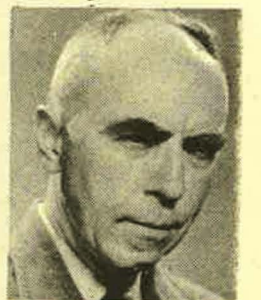
Lawrence J. Baril, assistant professor of criminal justice, 1959-1971; S. Howard Bartley, professor of psychology, 1947-1971; James S. Karslake, professor of psychology, 1948-1971; Charles P. Loomis, professor of sociology, 1944-1971.



J. Oliver Hall



Norman Kinzie



Austin Moore

## UNIVERSITY COLLEGE

Laurence S. Cooke, professor of social science, 1945-1972; J. Oliver Hall, professor of social science, 1945-1972 (one-year consultantship); Norman F. Kinzie, professor of humanities, 1945-1972 (one-year consultantship); Nora Landmark, professor of American Thought and Language, 1946-1972 (one-year consultantship); Austin Leigh Moore, professor of humanities, 1946-1971.



Marvis Richardson



Beatrice Moore



G. Robert Vincent

## COLLEGE OF VETERINARY MEDICINE

Marvis Anne Richardson, associate professor of microbiology and public health, 1950-1972 (one-year consultantship).

## VICE PRESIDENT FOR STUDENT AFFAIRS

Beatrice F. Moore, professor in the Counseling Center, 1946-1972 (one-year consultantship).

## UNIVERSITY LIBRARIES

Bernice W. Dillon, librarian, 1949-1970; Frieda A. Hinrichs, divisional librarian, 1943-1970; G. Robert Vincent, assistant to the director of libraries, 1962-1971.

## EXHIBITIONS

### Kresge Art Center

Main Gallery: Works from the permanent collection.

Entrance and North Gallery Through May 19: Works in various media by undergraduate and M.A. students representing all aspects of the art department program.

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

### Hidden Lake Gardens

Crabapples and other conspicuous spring flowering trees are now in bloom Tipton, Michigan.

### Abrams Planetarium

Student experimental photographic exhibition through May 30. Display hall hours: Monday-Friday, 9-12 and 1-4 p.m. Sunday, 2-5 p.m.

### Beal Garden

The graceful Sargent cherry is in bloom west of the Women's Gym.



## Sigma Xi banquet to feature speech by President Wharton

President Clifton R. Wharton Jr. will be the main speaker for the annual Sigma Xi banquet next Wednesday (May 12) beginning at 6:30 p.m. in Kellogg Center. Wharton's topic is "The Green Revolution."

The science research honorary will also present its 1970-71 graduate student awards. The recipients are: Arlo W. Fast, fisheries and wildlife; Kelly P. Golden, electrical engineering; Kerry F. Harris, entomology; Roger C. Haut, metallurgy, mechanics and materials science; Kuew Hsiung Lu, physiology; David K. Michale, physiology; Patricia L. Orr, geology; Deanne D. Proctor, astronomy; Joerg Schoenherr,

horticulture; and Ralph E. Taggart, botany.

The winners were selected by the Sigma Xi chapter on the basis of their research, publications and other accomplishments demonstrating research potential.

## New radio service set

A new 90-minute series of the National Public Radio network — "All Things Considered . . ." — began this week on WKAR-AM and FM. It is aired weekdays from 5 to 6:30 p.m.

The series will provide news summaries and short radio documentaries, plus an examination of the top three or four news stories of the day. In addition, about a third of the daily material will originate from some of the 90 NPR affiliates in 36 states. Host for the new program is Robert Conley, former NBC correspondent, and once with the National Geographic and the New York Times.

## Visiting scholar

The former president of the American Psychological Association who is now vice chairman of the National Academy of Education is at MSU today under the auspices of the Educational Psychology Visiting Scholars Program.

Lee J. Cronbach, professor of educational psychology at Stanford University, will participate in two graduate seminars today. Registration is limited, and persons interested should contact Mrs. Vogel, 455 Erickson, at 355-9568.

## New appeal procedure . . .

(Concluded from page 1)

He then moved that "each shall be given, upon request, a one-year extension of his contract" to permit a reconsideration of reappointment under new procedures. The new procedures, which would allow giving reasons, have been approved by the Trustees and by the Academic Council.

