

MSU News-Bulletin

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Michigan State University

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Peters' students wear blue collars

The Task Force on Lifelong Education, which is expected to submit its final report to President Clifton R. Wharton, Jr. later this term, has, during the last year, focused considerable campus interest on the subject. In the coming weeks, the News-Bulletin will profile four faculty and staff members for whom lifelong education is not a new priority, but rather a continuing commitment.

"I think the major reward of my job is the immediate satisfaction I get in dealing with people who are already involved in community, family and job roles," says Ron Peters.

Unlike most teachers who stand before a class imparting information and insight, Peters seldom has to wait for several years to receive the feedback that tells him whether or not his efforts are bearing fruit.

"The subject matter we deal with often has immediate application," Peters says. "Our students frequently pick up information in one class session, put it into practice during the following week, and report on the application at the next class."

Peters is one of six circuit riders on the staff of the School of Labor and Industrial Relations' Labor Program Service. During the year, while colleagues in other departments are teaching conventional classes on campus, Peters travels throughout the state conducting classes for labor unionists.

The courses, all of which are co-sponsored by the Labor Program Service

and participating labor unions, are designed to make the unionists more effective participants in their labor organizations and in other community organizations as well.

The courses offered are divided into basic, intermediate and advanced groupings. The first group includes background courses such as shop steward training, effective speaking and contract administration. Intermediate courses explore broader areas related to unionism such as labor law, unions and political action, and psychology for workers. The advanced courses offer a more comprehensive look at such areas as problems of urban society and the economics of income, employment and collective bargaining.

A long-term Program in Labor Studies is operated in nine communities in cooperation with local labor organizations. Completion of six courses entitles the student to a Certificate of Achievement in Labor Studies.

"Our classes are small and informal," says Peters. "We require at least 15 students to justify offering a course, and prefer to have not more than 30."

Most of the classes are offered in the state's southern industrial corridor, exclusive of Detroit where Wayne State University and the University of Michigan operate similar programs.

Last year the Labor Program Service conducted 63 courses for 1,661 students in 20 communities. In addition, 39 conferences and special projects were undertaken.

"We offer courses both in union halls

and at local community colleges," says Peters, "and each location has certain advantages. Conducting classes in the union hall provides a known environment where workers feel comfortable, and conducting them in community colleges acquaints the workers, often for the first time, with the local college."

Few of the courses require extensive outside reading, but one continuing priority of the Labor Program Service is encouraging blue collar workers to widen their reading habits by selling books in class.

"Most union members are not avid readers," Peters says. "They tend not to frequent book stores. We've found that recommending a certain book is not enough to encourage the union member to go out and buy it. But when we show up in class with a box of books, they sell like hot cakes."

"Our principal objective is to give some order to the experiences the unionist has gotten on the job and in life."

Peters finds his teaching assignment more challenging in some ways than instructing courses on campus.

"The rewards to the student are largely intrinsic," he explains. "He doesn't come away with a grade or a degree or some direct financial gain, so the teacher must make the course satisfying to him in other ways."

"Our principal objective is to give some order to the experiences the unionist has gotten on the job and in



—Photo by Dick Wesley

Ron Peters (left) confers with Tom Chulak, an AFSCME representative.

life. When we deal with some theoretical concept we seldom have to search for examples to illustrate it — the student has already lived them."

The Labor Program Service staff is augmented by an ad hoc teaching staff composed of experienced unionists as well as instructors drawn from other MSU departments.

"It's not easy to recruit instructors from the campus," Peters says, "because few faculty are able to shift the required gears from teaching a captive campus audience to relating to a group of blue collar workers."

Peters points out that teaching courses to unionists requires of the instructor a certain understanding of the goals of the union movement. His

(Continued on page 2)

Ruling awaited in C-T election

The question of which organization — the MSU Employees Association (MSUEA) or the American Federation of State, County and Municipal Employees (AFSCME) — will represent the University's clerical-technical workers remains open, at least until the Michigan Employment Relations Commission (MERC) determines whether the University can drop its challenges to 95 of the ballots.

Last week, Keith Groty, assistant vice-president for personnel and employee relations, notified both parties and MERC that the University would drop its challenges to the votes to allow MERC to certify a winner without a lengthy formal hearing.

Groty said he believed there was enough case history in support of the University's move to establish precedent, but it now appears the action may be construed as a "case of first impression."

Hyman Parker, director of MERC, said a decision on whether or not to allow the University to remove its challenges will not be made until he received written opinions from the contending unions.

Spokesmen for both unions said opinions are being drafted.

In the election held November 13 and 14, AFSCME polled 634 votes to 617 for MSUEA. The University

challenged 179 ballots, most on the basis that the employee was a "supervisor" and thus ineligible to vote.

At a subsequent informal hearing, the University dropped its challenge to 84 of the ballots after further investigation of the status of the employees. When these votes were counted, MSUEA had a total of 671 to 663 for AFSCME.

Thus, if MERC does not allow the University to drop its challenges to the remaining 95 votes, and the challenges are upheld through a formal hearing, MSUEA would presumably be declared the winner.

However, the AFSCME unit contends that the University has "hopelessly clouded" the election and, at a formal hearing before MERC scheduled for Jan. 22-23, will argue either for a new election or the removal of all 179 originally contested ballots.

Harold Schmidt, president of AFSCME Council 7, said the election "has been a mess from day one," because of confusion about eligible voters and what he said were administration and MSUEA efforts to "ramrod" an early election.

Schmidt also charged that Groty "sprinkled" enough supervisory votes in the 84 from which he initially removed University challenges to swing the election to the MSUEA.

He said he agreed with the dropping of 31 of the 84 challenges, but that the remaining 53 "were clearly supervisory employees."

Schmidt said AFSCME had obtained depositions from 18 of those 53 employees indicating they were supervisory personnel, and charged that Groty found out about this and decided to drop the remaining 95 challenges in

order to "inundate" the election with supervisory votes.

Groty said he would not comment on Schmidt's charges since the validity of the charges would be determined by MERC.

The AFSCME unit could have protected its initial lead had it concurred in the challenge of all 179

(Continued on page 4)

Agenda set for Board

The MSU Board of Trustees will hold its public monthly meeting Friday at 10 a.m. in the Board Room of the Administrative Building.

Items on the agenda are expected to include the appointment of a director of women's programs, acceptance of bids on a new ice arena and reorganization of the University's Institute of Biology and Medicine.

The meeting also will include the first formal appearance of two new Board members who were elected in November for eight-year terms. They are Jack Stack of Alma and Aubrey Radcliffe of East Lansing.

Board members met in Kellogg Center Tuesday and Wednesday in their informal annual "retreat" to discuss with University officers and

administrators long-range goals and trends in enrollments, finances and academic areas.

No action was taken at these meetings. Board members decided late Tuesday, however, to hold their monthly closed finance committee meeting that evening. President Clifton R. Wharton Jr., said that decision was made following the discovery that trustee travel plans would result in absences if the finance committee meeting were held at its usual time immediately prior to the Friday public session.

University investments, labor relations, contracts and certain personnel matters are items usually discussed in the closed finance committee meetings.

Science notes

The little man who wasn't there

"...The female receives within herself the share contributed by both, because in the female is the material from which is made the resulting product."

Aristotle
(about 335 B.C.)



BY
PHILLIP
MILLER

Some people believe that the male gamete determines the sex of a baby.

Some others believe that the egg has more influence upon what the baby will be, than does the sperm.

Aristotle thought both egg and sperm were important to the development and growth of the embryo.

Determination of what the baby will become "does not lie in the semen coming from all the parent or not," said Aristotle, "but in the mutual proportion or disproportion of that which comes from the woman and the man."

In saying this, Aristotle was knocking a theory which 2,000 years later Darwin would defend as "pangenesis." It turned out that Aristotle was right.

Aristotle also would have crushed the idea of "preformation" — the notion that a little person resided in the sperm or egg — but the idea was not yet in vogue.

Alain F. Corcos of MSU's Department of Natural Science recently clarified a few preformation episodes from the history of biology in an article in the publication "The American Biology Teacher".

Corcos struck down exaggerated claims in some modern-day textbooks that microscopists of the preformists

heydays reported spotting little men in sperm cells.

