

MSU News-Bulletin

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Board OKs 2 faculty extensions

The Board of Trustees voted last week to extend for one year the appointments of Eileen Van Tassell and Bertram Murray, both assistant professors of natural science who were notified of nonreappointment last year and who took their case to the Michigan Employment Relations Commission (MERC), where a decision is pending.

(Trustees Patricia Carrigan, Warren Huff, Blanche Martin, Don Stevens and Clair White voted in favor of the motion, with Frank Hartman, Frank Merriman and Ken Thompson opposed.)

White suggested the extension because of what he said was his concern over "due process" for "nonreappointed faculty members. The suggestion followed a report from Provost John Cantlon regarding the proposed change in tenure regulations (News - Bulletin, April 8), which is expected to be discussed by the Academic Council and Senate in May.

The extension for Miss Van Tassell and Murray would bring their cases under the new tenure rules, if the rules are approved. The proposed rules would allow reasons to be given upon request in cases of nonrenewal.

Miss Van Tassell and Murray charged the University last year with unfair labor practices, claiming that they were discriminated against "in regard to hire terms and conditions of employment." The University denied all charges and during the course of the hearing claimed that procedures used in the committee which determined reappointment are privileged, and in accord with established policy and practice.

Miss Van Tassell and Murray made separate requests to the University Faculty Tenure Committee, asking for a review of the process by which they were denied reappointment. Separate

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Disposing of solid waste: Compressing trash in the Union Building (left) and depositing — rather than burning — trash in married housing.



Photos by Dick Wesley

Waste disposal: Doing it better

During this Earth Week, a year after the first Earth Day, attempts continue to enhance the University's environment.

One of the major steps taken here is formation of the MSU Waste Control Authority, an eight - member advisory group charged with coordinating the campus waste disposal job and helping to solve any problems that job creates.

In a report last month to the Board of Trustees, the Waste Control Authority recommended that a full - time waste control director be hired and that he be made responsible to the executive vice president (Jack Breslin). The director would coordinate all campus efforts and would serve as liaison with local, state and federal regulatory agencies.

Emery G. Foster, chairman of the authority committee and assistant vice president for business operations, said that the "whole matter of waste control

should be integrated into the entire University system.

"We feel this program should become an integral part of the University's teaching, research and community involvement, . . . in order that we may make a meaningful contribution not just in this community but throughout the entire state and probably the nation."

* * *

THE AUTHORITY'S REPORT to the board also cites MSU's waste control efforts in nearly a dozen areas, including:

- * The conversion of Power Plant '65 to gas last fall, which eliminated the emission of fly ash from the plant's smokestack. MSU has also requested funds to convert the Shaw Lane Plant from coal to gas, but limited gas reserves are likely to stall any conversion now.

- * An alternate method of waste disposal in married housing areas. Trash and garbage were burned in incinerators,

but residents in some areas now receive plastic bags to deposit their garbage and trash in area containers. This method not only reduces air pollution from burning, but it has helped control the rodent and insect population. All married housing areas are expected to be included in this plan within 18 months.

- * Separate sewers for liquid waste disposal. MSU for many years has had separate sanitation and storm sewers so that pollutants can be diverted to the sanitary sewers for treatment.

- * Trial use of rubbish compactors. These are being used in the Union Building and another academic building to reduce the number of trips required by waste disposal trucks.

- * Reducing phosphates in detergents. The MSU laundry does not use detergents with phosphates, and only

(Continued on page 5)

Commission nears completion of its job

The end is in sight.

Eleven months after its first official meeting, the Presidential Commission on Admissions and Student Body Composition moved into the homestretch last week in its deliberations.

A target completion date of May 27 was announced by commission director Ira Polley April 9 in a memo announcing six additional meetings of the full 25-member commission.

Along with new meeting dates, Polley also presented a set of goals or objectives.

According to this work plan, the commission will receive the first draft of the first half of the report on April 21, the second half on May 5, and a final draft of the full report on May 25.

"Some additional time probably will be needed for final editing and

polishing," Polley stated, "but it contemplated that all decisions of the commission can be completed by the end of May."

This report, the end product of one year's work, will contain the commission's recommendations to the President on these seven topics: enrollment mix; research; quality and instructional programs; lifelong learning and continuing education; summer school; minority and disadvantaged students; and planning, priorities, budgeting and management.

How these topics were derived reveals something of the complicated processes of a laybody charged with such a comprehensive undertaking.

* * *

FOLLOWING THE commission's first meeting on June 1, 1970, five subcommittees which seemed to reflect

the five major areas of concern were created.

It has not been easy for the commission members to reach consensus on some of the 120 recommendations submitted by the five subcommittees. Three issues have occupied more time than any others: Size and mix; quality and instructional programs; and the admission of minority and disadvantaged students.

During the deliberations, some recommendations have been completely deleted, others amended, some transformed and several tabled for future discussion.

For example, at a recent meeting, members adopted a recommendation that MSU "take leadership in establishing a consortium consisting of representatives of the three major universities in this state, the appropriate

regional four - year and community colleges, the appropriate public school systems and the affected communities.

"This consortium would design, organize and administer educational programs for the educational disadvantaged with special attention to inner cities, migrant workers, and American Indians."

* * *

AT THE SAME meeting, the commission deleted proposals that MSU create an experimental program to identify high school dropouts who should be encouraged to take a special educational program that will enable them to take and pass the General Educational Development tests.

Arguments stressed the ability of community colleges to do a better job

(Continued on page 5)

In Brief...

LIBRARY SERVICE. As part of its computerized circulation system, the Library produces a weekly list of newly cataloged books in classification number order. A copy of the list or any portion of it is available for 5 cents a page.

To get on the mailing list, persons can call the Library's reference desk, 353-8700. Those on the mailing list will receive copies of the appropriate pages each week, and each month account numbers will be charged and individuals billed for the copying cost. A copy of the list is available at the reference desk.

* * *

STUDENTS SCATTER. Nearly 40 students from James Madison College are getting field experience this spring at points ranging from an adult literacy clinic in San Francisco to the American Civil Liberties Union in Chicago.

The practicum is required for graduation by the College between students' junior and senior years. Allan A. Spitz, director of the program, said it is scheduled between junior and senior years so that students may "secure a large base of the core curriculum before field experience, and then return to school to reintegrate the practical and academic before being thrust into the world."

* * *

AUTOMATED LAB. MSU social science researchers have found that a good way to insure objectivity in the laboratory is to put a computer in charge. So they've devised an automated lab in the Computer Institute for Social Science Research.

In operation since last July, the lab in the Psychology Research Building relies on a Digital Equipment Corporation PDP-8/I "mini - computer" to run experiments involving such areas as game theory, small group interaction and psychophysical conformity.

Gary Mendelsohn, head of the laboratory, says MSU's facility is unique because it is offered as a research service to all social scientists in the University instead of being dominated by a single research unit.

* * *

NEW ORGANIZATION. A new national scholarly organization, The Society for the Study of Midwestern Literature, has been founded with headquarters at 240 Bessey Hall. The organization is designed to encourage and assist the study of Midwestern literature.

Membership dues are \$1. Chairman of the organization committee is David D. Anderson, professor of American Thought and Language.

* * *

AIR POLLUTION COSTS. Air pollution damage to crops and plants is increasing across the nation, says Axel L. Andersen, plant pathologist. "The most recent surveys estimate that air pollution costs the nation more than \$500 million each year in damage to crops, forests and ornamental plants," he points out.

He cites two major ways in which air pollutants injure growing plants. Primary pollutants are directly toxic to plants. Secondary pollutants are formed by photochemical reactions between sunlight and chemical pollutants released into the atmosphere. The results of these reactions are new gaseous chemicals — called photochemical oxidants — that can be highly toxic to man, plants and animals.

Researchers trying to learn more about sickle cell

Black members of the MSU community are urged to come to Olin Health Center and contribute a blood sample to help themselves and their fellow men.

