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 nonreappointed 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 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 Tassel, 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 Bertzam G. Murray has accepted a position with Rutgers University. Reconsideration of their nonreappointment.

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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."

Employees' group to meet; election of officers slated

Rollin V. Dasen, current president and recording supervisor of 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.

Dansen said that next week's meeting is open to all clerical-technicals, although only association members will be able to vote.
Science notes
Moral issues face scientists

By PHILLIP E. MILLER
New Bureau

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

Searce statement? Perhaps, but such statements are on the increase. This one was recently made in Washington by Leon R. Kass, Executive Director 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 must decide whether 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 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, however, poses serious ethical problems," he said.

What he didn't guess was at the expense of expert, work or time required to solve certain technical problems. "It's clear now that 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 what would you do with the scientists who foresee 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. But it's only preparation for what will come. What he says Kerne, chairman of fisheries and wildlife.

"It must retain that 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. Adding 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 Kerne, chairman of fisheries and wildlife.

He and scientists from the University of Washington Institute of Water Research are comparing data from three Michigan streams in varying degrees of pollution to find factors which are either responsible or nonresponsible.

The mobile lab is a trailer that automatically and continuously measures the amount of dissolved oxygen in the water, the water temperature, the acidity and the extent of expense, work or time required to solve certain technical problems. "It's clear now that 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 what would you do with the scientists who foresee the atomic bomb."

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 interest of mankind," said Fairweather in a recent discussion of a book he is completing. "Once a new scientific discovery is 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, and Fairweather.

"For humanitarian reasons, therefore, the scientist must now turn his attention to changing his society in beneficial directions through the use of scientific means to create an acceptance and appropriate use of his innovations."

Fairweather agrees that this thinking often puts scientists in an impossible dilemma. Often a discoverer cannot accurately predict the most important of future applications of the discovery, much less the better of all possible applications. And the scientist could all the world's computers, technologists, politicians and dreamers. On the other hand, possible applications and relatively rapid payoffs are sometimes quickly seen by many.

BARNETT ROSENBERG, an MSU biophysicist, believes that society carries the moral burden to decide which discoveries, applications and basic research to support.

"Scientists provide the tools," Rosenberg said at a recent MSU seminar on the future of science. "We provide the means to move in the directions chosen. I am not a technocrat. Our job is not to make social decisions, but to provide means."

In being testimony to these words, Rosenberg and his team have pursued implementations of their remarkable discovery that has been called "the most important invention since fire," said Iselin in a recent discussion of a book he is completing. "Once a new scientific discovery is 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."

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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 "Deolation Island" by its French discoverer, Yves Joseph de Kerguelen - Tremarec, who sought a wealthy civilization. But to Imshaug, the island was a rich botanical resource, with a colorful history that can be traced from its present inhabitants: a strange family of cats, penguins, sheep, mindeers, seals and about 100 Frenchmen who run a weather station.

The commission, 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 among 3,500 plant specimens scheduled to arrive here soon, attached to a ton of rocks.

KERGULEN IS ACTUALLY an archipelago made up on one large island: relation opportunities today opt for higher p.roblem. After all, there are over 5 million students enrolled full time in higher for the individual and particularly for the society.

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?

It is not uncommon for 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 Beil - Hallahan). 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 Carnegie report says that many problems (including the financial problems of higher education) can be solved by having colleges and universities reject large numbers of students who in their confusion about goals and opportunities today opt for higher education, and by showing those college students who have difficulties 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?

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Lecture-Concert schedule released

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

Kenneth Bealder, associate director of the series, explained that 15 concerts are planned, and the precedent which has helped develop the MSU campus into an arboretum park is also today.

Beginning with the first tree and shrub planting in 1857, the number of varieties on campus has increased from 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 planning. "So the plants may be for education as well as a joy to the eye."

WHAT IS THE procedure for campus planting?

According to Baron, plants are decided at the same time that plans are made for new buildings or complexes by the State 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 known to be possible on campus. 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 crew. 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 which 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. The plan includes 20 years of construction of site work, and to maintain the campus park system, including Real Botanical Gardens, the athletic grounds, housing areas, and golf courses.

It also develops, and maintains the Hidden Lake Gardens at Tipton, and is responsible for 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 Graser

Fighting an "invisible pollutant"

Noise — the "invisible pollutant" — is just as real to the human ear as 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 can damage hearing beyond the point of recovery, 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 Feisler, 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, 35546639.