"To enrich their discussion of preformation, American writers use as evidence the writings of two 17th century scientists, Nicolas Hartsoeker and 'Dalenpatius' (apseudonym) who reported having seen a little man, or 'homunculu,' inside a sperm," said Corcos.

"We are apparently to conclude that these two researchers were victims of their imaginations or of primitive microscopes."

Although Hartsoeker — one of the pioneers of microscope research of gametes — claimed the sperm "of birds contains a male or female bird", he never claimed to have actually seen a little person in a human sperm cell, said Corcos.

But the myth of a "little man" has spread through various biology textbooks, said Corcos.

Even the early microscopists misunderstood:

"Many preformationists attempted to find under the microscope the shape of an animal (or little man) in each sperm — but in vain," said Corcos.

But the sperm researchers were to receive an unusual encouragement when, in 1699, "Dalenpatius" published an article scattered with accurate microscopic observations along with a purposefully fraudulent drawing.

Perhaps to the delight of today's feminists, this was surely an episode of sperm research which will come back to haunt male chauvinists. For, although Dalenpatius's drawing was a hoax, some of the gamete researchers took his joke seriously.

As it turns out, Dalenpatius was really Francois de la Plantade, member and later secretary of the Royal Academy of Montpellier, said Corcos.

His devious drawing was of a sperm shaped much like an upright Buddah

with long hair. Evidently it spurred the researchers back to their microscopes.

"Most of his contemporaries, including Anton van Leeuwenhoek believed the 'observations' to be genuine," said the MSU author.

"They criticized only the shape of the 'little man.'"

The publication of Dalenpatius was translated from Latin by William M. Seaman of MSU's Department of Romance Languages for Corcos' article:

"If philosophers, while trying to unveil the causes of natural science, would carefully consult Mother Nature herself, they would not daily produce such fantastic offsprings of their imaginations. But we, to whom this reason has always been more important,

have thought that we should leave nothing untried, so that, if some way were open to her, we would carefully investigate the approach and strive by all means to reach her inner recesses."

Corcos's article includes a related drawing. He concludes his article with the hope that it "raised enough doubts in the minds of biology teachers and textbook writers so that the drawings of Hartsoeker and Dalenpatius will no longer be presented as evidence in support of the 18th century belief in preformation."

Perhaps the confusion was sparked by Aristotle. For he had maintained that the egg contained "matter" and the sperm determined the "form".

... Peters' students

(Concluded from page 1)

background reflects such an understanding.

His father was an organizer for the Brewery Workers in Niagara Falls, N.Y., and while a student at Buffalo State Teachers College Peters worked part time for an uncle who was an organizer for the Machinists Union. While teaching junior high school in Lockport, N.Y., he became acquainted with Cornell's Labor Education Program and began thinking of this area as a potential career.

After a brief stint in the Army and two years in the Philippines as one of the first Peace Corps volunteers, he enrolled at Syracuse University where he took an M.S. in comparative education. Then he joined the Labor Education Division at Roosevelt University in Chicago for three years.

In 1969 he began work toward a doctorate in continuing education at MSU (he is currently working on his dissertation), and joined the Labor Programs Service in 1970.

Philosophically, he looks upon the union movement and his contribution to it as a means for many to rise to leadership positions in society who

would otherwise be denied the opportunity.

"The union remains the one social institution we have that continues to bring its leaders up through the ranks," he says. "It provides a certain vitality to workers by tapping them for social leadership responsibilities. For many, serving as leaders in their labor organizations provides them with their first sense of fulfillment."

Labor has also spent money and effort to bring about social change that affects not only union members but society as a whole, Peters points out.

"I find it significant that the AFL - CIO spent ten times as much money lobbying for Medicare than it has trying to get 14B repealed," he said. (Section 14B of the Taft - Hartley Act allows states to outlaw the "union shop." It has been a goal of organized labor for many years to have the section repealed.)

Peters also notes that the AFL - CIO has been in the forefront of efforts to raise minimum wage levels even though its members would not be directly benefited, and has been actively involved with consumer protection legislation.

BY MIKE MORRISON

Letters

C-T coverage criticized

To the editor:

When Gene Rietfors was removed from his position as editor of the MSU News-Bulletin, there was some concern expressed as to whether this personnel shift indicated a change to come in the editorial policies of the newspaper. It appears at this time that this concern was indeed justified.

In the Jan. 4 issue of the Bulletin, an article appeared concerning the C-T election. This article was nothing more than an Administration hand-out of its position and not a statement of the true positions of all parties concerned with this all-important issue. The fact that no

statement from either the AFSCME Council 7 or the CT organizing committee for AFSCME or the MSUEA was included in the article indicates that the Bulletin is now going to be used solely for Administration propaganda, rather than an open forum of communication for University personnel.

The fact that 2200 CT's were poorly informed on this one particular issue is not really as important now as the fact that this act of omission seems to indicate the trend that this newspaper is going to take. If such omissions continue in the future, the Bulletin will surely lose its credibility among its readership and be worth less than the paper it is printed on.

Nancy Teeter
Secretary
OMERAD
Barbara Parness
Research Assistant
Center for Urban Affairs

EDITOR'S NOTE - Barbara Parness is a member of the steering committee of C-T employees affiliated with AFSCME.

Review considered for governance system

A review of MSU's academic governance system as it relates to cost and effectiveness is being considered by the administration.

Provost John Cantlon told the steering committee Monday that such a review would include a dollar amount with regards to faculty and student time being expended on committee meetings from departmental levels to all-University governance groups, such as the Academic Council.

James T. Bonnen, professor of agriculture economics and chairman of the steering committee, said cost alone was not the reason for such a review.

"There are concerns among faculty and students not only about the cost, particularly in time, but of making the governance process the most effective vehicle possible for faculty and student participation in academic decision-making," he said.

The Council, which is composed of more than 100 faculty and students, meets at least monthly, and, depending on agenda business, bi-monthly or even weekly.

The present structure of the Council, with its various committee systems, has been growing since the Council was formed in the mid-fifties.

Bonnen added that his group will be discussing ways of reviewing the system within the next couple of months.

In other Steering Committee action, the agenda was set for Tuesday's (Jan. 16) meeting of the Academic Council. The group meets at 3:15 p.m. in the Con Con Room of the International Center.

The three items for business are a curriculum committee report, a report from the educational policies committee on undergraduate interdisciplinary courses, and a governance committee report on minor bylaw changes for the inclusion of librarians in the academic governance process.

(See related story on page 6).

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Associate editor: Sandra Dalka
Associate editor: Patricia Grauer

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Around the campus: A summary

Council on career education named

In a move to assure that students have salable skills when they leave school, a Council on Career Education has been appointed by the College of Education.

Dean Keith Goldhammer, dean of MSU's College of Education, called it "a big step forward in career education" in announcing its formation.

Goldhammer has charged the council and two staff members with devising a comprehensive program for the preparation of career education personnel. This will include a program to train teachers to conduct career education; instructional strategy, curricular designs and material on career education and service to public schools and other educational agencies.

Goldhammer said he believes there is no reason why a child should not have a career goal before he gets to high school.

"We can give them a fairly realistic picture of areas in which they can be successful," he said. "It is a project that helps every youngster discover how he can be a fulfilled, participating member of society."

The dean said schools have failed to recognize that a person's occupation is the major role he plays in society, and that failure to have a career or occupation has been the cause of much of the alienation of youth.

In addition to the council, Goldhammer said an advisory committee of persons from outside the University will be appointed as community representatives.

Raymond N. Hatch, professor of education, will chair the council. Other faculty members on the council are Lawrence Borosage, Stanley P. Wronski, Louis Romano, Glen O. Cooper, Vernal D. Seefeldt, Howard W. Hickey and Russell J. Kleis, all professors in the College of Education.

In addition, the State Department of Education will be represented by Arnold Loomis, who heads its career development program.

Peggy L. Miller and Casmer F. Heilman, both associate professors of education, will work half - time for the council to design the career education program. The council will serve as a policy and review board.

20 years of teaching English

"Every patient, resourceful teacher finds miracles only in his students, never in himself," a professor of English concludes after 20 years of teaching University freshman.

Edward Edelman, professor at The Brooklyn Center of Long Island University, New York, has a "Mr. Chips" pedagogical memoir in the current "University College Quarterly," in which he examines his professorial "losses and gains." He identifies what Freshman English is and isn't, in the classroom and during office hours, and considers "grammar and niceties." For the student, he says, the course is attuned to personal internal growth.