The request comes from a research team headed by Ajovi Scott - Emuakpor, assistant professor of anatomy at MSU. He is trying to help people learn whether they are genetic carriers of sickle cell anemia and how they might be affected by that trait.

The disease, a major health problem among blacks, occurs when a carrier — a person with a certain mutant gene — marries someone with the same mutant gene, and a child is born with two mutant genes.

These children have severe anemia, jaundice, liver disease and heart defects. They suffer extreme pain; many die young.

Sickle cell anemia affects black people almost exclusively, but apparently for geographical rather than racial reasons. The trait evolved in sections of Africa in which it was an asset to be a carrier of the gene because carriers are highly resistant to falciparum malaria, a very severe type of malaria. Because the mutant gene aided survival, it became fairly common.

Unfortunately, many people do not know they are carriers until a child is born with the disease. If the carriers are identified and informed of the risk, they can make informed decisions about family planning and health care, Scott - Emuakpor notes.

ALTHOUGH A NEW treatment for the disease has recently been announced by Robert M. Nalbandian of Grand Rapids, the disease will continue to occur at present rates unless carrier identification and genetic counseling influence family planning.

Also Scott - Emuakpor notes, carriers should be aware that they may sometimes suffer some of the same symptoms but not to the same extent as sickle cell patients, especially if they are in an oxygen - poor situation such as might be encountered during an airplane trip or stressful physical activity.

"Estimates indicate that 10 to 20 per cent of the American Black population are carriers," he notes, "but these are only guesses. We ought to have better data."

At present Scott - Emuakpor is looking only at the MSU Black population in a pilot study supported by the MSU Center for Urban Affairs, but eventually he would like to screen the entire Lansing area.

Persons wishing to have their blood analyzed are encouraged to stop at the Health Center Laboratory Tuesday through Friday between 11:30 a.m. and 2 p.m. and on Saturdays from 9 a.m. to 12 noon.

Working with Scott - Emuakpor are James V. Higgins, associate professor of human development and of zoology; Herman Slatis, professor of zoology, and Astrid Mack and Frankie Brown, Ph.D. candidates in zoology.

Two ex-faculty members die

Word has been received of the recent deaths of two former MSU faculty members.

Pierre Luboshutz, noted concert pianist, died April 17 at his home in Rockport, Maine, and Werner A. Bohnstedt, retired professor of humanities, died April 5 at his home in Fresno, Calif.

Luboshutz and his wife Genia were artists in residence at MSU from 1962 until 1968. Known professionally as

Luboshutz and Nemenoff, they headed the piano department.

Luboshutz was born in Odessa, Russia, and was graduated from the Moscow Conservatory in 1912. He came to the U.S. in 1926. He and Miss Nemenoff were married in 1931 and made their debut in a two - piano concert in 1937 in New York's Town Hall.

WERNER BOHNSTEDT, born in Germany in 1899, joined the MSU faculty in 1946. He became a professor in 1952 and retired in 1965.

He received the doctor of political science degree in 1926 at Germany's University of Kiel. He also taught at Mt. Union College and at the Universidad Nacional de Panama before coming to MSU.

Directory changes

Lundquist, Greta, Williams Hall, 353-9793 (office).

Pettit, Lincoln C., 349-4834 (home).

Shappell, Paula S., Williams Hall, 353-9793 (office).

Ansley, Harriet, 238 N. Creyts Rd., Lansing (home).

Bennett, Hugh F., 8 Natural Science Bldg., 355-4635; Assistant Professor, Geology; 4364 Arbor Dr., Okemos, 349-0245.

Britt, Jack H., 1330 N. Fairview Ave., Lansing, 484-5501 (home).

Chow, Shui - Nee, 217A Wells Hall, 353-4477; Research associate, mathematics, 802 101 Cherry Lane, East Lansing, 355-7856.

Downie, Richard D., 1622 Parkvale Ave., East Lansing, 351-5183 (home).

Dries, Candis Jo, 301 Biochemistry Bldg., 353-6663; Laboratory Technician, Medicine; 220 East Pointe Ln., Apt. E22, East Lansing, 337-2014.

Hill, Stephen J., 307 Physics Astronomy Bldg., 353-8661; Assistant Professor, Astronomy; 2018 Wood St., Lansing, 487-5846.

Hinze, William J., 349-1605 (home).

Kearis, James E., 354 W. Owen Hall, East Lansing, 355-3873 (home).

Klug, Michael J., Kellogg Bio. Sta., 6715117; Assistant Professor, Micro. & Pub. Hlth., 355-6463; 9344 Bunker Hill, Richland, 629-9821.

Miller, Maynard M., 349-1713 (home).

Price, Hugh C., 203 Horticulture Bldg., 353-7156; Assistant Professor, Horticulture; 803 208 Cherry Ln., East Lansing, 355-7895.

Prouty, Chilton E., 349-3545 (home).

Roberts, Judy, 1808 E. Grand River, Okemos (home).

Spooner, Charles M., 111 Natural Science Bldg., 353-9768; Assistant Professor, Geology; 4571 Ottawa Dr., Okemos, 349-4738.

Stern, Edith, 615 W. Owen Hall, East Lansing, 353-3666 (home).

Upchurch, Sam B., 209 Natural Science Bldg., 353-8787; Assistant Professor, Geology; 1143 Marigold, East Lansing, 351-1817.

Walker, Jerry E., 2485 Mt. Hope Rd., Okemos, 349-9457 (home).

Williams, Jeffrey F., 48 Giltner Hall, 355-6512; 15A Veterinary Clinic, 353-9667 (offices).

China notes

"China Science Notes" from the National Academy of Science in Washington, D.C., is now available through University's International Library. The notes are drawn from sources such as China Reconstructionists, Eastern Horizon, Far Eastern Economic Review, Foreign Broadcast Information Service, Free China Review, New China Agency, New York Times, and Peking Review.

Books

DAVID D. ANDERSON, professor of American Thought and Language, is the editor of "Sunshine and Smoke: American Writers and the American Environment," an anthology published by J.B. Lippincott and Co. The work examines American writers of the past three centuries as environmentalists while it explores the historical and literary roots of the ecological crisis.

ALBERT A. BLUM, professor of labor and industrial relations, is senior editor for a Random House book, "White - Collar Workers." It analyzes the trade union movement in the United States and various factors influencing white - collar unionization.

DON E. HAMACHEK, professor of counseling, personnel services and educational psychology, is the author of a two - part guide, "How to Listen to Your Child" and "How to Get Your Child to Listen to You," published by the National Education Association. It suggests ways in which adults can develop the habit of reacting to feelings that children express.

Baseball slate

WKAR - AM is broadcasting MSU's baseball games this spring. The broadcast schedule of remaining Spartan games is:

April 23 — at Detroit, 1 p.m. April 24 — at Eastern Michigan, 3 p.m. April 27 — at Western Michigan, 2:30 p.m. April 30 — at Michigan, 2 p.m. May 1 — Michigan, 1 p.m. May 7 — at Ohio State, 3 p.m. May 8 — at Indiana, 3 p.m. May 11 — at Notre Dame, 1:30 p.m. May 14 — Wisconsin, 2 p.m. May 15 — Northwestern, 3 p.m. May 21 — at Purdue, 2 p.m. May 22 — at Illinois, 3 p.m.

Sigma Xi

The new officers of the MSU chapter of Sigma Xi science society are: President — Walter Mack of microbiology and public health; vice president — H. John Carew, horticulture; secretary — Ronald Nelson, animal husbandry.

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Associate editor: Sue Smith

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Placement Bureau: More than getting jobs

The Placement Bureau is that place in the Student Services Building where students go for job interviews, where companies from around the country come to seek young talents, and from whence the statistics come about how bad the job market is this year. Right?

Yes and no.

Yes, last year nearly 3,000 employer interviewers conducted 33,000 personal interviews (not including part-time and summer job interviews).

But there is more:

* Seven staff members are available for counseling all students on career planning and employer information.

* A special newsletter and office work with "Vocations for Social Change," providing information on jobs with non-traditional employers.