In later discussion at the Trustee meeting, the names of Murray and Miss Van Tassell were specifically mentioned.

Richard Seltin, acting chairman of natural science, said that these two are the only two nonreappointed faculty who requested reasons in writing. A third nonreappointed member of the department said he requested reasons verbally from department chairman Emanuel Hackel, but was told that deliberations were confidential. He did not appeal the decision, he said, "because I saw no hope of getting through."

Reconsideration of renewal for those natural science faculty who are still here in the fall will be "from scratch," Seltin said, including a review of the faculty, and a new vote, which would require a 60 percent majority for reappointment. If the decision is still not to reappoint, reasons will be given, he said, and the faculty members can immediately appeal.

Although the ad hoc committee which will reconsider is the same group which originally considered the four cases, the composition of the group has changed, Seltin said, by the addition of 10 or 11 tenured faculty members in the last two years, and the departure of three members of the original group.

The department faculty's action in approving these procedures are provisional, he said, because there is still some question as to what the Trustees want the department to do. A letter is being directed to the Trustees, Seltin said, regarding this question.

The department faculty was to have met yesterday afternoon to further discuss the issue. There is still some question Seltin said, about what kinds of reasons are legitimate and how much documentation is needed. He said he suspected that a subcommittee of the faculty will meet with the University attorney to discuss these questions.

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MISS VAN TASSELL has been requesting a reconsideration for more than a year. She said the department faculty never saw her records, which are normally used in consideration of reappointment, because a student had accidentally taken the file before the deliberations.

She also questioned the original consideration, calling it a "hasty decision," because it took place only about one year after she and Murray had begun teaching here. The consideration took place one year earlier than normal because department chairman Hackel was to be away on sabbatical this year.

And Miss Van Tassell questioned the appeal procedures. The department bylaws allow an appeal to the department faculty affairs committee, but that committee consists of three tenured faculty members who, because they are tenured, are also members of the ad hoc committee which made the original decision not to reappoint.

## Faculty group voices protest at no-work, no-pay memo

About 40 faculty members met Tuesday night in the Union lounge to discuss actions to be taken to protest the no work-no pay directive issued by Provost John Cantlon last week.

The no work-no pay resolution had been approved by the Academic Council last fall and by the Board of Trustees.

Most of the faculty members at the Tuesday meeting said they would write individual letters to the provost reporting their own violation of the policy — either by participating in yesterday's moratorium, reporting previous consulting trips, or giving notice of future absences from class.

Several also signed a letter composed by Norman Pollack, professor of history, which said, in part: "We, the undersigned, reject the provost's directive on maintaining business as usual, as discriminatory, intended to intimidate dissenting faculty, and perverse of a free intellectual climate on which learning thrives."

"By the directive's underlying assumptions, one best serves the University by meeting classes at a stipulated time and place, in a rigid contractual framework, where moral sensibilities have no place, evidences of intellectual growth are immaterial, and deviations that imply criticism of such standardized procedures are regarded as a threat to the society and the University."

"Timidity, fear and vindictiveness are not the signs of intelligent leadership. The University is not a factory to be administered in subservience of the State, nor is the faculty the transmission belt of authority, abdicating its traditional role of encouraging critical awareness."

Proxy appeals were made to the department and to the dean, Miss Van Tassell said, by some of her colleagues. She said she did not appeal to Dean Edward Carlin because he had told her in private conversation that there was nothing he could do.

The bylaws also provide for an appeal to the entire department faculty, but Miss Van Tassell said the body declined to hear the appeal.

She appealed to the University Faculty Tenure Committee on procedural grounds, but that committee saw no procedural violations.

Miss Van Tassell, however, questioned the provision, as stated in the faculty handbook that "procedures shall also exist by which the faculty member may confer with this sub-group before a decision is made in his case."

Both she and Murray said they were asked if they would like to confer with the ad hoc committee before the committee had met and before their cases were actually being considered. Both said they declined because they thought reappointment was automatic and because they thought their records were sufficient.

James Butcher, assistant dean of natural science, who was chairman of the tenure subcommittee which originally drew up the statement on nontenured faculty (now in the faculty handbook), said the original intent of that provision was to allow faculty members to know what the decision was before it would be announced or before it would go on to the next level. An appeal could then be made before the decision went on to the next level, he said.