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 Saarbrucken, Germany. The Series "B" performance will feature violinist James Buswell as soloist.

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

Series "B" will close April 17 with an "Entertainment for Elisabeth," the New York Pro Musica's Renaissance music. It will feature dancers and singers, instrumentalists and dancers.

The complete schedules are as follows:

Series A: Oct. 24, Saar Chamber Orchestra; Oct. 29, Garrick Ohlsson, prodigy; Nov. 27, King King's First Moog Quartet; Nov. 29, Alexis Weissenberg, pianist; Jan. 19, Alvin Alley American Dance Theatre; Feb. 4, Osypow Balthalica Orchestra of Moscow; Feb. 27, Saar Chamber Orchestra; March 8, Yehudi Menuhin, violinist; Feb. 28, Martina Arroyo, soprano; Feb. 28, Chicago Symphony Orchestra; March 8, Andre Watts, pianist; April 7, "An Entertainment for Elisabeth."

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

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 patrons May 28.

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

Curriculum change 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 a modification that 30 credits of JMC courses be included in the student's electives.

Each month: For dues — $12.50 and for $12.50 minimum of food and beverage charges.

Barbara Ward, assistant professor of fine arts in JMC, said that the changes were not nearly 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 overhaul in the future by reworking 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 changes in curriculum, this is something totally separate," said D. Gordon Rohan, dean of Justin Morrill.

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

- REGINA SHERARD

Faculty Club change 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. Mikels, president of the club and professor of music, physical education and recreation.

The membership also ratified a change that will extend voting privileges to all members of the club, effective immediately. 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.

Mikels also said that there has been discussion of a possible second category of membership to allow participation in financial allowances for graduate students and also to provide evening A-Ps who would like to join club.

The club requires $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 Shibus 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, shibus is a Japanese word meaning "a blending of colors, texture and fabrics to create something beautiful." The room, Hideya Kumata, professor of communication, donated some Japanese black and white fabrics 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 - tea Room" and "The Spartan Room."

Officers of the club have also announced that special facilities are now open for Monday lunch, from 11:30 a.m. to 2 p.m. The club had previously not served lunch on Monday.
Forty-one faculty retirees to be cited

Lyman Braitler  Carter Harrison  Jewell Jensen  Lawrence Johnson  Harold Kohls  Andrew Olson  Photos were unavailable for the following retirees: Lawrence Ball, Lawrence Cooke, Berrence Dillon, Frieda Hinshicho, Gladys Knight, Clara Laidlaw, Nora Landmark, Joseph Moolkaitis and Martha White.

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

COLLEGE OF ARTS AND LETTERS

COLLEGE OF COMMUNICATION ARTS

COLLEGE OF EDUCATION

COLLEGE OF ENGINEERING
Auntie J. Smith, professor of metallurgy, mechanics and materials science, 1948-1972 (one-year consultantship).

COLLEGE OF HUMAN ECOLoGY

COLLEGE OF SOCIAL SCIENCE

COLLEGE OF NATURAL SCIENCE

COLLEGE OF VETERINARY MEDICINE
Marvis Aune 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 COLLEGE

UNIVERSITY LIBRARIES

EXHIBITIONS
Kreege 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) at 7:30 in the Union Center. Wharton's topic is "The Green Revolution."

The research honor society will also present its 1970-71 graduate student awards. The recipients are: Arlo W. Fahl, fisheries and wildlife; Kelly F. Golden, electrical engineering; W. Harris, entomology; Roger C. Hunt, metallurgy, mechanics and materials sciences; and David K. Michale, physiology; Patricia L. Orr, geology; Deanne D. Pistor, astronomy; Joerg Schoenherr, veterinary medicine; 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 Siegel, 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 at ASU, he will give the annual lectures of the Educational Psychology Visiting Scholars Program.

Faculty Tenure Committee on Academic Council agenda
The Academic Council, meeting 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 Caution nor Wharton had any comment.

Phi Kappa Phi dinner tonight
Five faculty will become members of Phi Kappa Phi, national scholastic honor society, tonight's annual banquet and initiation.

The new faculty members are: David K. Pollack, professor of English and assistant director of the Institute for International Studies in Education; Glenn J. Schellenberg, professor of marketing and transportation administration; Thomas Jenkins, associate professor of journalism; C. Pickering, assistant professor of English; and H. Al good, instructor of dairy and physiotherapy.