* Faculty are kept informed with Follow-Up Reports which tell them where their graduates found employment, salary statistics, and supply and demand statistics.

* Thousands of business, industry, government, education and military employers seek and receive information and aid through the Placement Bureau.

* Information and advice on student employment is provided to professional groups, including assistance to school boards in selection of superintendents and help in the establishment of placement operations in predominantly black schools throughout the U.S.

All this is in addition to the Placement Bureau's supplying employers with credentials (about 75,000 last year) of graduating students and alumni; listing career opportunities for all majors in a regularly published bulletin; placement of about 1,350 alumni last year, including 83 as school superintendents or principals; and help in placing about 5,000 students in part-time jobs and about 6,000 in summer jobs.

* * *

PLACEMENT BUREAU DIRECTOR Jack Shingleton speaks of relevance and society's needs:

"What our men and women do occupationally is probably the most important medium for their participation in the affairs of mankind in their later years

"Education in the '70s must take a vigorous new approach to its methods and the expected results of the educational process. Educators must be practical and aware of society's needs."

So the placement goal is not to merely help the student find a job — it's put in terms of helping the student make an investment. And there is concern in the bureau for awareness of employment trends to help the student plan his education with an eye toward those societal needs.

As Shingleton says, "the bargaining position of the graduating student has changed dramatically in the past year. He will have to job-hunt more realistically and vigorously than he has in recent years."

The faculty role, Shingleton says, can be aided through the Follow-Up Reports. Seeing where their graduates go, faculty can study and possibly alter curricula to relate to the kinds of jobs the graduates are taking.

With this relevancy as the guiding philosophy, Shingleton and the Placement Bureau have several projects planned for initiation or expansion, including the addition of a woman counselor to work full-time in the placement of women, and an expanded effort on career planning and placement of minority students.

One and one-half full-time staff members currently work with minority students, offering counseling and seminars on career planning, and summer and career employment. More attention and money are needed, Shingleton says, "because we've got further to go." This program is five years old.

"Vocations for Social Change" came about a year ago at the suggestion of the Placement Bureau's student advisory committee (which has existed for 19 years). Letters and calls from universities all over the country have come to Shingleton asking about this program.

At MSU 1,200 copies of a special bulletin on vocations for social change are "snapped up immediately," Shingleton says. The bulletins tell of jobs open in communes, ghettos, free schools, etc.

He says it is a program with "great potential," and he sees it as a response "to a segment of the student body not traditionally seen in the placement function."

"Placement is changing," he says, "and we are trying to respond."

* * *

OTHER PROJECTED PROGRAMS include assistance in planning and placement for marginal students, foreign students, doctoral graduates, and for students who drop out to work before returning to complete their degrees; expansion of the program where graduate schools come to interview just as employers do; more information on graduates in the follow-up reports; complete counseling on the military, including professional draft counseling; and development of career-oriented summer employment.

Also to be expanded is the use of the computer in placing graduates. It has been used to some extent with minority students and in education. Shingleton says that MSU is probably the only U.S. institution that can do this.

MSU has also been invited to study the possibility of establishing an international placement operation.

All these projects, Shingleton notes, are related to social change. And another planned program would help to tie them all together. That project is a course on career planning and curriculum orientation. Outside sources would be used, Shingleton says, "to give real perspective on the whole thing."

But the course is not an end in itself, he says. It is "but a segment of the placement operation and its importance." It is now being reviewed in the provost's office, and may be offered as an interdisciplinary course.

BEVERLY TWITCHELL

Board debates tenure, GM proposals . . .

(Concluded from page 1)

subcommittees of the tenure committee reviewed the procedures and determined that the process was in accordance with the natural science department's bylaws.

Cantlon said after the trustees' meeting that there probably would have been time (without the extension) for the two cases to fall under any new rules, since their termination date was Aug. 31, 1971.

Both Cantlon and University attorney Leland W. Carr Jr. expressed concern at the meeting that White's motion could prejudice the MERC decision, and that, as Carr said, changing rules midway through litigation could appear as "an admission against interest on the part of the University."

Cantlon also said that Board action could "withdraw decision-making power from the Academic Council and the Academic Senate."

After the meeting Cantlon pondered the question of "how do you protect real excellence?" He said he was fundamentally opposed to a "civil service mentality."

"You earn the right to a professorship," he said, "It is not due you."

GM PROPOSALS

A motion from Trustee Huff that the University's prolix General Motors vote

Deadline May 1

The deadline for application for the next group of Presidential Fellows has been moved up to May 1. Deadline for the Sept. 15, 1971 - March 15, 1972 fellowships had been June 1, but the date was changed in order to complete the selections by the end of this term. Fellowships are available to one junior faculty member, one graduate student and one undergraduate.

be referred to the Ann Arbor Trust Company was approved 5-3 (Hartman, Huff, Merriman, Thompson and White in favor; Carrigan, Martin and Stevens opposed).

The trust company, Huff said, is "in a much better position to judge management than we are."

Since the trust company usually votes with management, the University's GM stock will probably be voted against the proposals of Campaign GM II, three involving corporate responsibility and one involving GM operations in South Africa.

STUDENT ADVISERS.

The trustees approved a plan for four student advisers to the trustees (three undergraduates and one graduate student) to meet at least once a term with the Board or a committee of the Board "to discuss potential problems, current issues and future directions." Special meetings could be called at the

discretion of the president or the board.

This was an alternate plan to one supported by a majority of a committee which included Trustees Thompson and Martin, Attorney Carr, the vice president for student affairs, the dean of students, three persons from ASMSU and the president of the Council of Graduate Students.

ASMSU Chairman Hal Buckner called the alternate plan "not even a step sideways" in the move for meaningful student participation in University governance.

OTHER ACTIONS

In other action, the trustees:

* Reversed last month's ruling on coed living options. With no discussion, the trustees voted unanimously in favor of a proposal to allow alternating floors of men and women in residence halls.

* Approved an interim judicial system for graduate students, which will be set up according to the system called for in the document on graduate student rights and responsibilities. That document was approved by the Academic Council and must now be approved by the Academic Senate.

* Approved the amendment to Article 7 of the Academic Freedom Report, which covers amendment procedures of that document.

* Approved 15 appointments, 22 leaves, nine transfers and changes in assignments, 15 resignations and terminations and six retirements. Included was the appointment of Thomas H. Kirschbaum of the University of California at Los Angeles as chairman of the new department of obstetrics, gynecology and reproductive biology.

Travel seminar July 3-27

Encounter in Latin America is the theme of an adult travel-study seminar on developing nations which the University is offering for the second time this summer. This year's Encounter, July 3-27, will go to Ecuador and Colombia, following the route of the original Encounter in 1970.

It is open to educators, social workers, engineers, business and professional people, families and others interested in their neighbors to the south.

Information on Encounter in Latin America, which may be taken with or without credit, is available from the sponsoring office of International Extension, 8 Kellogg Center.



Council rejects Board 'intrusion'

Seven by-law amendments relating to student participation in academic governance will go the Academic Senate May 19.

The amendments, approved by the Academic Council Tuesday, were based on recommendations approved by the Board of Trustees at its March 19 meeting.

But two recommendations from the Trustees were not approved, following strong comments from three Council members regarding what a faculty affairs committee resolution called a "symbolic intrusion, if not a real one, into faculty governance."

The two defeated amendments would have:

*Added to section 2.5.8 of the by-laws (as proposed in the Taylor Report on student participation) the sentence: "In case of dispute concerning the application of this proviso, the final judgment shall rest with the Board of Trustees." (Section 2.5.8 pertains to professional rights and duties of faculty.)

*Added to section 9.2 (on amendment procedures) of the proposed by-laws the sentence: "Any amendment of the by-laws affecting the substance of academic governance shall be referred to the Board of Trustees for its approval."

A third amendment, concerning "final authority" in interpretation of the by-laws, was approved, but only after deletion of the Board's recommended amendment, which stated that "nothing in these by-laws shall

prevent the Board of Trustees from taking prompt action on urgent financial and personnel matters when such action is in the best interests of the University. Such emergency actions do not, however, relieve the Board of its commitment to utilize to the fullest extent possible the advisory judgments provided for in these by-laws."