— BEVERLY TWITCHELL

"Our purpose is to demand that the conditions of academic freedom be established on substantive and procedural lines that insure the application of universalistic principles . . ."

"While the directive stands, claims both of University neutrality and academic freedom itself are misleading."

"We think it (the directive) should either be rescinded or enforced. Otherwise, it becomes merely an instrument of selective terror, giving credence to the view that the University hides behind the fabric of law to pursue a lawless course . . ."

"The provost must face the dilemma of his own creation: Either convert threats into concrete action, and risk the prospect of a reversal in the courts, or else convene the appropriate bodies to have the directive nullified."

"We shall not be intimidated; failure on the provost's part to pursue one or the other of these courses encourages administrative irresponsibility, promotes disrespect for the law and furnishes grounds for concerned faculty to initiate such legal actions as will compel a determination of the issue."

The group discussed the provost's directive and the protest against it on three levels: An immediate protest against it; long-range implications of the directive; and the issues in terms of the moratorium and anti-war feelings.

On the immediate level, the directive was viewed by some as capricious and discriminatory, and as Pollack said, "We can't let any group of dissenting faculty be picked off by capricious whim. An injury to one is an injury to all."

On the long-range, Pollack said that "the directive presents for us one of the first cracks in an authoritarian facade, a vulnerable spot in what appears to be an oppressive apparatus."

Pollack, who chaired the meeting, said that the group's numbers were not important, as long as it was cohesive and kept track of actions taken against individual faculty members.

He said that nothing could be expected from the faculty as a whole and that the issue should be taken to the courts. "I'd rather take on the faculty," he said, "than expect some widespread conversion."

As a group of about 20 faculty gathered in front of the Administration Building Wednesday to present the statement to the provost, the building was evacuated by a bomb threat.

The group then presented the statement to the provost on the steps of the building, with a copy to President Wharton. Other faculty members presented their own letters. Neither Cantlon nor Wharton had any comment.

## Phi Kappa Phi dinner tonight

Five faculty will become members of Phi Kappa Phi, national scholastic honorary, at tonight's annual banquet and initiation.

The new faculty members are: David K. Heenan, professor of education and associate director of the Institute for International Studies in Education; Stanley C. Hollander, professor of marketing and transportation administration; Thomas Jenkins, associate professor of anatomy; James C. Pickering, associate professor and associate chairman of English; and H. Allen Tucker, associate professor of dairy and physiology.



# Bulletins

**STEERING COMMITTEE** The Steering Committee of the Faculty will meet at 4 p.m. Monday, May 10, in 443A Hannah Administration Bldg. to set the agenda for the Academic Senate meeting of May 19.

**POETRY READING** A. J. M. Smith, poet in residence of the English department, author and editor, will give a reading of his poetry at 8 p.m. Wednesday, May 12, in the Gold Room of the Union. The public is invited.

**MEN'S GOLF** The deadline for individual entries for golf through the men's intramural sports and recreation services is noon Wednesday, May 19. For more information, call 5-5250.

**STUDIES GROUP MEETS** The Tropical Studies group will meet at noon in Parlor C of the Crossroads Cafeteria for lunch. A lecture will follow in Room 106, International Programs. Associate Dean James Butcher, College of Natural Science, will speak on "Central American Environmental Concerns."

**JAMAICA-BOUND CLUB** The Ski Club is sponsoring a trip to Aruba, Curacao and Montego Bay in Jamaica between spring and summer terms. The trip is open to all alumni, faculty, staff, students and their immediate families. A 60% discount is available for children under 12. Price includes gratuities, room taxes, transfers, golf fees, etc. For more information, call John at 351-8647.

**MSU MUSIC FEATURED** The musical work "Peter Homan's Dream," written by John Jennings and H. Owen Reed, professor of music, will be performed by the Okemos High School Theater group and the Okemos Orchestra May 13, 14 and 15. The piece was formerly called "Michigan Dream," written for MSU's centennial celebration in 1955. Tickets for the performance are \$1.50, available at the Okemos High School or the music department.

