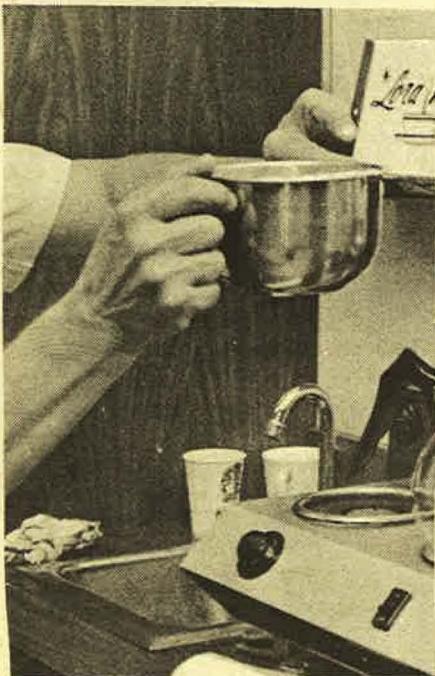


Admissions Commission sets fall hearings in four cities

The first in a series of public hearings called by the Presidential Commission on Admissions and Student Body Composition will be held Sept. 23 in Detroit, according to Ira Polley, consultant to the president and commission staff director.

Other public hearings are scheduled for Sept. 29 in Marquette and Oct. 19 in East Lansing. A hearing will also be held in Grand Rapids, on either Oct. 13 or Oct. 14, Polley said.



His hands . . .

. . . are his eyes, to a large extent. See page 2.

The commission has not met formally for several weeks, but Polley reported that the five subcommittees have been holding sessions throughout the summer.

Subcommittee reports will be made during fall term, with the first report expected in October from the subcommittee on the academic goals and future of the University.

Other subcommittees are studying admissions, procedures and standards; high risk students, minorities and open admissions; enrollment mix; and special programs.

Polley expressed hope that "all persons in the campus community will continue to follow developments of the commission and will offer their views to commission members."

New A-P appeal procedures to be considered by Board

A new hearing procedure for administrative - professional employees is scheduled to be considered at the Sept. 17 meeting of the Board of Trustees.

The procedure — which could be used in the case of termination, suspension or demotion of an A-P employee with at least a year's full - time employment — was tabled at the Board's July meeting after some trustees said they had not had adequate time to study the document.

* * *

HERE IS how the procedure would work:

An A-P employee who feels he has been unfairly discharged, demoted or suspended may appeal to the personnel director. The intent to appeal be made known within five working days after the employee is notified of impending action against him.

The personnel director or his representative will arrange, within five working days after receipt of the appeal notice, a meeting with the employee, a member of the Administrative - Professional Association (if the employee wishes), and the administrative head or representative head of the employee's department.

Within working five days after this meeting, the personnel director will issue his decision.

IF THE EMPLOYEE is not satisfied with the personnel director's decision, he can appeal the decision to a hearing board made up of two members of the A-P Association and two non-A-P persons selected by the executive vice president. The hearing is closed and confidential, and the parties may call witnesses.

The hearing board will issue its

findings within five working days after the hearing, and its findings will be binding unless the employee seeks arbitration.

If the employee requests arbitration, an arbitrator will be selected from a list of five arbitrators acceptable to both parties. The arbitration hearing is also closed and confidential, and the arbitrator's findings are binding on all parties.

Fees and expenses of the arbitrator shall be shared by the University and the employee, but if the result is in the employee's favor, the University will pay all costs.

Any finding in the employee's favor will also result in his immediate reinstatement without loss of employment status, wages and benefits.

University maps plans for water re-use

By PHILLIP MILLER
Science Editor, News Bureau

We mine, process and ship at considerable cost the very elements which raise havoc in our watercourses, lakes and oceans, says Howard A. Tanner, director of Michigan State's Campus Water Plan.

Sewage treatment is one example of how wastes of elements such as phosphorus and nitrogen — instead of being recycled into farmlands or into chemical houses — are being turned against us.

But a group of Michigan State scientists plans to build a 500-acre example of how sewage water can be used to benefit humankind.