Sandra Warden, associate professor in Justin Morrill College and chairman of the faculty affairs committee, reported that her committee voted 8-1 urging the Council to reject the three amendments relating to Trustee prerogative in academic governance.

The committee listed three reasons for its opposition: (1) The constitutional authority of the Trustees is recognized daily in practice and in section 1.2.5 of the current by-laws; (2) the proposed changes would nullify some of the responsibility the Trustees have delegated to faculty, and (3) it would be an intrusion into faculty governance.

Frederick Williams, professor of history, followed Mrs. Warden with biting comments on the "violations" the proposed amendments would serve:

"The provision violates the principle of faculty competence and authority, faculty right to deal with matters in which they, and they alone, are competent to decide. This proposal takes the Board by positive declaration into such matters as course content, teaching methods and evaluations of students - matters which the Board has no competence to handle and which

should be left to the faculty.

"This proposal violates the all-important principle of internal control of the University under the president..."

Williams prefaced his remarks by saying he recognized that "the Board has final authority in all University affairs...but that authority is specified in the Michigan Constitution, and it need not be, and in my opinion shouldn't be, specified regarding a particular provision of this kind."

Gordon Guyer, professor of entomology and chairman of the Faculty Steering Committee, supported Williams' comments, adding that he was "horrified and dismayed" at the April Board meeting by the "response and lack of respect for faculty interests on the part of the Board." He later referred specifically to comments by Trustee Clair White in White's discussion of "due process" for nontenured faculty members.

THE SEVEN approved amendments to the Taylor Report were:

*Section 8.1 - assigning responsibility for implementing and financing the provisions of the Taylor Report to the administrative office of an academic unit, and to the provost and vice president for student affairs at the University level.

*Section 4.4.3.08 - providing for female representation within the 10 at-large student seats on the Academic Council.

*Section 4.4.3.08.1 - assigning at least five female seats among those 10 at-large seats. At least six of those 10 seats shall also be reserved for nonwhites.

*Section 4.4.3.08.3 - adding at least two women, one undergraduate and one graduate student, to the now seven-member Student Committee on Nominations.

*Section 4.5.1.1.2 - providing procedures by which a temporary chairman of the Student Committee on Nominations shall be selected. (Later the chairman shall be the student member of the steering committee, who shall be elected from among the student representatives to the Council.)

*Section 4.4.3.08.4 - establishing procedures by which the Student Committee on Nominations is to act.

The University Student Affairs Committee, which prepared the by-law amendments upon the request of the Trustees, proposed originally that the student nominating committee name at least 22 candidates for the 10 at-large positions to be filled, based on the six (nonwhite) and five (female) seats earlier called for. After considerable discussion regarding possible electoral problems and philosophical opposition, the proposal was amended to read:

"The slate prepared by the Student Committee on Nominations shall name at least two candidates for each position to be filled. The Committee is free to set its own rules. It is, however, expressly instructed to insure that candidates for at-large seats designated for nonwhite students be nominated by appropriate nonwhite student groups, in a manner conducive to fair representation from among such groups. In addition, the committee is to entertain nominating petitions from student groups and individuals, and to provide in the ballot for the possibility of write-ins."

*Section 9.1 - regarding final authority in interpreting the by-laws. This section was amended to read: "Within the constraints of the constitutional authority of the Board of Trustees, the Academic Council shall be the final authority with regard to the interpretation of the by-laws."

IN OTHER business, Guyer announced the names of five faculty members who will serve on an ad hoc committee on collective bargaining. The committee was established by a resolution of the Elected Faculty Council April 6.

The members are: Loran L. Bieber, associate professor of biochemistry; Jacqueline Brophy, associate professor of labor and industrial relations; Donald R. Come, professor of social science; Herbert C. Jackson, professor of religion, and William J. Hinze, professor of geology and member of the faculty affairs committee.

Serving MSU

Planetarium: Teaching tool, a center for public service

Now in its eighth year of operation, Abrams Planetarium has been visited by approximately a half million people.

Its sky theater has been used as an observing laboratory, lecture theater, motion picture theater, music arts theater, public school and University classroom, planetarium teaching training center, space simulation chamber, and by some as a slumber chamber.

Most importantly, the facilities serve as a laboratory to supplement University courses. It is available for use by any instructor who may find it useful in teaching.

The dome lends itself to many disciplines. Any study involving the visible sky can be supplemented by the planetarium facilities. It could be used for a course in introductory biology, for example, to demonstrate the importance of solar energy in the biosphere, or show the dependence of life patterns upon changes in the amounts of solar energy available at different latitudes and different seasons.

Faculty members may be interested in using the planetarium. There is no

charge for the facilities used in regular university instruction.

The public programs offered at Abrams have recently been aimed at combining traditional programs with new techniques. Attendance at the programs has increased greatly over the past few months, and the planetarium has added a showing at 10 p.m. Fridays and Saturdays.

The current program is "The New World," a unique science fiction story written and produced by the planetarium staff.

Coming programs include "Stellarphonic Moog" featuring the moog synthesizer from the music department, in concert with artistic dome light accompaniment.

Some facts about the planetarium:

* A star projector, the heart of the planetarium, can project any portion of the sky onto the 50-foot dome which is made of thin, perforated, aluminum sheeting.

* The projector is more than 12 feet high, weighs approximately 1,000 pounds, uses more than 12 miles of wiring and has more than 6,000 electrical connections.

* Educational programs are provided for public elementary through high school children with various programs written for particular age groups.

* Public programs are at 8 and 10 p.m. Fridays; 2:30, 8 and 10 p.m. Saturdays; and 2:30 and 4 p.m. Sundays. Admission is \$1 for adults; 50 cents for children 5-12 years of age. The programs are not recommended for preschoolers.

Withholding exemptions

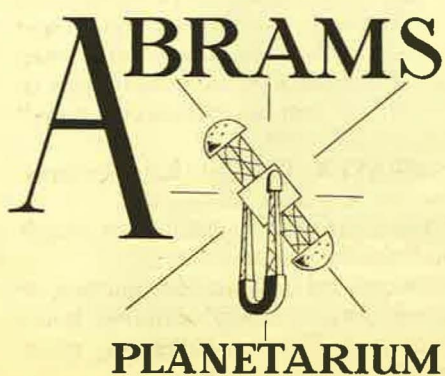
WITHHOLDING EXEMPTION CERTIFICATE Any wages paid after May 1, 1971, to employees of the University who foresee no federal income tax liability, such as students and other part time employees, can be exempt from federal income tax withholding. Under the 1971 rates, a single person who makes less than \$1,700 will owe no tax. This is based on the \$1,050 low-income allowance and a personal exemption of \$650. Married couples filing jointly with income of less than \$2,350 will not owe any federal income tax for 1971.

To take advantage of this withholding break which resulted from the Tax Reform Act of 1969, the student or employee should have a Withholding Exemption Certificate, Form W-4E, on file at the Payroll Division, Office of the Comptroller, 350 Hannah Administration Bldg., stating that he or she had not taxes due for last year (1970) and expects none for the current year (1971).

Any person signing this Withholding Exemption Certificate can rescind it or abrogate it at the Payroll Division, if he or she anticipates later on that yearly earnings will be such as to create a tax liability.

An employee must sign a new Withholding Exemption Certificate each year if he or she wishes to have income taxes withheld for that particular year.

Students paid under the Graduate Assistants Payroll must have the Exemption Certificate on file at the Payroll Division by May 7. Other students must have the Exemption Certificate already filed before the next payroll in order to have income tax deductions reflected on the next check. It is the responsibility of the employee to notify the Payroll Division of his or her status change and to file a new W-4 card to reinstate withholdings of Federal Income Tax. For further information call Systems & Procedures, telephone 355-5026.