He notes that Freshman English is not a beginning of the student either as a person or as a writer, since the student has been writing for an exceedingly large part of his life, and "a major renovation would require another lifetime."

"One day, probably," he envisions, "all those from whatever background who wish to become wholly educated will write fluently, well before the freshman year. In the meantime, we must cope."

"Instructors must operate on the presumption, however vaguely, that once admissions declare a student college material, also the will of the student and that of society concur," he says.

He shies away from clever and ambitious tests, and has a longtime favorite in which the short excerpts are "lessons in ideas expressed" and words are exposed as instruments of choice and will.

Given the choice, Professor Edelman would free Freshmen English students from the course once they achieved a C grade, "as if it were a great watershed."

"But that cannot be, not overtly," he writes, "since not society, not all colleagues are yet agreed that we should be released from the notions of performing miracles. So my office hours are the sanctuary of the possible."

"Meanwhile, I must take a certain risk of failing, must indeed be wasteful of and sloppy with my time, on the not imaginary principle that some students thaw unevenly, or require more patience than I had timidly set as my all."

Grammar and "like niceties," he regards as simultaneously the easiest and most difficult to achieve because they are by nature "superficial, mechanical, and boring."

Votapek to play in Chicago symphony

Ralph Votapek, concert pianist and MSU music faculty member, demonstrates how an active performing schedule can be combined with a teaching career.

This weekend, Votapek will perform with the Chicago Symphony Orchestra as part of its regular subscription series.

Under the baton of guest conductor Erich Leinsdorf, former conductor of the Boston Symphony, he will perform Ravel's "Piano Concerto" and Schoenberg's "Ode to Napoleon."

While in Chicago, Votapek will also be heard in a recital at Northwestern University where he received the B.A. degree in 1960.

Since his student days at Northwestern, Votapek has appeared some 12 times with the Chicago Symphony in Saturday evening special concerts and at the orchestra's summer Ravinia Festival. His first two appearances resulted from winning piano competitions while a student.

"Each time I have gotten to know the orchestra better," he said.

The Chicago Symphony is his favorite orchestra, says Votapek who has performed with many of the nation's top orchestras. The Chicago Symphony is regarded as one of the world's great orchestras.

With the young Israeli conductor Daniel Barenboim on the podium, the Chicago Symphony will make its annual concert appearance at MSU at 8:15 p.m.

Monday, Jan. 22, as part of the International Orchestra Series. The orchestra has performed at MSU annually since 1967.

Votapek's career was launched in 1962 when he won the first Van Cliburn Piano Competition. He also holds a master of music degree from Juilliard. He joined the MSU faculty in 1968.

Printing exhibit at library

Examples of the art of fine printing are on display at the Library this month in honor of National Printer's Week, Jan. 10 through Jan. 17.

The exhibit features works from the 15th century up to the present and includes modern reproductions of ancient printing styles. Most of the works are the products of private, hand-operated presses and each has its own style of printing.

Nicolaus Jensen's Scriptoris rei rusticae, which was printed in Venice in 1472, is the oldest work on display. Jensen's work served as the basis for all modern type according to Mrs. Caroline Blunt, a member of the Committee for Library Displays. Works from Ben Franklin's celebrated printing press can also be seen.

Books on display are from the library's special collections department. The library is open Monday through Friday from 8 a.m. until 10:50 p.m., Saturday from 9 a.m. until 10:50 p.m. and Sunday from 1 p.m. until 10:50 p.m.

MSU, LCC offer child development

More than 40 people involved in local child care programs met Tuesday to begin the second term in a three - term sequence of child development courses offered jointly by MSU, Lansing Community College and the Lansing School District.

Instructors for the unique class are Miss Betty Garlick, director of Head Start training at MSU, and Mrs. Jess Pinch, of LCC.

"It isn't an easy class to teach," Miss Garlick observed. "But it's an exciting and very rewarding thing to be involved in. The wide range of ages and experience and educational background that makes things like grading papers so difficult is one of the real strengths of the class. If we could find the same blending in other classes here at the University, we could provide students with a richer experience."

The class originated, Miss Garlick explained, out of the need for some sort of in - service training for Head Start staff. Planning sessions that began in May of 1972 and continued through July involved Dr. William Heater, chairman of the Department of Social Science at LCC; Dr. Margaret Bubolz, chairman of the Department of Family and Child Sciences at MSU; Head Start Director Charles Haskell and representatives from the Lansing School District, MSU Continuing Education Service and the State Department of Mental Health. Head Start teachers indicated the subjects they felt the course work should include, and MSU and LCC classes were chosen accordingly.

Though intended to train teachers in the Head Start program, the class also includes day care center personnel, a kindergarten teacher and a first grade teacher.

To be eligible to take the course, an MSU student must be a Head Start teacher.

New natural resources major

Undergraduate students can now choose to major in "Natural Resources and Environmental Education," a new option introduced this year by the College of Agriculture and Natural Resources.

The new major, approved by the MSU Academic Council in October, is administered by the College of Agriculture and Natural Resources in cooperation with the College of Education. The Agriculture and Natural Resources Education Institute, under the direction of Carroll H. Wamhoff, will serve as the coordinating unit.

Faculty coordinator for the program is David I. Johnson of the Department of Fisheries and Wildlife.

"One of the best things about the program is that it's very student centered," says Johnson. "For one thing, the new program is interdepartmental. A student can enroll in any one of four departments - forestry, fisheries and wildlife, resource development or park and recreation resources - and still have the major. There is also more flexibility in required courses."

Johnson explains that majors in natural resources and environmental education must take six core courses totaling 19 credit hours dealing primarily with resource ecology and environmental education. A minimum of 15 credits is also required in at least three of the following areas: fisheries and wildlife, forestry and natural resources, horticulture and crop and soil sciences, park and recreation resources, and resource development and public affairs management. A minimum of 12 credits is required from at least two of the following areas: natural science, social science, and interdisciplinary and other courses. A number of elective credits from the College of Agriculture and Natural Resources are also required.

One of the features of the new major is that it offers teacher certification.

"Majors can receive teacher certification by completing 30 credits in teacher education courses," says Johnson. "Nonteaching majors, on the other hand, take courses in learning theory, human behavior and communications, in addition to the regular required courses."

"Even though the program hasn't received much publicity as yet, we've already enrolled more than 30 students," says Johnson. "If the present rate of enrollment continues, we'll have about 100 majors before the year is out."

An important benefit to graduates of the new program is a relatively high prospect for employment. Johnson foresees an ever - increasing need for qualified natural resources graduates in teaching, interpretive centers, federal and state agencies, municipal and regional planning agencies, and industry.

Cottage turns classroom

In the two evening classes . . . you'll find an advertising executive, a house painter, a retired policeman, a retired hardware store owner, a stock broker, a salesman, a modelmaker, an educational executive and a psychiatrist.

It is a small cottage designed in the Queen Anne style. It is listed in the National Register of Historic Places. It is wedged between apartment buildings looking onto the Detroit River from a withering section of Detroit. It is MSU's Pewabic Pottery.

At the turn of the century, it was created to provide an artistic outlet for its owner and co-founder, Mary

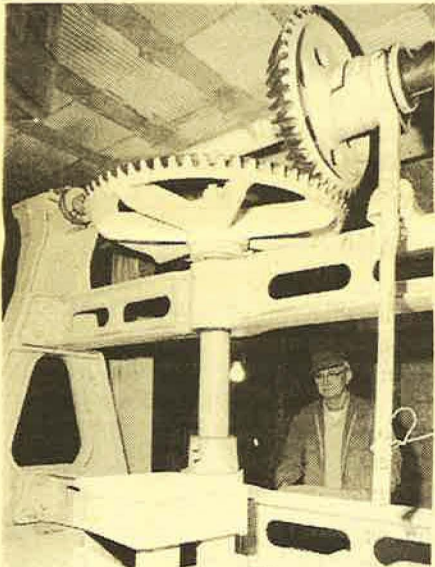


BY
SANDRA
DALKA

Stratton. Today, it exists to provide an artistic outlet for Detroit area residents.