**PAC BOXOFFICE OPEN** The boxoffice for the Performing Arts Company's Theatre Festival, three plays in repertory, will be open weekdays 12:30-5 p.m. in Fairchild. Telephone reservations will also be accepted during that time at 5-0148. All tickets, \$2 each, are reserved and group rates are available. Tickets will also be available today through May 8 for the matinee of "The Pied Piper of Hamelin" to be presented at 1 and 3 p.m. Saturday.

**THEATRE TRIP PLANNED** The Union Board will sponsor a theatre trip to Grand Rapids to see the musical "Jesus Christ Superstar." Tickets, \$6.50, include bus transportation and are on sale at the Union Board Travel Office. Buses will leave the Union Abbott entrance at 7 p.m. Wednesday, May 12.

**COMPUTER LAB COURSES** A 3-week short course on the 6500 SCOPE operating system will be offered concurrent with the last three weeks of the FORTRAN short course beginning Tuesday, May 11, at 4:10 p.m. in 313 Computer Center. For more information, call 3-1801.

**POTTERY SALE** Art students and members of the Potter's Guild will hold an exhibit and sale of ceramic pottery 8 a.m.-5 p.m. at the Union on May 7 and 8. About 50 local potters will have casseroles, bowls, cookie jars, mugs, teapots, bird houses and many other items for sale.

**BRITAIN/U.S. POLICE** Michael Banton, social anthropologist from the University of Bristol, England, will present two seminars during May under the auspices of the Center on Police and Community Relations of the School of Criminal Justice. Banton will deliver a lecture on "Changing Attitudes Toward Authority in Britain and the U.S." at 3 p.m. Wednesday, May 12, in 104B Wells Hall. He will discuss "Police-Citizen Relations in Britain and the U.S." at 7:30 p.m. Thursday, May 20, in 111 Olds Hall. Commentator for each seminar will be Chief Superintendent Steven O'Brien, director of training for New Scotland Yard. Open to the public.

## SEMINARS concluded from page 8

Recreation resource carrying capacity and its relevance in Scotland. Joy Tivy, U. of Glasgow, Scotland, and Research Fellow, Cornell U., 11:30 a.m., 338 Natural Resources Bldg. (Park & Recreation Resources)

Application of concentrated pesticides. H. S. Potter, 4:10 p.m., 168 Plant Biology Bldg. (Plant Pathology).

Reports from the Federation Meeting held in Chicago on April 13-16 on recent advances in shock and anesthesia. Donald C. Sawyer, 7:45 a.m., S123 Veterinary Clinic. (Small Animal Surgery & Medicine).

### THURSDAY, MAY 13, 1971

Institutional changes in agri-business and their relevance to public policy. A. G. Hoffman, Former Vice President, Kraft Foods, 3:30 p.m., Parlor C, Union Bldg. (Agricultural Economics).

A dilute alloy problem or down a garden path? Carl Foiles, 4:10 p.m. 221 Physics (Astronomy).

**SPRING FLEA MARKET** Entries for the Spring Flea Market are now being accepted by the Union Board office. Any student, faculty or staff member (or spouses) may enter an art or craft project, individually or for an organization. Registration fee is \$3.

**NOBEL WINNER SPEAKS** All faculty and students are invited to a public lecture by Nobel Peace Prize winner, Norman Borlaug, during the Distinguished Lectures in Agriculture and Natural Resources. Borlaug will speak on "Green Revolution—Its Genesis, Impact, Dangers and Hopes," at 8 p.m. Tuesday, May 11, in the University Auditorium.

**VOLUNTEERS MEET** Volunteers will have the opportunity to meet with Ted Brooks, associate ombudsman, to discuss volunteerism and the university, at 3:30 p.m. Tuesday, May 11, in 27 Student Services.

**LECTURE TODAY** The Russian and East European Studies Program, in cooperation with the history department, will sponsor a lecture by Sune Akerman on "Swedish Migration to the United States since 1860" at 4 p.m. Thursday, May 6, in parlor A of the Union.

**ETHNIC RECORDS** Scholars and librarians knowledgeable in publications concerning Polish, Italian and Mexican-American ethnic groups are needed to help draw up a list of titles for the Ethnic Records Microfilm Project. Nominees can be submitted to John J. Appel, professor in American Thought and Language and James Madison College, 271 Bessey Hall or 356 N. Case Hall.