Faculty concert Sunday

MSU's Faculty Chamber Ensemble will present a concert at 3 p.m. this Sunday (April 25) in the Kresge Art Center. Members of the ensemble are (from left) Walter Verdehr, David Renner, Lyman Bodman and Louis Potter Jr. They will perform Mozart's "Quartet in G-minor" and Faure's "Quartet in C-minor, Op. 15." The concert is open to the public without charge.

—Photo by Bob Smith

Group to review traffic policies

In response to issues raised recently concerning the All - University Traffic Committee, President Wharton has issued a statement outlining plans for a review of the committee's role. Here is that statement:

"A number of questions have been raised regarding the role and operation of the All - University Traffic Committee (AUTC). These questions have been discussed with concerned individuals including Vice President (Milton B.) Dickerson; Prof. John Baldwin, chairman, AUTC; Richard O. Bernitt, director of public safety; Harold Buckner, chairman of ASMSU; and Diane Rathnow of ASMSU.

"Based upon these discussions, I believe that a review of the role,

functions and procedures of the All - University Traffic Committee would be valuable. Therefore, I am establishing a Special Review Committee with the following composition: Frank Hartman, trustee, chairman; Kenneth W. Thompson, trustee; Mark Rosenhaft, past chairman of AUTC; Adrian Koert, University traffic engineer; Starr Keesler, assistant executive vice president; Harold M. Buckner, chairman, ASMSU; William Greene, chairman, COGS.

"In addition, the regular ex officio members of the AUTC will serve as resource persons for the committee: Richard O. Bernitt, director of public safety; Robert W. Bissell, University motor vehicle supervisor; Louis F. Hekhuis, student affairs; Robert F. Trojanek, campus park and planning; and John L. Lewis, physical plant, plus the new chairman, John Baldwin.

"The terms of reference for the review committee will be:

"1. To review the current policies regarding traffic and driving on campus, as well as related issues such as fines, traffic flows, etc.

"2. To study the adequacy of the existing number of parking spaces, their location, and the criteria for their allocation and use.

"3. To review the organization and procedures currently employed in the allocation and utilization of parking spaces.

"In preparation of this review, the recent recommendation of the AUTC for a professional study of the entire campus transportation problem should be the subject of initial discussion.

"The traffic and parking situation on campus has changed a great deal since this committee was established by the Board of Trustees in July, 1963. The University has grown both in the total number of students, faculty and staff.

Exchange faculty

"The University's Role in Research" is the topic for the final International Exchange Faculty meeting Tuesday (April 27) at 7:30 p.m. in the Centennial Room of Kellogg Center. Milton E. Muelder, vice president for research development and dean of the graduate school, will chair the discussion.

All foreign and Fulbright faculty members and their wives are invited. Persons planning to attend should contact Miller Perry in the International Center.

Commission...

(Concluded from page 1)

and existence of such programs already.

As time ran out at this meeting, commissioners faced an issue that irritated many nerve ends. The recommendation urged that "the Office of the Provost allocate budgets only when each department commits itself to providing the necessary program and service to minority and disadvantaged students.

"Particular emphasis should be placed on ATL, natural science, mathematics and chemistry because these units represent the first hurdles encountered by disadvantaged students."

Action was postponed until yesterday (April 21).

These deliberations, which began on Nov. 13, have seen more than 50 recommendations adopted. By the end of the month, the commission will have acted on at least 70 of the 120 original motions.

On Dec. 4, commissioners were asked to indicate their agreement, disagreement or uncertainty about each of the 120 recommendations. When tabulated, those recommendations about which there was most disagreement, uncertainty or need for discussion were scheduled for early discussion.

In addition, recommendations were grouped into seven topical areas: enrollment mix, research, quality and instructional programs, lifelong learning and continuing education, summer school, minority and disadvantaged students, and planning, priorities, budgeting and management.

— GAIL MORRIS

Given the lapse of time and the changed conditions, the need for a reappraisal of the AUTC and its responsibilities is in order.

"I would hope that the review could be completed by the end of spring term. However, the complexities of the study and the need to provide effective recommendations may require additional time."

Campus waste disposal...

(Concluded from page 1)

nonpolluting detergents are sold to students in dormitories. Dishwashing detergents still present a problem, however, since phosphate substitutes developed so far either are themselves pollutants or don't clean well.

* A task force on recycling. Ways are being studied to economically sort and transport paper, glass and metals for recycling.

* More thorough water testing. The physical plant now does tests at each campus well rather than a single test at

Achievements

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

LULU ALONSO, director of the Instructional Materials Center for Handicapped, was recently appointed a consultant /expert to the U.S. Office of Education, Bureau of Education for the Handicapped, units on the visually handicapped, multihandicapped and interrelated areas.

ARCHIBALD B. SHAW, professor of administration and higher education, has been appointed for a three - year term to the American Association of School Administration's Committee for the Advancement of School Administration. Some of the committee's functions include coordinating a post - graduate program and activities of the National Academy for School Executives.

BOB WINBORN, professor of counseling, personnel services, educational psychology, has been appointed editor of a counseling and guidance monograph series which will focus on improving the skills of counseling practitioners. The series is sponsored by the American Personnel and Guidance Association.

the reservoir. Particular attention is paid to wells near the beef cattle feedlot and the new hazardous chemical waste disposal area south of Jolly Road. (The latter facility handles waste from science facilities that cannot be put into the regular sanitary sewage disposal system.)

* Close cooperation with the Tri - County Regional Planning Commission. MSU's representative on the commission's technical advisory committee is Robert Siefert, University architect.

— GENE RIETFORS

Spraying practices designed to protect environment

A constructive response to increasing concern over environmental pollution will guide MSU's 1971 spray program aimed at preventing Dutch elm disease from killing campus elms valued at more than \$3 million.

This year the elm spray program will be conducted under the supervision of a new University Spray Committee whose duty is to make sure that campus maintenance programs do not harm other valued parts of the environment.

The committee is composed of scientists, ecologists and other experts from the botany, entomology, forestry, zoology, and fisheries and wildlife departments, plus the Division of Campus Park and Planning.

The Dutch elm program is the result of concern that began in the late 1950's before the disease even came to the campus. There has been constant updating of the program to insure control of the disease with minimum harm to the environment.

* * *

"IN VIEW OF THE SERIOUS responsibility not to harm the ecology as a whole, we have taken every

precaution to eliminate any potentially harmful side effects of the Dutch elm disease spray program," says Milton Baron, spray committee chairman and director of campus park and planning.

Without this spray program, and other control practices, the campus could lose all of its 1,700 elm trees by 1980.

According to Baron, all spraying will be done by helicopter shortly after dawn sometime between now and April 30. "This method provides accurate and specific treatment of individual trees, with only one - third the amount of chemical used in spray applications from the ground," he says.

"The pilot will be given a campus map showing each elm tree in color, and spraying will be done only when weather conditions are exactly right to permit the best possible vertical drop."

* * *

SPRAYING IS DONE just after dawn for two reasons.

First, there is a minimum of people and cars on campus.

Second, the high humidity and lack of wind during early morning hours reduces any chance that the spray might drift into non - target areas.

Science notes

Scientists develop a cancer vaccine

By PHILLIP E. MILLER
Science Editor, News Bureau

A team of researchers at the U.S. Department of Agriculture's Regional Poultry Research Laboratory on the MSU campus has developed the first vaccine to work against a naturally-occurring cancer.

The USDA team is led by Ben Burmester, director of the laboratory, and includes research veterinarians H. Graham Purchase and Richard L. Witter, and microbiologist William Okazaki.

Until now, scientists had developed vaccines that were effective against experimentally-induced cancers of animals, but none would combat animal cancers which developed under natural conditions.

The successful vaccine is considered a landmark in the fight against tumors. Of course, many factors, including chemicals and radiation, have also been linked with the onset of tumors. And some scientists believe such cancers are also virus-related even though they are triggered by nonviral influences.

The USDA vaccine prevents Marek's disease, a malignant disease in the lymph system of chickens. It is similar to Hodgkin's disease, a malignant disease of the human lymph system.