The plan, already backed by grants totaling almost \$2 million from the Kresge, Ford and Rockefeller Foundations and the Michigan Legislature, calls for secondary effluent to be piped about five miles from the East Lansing Municipal Treatment Plant to the campus.

Three million gallons of the effluent will course slowly through four man - engineered depressions in the campus landscape. Result: Four lakes, some of which will be used for boating, fishing and other water recreation. Picnic sites will be at lakeside.

* * *

SINCE WHEN does a university get involved with community, state or national problems such as sewage disposal and pollution?

MSU and other universities on occasion remind people, sometimes themselves, that problem - solving has been vital to universities since their beginning. MSU calls it the "land - grant philosophy." Service to agriculture is one outstanding example of that philosophy.

"If we are to maintain a semblance of purity and acceptability in our rivers, lakes and Great Lakes, it is incumbent upon the University structure to contribute," says Tanner. "We have been working on scientific developments of new and imaginative methods for water quality for decades. Our new water quality plan is one culmination of that previous work."

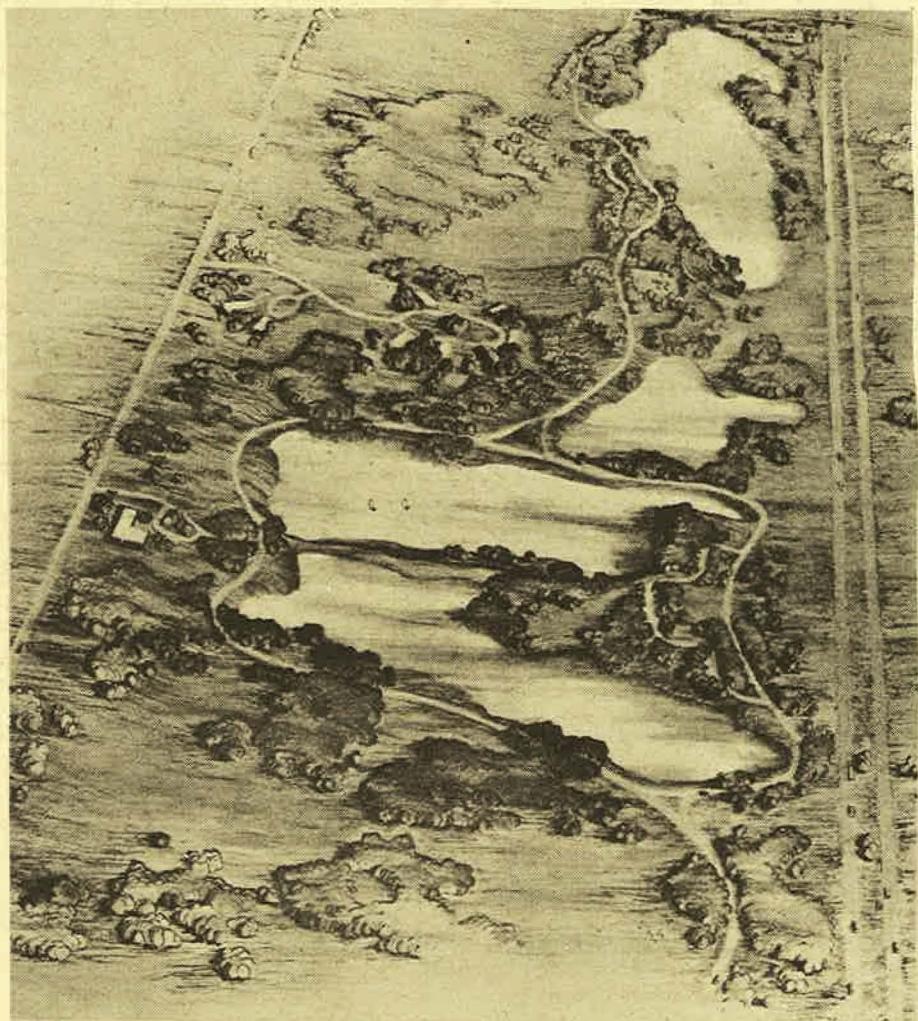
The Red Cedar River, which has a vital role in the MSU Campus Water Plan, is one of the most studied of rivers in the world. It has been the battleground for many a research project and a data-mine for many an MSU academic degree.