**ANNUAL LECTURE** The 12th annual Centennial Review Lecture will be given at 6 p.m. Thursday, May 13, in the basement ballroom of the Faculty Club. Paul A. Varg of history will speak on "The Crisis in Sino-American Relations, January, 1944." Faculty and students are invited.

**AAUW BOOK SALE** The American Association of University Women (AAUW) is again collecting unwanted books for its annual sale to be held in the Meridian Mall, October 14-16. Both hard cover and paperback books are needed, as well as sheet music, records and magazines of lasting value. Proceeds from this sale provide local and national scholarships. Several scholarships have been awarded to married student wives to complete their work at MSU. For further information call Mrs. Robert Wenner, 337-2293, or Mrs. Richard Arentz, 351-9459.

## INFORMAL NOTICES

**RETIREEES CLUB** The Retirees Club will meet at 2:15 p.m. Tuesday, May 11, in the Club Parlors of the Union for the last meeting of the academic year. Maynard Miller will give a talk on "The Way of the Explorer," with Alaska as an illustrative base of operations. All members are urged to attend in order to participate in the annual election of officers.

**KNITTING GROUP** The Faculty Folk Knitting Group will meet at 9:30 a.m. Wednesday, May 12, at the home of Mrs. Ginnie Vincent, 2928 Collins Road, East Lansing, 337-9215.

**CREATIVE WRITERS** The Faculty Folk Creative Writers will meet at 1:15 p.m. Monday, May 10, at the home of Mrs. Alfred Leigh, 1016 Northlawn, East Lansing. Readers will be Mrs. Leon Weaver and Mrs. Victor Paananen.

**FACULTY FOLK MEET** The Faculty Folk Club will host a "Lunch with Gwen Frostic" (guest day) Friday, May 14, in the Big Ten Room, Kellogg Center, for the last meeting of the year. Mrs. Merle Esmay and Mrs. Harold Scott are cochairmen. Tickets are available from Mrs. Carl Brautigam, Mrs. Robert Ehrlich and Mrs. Harold Lane. Nursery reservations should be made with Mrs. Maurice Vitosh or Mrs. Leroy K. Pickett. Deadline for tickets and nursery reservations is May 10.

The role of genetic polymorphism in parasitic systems. Clayton O. Person, 10:30 a.m., 168 Plant Biology Bldg. (Botany and Plant Pathology). On the evolutionary trail: studies on starfish proteases. G. Varrie Kitto, Clayton Foundation Biochemical Institute, U. of Texas, 4 p.m., 106 Plant Biology (Genetics).

Oceanic granites—Caribbean geology and sea floor spreading. Thomas A. Vogel, 3 p.m., 305 Natural Science Bldg. (Geology)

Realistic and effective interaction in shell-model calculations. P. J. Brussaard, Duke U., 3 p.m., Cyclotron Seminar Room. (Physics).

The probabilities of excessive deviations of Kolmogorov-Smirnov statistics. Gerald Funk, Oklahoma State U., 4:10 p.m., 405A Wells Hall. (Statistics & Probability).

### FRIDAY, MAY 14, 1971

An androgen-inducible rat urinary protein of hepatic origin. Arun K. Roy, Oakland U. 3 p.m., Natural Science Bldg. (Zoology).

*Information on MSU events may be submitted, for possible inclusion in the bulletins, 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.*



## Friday, May 7

- 8 a.m. Golf—Spartan Invitational. Forest Akers Golf Course.  
3 p.m. Tennis—MSU vs. Ohio State. Varsity Courts.  
7:30 p.m. International Film Series—"The Fifth Horseman is Fear" explores the fear a doctor faces when asked to help a wounded member of the underground. Tickets, \$1, available at the door. Auditorium.  
8 p.m. Planetarium Program—"The New World" is an original science fiction drama created especially for presentation at Abrams.  
8:30 p.m. New Players—"One Flew Over the Cuckoo's Nest" uses unusual effects to bring to life a day in a mental institution. Tickets, \$2, available at the Union Ticket Office, Marshall's, State Discount, and Lums. McDonel Kiva.  
10 p.m. New Players (see above). McDonel Kiva.  
10 p.m. Planetarium Program (see above). Abrams