"Our purpose is to demand that the conditions of academic freedom be established on all college campuses and that procedural lines that assure the application of universalistic principles ..." AFB

"While the directive stands, claims both of University neutrality and academic freedom itself is misleading. We think it (the directive) should either be rescinded or enforced. We want the U to demonstrate by 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 having to choose between threats into concrete action, and risk the prospect of a reversal in the courts; or else continue 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 concern that to initiate such legal actions as will compel a determination of the issue..."

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

The new faculty members are: David K. Pollack, professor of English and assistant director of the Institute for International Studies in Education; Glenn J. Schellenberg, professor of marketing and transportation administration; Thomas Jenkins, associate professor of journalism; C. Pickering, assistant professor of English; and H. Al good, instructor of dairy and physiotherapy.

"Our purpose is to demand that the conditions of academic freedom be established on all college campuses and that procedural lines that assure the application of universalistic principles ..." AFB

"While the directive stands, claims both of University neutrality and academic freedom itself is misleading. We think it (the directive) should either be rescinded or enforced. We want the U to demonstrate by 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 having to choose between threats into concrete action, and risk the prospect of a reversal in the courts; or else continue 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 concern that to initiate such legal actions as will compel a determination of the issue..."

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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 5-3250.

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 Antigua, Curacao and Montego Bay in Jamaica between spring and summer term. The trip is open to all alumni, faculty, staff, students and their immediate families. A 40% discount is available for children under 12. Price includes gratuities, room taxes, transfers, golf fees, etc. For more information, call John at 351-6447.

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 formally called "Michigan Chairs," 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 is open weekdays 8 a.m. to 5 p.m. in their box office in repertory, will also be available 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 ceramics, bowls, cookie jars, mugs, teapots, bird houses and many other items for sale.

BRITAIN/U.S. POLICE Michael Banton, social anthropologist from the Sociology of Bristol, England, will present two seminars during May under the auspices of the Center on Police 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 Trier, 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., 108 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 chute alloy problem on a garden path? Carl Folie, 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, individual 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 2:30 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 Beaury 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 Wener, 373-2292, or Mrs. Richard Arnette, 351-9499.

INFORMAL NOTICES RETIRES CLUB The Retirees Club will meet at 2:15 p.m. Tuesday, May 11, in the Club Parlor 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 Paanenen.

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 Eunam and Mrs. Harold Scott are cochairs. Tickets are available from Mrs. Carl Brautgang, Mrs. Robert Ehrlich and Mrs. Harold Lane. Nursery reservations should be made with Mrs. Maurice Vitosh or Mrs. Lenoy K. Pickett. Deadline for tickets and nursery reservations is May 10.

The role of genetic polymorphism in parasitic systems. Clayton U. T. P. PaF, in the Distinguished Lectures in Agriculture and Natural Resources. 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. Thursday, May 11, in the University Auditorium.

Information on MSU events may be submitted, for possible inclusion in the bulletin, to Sue Smith, Sect. of Information Services, 109 Agriculture Hall, (319) 253-6819. 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.
SEMINARS

MONDAY, MAY 10, 1971

Involvement of ethylene and plant growth and development. David Dibley, 4:10 p.m., 106 Plant Biology (AEC Plant Research Lab).

Mechanization, labor-use and productivity in Indian Agriculture. S. S. Jodh, 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, 3:30 p.m., 334 Giltner Hall. (Physics). 


Properties of the antibody active site. Edward W. Von, U. of Illinois, 4:10 p.m., 146 Gillner Hall. (Microbiology and Public Health).

Problems involved in the use of fungal plants in tertiary paleoecological investigations. Erling Dorf, Princeton U., 3:30 p.m., 146 Gillner Hall. (Botany and Plant Pathology).

In the pregnant guinea pigs. Arnold Pals, 4:10 p.m., 146 Gillner Hall. (Zoology).

The effect of furosemide on renal blood and lymph flow. Nick Stowe, 4:10 p.m., 146 Gillner Hall. (Pharmacology).


Transcription of repetitive and nonrepetitive DNA sequences in oogenesis. Eric Davidson, Calif. Inst. of Technology, 4:30 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).


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., 146 Gillner Hall. (Physiology).

Membranes of the endoplasmic reticulum, mitochondria and chloroplasts. R. Ronzio, L. Bier, H. T. Tien, 8 a.m., 101 Biochemistry Bldg. (Membranes Research).

Methodological issues in evolutionary theory—a review. John Moore, 3 p.m., 322 N. Kedzie. (Natural Science).