The students, 54 each term, fill the studio areas, turn potters wheels, test glazes, and create pottery pieces for themselves and for the exhibit and sale areas of the pottery.

The students are far from "normal."



Primo Valloni, a Pottery employee for nine years, mixes the clay for students.



Roger Ault, the director, talks about the challenge of operating the Pottery.

They do not fit into one age group, one economic class or have the same degree of proficiency in ceramics.

In the two evening classes, which are approximately 25 per cent male, you will find an advertising executive, a house painter, a retired policeman, a retired hardware store owner, a stock broker, a salesman, a modelmaker, an educational executive and a psychiatrist.

Roger Ault, an industrial designer with formal training in ceramics at Cranbrook Institute, is the director of the pottery.

He joined the MSU staff in 1967, a year after the University accepted the responsibility for operating the pottery. The pottery was a gift to MSU from industrialist Henry L. Caulkins in memory of its founders Mrs. Stratton and his father, Horace J. Caulkins.

Ault was joined the same year by an assistant, Jim Powell, who also serves as an instructor.

Operated by the Continuing Education Service, the pottery is

important, according to Ault, as a vehicle "to continue and expand one's knowledge as an adult."

Presently, the pottery is offering avocational, retiree and professional level ceramic education; a permanent museum and contemporary exhibit gallery; and adult tours.

Ault said it is hoped to expand the educational program to increase facilities for 150 potters. "The interest indicates that expansion is necessary," he said.

Although nine new spaces were added fall term, three of these new openings and all the other openings were taken by past students who have a one-time privilege of getting back in, resulting in only six openings available to 37 applicants, Ault added.

Other additions planned when finances permit include expansion of the tour program to include younger groups; a ceramic library for student use and storage of historic records; an advanced studio program for the best qualified students in the Midwest; and a training center for ceramic designers.

Ault said that because of the special need in our times for lifelong education, the pottery is being maintained as both an educational and historic facility.

"This is extremely important when you consider the scarcity of art facilities set aside for the segment of society we serve," he said, "particularly as you consider the increasing popularity of early retirement, the four-day work week, and ultimately a 30-hour or less work week."

In addition to offering a highly professional adult ceramic educational program, the pottery provides appropriate college credit extension courses.

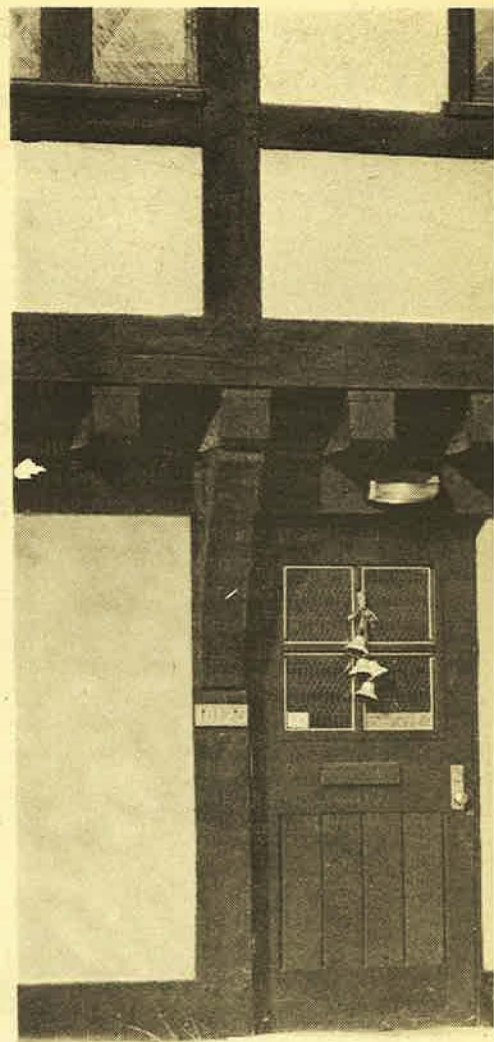
The pottery, as a museum alone, has strong appeal.

Entrance into the pottery begins with the museum and showroom facilities on the first floor.

These rooms are followed by the laboratory area where glazes and their recipes are mixed and stored.

The three-story kiln room is off the laboratory. It's here that students fire their ceramics at 2,400 degrees.

A very noisy, machine-filled room forms the back of the building. This is the clay room.



The clay is produced in machines more than a half century old. It is mixed in the blunger (a six-foot vat — with paddle), then pressed into large pancakes in the filter press to remove excess water. The filter cakes are fed into the pug mill (like a meat grinder) which removes air. The clay is now ready for use. For nine years Primo Valloni has kept the clay machines in working order.

The basement of the building provides the workshop and studio areas for the pottery classes.

The Michigan State Council for the Arts has been housed on the second floor of the pottery since 1968. The council, an agency of the state government and associated with the National Foundation for the Arts at the federal level, is responsible for initiating and supporting community art programs in Michigan.

There's a large room directly above the clay room, which presently is a catch-all for storage, including boxes of tiles remaining from the production days of the factory. Ault has visions for this room as an adult studio when funds are available.

The side courtyard serves as a useful area during the summer. Here potters fire their pots for 15 minutes in outdoor kilns using the 16th century Japanese technique of Raku. The pots are then dipped into either sawdust or a tub of water. This results in glazes of an iridescent nature.

A dream becomes reality

The 70-year-old dream of an Upper Peninsula artist continues to grow thanks to the generosity of a Detroit industrialist and the efforts of MSU's continuing Education Service.

Pewabic Pottery came into existence at the turn of the century when a young artist, Mary Chase Perry, moved from the Upper Peninsula to Detroit. She brought with her dreams of working with clay and creating ceramics.

Her first studio was a carriage house in Detroit. Later she commissioned an architect to design a pottery for her at 10125 East Jefferson. The architect, William B. Stratton, later became her husband.

So came into existence in 1908 the Queen Anne style building — part studio, part laboratory, part factory. It was named the Pewabic Pottery after a river in the Upper Peninsula's Copper Country.

Mrs. Stratton soon began making a name for herself and the pottery. The

discovery that made her famous was an iridescent glaze identical to that on fragments of pottery excavated in Persia. Nothing like it had been made since the 14th Century in Spain.

It was this type of glazing and the commissions for the glazed tiles produced in the pottery's factory that brought attention to the Detroit pottery.

Some of Mrs. Stratton's projects include the Shrine of the Immaculate Conception in Washington, D.C. on which she worked from 1923 to 1931, and Detroit area buildings such as the Detroit Institute of Arts, the Detroit Public Library, the Guardian Building and the Stroh Brewery.

Mrs. Stratton died in 1961 at the age of 94. The pottery was given to Henry L. Caulkins, son of the other co-founder, Horace J. Caulkins.

In 1967 Caulkins gave to property to MSU's Continuing Education Service to revive as a crafts center.



The exhibit area of the Pottery offers the public a chance to view and purchase clay items.

Profiles

A 'secretary' retires

Although he lacks shorthand, Madison Kuhn has held one of the most prestigious secretarial positions on campus for the last five years.

Kuhn, graduate chairman of the College of Arts and Letters and professor of history, retires this month as Secretary of the Faculties. "I've done my turn and it has been enjoyable. It's time for somebody else to take over," he said.

Kuhn took the position in 1967 upon the urging of former President John A. Hannah.

"President Hannah wanted somebody from the faculty to record minutes of the Administrative Group, the Academic Council and the Senate, and asked if I would take the responsibility," Kuhn said.

Kuhn said that during his first year in the post he took voluminous notes and recorded just about everything that was said in these academic governance meetings.

"The sessions were closed to the public then and it was important to keep an accurate record of everything that transpired," he said.

"Now that the meetings are open and the press covers them and all sessions are recorded on tape, the task is easier.

Kuhn is assisted in his task by Bernice McQueary, administrative secretary to the Secretary of the Faculties and the University Archives and Historical Collections.

Mrs. McQueary is responsible for the preparation and distribution of the minutes as dictated by Kuhn. "She has been a great asset to the position," he said.

Kuhn, who has been a member of the MSU faculty for 35 years and is the University historian, said that he has seen major changes in academic governance during his term as Secretary of the Faculties.

"My first year in the position the Academic Council was involved in revising the Bylaws for Academic Governance to reduce the power of the deans," he said. "Great debates took place and some members of the council wanted to remove the deans altogether. This is when the Elected Faculty Council was formed."