Now it will be getting something besides pollution in return. The Red Cedar will receive much of the purified water from the four-lake system on campus.

* * *

FIRST, THE nutrient - enriched water from the municipal plant goes via a 12-inch diameter pipe to the lakes.

(Continued on page 2)



Recycling waste water: The proposed lake development area bounded on the north (left) by Jolly Road, on the south (right) by I-96, and on the west (bottom) by College Road.

Don Paschke: A unique businessman

By GAIL MORRIS
Assistant Editor, News Bureau

When Don Paschke says he has to "look" at the new Braille lettering on the Administration Building's elevator panels, he surprises you.

And when he says he'd love to try water skiing, he means it.

Though blind since 18, Don believes that "there's not much you can't do if you set your mind to it." For 22 years, he made his way around Detroit as a door-to-door salesman — without the help of a leader dog. He can even drive a car, with directions from a passenger. And when his youngsters were small, he would skate with them on his back around the ice rink.

Four and a half years ago, Don moved his wife, who is also blind, and his family to Lansing to begin a new business career.

Today he singlehandedly operates the combination coffee lounge - lunch counter in the Hannah Administration Building — serving most of the building's 437 employees daily. The snack shop, offering everything from cigarettes, coffee and rolls to hot sandwiches, chili and goulash, grosses approximately \$3,300 a month.

* * *

SINCE THE University installed Braille lettering beside the new lighted floor buttons on the Administration Building elevators a few weeks ago, Don has had to rely again on his sense of touch to find his way to work on the second floor.

Ironically, no one told him that Braille was being added to the control panel. And the oversight sparked a frustrating dilemma now familiar to many building employees.

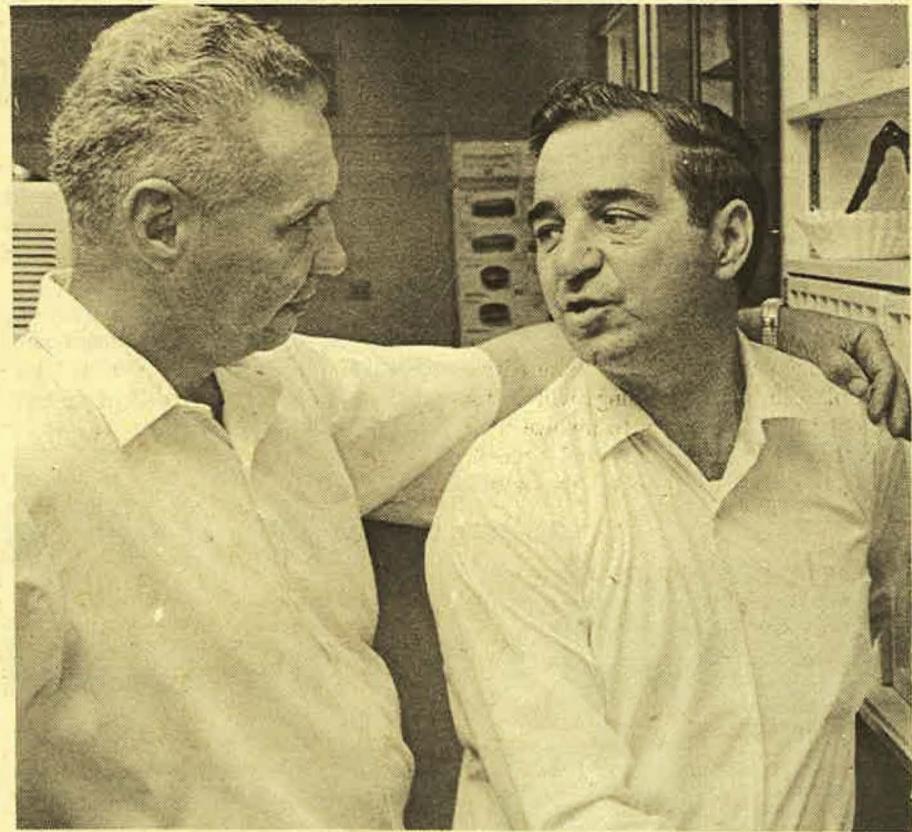
Jim Peters, assistant director of space utilization, heard the story from his secretary: Don ended down in the basement, instead of the second floor, when he tried to use the new panel directions for the first time.