The lymph system is that complex of tubes and glands (nodules in chickens) that route and filter the lymph fluid — the major portion of blood — before it enters the blood transport system.

Both the poultry and human diseases involve damage to internal organs such as the liver and spleen. Another result of the diseases is a lethal overabundance of the colorless cells manufactured in the lymph system.

Marek's disease is the major killer disease of chickens, costing U.S. farmers about \$200 million a year. The new vaccine, already patented, manufactured and on the market at about 6 cents "per vaccination," will help stop the disease among breeder and layer chickens.

"If the vaccine price goes down to about 2 cents, then it may also become economical for broilers and fryers," Burmester said.

THE RESEARCH FINDING brings back a controversial question: Can an effective vaccine be found against certain types of human cancer? Various laboratories are already girded for the battle over federal funds for cancer research.

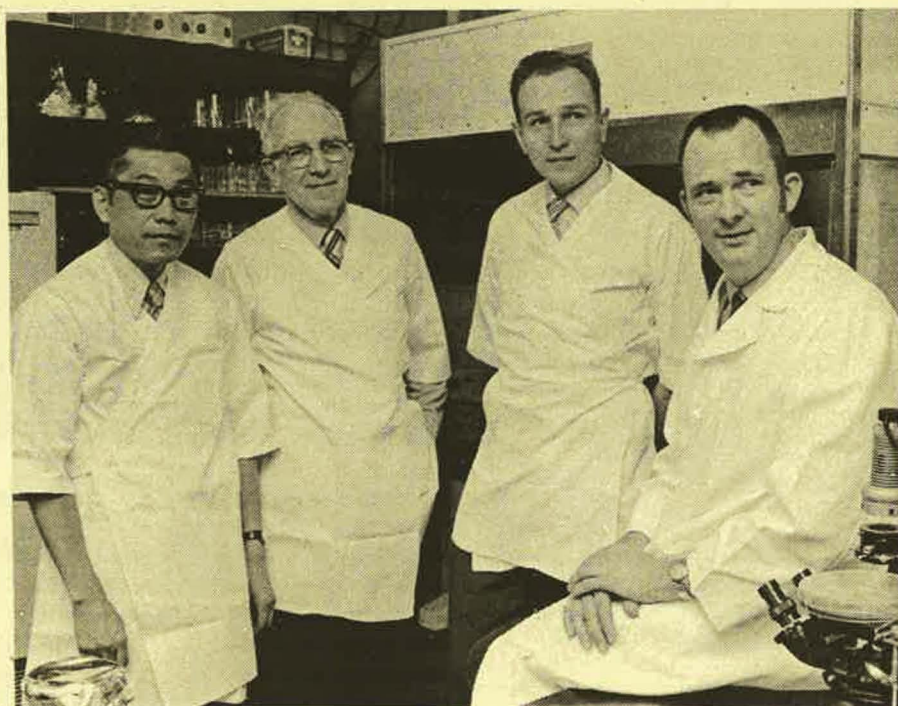
"We are hopeful that in the future a similar vaccine against human tumors may be available," Burmester said. "But we first have to find a virus which causes human cancer. Then a vaccine may be developed."

Burmester explained that Marek's disease is caused by a virus whose physical and chemical characteristics place it in the group known as the herpes viruses.

"All commercial chickens are infected with the virus, and all chicken houses are contaminated with it," he said. "The houses serve as reservoirs for infections of future flocks."

HOW THE VACCINE works is "strictly a mystery," Burmester said. Once vaccinated, a chicken can still be infected by Marek's virus, but it is still protected against tumor growth and clinical signs that would otherwise occur.

For several decades, researchers have been grappling with the problems of Marek's disease and other leukemic diseases among poultry.



The cancer research team (from left): William Okazaki, Ben Burmester, H. Graham Purchase and Richard L. Witter.

— Photo by Dick Wesley

"About six years ago, we saw that Marek's disease was the major culprit," Burmester said. "We found it was caused by a herpes virus, and these viruses have DNA as their genetic components."

In the summer of 1969, a Cornell University scientist reported that feather follicles produce the contagious forms of herpes virus. About the same time, Witter, of the East Lansing group, showed that saliva and droppings carried the disease, apparently from contaminated dander (a form of dandruff) in the chicken houses.

All animals, including humans, are susceptible to many kinds of herpes virus infections, but Marek's disease virus has not been known to infect humans.

Some of the Marek's viruses infect chickens but do not cause the disease. The virus which does not cause the disease can be considered a naturally-occurring vaccine.

Witter isolated such a virus from turkeys and showed that it was related to Marek's disease among chickens, yet did not cause any diseases in chickens or turkeys.

Purchase and Okazaki cultured the virus, ran the necessary tests and showed that the vaccine protects an animal from the Marek's disease-causing virus. They also proved that it was safe, maintained its potency and caused no disease or other adverse side effects.

Mary Sawyer is Lansing's Secretary of the Year

This is a special week for secretaries and an extra special one for (Mrs. A. Robert) Mary Sawyer, administrative secretary to the dean of International Studies and Programs at MSU.

She has been named Secretary of the Year during this National Secretaries Week by the members of the Lansing Tuebor Chapter of the National Secretaries Association (International).

One of two Certified Professional Secretaries (CPS) on campus, Mrs. Sawyer was chosen on the basis of education, experience, professional qualifications, and the recommendation

of her boss.

She was honored during a dinner last night. Her boss, Ralph Smuckler who was named Boss of the Year last December, was the keynote speaker.

The CPS after her name represents years of determination.

The mother of six children and now grandmother of 13, Mrs. Sawyer went to school nights for five years in order to pass the grueling two-day CPS qualifying examination.

In the exam, secretaries are expected to pass six sections on accounting, business law, business administration,

personal adjustment and human relations, communications and decision making and secretarial procedures. Passing the exam is equivalent to 20 credits toward an associate degree at Lansing Community College.

There are only 9 Certified Professional Secretaries in the Lansing chapter of the National Secretaries Association, approximately 270 in Michigan, and about 5,200 nationwide.

She explains, "Professional development is my big hang-up and the CPS designation provides a recognized standard of proficiency in the secretarial profession."

She emphasizes that more girls should be encouraged to regard secretarial work as a career.

A native of the Lansing area, Mrs.

Sawyer has had a long, distinguished career in business and at the University. For more than nine years she was executive secretary and assistant to the chairman in the chemistry department. In October, 1967, she transferred to International Studies and Programs.

She is past president of the Business Women's Club and is now recording secretary in MSU's Administrative Professional Association.

As Secretary of the Year, Mrs. Sawyer will compete with five other secretaries representing other local chapters throughout Michigan in Flint May 21. The winner in this division will move to the 6-state Great Lakes District competition in July.

— BARBARA MCINTOSH



Secretary of the Year Mary Sawyer and her boss, Ralph Smuckler.

— Photo by Dick Wesley

Students spend \$132 million

MSU students this year will spend approximately \$132 million, according to Gordon E. Miracle, professor of advertising.

This figure is in addition to tuition, on-campus room and board and other fees.

Speaking Wednesday before the Downtown Business Division of the Greater Lansing Chamber of Commerce, Miracle said that he bases this estimate on several years of study of the student market.

Accounting for 13 per cent of the population of the Lansing area, MSU

students will spend more than \$10 million on food; \$1 million in liquor and party stores; \$5.5 million in eating and drinking establishments; \$5 million on gasoline and other items from service stations; \$11 million in department stores; and \$4 million in apparel stores.

Miracle pointed out that if Lansing area merchants do a better job of communicating with students through local advertising media, informing them of the advantages of buying in their stores, they will very likely be able to increase their sales to this vast student market.

Bulletins

BOARD OF TRUSTEES The next meeting of the Board of Trustees will be held on Friday, May 21. Items to be included in the agenda must be in the Provost's Office or the Executive Vice President's Office by noon on Monday, May 3. Material received after the deadline will be held for the June meeting of the Trustees.

SOCIAL CHANGE Bernie Offerman, instructor in industrial relations, will be speaking to MSU volunteers on techniques for social change on April 27, 3:30-5 p.m., in 27 Student Services. Open to the public.