Kuhn said that there is no longer a disagreement between faculty and deans. "These groups have found they have much in common and there has been a change of attitude. And with the change in personnel, the deans see themselves as faculty. This harmony is a very fine thing."

Another change that Kuhn has witnessed is the inclusion of students in academic governance.

"This is a fine development and students have offered a great deal to the Academic Council as well as the standing committees and departmental committees," he said. "An added benefit is that the students are discovering some of the University's administrative problems which had not occurred to them before."

Kuhn also noted another growth of the academic governance system includes the addition of such standing committees as the University Committee on Building, Lands, and Planning and the University Committee on Business Affairs.

"Now faculty and students have a voice in decisions in these areas of University operations which they could not register before. This is important to both groups."



MADISON KUHN

Kuhn, a South Dakota native, received his B.A. from Park College in Missouri and his M.A. and Ph. D from the University of Chicago.

During his 35 years at MSU, he has served on various departmental committees, the Athletic Council and the Centennial Committee.

Kuhn, who wrote the history of MSU — "The First Hundred Years", for the centennial, is currently working on his second book about the 1932 Roosevelt and Hoover presidential election.

His profession and hobbies are combined as he travels and visits libraries and talks to people along the way. "Being a historian, I travel to understand the human, economic and social sides of life," he said.

His goals? Finish his book, write on other subjects and continue doing what he likes best — teaching.

—BY SANDRA DALKA

Kruger, Spaniolo named

Daniel Kruger, professor of labor and industrial relations, and James Spaniolo, former assistant to President Clifton R. Wharton, Jr., have been named by Governor William G. Milliken to a newly created Commission on Higher Education.

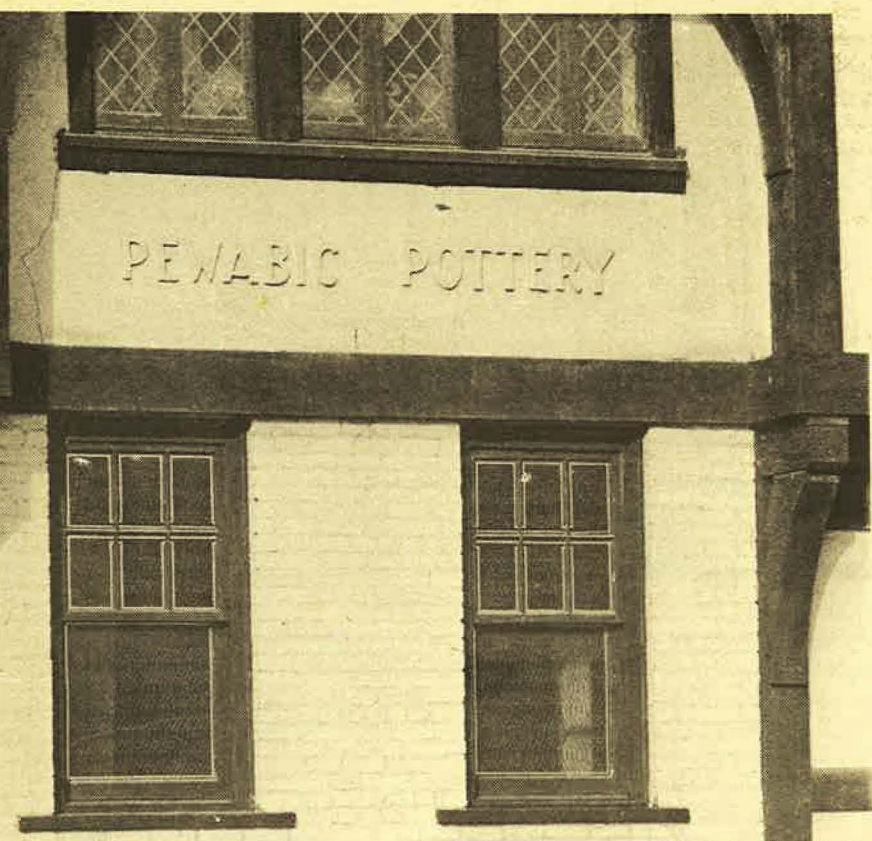
In announcing the appointments and 24 others, the governor's office said the three-fold purpose of the Commission was:

*To assess and, when necessary, redefine the goals, purposes and functions of all post-secondary education in Michigan as well as the instructional delivery systems required to carry out such purposes,

*To determine and make appropriate recommendations to the governor and the legislature concerning needed procedures and structures for the governance, general planning, and coordination of post-secondary education in Michigan,

*To determine and make needed recommendations on the means and processes required for providing most equitably for the financial requirements of post-secondary education in Michigan in the years to come.

The governor indicated that more appointments would be made to the Commission in the near future, including that of a chairman.



—Photos by Dick Wesley

MSU Positions Available

IMPORTANT: Administrative - Professional and Clerical - Technical Applicants should contact the Employment Office at 353-4334 by January 16, 1973 and refer to the vacancy by the position number. Instructional staff applicants should contact departments noted.

FACULTY

(1) Instr. and (1) Asst. Prof. of Social Science (M.A. minimum in one or more social sciences, ABD or doctorate preferred) Interest in interdisciplinary social science general education at undergraduate level. Teaching experience preferred. Prof. Douglas Dunham, Dept. of Social Sci.

Temporary appt., Jan. - June 1973. (M.S.W. or Ph.D., Clinical or Counseling Psych.) Emphasis on psychotherapy. Rowland R. Pierson, Director.

Counseling Center

Limnologist: Asst. Prof. level; permanent twelve-month appt.; Ph.D. or D.Sc. required. Background in contemporary limnology. Consideration will be given to applicants with interests and specialization in biochemistry of water - sediment interactions or in fish populations and trophic dynamics. Instruction in freshwater ecology and an advanced course of candidate's specialization. Detailed letters of interest, curriculum vitae, and four letters of recommendation are invited. R.G. Wetzel, Chmn. Search Committee.

W.K. Kellogg Biological Station, Hickory Corners, Mich. 49060.

Asst. Prof. of Criminal Justice (Ph.D. in an appropriate discipline preferred) Broad knowledge of criminal justice system particularly in the correctional system and advanced degrees. Ralph F. Turner.

Chmn. Search Committee

Instr. or Asst. Prof., Art Education (DED or DAB) Undergraduate and graduate teaching. Strong background studio and aesthetics. Richard E. Sullivan, Dean.

College of Arts & Letters

Instr. or Asst. Prof., Industrial Design and Photography (MFA). Combined industrial and teaching experience preferred. Richard E. Sullivan.

Dean, College of Arts & Letters.

Asst. Prof. of Psychology (Ph.D. Industrial - and - Organization Psychology) Specialization in organizational behavior. Demonstrated competence and enthusiasm for both undergraduate teaching and field

research in work organizations. Strong promise of graduate teaching competence. Dr. Dozier W. Thornton.

Dept. of Psychology

ADMINISTRATIVE-PROFESSIONAL

115. Head Computer Programmer I - To act as asst. supv. of control and scheduling of data processing. PL/1 programming language capabilities desired also OS job control language capability. Must have good knowledge of IBM computer system. \$9,330-11,850.

CLERICAL-TECHNICAL

116. Office Assistant IX - Experience with the organizational structure and handling of employee records in a department of an educational institution. Ability to perform detail work as well as broader problems of data collection and processing. Knowledge of or experience in IBM card data processing, procedure writing, and procedure planning. \$8,384-10,418

117. Electronic Equipment Technician I - Experience in assembly, troubleshooting and some design of solid state electronics. Background should include work with digital IC's tunnel diodes and fast signal processing. \$3,684-4,30/hr.

118. Laboratory Research Assistant, Sr. (D) (BS in biological sciences) Carry out general lab duties of active research lab, including media preparation, training and supervision of students. Knowledge of sterile techniques is desirable; willingness to learn tissue culture techniques is essential. Will need to assist experienced technicians in experiments. Opportunity to gain experience for advancement. \$2,70-3,07/hr.