## Saturday, May 8

- 8 a.m. Golf—Spartan Invitational. Forest Akers Golf Course.  
10 a.m. Midwest Collegiate Championships bicycle races. West Circle Drive.  
1 p.m. Performing Arts Company (PAC)—Return performance of "The Pied Piper of Hamelin" will delight young and old. Tickets are \$1, available at the boxoffice at 9 a.m. Fairchild Field.  
2 p.m. Track—MSU vs. Purdue. Ralph Young Field.  
2 p.m. Lacrosse—MSU vs. Notre Dame. Old College Field.  
2:30 p.m. Planetarium Program (see Fri.) Abrams.  
3 p.m. PAC (see above). Fairchild.  
3 p.m. Tennis—MSU vs. Indiana. Varsity Courts.  
7 p.m. New Players (see Fri.) McDonel Kiva.  
8 p.m. Planetarium Program (see Fri.) Abrams.  
8:15 p.m. Concert—Percussion Ensemble will perform. Music Auditorium.  
10 p.m. Planetarium Program (see Fri.) Abrams.  
10 p.m. New Players (see Fri.) McDonel Kiva.

## Sunday, May 9

- 4 p.m. Planetarium Program (see Fri.) Abrams.  
4 p.m. Spring Concert—The Women's Glee Club, under the direction of Ethel Armeling, present their annual concert. No admission charge. Music Auditorium.  
5:30 p.m. Outdoor Concert—The Symphonic Band will perform on the lawn west of the Day Care Center in Spartan Village. The 100-piece band will play several marches and highlights from "West Side Story" and "Fiorello."  
7:30 p.m. New Players (see Fri.) McDonel Kiva.  
8:15 p.m. Graduate Recital—Pianist Leon Gregorian will perform. Music Auditorium.

## Monday, May 10

- 4 p.m. Steering Committee meeting. 443A Hannah Admin. Bldg.  
8:15 p.m. Graduate Recital—Pianist Penelope Hendel will perform. Music Auditorium.

## Tuesday, May 11

- noon Faculty Club Luncheon—Guest speaker will be Rev. Richard Jackson.  
8:15 p.m. Concert—The New Musical Art Ensemble will premiere a work by Jere Hutcheson, assistant professor of music.

## Wednesday, May 12

- 8:15 p.m. Graduate Recital—Tenor Clayton Hochhalter will perform. Music Auditorium.

## Thursday, May 13

- 7:30 p.m. International Film Series—"Funny Girl," starring Barbra Streisand, is the musical drama of the late Fanny Brice. Admission is \$1, available at the door. Auditorium.  
8:15 p.m. Spring Concert—Phi Mu Alpha, music fraternity, will perform. Music Auditorium.  
8:30 p.m. New Players (see Fri.) Wonders Kiva.

## Friday, May 14

- 2 p.m. Baseball—MSU vs. Wisconsin. John Kobs Field.  
7:30 p.m. International Film Series (see Thurs.) Auditorium.  
8 p.m. Planetarium Program (see previous Fri.)  
8:15 p.m. Concert—University Choral will perform. Music Auditorium.  
8:30 p.m. New Players (see previous Fri.) Wonders Kiva.

## Saturday, May 15

- 1 p.m. Baseball—MSU vs. Northwestern. John Kobs Field.  
2 p.m. Track—MSU vs. Indiana. Ralph Young Field.  
2 p.m. Football—Green and White Game. Spartan Stadium.  
2 p.m. Lacrosse—MSU vs. Chicago Lacrosse Club. Old College Field.  
2:30 p.m. Planetarium Program (see Fri.) Abrams.  
7 p.m. New Players (see Fri.) Wonders Kiva.  
8 p.m. Planetarium Program (see Fri.) Abrams.  
10 p.m. New Players (see Fri.) Wonders Kiva.  
10 p.m. Planetarium Program (see Fri.) Abrams.