CHILDREN NEED YOU! Persons interested in establishing a one-to-one relationship with a disadvantaged child are invited to attend a meeting for MSU Big Brothers and Big Sisters on April 22, 7:30-9:30 p.m., 27 Student Services.

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

PAC BOXOFFICE OPEN The Performing Arts Company boxoffice will be open today and tomorrow 12:30 to 5 p.m. in Fairchild Theatre. PAC is now presenting Orchesis, a modern dance group in interpretive dance. Programs will be given at 8 p.m. Friday, 2 p.m. Saturday and 8 p.m. Sunday.

FARM WORKERS MEET All faculty members below department chairman level interested in supporting the campaign to solidify the posture of the United Farm Workers Organizing Committee, Local 299, as the faculty's bargaining agent will meet Thursday, April 22, at 5 p.m. in 108B Wells Hall. For more information, contact C. P. Larrowe, 5-1864.

SOVIET FILMS SHOWN The Russian and East European Studies Group will present two Soviet films this week on Monday and Tuesday, April 26-27. The first, "End of St. Petersburg," will be shown at 7:30 p.m. Monday in 104B Wells Hall. On Tuesday they will present "Lenin In October" at 7:30 p.m. in 101 N. Kedzie. Admission is free to both.

COMPUTING LAB OPEN The Statistics Computing Lab, 100C Wells Hall, will be open for use by faculty members and students Tuesdays 1-4, and 1-5 the remaining days. Also, the facilities will be open 7-9 p.m. Monday-Thursday. Two electronic calculators with small programming capabilities for repetitive computations are available, as well as the rotary type Monroe Calculator. For more information, call the department.

SUMMER INSURANCE If you will not be working or receiving a regular check from the University this summer and will be returning to work in September, arrangements must be made to keep your insurance coverages in force during the summer months. Please contact the Staff Benefits Division, 344 Hannah Administration Bldg., 3-4434, if you are paid on the hourly or graduate assistant payrolls, no later than April 30, and no later than May 14, if paid on the salary payroll.

SMALL ANIMALS DAY University Farms will again be open for Small Animals Day 9 a.m.-noon, Saturday, May 1. The annual event, featuring newlyborn farm animals, is sponsored by the College of Agriculture and Natural Resources and the Agriculture and Natural Resources Council, a student organization. Information and maps will be available that day at the corner of Farm and Shaw Lanes.

POP ENTERTAINMENT Stevie Wonder, well known black pop artist, will appear Monday, April 26, in the Auditorium as part of ASMSU's Pop Entertainment Series. Tickets for the two shows, at 7 and 9:45 p.m., are \$2.50. Proceeds will go to the Martin Luther King Jr. Scholarship Fund.

CENSUS AVAILABLE The Computer Laboratory now has the 1970 Tapes (First Count Files A and B plus the Bureau of Census MEDLIST on tape). In addition, the Bureau of Census retrieval program DAULIST which can print out any or all of the standard 55 tables from Files A or B is available. A further notice will be published when all the tapes have been copied with instructions on how to access the tapes. Until then, if anyone has an urgent need to use the tapes or desires further information, please contact Applications Programming Group, Anders Johanson, 5-4684.

EXHIBITIONS

Kresge Art Center

Works from the permanent collection. Main Gallery.

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

Abrams Planetarium

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

STEERING COMMITTEE The Steering Committee of the Faculty will meet at 4 p.m. Monday, April 26, in Room 443A Administration Bldg. to set the agenda for the Academic Council meeting of May 4.

AWARDS BANQUET Secretary of State Richard Austin will be the guest speaker Saturday, April 24, at MSU's 16th annual Beta Alpha Psi awards banquet. Along with initiation of 30 new members of the honorary, the annual Beta Alpha Psi scholarship will be presented to MSU's top senior in accounting. Dinner and the awards program begin at 6:45 p.m. back in the Big Ten Room.

EMP. RELATIONS TALK The School of Labor and Industrial Relations and Dept. of Management are jointly sponsoring a talk by George Strauss of the University of California, who will discuss "Organizational Behavior: The Present State of the Field," at 3:30 p.m. April 28 in Room 31 of the Union. His talk will be followed by a question and answer period. Strauss is one of the most prominent scholars in the field of employment relations in America.

LITERATURE DISCUSSED A Conference in Modern Literature will be held April 30 and May 1 in the Kellogg Center Auditorium. Sponsored by Dept. of English, the conference will include lectures by Harold Clurman, John Lahr, Thomas Whitaker and Esther Broner who will discuss contemporary theatre.

COMPUTER COURSES A five-week COBOL short course will be offered by the Computer Lab in Room 318 C.C. every Wednesday evening 7-9 p.m., beginning April 21. The text will be the same as for CPS 306. For further information, call 3-1801.

LECTURESHIP SERIES The Renaud Foundation Lectureship Series, sponsored by the MSU section of the American Chemical Society and the Renaud Foundation, will feature a series of lecture by Prof. Carl Djerassi of Stanford University. Prof. Djerassi, a native of Austria, has been a research chemist at Ciba Pharmaceutical Co., held various positions with the Syntex Corp. and taught at Wayne State University. He will deliver three public lecture: "Applications of Mass Spectroscopy in the Steroid Fields," at 3 p.m. Wednesday, April 28? "New Prospects in Birth Control," at 8 p.m. Wednesday? "Organic Chemical Applications of Magnetic Circular Dichroism," at 3 p.m. Thursday.

YUGOSLAV NOVEL Nikola Kojovic, assistant professor of English literature at the University of Sarajevo, Yugoslavia, will lecture on "Modern Yugoslav Novel," at 2 p.m., Tuesday, April 27, in 716A Wells.

UNION BOARD FILM The Union Board will sponsor a continuous showing of "Gladiators," a first prize winner at the International Film Festival, beginning at 1 p.m. Sunday, April 25, in the Union Ballroom. Admission is \$1.

INFORMAL NOTICES

GOLF GROUP MEETS Faculty Folk Golf Group will have a coffee at the Delta Zeta sorority house, 110 Oakhill Dr., at 9:30 a.m. on April 29. Faculty Folk members are invited to sign up for coffee and/or lessons. For more information, call Leona Webster, 349-4315, or Mary Ries, 337-9421

INT'L INTEREST GROUP The Faculty Folk International Interest Group will meet at 1 p.m. Monday, April 26, at the home of Mrs. Jack Elliott, 637 Sunset Lane, East Lansing. Mrs. Jusum Nair, author and visiting scholar, will be the speaker. All Faculty Folk members are welcome.

KNITTING GROUP The Faculty Folk Knitting Group will meet at 9:30 a.m. Wednesday, April 28, at the home of Mary Gustafson, 2691 Linden, East Lansing, 337-0442.

EXT' WOMEN MEET The Cooperative Extension Women will meet at 1:30 p.m. Friday, April 30, at the home of Mrs. Lowell Treaster, 4594 Comanche Dr., Indian Lakes, Okemos, for bridge or hand sewing.

Beal Garden

The Korean Rhododendron, earliest of its type to bloom, is in flower near the northeast entrance.

Campus Plantings

The Merrill and Anise Magnolias are in full bloom near Cowles House. Hidden Lake Gardens

Early tulips and daffodils are now blooming. Woodlands, water and wildlife are year-round features. Tipton, Mich.

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.

University Calendar

Michigan State University

Calendar of Events

For the week of April 23 - May 1

Friday, April 23, 1971

- 2 p.m. New Players—"Stop the World—I want to Get Off" by Anthony Newley includes 20 musical productions. Tickets, \$2, available at the Union Office or at the door. Union Ballroom.
- 7:30 p.m. New Players (see above) Union Ballroom.
- 8 p.m. Performing Arts Company (PAC)—Orchesis, modern dance group, will be featured in contemporary and interpretive dance. Tickets, \$1, available at the door. Fairchild Theatre.
- 8 p.m. Planetarium Program—"The New World" is an original science fiction drama created especially for presentation at Abrams. Abrams.
- 10 p.m. Planetarium Program (see above) Abrams.
- 10 p.m. New Players (see above) Union Ballroom.