119. Sr. Dept. Secretary VII - Previous secretarial experience with good typing and shorthand or speedwriting skills. Familiarity with dictaphone equipment. Knowledge of medical terms desirable. \$6,660-8,272

120. Executive Secretary VIII - Excellent typing and shorthand; general office work; able to deal with the public and faculty. Work with minimum amount of supervision and able to assume responsibility. Responsible for maintaining records of the budget for certain accounts. Must be dependable. \$7,473-9,57C

Departmental Secretary V (1 vacancy) \$6,267-7389.

Senior Clerk IV (1 vacancy) \$5,735 - 6,926.

Clerk-Stenographer III (2 vacancies) \$5,511 - 6,562.

Clerk-Typist II \$5,440 - 6,422.

... C-T ruling

(Concluded from page 1)

votes, because then if the University dropped its challenges, AFSCME's would remain. But the unit did not concur.

Schmidt, who has been working in Michigan only since last May, admitted that he was operating under the assumption that when one party challenges, all parties are considered to have challenged. He said this was the rule in other states.

"Besides," he said, "I had no more

information on the status of these employees than anyone else and it would have been unconscionable for me to challenge them without grounds."

Rollin Dasen, MSUEA president, said he was optimistic that his unit would eventually be certified the winner.

"The way it stands now, we are victorious," he said, "and if they count the rest of the ballots our margin will be even greater. We hope this will be settled quickly so we can get a contract signed."

Academic Council: Foundation of academic governance

The parking lot across from the International Center fills with cars at 3 p.m. one Tuesday a month. Professors rush from their cars into the building's Con Con Room where they are joined by students. President Wharton presides over the group for from 30 minutes to three hours. Adjournment!... And it's back to their cars.

These Tuesday meetings form the basis of the University's academic governance system. For at least once a month the Academic Council meets to advise the president of all matters of educational policy.

It meets for consideration of proposals of matters pertaining to the general welfare of the University.

It meets to approve or reject major changes in courses and curricula.

It meets to provide a voice for students and faculty in University policy.

It meets in behalf of and for the Academic Senate.

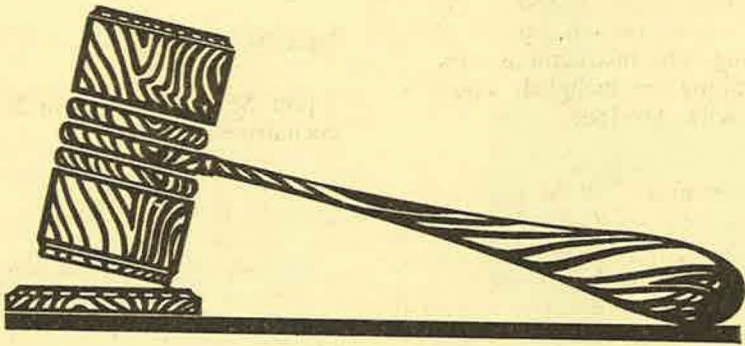
The Senate, composed of professors,

associate professors and assistant professors of the regular faculty, as well as the Provost and President, takes formal action on issues relating to matters of educational policy.

Matters brought before the Senate come as recommendations or reports of the Council. It meets at least once each term.

The Academic Council, which is fed through a committee system, has been in existence since the mid-fifties.

The monthly meetings of the Council provide a platform and an action ground



for behind the scenes committee work. Recommendations and proposals get their acceptance or rejection via the Council and the Senate.

The MSU Board of Trustees provides the final determination on issues of major University policy. Not all of the issues that reach the Council and Senate have to pass to the Board of Trustees, however.

Current issues facing the Academic Council are the Faculty Grievance Procedure, a Rights and Responsibilities document, general education, and

structure and curriculum for the College of Urban Affairs.

The issues will have major billing on the groups' agendas in the coming months.

These major issues will be mixed with such routine matters as curriculum approvals, academic calendar changes and other educational matters.

Items reach the Council and Senate agendas through a steering committee. This committee is responsible for setting the agendas.

Another powerful committee of the Academic Council is the Committee on Committees. This committee provides a check of the various activities of the various committees.

Faculty members, in addition to serving on the Senate and the Council, serve on the Council's 12 standing committees and the various ad hoc committees.

Listed below are the faculty members who serve in the University's academic governance structure.

NAME AND RANK	DEPARTMENT
Clifton R. Wharton, Jr., Prof.	President
John E. Cantlon, Prof.	Provost
Madison Kuhn, Prof.	Secretary of the Faculties

ELECTED FACULTY COUNCIL

AGRICULTURE & NATURAL RESOURCES

Raleigh Barlowe, Prof.	Resource Development
Richard W. Chase, Prof.	Crop & Soil Science
(R) David R. Dilley, Prof.	Horticulture
John N. Ferris, Prof.	Agricultural Economics
Harold D. Hafs, Prof.	Dairy Science
*William T. Magee, Prof.	Animal Husbandry
(R) Robert K. Ringer, Prof.	Poultry Science

ARTS & LETTERS

Thomas H. Falk, Asst. Prof.	German & Russian
Roger Funk, Asso. Prof.	Art
(R) Paul O. Harder, Prof.	Music
Herbert C. Jackson, Prof.	Religion
*Bruce L. Miller, Asst. Prof.	Philosophy
James H. Pickering, Prof.	English
Frederick D. Williams, Prof.	History

BUSINESS

William Lazer, Prof.	Mkt. & Trans. Admin.
Victor E. Smith, Prof.	Economics
*Hendrik Zwarensteijn, Prof.	Bus. Law & Off. Admin.

COMMUNICATION ARTS

Jack M. Bain, Prof.	Communication
*Patricia Walsh, Asst. Prof.	Audiology & Speech Sci.

EDUCATION

*Charles V. Mange, Prof.	Elem. & Spec. Education
O. Donald Meaders, Prof.	Sec. Educ. & Curriculum
(R) Andrew C. Porter, Asso. Prof.	Couns. & Personnel Serv.
Herbert C. Rudman, Prof.	Admin. & Higher Educ.
(R) Wayne D. Van Huss, Prof.	HPER

ENGINEERING

Thomas W. Culpepper, Asso. Prof.	Electrical Engineering
*James L. Lubkin, Prof.	Civil Engineering
Donald J. Montgomery, Prof.	Met., Mech., Mat. Sci.

HUMAN ECOLOGY

*Joanne Eicher, Prof.	Human Env. & Design
Verna Hildebrand, Asso. Prof.	Fam. & Child Sciences

HUMAN MEDICINE

*Theodore M. Brödy, Prof.	Pharmacology
Daniel F. Cowan, Asso. Prof.	Pathology
Norman B. McCullough, Prof.	Microbiology & P.H.

JAMES MADISON COLLEGE

John E. Paynter, Instr.	James Madison
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JUSTIN MORRILL COLLEGE

(R) * Paul M. Hurrell, Prof.	Justin Morrill
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LYMAN BRIGGS COLLEGE

Ronald Hamelink, Asso. Prof	Lyman Briggs
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NATURAL SCIENCE

William C. Deal, Jr., Prof.	Biochemistry
Marvin M. Hensley, Prof.	Zoology
Roger A. Hoopingarner, Prof.	Entomology
*Frederick H. Horne, Asso. Prof.	Chemistry
Henry A. Imshaug, Prof.	Botany & Plant Path.
Daniel A. Moran, Asso. Prof.	Mathematics
Frank R. Peabody, Asso. Prof.	Microbiology & P.H.
Lester F. Wolterink, Prof.	Physiology

OSTEOPATHIC MEDICINE

*John Barson, Professor	Associate Dean
(R) J. Langdon Taylor, Asso. Prof.	Asst. Dean

SOCIAL SCIENCE

George Fairweather, Prof.	Psychology
Moreau S. Maxwell, Prof.	Anthropology
James B. McKee, Prof.	Sociology
*Lawrence M. Sommers, Prof.	Geography
Jack Stieber, Prof.	Labor & Ind. Relations

UNIVERSITY COLLEGE

(R) * Albert E. Levak, Prof.	Social Science
Floyd V. Monaghan, Prof.	Natural Science
John H. Reinoehl, Prof.	Humanities
Henry Silverman, Prof.	A T & L
Willard G. Warrington, Prof.	Evaluation Services

VETERINARY MEDICINE

Charles H. Cunningham, Prof.	Microbiology & P.H.
*Jerry B. Hook, Asso. Prof.	Pharmacology
Joseph Meites, Prof.	Physiology