## SEMINARS

### MONDAY, MAY 10, 1971

- Involvement of ethylene and plant growth and development., **David Dilley**, 4:10 p.m., 106 Plant Biology (AEC Plant Research Lab).  
Mechanization, labor-use and productivity in Indian Agriculture. **S. S. Johl**, head of economics and sociology, Punjab Agric. U., Ludhiana, India, 1:30 p.m., 16 Ag Hall. (Agricultural Economics)  
Gene-for-gene relationships in parasitic systems. **Clayton O. Person**, 10:30 a.m., 168 Plant Biology Bldg. (Botany and Plant Pathology)  
The distribution of electrons in small organic molecules. **John A. Pople**, Carnegie-Mellon U., 4 p.m., 138 Chemistry Bldg. (Chemistry).  
Food Science Forum. **Georg Borgstrom**, 8 a.m., 103 Food Science Bldg. (Food Science and Human Nutrition)  
Metabolic interactions between carbohydrates and volatile fatty acids. **A. L. Black**, chairman of physiological sciences, U. of Calif., Davis, 12:30 p.m., 126 Anthony Hall. (Lge. Animal Surgery & Med., Husbandry, Dairy, Institute of Nutrition).  
The role of amino acids in milk synthesis and their rate and extent of oxidation. **A. L. Black**, chairman of physiological sciences, U. of Calif., Davis, 3 p.m., 103 Anthony Hall. (Lge. Animal Surgery & Med., Husbandry, Dairy, Institute of Nutrition).  
Small angle scattering of pions from nuclei. **G. Phillips**, Rice U., 4:10 p.m. 118 Physics-Astronomy Bldg. (Physics).  
The effects of tetrodotoxin (tarichatoxin) on innervated and denervated vascular beds. **Thomas D. Burns**, 4 p.m., 216 Giltner Hall. (Physiology).

### TUESDAY, MAY 11, 1971

- A systematic study of the nonadditivity of bond energies. **John A. Pople**, Carnegie-Mellon U., 4 p.m., 138 Chemistry Bldg. (Chemistry).  
Demonstration of an inexpensive graphical terminal for teaching of the APL programming language. **Geoffrey Gates**, 4 p.m., 106 Holmes Hall (Computer Center).  
A rationale for bovine ketosis and its treatment. **A. L. Black**, chairman of physiological sciences, U. of Calif., Davis, 12:15 p.m., 213 Vet Clinic. (Lge. Animal Surgery & Med., Animal Husbandry, Dairy, Institute of Nutrition).

- Inductants and switching properties of oxidized vanadium foils. **P. David Fisher**, 4:10 p.m., 312 Engineering Bldg. (Met., Mechanics & Mat. Science).  
Properties of the antibody active site. **Edward W. Voss**, U. of Illinois, 4:10 p.m., 146 Giltner Hall. (Microbiology and Public Health).  
Problems involved in the use of fossil plants in tertiary paleoclimatic investigations. **Erling Dorf**, Princeton U., 12 noon, 168 Plant Biology Bldg. (Organismic Botany Group).  
Alopecia in the pregnant guinea pigs. **Arnold Pals**, 4:10 p.m., 346 Giltner Hall. (Pathology).  
The effect of furosemide on renal blood and lymph flow. **Nick Stowe**, 4 p.m., 334 Giltner Hall. (Pharmacology).  
Some properties of the empirical density function. **P. Revesz**, Hungarian Academy of Sci., Budapest, Hungary & Indiana U., 4:10 p.m., 405A Wells Hall. (Statistics & Probability).  
Transcription of repetitive and nonrepetitive DNA sequences in oogenesis. **Eric Davidson**, Calif. Inst. of Technology, 4 p.m., 304 Natural Science Bldg. (Zoology)

### WEDNESDAY, MAY 12, 1971

- Genetic studies of *Ustilago hordei*. **Clayton O. Person**, 10:30 a.m., 168 Plant Biology Bldg. (Botany and Plant Pathology).  
Structures and stabilities of hydrocarbons and carbonium ions. **John A. Pople**, Carnegie-Mellon U., 3 p.m., 138 Chemistry Bldg. (Chemistry).  
Nutritional status: a geographical approach. **Barbara Deskins**, 11:30 a.m., 102 Human Ecology Bldg. (Food Science & Human Nutrition).  
Muscular dystrophy and creative metabolism. **Robert Shields**, 4:10 p.m., 131 Anthony Hall. (Institute of Nutrition).  
Membranes of the endoplasmic reticulum, mitochondria and chloroplasts. **R. Ronzio, L. Bieber, H. T. Tien**, 8 p.m., 101 Biochemistry Bldg. (Membranes Research).  
Methodological issues in evolutionary theory—a review. **John Moore**, 3 p.m., 322 N. Kedzie. (Natural Science).