Saturday, April 24, 1971

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

Sunday, April 25, 1971

- 2:30 p.m. Planetarium Program (see Fri.) Abrams.
- 3 p.m. New Players (see Fri.) Union Ballroom.
- 3 p.m. Concert—Faculty ensemble will perform two contrasting piano quartets. Featured will be pianist David Renner, violinist Walter Verdehr, violist Lyman Bodman, and cellist Louis Potter Jr. Open to the public at no charge. Kresge Art Center Gallery.
- 4 p.m. Planetarium Program (see Fri.) Abrams.
- 8:15 p.m. Spring Concert—MSU State Singers, directed by Harold Brown, will feature works from the Renaissance to the present, performed by 60-voice choir and 11-piece brass ensemble. University Methodist Church, E. Lansing.

Monday, April 26, 1971

- 4 p.m. Steering Committee of the Faculty Meeting. 443C Hannah Admin.
- 7 p.m. ASMSU Pop Entertainment—In cooperation with Motown Recording Corp., ASMSU will present Stevie Wonder, former Lansing resident who has had several Gold Records in past years. Tickets, \$2.50, available at the Union Ticket Office, Marshall's and Campbell's. Proceeds will go to Martin Luther King Jr. Scholarship Fund. Auditorium.
- 8:15 p.m. Graduate Recital—Pianist Andrew Froelich will perform. Music Aud.
- 9:45 p.m. ASMSU Pop Entertainment (see above) Auditorium.

Tuesday, April 27, 1971

- Noon Faculty Club Luncheon—Guest speaker will be Mordechai Kreinin, professor of economics, on "A View of the Economy."
- 6:30 p.m. Faculty Women's Assoc. Dinner and Cocktail Reception—Guest speaker will be Patricia Carrigan, member of the Board of Trustees. Faculty Club.

Thursday, April 29, 1971

- 7:30 p.m. International Film Series—"Falstaff" stars Orson Wells as the famous Shakespearean character. Tickets, \$1, available at the door. Auditorium.

Friday, April 30, 1971

- 8 a.m. May Morning Sing—Featuring Tower Guard and Mortar Board students. Beaumont Tower.
- 7:30 p.m. International Film Series (see Thurs.) Auditorium.
- 8 p.m. Planetarium Program (see previous Fri.) Abrams.

Saturday, May 1, 1971

- 9 a.m. Small Animals Day—University farms, featuring newlyborn farm animals, will be open until noon. Maps available that day at corner of Farm and Shaw Lanes.
- 2:30 p.m. Planetarium Program (see Fri.) Abrams.
- 8 p.m. Planetarium Program (see Fri.) Abrams.
- 10 p.m. Planetarium Program (see Fri.) Abrams.

CONFERENCES

- April 25-28 Federal Temple Sisterhood Leadership Conf.
 April 27-28 Spring Mental Health Meeting
 April 30-May 1 Twentieth Century Literature

Students and faculty members are welcome to attend these continuing education programs. Those who are interested should make arrangements in advance with the Office of University Conferences, 5-4590.

SEMINARS

Monday, April 26, 1971

- ROBERT JOHNSON—Organic soils of Michigan. 12:10 p.m., 209 Soil Science Bldg. (Crop & Soil Sciences).
- GEORG BORGSTROM—Food Science Forum. 8 a.m., 103 Food Science. (Food Science & Human Nutrition).
- ROBERT HASELKORN, Biophysics Dept., U. of Chicago—The regulation of protein synthesis during T4 infection. 4:10 p.m., 101 Biochemistry. (Microbiology & Pub. Health & AEC Plant Research Lab.)
- WOLFGANG SCHAPER, Director, Janssen Research Foundation, Belgium—Collateral coronary circulation. 4 p.m., 216 Giltner Hall. (Physiology).

Tuesday, April 27, 1971

- H. W. SIEGELMAN, Brookhaven National Lab.—Photobiologically-active plant chromoproteins. 4:10 p.m., 106 Plant Biology. (AEC Plant Research Lab.).
- JOHN NEWBOLD, Salk Institute, San Diego, Calif.—The Isolation of SV40 mRNA. 3 p.m., 101 Biochemistry. (Biochemistry).
- GEORGE NAZAROFF—Lifetimes of metastable states in resonant scattering. 4 p.m., 136 Chemistry Bldg. (Chemistry).
- RICHARD C. DUBES—Pattern analysis of electroencephalograms (EEG's). 4 p.m., 100 Engineering Bldg. (Computer Science).
- JAMES R. KIRK—The effects of pH and electrodialysis on the binding of Vitamin B12 by beta-lactoglobulin and associated peptides. 4:10 p.m., 110 Anthony Hall. (Food Science & Human Nutrition).
- D. J. MONTGOMERY—Zero population growth: a snare and delusion? 4:10 p.m., 312 Engineering Bldg. (Met., Mechanics & Materials Science).
- JOHN YARRINGTON—Vitamin E deficiency in the duck. 4:10 p.m., 346 Giltner Hall. (Pathology).
- RONALD DAVIS—Drug-induced release of tritium labeled norepinephrine. 4 p.m., 334 Giltner Hall. (Pharmacology).
- PETER J. BICKEL, U. of Calif., & Princeton U.—On some analogues of linear combinations of order statistics in the general linear model. 4:10 p.m., 405A Wells Hall. (Statistics & Probability).

Wednesday, April 28, 1971

- DAN ATKINSON, Chemistry Dept., U. of Calif., Los Angeles—Adenylate energy charge in metabolic regulation. 12:30 p.m., 116 Agricultural Engineering. (Biochemistry).

- PAUL NEWBERNE, MIT—Aflatoxins in nutrition. 4:10 p.m., 131 Anthony Hall. (Institute of Nutrition).
- PAUL NEWBERNE, MIT—The role of disease in nutrition. 12:15 p.m., Veterinary Clinic. (Lge. Animal Surgery & Medicine).
- H. T. TIEN & L. WOLTERINK—Membrane models: theoretical, experimental and controversial. 8 p.m., 101 Biochemistry. (Membranes Research).
- IVAN BUTZONITCH—Infection of epidermal cells by tobacco necrosis virus. 4:10 p.m., 168 Plant Biology. (Plant Pathology).
- EARL FRIEDEN, Florida State U., Tallahassee—Biochemical aspects of amphibian metamorphosis. 4 p.m., 204 Natural Science Bldg. (Zoology).

Thursday, April 29, 1971

- LAWRENCE WITT, Office of Agriculture & Fisheries, AID, Washington, DC—Agricultural diversification: concept, purposes and research challenges. 3:30 p.m., Parlor C, Union Bldg. (Agricultural Economics).
- CARL H. BECKMAN—A plant sensory system. 4:10 p.m., 168 Plant Biology. (Botany & Plant Pathology).
- W. KEITH BRYANT, Inst. for Research on Poverty, U. of Wisc.—The economics of enjoying work. 1:30 p.m., 9 Human Ecology Bldg. (Family Ecology).
- J. ALAN HOLMAN—Continental drift and vertebrate paleontology. 3 p.m., 209 Natural Science. (Geology).
- MICHAEL TAYLOR, U. of London—New developments in the analysis of political systems. 8 p.m., 30 Union Bldg. (Sociology).
- L. H. MATTHEISS, Bell Telephone Labs.—Crystal field effects and the band structures of transition-metal compounds. 4:10 p.m., 221 Physics-Astronomy, (Physics).

Friday, April 30, 1971

- GEORG NIELSEN, Office of Agricultural Information, Denmark—Using Agricultural information to help Danish agriculture keep competitive. 10 a.m., 410 Agricultural Hall. (Inst. for Extension Personnel Development).
- J. S. VANDE BERG, Wayne State.—Ultrasonic receptors in atympanate moths. 3 p.m., 204 Natural Science Bldg. (Zoology).