NON-COLLEGE FACULTY

John E. Dietrich, Prof.	Provost's Office
Herman L. King, Prof.	Provost's Office
(R) * Gwendolyn Norrell, Prof.	Counseling Center

*Committee on Committees
(R) Re-elected

STEERING COMMITTEE OF THE FACULTY

James T. Bonnen, Prof. CHAIRMAN	Agricultural Economics
William D. Collings, Prof. Secy.	Physiology
Walter F. Johnson, Prof.	Admin. & Higher Educ.
Beatrice Paolucci, Prof.	Family Ecology
Dozier W. Thornton, Asso. Prof.	Psychology

APPOINTED COUNCIL

Milton E. Muelder	Vice President Research Development
	Dean of School for Advanced Graduate Studies
Lawrence L. Boger	Dean of College of Agriculture & Natural Resources
Richard E. Sullivan	Dean of College of Arts & Letters
Kullervo Louhi	Dean of College of Business
Herbert J. Oyer	Dean of College of Communication Arts
Keith Goldhammer	Dean of College of Education
Lawrence W. Von Tersch	Dean of College of Engineering
Lois A. Lund	Dean of College of Human Ecol.
Andrew D. Hunt, Jr.	Dean of College of Human Medicine
Robert F. Banks	Dean of James Madison College
D. Gordon Rohman	Dean of Justin Morrill College
Frederic B. Dutton	Dean of Lyman Briggs College
Richard U. Byerrum	Dean of College of Natural Science
Myron S. Magen	Dean of College of Osteopathic Med.
C. Leland Winder	Dean of College of Social Science
Edward A. Carlin	Dean of University College
Willis W. Armistead	Dean of College of Veterinary Medicine
Ralph H. Smuckler	Dean of International Programs
	Dean of Students

EX OFFICIO ACADEMIC COUNCIL MEMBERS 1972-1973

Eldon R. Nonnamaker	Vice President for Student Affairs
Ira Polley	Asst. Provost for Admissions & Records
Dorothy Arata	Asst. Provost for Undergraduate Educ.
Frank H. Blackington	Director of Honors College
Armand L. Hunter	Director of Continuing Education
Richard E. Chapin	Director of Libraries
James D. Rust	Ombudsman

COUNCIL STANDING COMMITTEE CHAIRMEN

Melvin C. Buschman	Academic Governance
Anne C. Garrison	Building, Lands, & Planning
Eleanor G. Huzar	Business Affairs
Leo G. Erickson	Curriculum Committee
Lester V. Manderscheid	Educational Policies
Frederick D. Williams	Fac. Affairs & Fac. Compensation
Wesley R. Fishel	Faculty Tenure
Martin C. Hawley	Honors Programs
Samuel A. Moore, II	International Projects
David D. Anderson	Library Committee
Louis A. Radelet	Public Safety
Ronald E. Mauter	Student Affairs

BULLETINS

VISITING POET

Richard Wilbur, a major poet and translator, will read at 8 p.m. Thursday, Jan 11 in Wonders Kiva. A reception will follow at the Pretzel Bell.

ART INTEREST

The Faculty Folk painting group will hold winter term instruction from 1 to 3 p.m. Mondays at Marble School, East Lansing. The instructor is Mrs. Claudine Bing, and all types of painting technique are included. Those interested in joining should contact Mrs. Thomas Kirk, 349-1888.

OBSERVATORY

The MSU Observatory will be open to the public from 8 to 10 p.m. Saturday, Jan. 20. Weather permitting, the 24-inch reflecting telescope will be used for observing celestial objects of current interest. Children under 13 are welcome if accompanied by at least one adult for each three children.

MSU PUBLICATIONS

"This is Michigan State University," a comprehensive statistical record of the University, and "Facts in Brief," a capsulized description of MSU, have been updated and reprinted. "Briefs," in larger supply, can be provided in quantity. For copies, call information Services, 5-2260.

PHI DELTA KAPPA

Phi Delta Kappa will hold its initiation and winter dinner at the Starboard Tack beginning at 6:30 p.m., Friday, Jan. 19. Virginia Wiseman, executive secretary of the College of Education graduate office, will be honored. Tickets are \$6.50. Further information can be obtained from the Graduate Office, 5-7346.

SCHOLARSHIP LUNCHEONS

Tickets for the Faculty Folk-Newcomers Scholarship Benefits to be held Wednesday, Feb. 14 and Friday, Feb. 16 are now available to members and guests for a wide variety of gourmet meals and parties following an international theme. The afternoon dessert bridge, luncheons and Coffee House will begin at 12:30 p.m. Evening dessert bridge and suppers will begin at 7:30 p.m. Friday evening is reserved for those who wish to attend as couples. For nursery reservations from noon to 3:30 p.m. phone Vita Takiff, 351-4134 by Feb. 7. For ticket information and reservations contact Mrs. Paul Nilsson, 372-1021; Mrs. Robert Blanks, 372-7350; or Mrs. Roy Wesselman, 349-9102. Proceeds provide scholarships for MSU coeds.

BAKE SALE

MSAU Day Care Center is sponsoring an international bake sale on Saturday, Jan. 20 from 10 a.m. to 3 p.m. at the Meridian Mall. The sale is being held to raise scholarship funds to help allay the cost of day care for student families.

BLACK WOMEN

The Black Women's Association of MSU will hold its monthly meeting at 5 p.m. Sunday, Jan. 14 in 31 Union. Gloria Smith and Louise Taylor and cochairmen.

ACADEMIC COUNCIL

The Academic Council will meet at 3:15 p.m., Tuesday, Jan. 16 in the Con Con Room, Center for International Programs. Coffee will be served to members at 2:50 p.m.

COMPUTING LAB HOURS

The Statistical Computing Laboratory (100C Wells) will be open for use by faculty members and students on Mondays, Wednesdays, and Thursdays from 1 to 5 p.m. and from 7:30 to 9:30 p.m., and on Tuesday from 1 to 4 p.m. and 7:30 to 9:30 p.m. The lab is open on Fridays from 1 to 4 p.m. only. Two electronic calculators are available as well as the rotary type Monroe Calculator. A graduate assistant from the Dept. of Statistics and Probability will be available to assist in the use of the calculators. For information, call 5-9589.

MUSCLES ALIVE!

The "Visiting Scholars in Medicine" series sponsored by the College of Osteopathic Medicine will feature a lecture by John V. Basmajian, professor of anatomy and director of the Emery University Regional Rehabilitation Research and Training Center, at 6:30 p.m., Wednesday, Jan. 17 in the Kellogg Center Centennial Room. His topic will be "Muscles Alive: Recent Electromyographic Progress." Dinner reservations may be made by calling 5-4737.

COFFEEHOUSE

Mariah folk and blues coffeehouse will open Thursday, Friday and Saturday, Jan. 11, 12, and 13, with shows at 8 and 10:30 p.m. in McDonel Kiva. Sonny Terry and Brownie McGhee plus the Bluegrass Extension Service will provide this week's entertainment. The grand opening will be held Saturday, Jan. 13 beginning with free Laurel and Hardy and W.C. Fields movies at 10 a.m. and open musician's workshop from 1 to 5 p.m. A flea market will also be held from 10 a.m. to 5 p.m. Admission is \$1.

SEMINARS

THURSDAY, JANUARY 11, 1973

Synthetic sounds and real music. R.A. Moog, 4:10 p.m., Erickson Kiva. **Physics.**

FRIDAY, JANUARY 12, 1973

Neuromuscular physiology of earthworms. Charles D. Drewes, 3 p.m., 145 Natural Science. **Zoology.**

MONDAY, JANUARY 15, 1973

Observations on dairying in Europe. Clinton E. Meadows, 12:30 p.m., 126 Anthony. **Dairy Science.**

Human prolactin: secretion and actions. Roger W. Turkington, Dept. of Medicine, U. of Wisconsin, 4 p.m., 216 Giltner. **Physiology.**

Photoactivation of O₂ evolving centers—a fundamental process? George M. Cheniae, Research Institute for Advanced Studies, Baltimore, 4:10 p.m., 101 Biochemistry. **Plant Research Laboratory.**

TUESDAY, JANUARY 16, 1973

Genetics of copolymerization. B.N. Shah, 4 p.m., 284 Engineering. **Chemical Engineering.**

Tree fruit breeding at Harrow—objectives and selection methods. R.E.C. Layne, fruit breeder, Canadian Dept. of Agriculture, Harrow, Ontario, 4 p.m., 209 Horticulture. **Horticulture**

Ecumenicalism in the explanation of *E. coli*'s energy coupling to entry processes. A.L. Koch, Dept. of Microbiology, Indiana U., 4:10 p.m., 146 Giltner. **Microbiology and Public Health.**

Aspects of activation of enzymes by monovalent cations. Clarence H. Suelter, 4 p.m., 449B Life Sciences. **Pharmacology**

Conditions related to maximum likelihood methods. V. Fabian, 4:10 p.m., 405A Wells. **Statistics and Probability.**

WEDNESDAY, JANUARY 17, 1973

Control of sugar beet root rot. C.L. Schneider, 4:10 p.m., 168 Plant Biology. **Botany and Plant Pathology.**

The impulse formation—conduction system of the heart. John W. Jones and Karl F. Yoshonis, 12:30 p.m., 214A Life Sciences. **Medicine.**

Minerals, man, and monuments. Bennett T. Sandefur, 12 p.m., 2W Owen. **MSU Business Women's Club.**

Social aspects of food productivity. Georg Borgstrom, 4:10 p.m., 101 Biochemistry. **Plant Research Laboratory.**

THURSDAY, JANUARY 18, 1973

Agricultural sector analysis of Colombia. Edward Daines, Bureau for Latin America, Agency for International Development, Washington, D.C., 3 p.m., 312 Agriculture. **Agricultural Economics.**

Oxygen toxicity, oxygen radicals, and superoxide dismutase. Irwin Fridovich, Dept. of Biochemistry, Duke U., 4:10 p.m., 101 Biochemistry. **Biochemistry.**

Winter hardiness of cereals. C.R. Olien, 4 p.m., 309 Agriculture. **Crop and Soil Sciences.**

Aquatic plant communities of hypereutrophic ponds. Clarence D. McNabb Jr., 1:30 p.m., 223 Natural Resources. **Fisheries and Wildlife.**

Effect of oral contraceptives on nutrition. M.G. Yang, 12:30 p.m., 206 Food Science. **Food Science and Human Nutrition.**

Abelian group matrices. D. Garbanati, Notre Dame, 4:10 p.m., 304A Wells. **Mathematics.**

Soft sphere models for ionic deformations or the atom, she's a fuzzy balla. Edward H. Carlson, 4:10 p.m., 120 Physics-Astronomy. **Physics.**

Psychophysics of musical tone quality. David L. Wessel, 4:15 p.m., 126 Psychology Research. **Psychology.**

FRIDAY, JANUARY 12, 1973

- 10 a.m. Board of Trustees meeting.
- 7:30 p.m. Hockey—MSU vs. Wisconsin. Ice Arena.
- 7:30 p.m. Wrestling—MSU vs. Indiana. IM Sports Arena.
- 8 p.m. "Little Green Men"—The theory of extraterrestrial intelligent life in the universe is the topic of a new program in the sky theatre. "Little Green Men" recognizes billions of stars which many scientists believe may contain solar systems similar to our own and raises possibilities of communication with life on other planets. Following the 8 p.m. shows, there will be a special presentation on the current sky followed by an outdoor observing session if weather permits. Abrams Planetarium.
- 10 p.m. "Little Green Men" (see above). Abrams Planetarium.

SATURDAY, JANUARY 13, 1973

- 1:30 p.m. Swimming—MSU vs. Wisconsin. Men's IM Pool.
- 2:30 p.m. "Little Green Men" (see Jan. 12). Abrams Planetarium.
- 4 p.m. Basketball—MSU vs. Michigan. Jenison Fieldhouse.
- 7:30 p.m. Hockey—MSU vs. Wisconsin. Ice Arena.
- 8 p.m. "Little Green Men" will be followed by a skywatching session (see Jan. 12). Abrams Planetarium.
- 8 p.m. World Travel Series—Hong Kong, with its bustling harbor and shopping paradise, and Macao, with its combination of Chinese and Portuguese flavor, are the subject of a film and lecture presentation by Ken Armstrong. Tickets may be purchased at the Union Ticket Office. Auditorium.
- 10 p.m. "Little Green Men" (see Jan. 12). Abrams Planetarium.

SUNDAY, JANUARY 14, 1973

- 4 p.m. "Little Green Men" (see Jan. 12). Abrams Planetarium.

TUESDAY, JANUARY 16, 1973

- 12 p.m. University Club luncheon—Robert Page, station manager of WKAR-TV, will discuss the adventures that he and his staff have had in starting telecasting on Channel 23.

- 8 p.m. International folkdancing—Instruction is followed by dancing at 9 p.m. 327 M.A.C.

THURSDAY, JANUARY 18, 1973

- 8:15 p.m. "Godspell," a musical based on the gospel according to Matthew, will be the first presentation of the Broadway Theatre Series for the new year. A 1971 Grammy Award winner, the show brings the Bible to life as a natural and free-style living experience. The score includes such hit songs as "Day by Day," "Save the People," and "By My Side." Tickets may be purchased at the Union Ticket Office. Auditorium.
- 8:15 p.m. The MSU Russian Chorus will perform a concert of liturgical, folk, and formally composed music under the direction of Denis Mickiewicz, associate professor of Russian language and literature. The concert is sponsored by the Russian and East European Studies Program and the Department of German and Russian. There is no charge for admission. Music Auditorium.

FRIDAY, JANUARY 19, 1973

- 7:30 p.m. Hockey—MSU vs. U.S. Air Force Academy. Ice Arena.
- 7:30 p.m. Gymnastics—MSU vs. Southern Illinois U. IM Sports Arena.
- 8 p.m. "Little Green Men" will be followed by a skywatching session (see Jan. 12). Abrams Planetarium.
- 10 p.m. "Little Green Men" (see Jan. 12). Abrams Planetarium.

SATURDAY, JANUARY 20, 1973

- 2 p.m. Swimming—MSU vs. Michigan. IM Pool.
- 2:30 p.m. "Little Green Men" (see Jan. 12). Abrams Planetarium.
- 7:30 p.m. Hockey—MSU vs. U.S. Air Force Academy. Ice Arena.
- 8 p.m. World Travel Series—Dick Reddy will lead travelers through "A Swedish Summer." Auditorium.
- 8 p.m. "Little Green Men" will be followed by a skywatching session (see Jan. 12). Abrams Planetarium.
- 10 p.m. "Little Green Men" (see Jan. 12). Abrams Planetarium.

CONFERENCES

- Jan. 12-14 Accreditation by Means of Continuing Self Survey
- Jan. 13-14 Instructor Labor Training Course
- Jan. 14-19 SSCI Executive Development Seminar
- Jan. 15-17 Michigan Turfgrass
- Jan. 15-19 Police Alcohol Training
- Jan. 15-19 Basic Life & Health Insurance Institute
- Jan 17-19 Highway Project Engineers Mgmt. Training
- Jan 20-21 Instructor Labor Training Course

All conferences will be held in Kellogg Center unless otherwise noted.

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

EXHIBITIONS

Kresge Art Center

Entrance Gallery: Photographs by Roger Funk, professor of photography in the Department of Art.

North Gallery: 44 prints on loan from the collection of Western Michigan University, including color lithographs, intaglios, serigraphs and photo-serigraphs from well-known artists, such as Claes Oldenberg, Jasper Johns, Roy Lichtenstein, Robert Indiana and Andy Warhol. New gallery hours are from 9 a.m. to 5 p.m. weekdays, 7 to 9 p.m. Tuesdays, and 1 to 4 p.m. Saturdays and Sundays.

Library

The January exhibit, "The Art of Printing," shows examples of the work of outstanding printers from the earliest to modern private presses. Printing week begins Jan. 10.

Museum

"Treasures from Two Continents" includes masks, carvings, silver crosses and other works from the artisans of Indonesia, China, Africa, and Ethiopia. They are from the Kline collection recently donated to the Museum.

Information on MSU events may be submitted for possible inclusion in the bulletins to Patricia Grauer, Dept. of Information Services, 109 Agriculture Hall, (517) 353-8819. Deadline for submitting information is noon Tuesday preceding the Thursday publication. The calendar of events will cover a 9-day period, Friday through Saturday.