"To tell you the truth," Don admitted, "I was kind of annoyed." He had learned how to feel for the old raised buttons. "Now I have to look at the Braille."

Because he was blessed with sight, albeit failing, for 18 years, he was able to read and study regular books and newspapers. Since his blindness, he has not used Braille very much.

* * *

LIKE HIS counterpart, the sighted self-employed businessman, Don puts in a



Lunch counter operator Don Paschke (left) with Vendor A. J. Tomlanovich: "There's not much you can't do if you set your mind to it."

— Photo by Bob Smith

long day, most of it on his feet — restocking counters and shelves, brewing fresh coffee, cleaning tables, and bringing smiles and chuckles to his appreciative customers.

"Most of the time, I feel good. I made up my mind a long time ago that you have to come to work so you may as well enjoy it."

"Sometimes I hear someone who's kind of grumpy, so I try to say something to cheer them up."

One of those somebodies touched and cheered by Don's concern for other people is Shirley Sleep, an office assistant in research and overseas contracts. A divorced mother of two, she drives Don from work to his home in southwest Lansing every night. And sometimes, she has a lot on her mind.

On just such a night, Don startled her when he said, "Come on, Shirley, smile."

"I couldn't imagine how he knew I wasn't smiling," she said. "But I wasn't. He seems to have a sixth sense about people."

Without his sight, Don, of course, has come to rely on other senses with an amazing degree of success that has not gone unnoticed by his customers.

"Don is the type of fellow who remembers the different things people do," says Lyle Ruth, from the business office. He explained, "I am usually humming a song or something when I come in to the snack shop, and before I say 'Hello,' Don says 'Hi, Lyle.'"

Lyle also noticed that Don always talks as if he had sight. For example, when discussing television programs, he will say, "I watched that program last night."

* * *

DON'S HANDS are his eyes to a large extent. And in combination with his sense of direction, they help him enjoy activities common to the sighted.

It amazed his over-the-back-fence neighbor, Jerry Jacobs, another MSU employee, to see Don shoveling his driveway last winter. Don also mows his own lawn, helps his wife hang out the laundry, and makes necessary repairs on their house.

Jerry watched in fascination one summer day recently as Don conducted a landscaping project in the back yard, the planting of three young trees.

"I doubt if you or I could have spaced them more evenly or in a straighter line," said Jerry.

It must have been his willingness to try anything that prompted this 49-year-old businessman to take the wheel one day while driving in Detroit suburbs with his brother.

"I drove right through Drayton Plains," he said, smiling broadly, "But it's not recommended."

And if someone gave him the chance, he probably would try waterskiing.

Water re-use . . .

(Continued from page 1)

Plants will strip nutrients from the wastewater as it passes through these lakes," says Tanner. "In this way, the wastewater will contribute to the production of plants that have potential equal to most forage crops as animal food. Thus, the plants will be harvested and their nutrient and economic values determined."

"To complete the nutrient extraction of the water we will use the lakes as a source of irrigation water for a land-plant complex. Here the water will be applied to forage crops, row crops, pine plantations, forested areas and natural plant successions. Each will be harvested and used."

Tanner continued:

"Excess water from the irrigation will enter the ground aquifers as pure water and aid in the recharge of a rapidly dwindling supply of ground water in the region. The aquifers are porous regions of sand, gravel or limestone."

"From their project will emerge subsidiary developments," says Tanner. "As competence and confidence grow, the amount and kinds of wastes to be recycled will be increased. We look forward to the time when this campus can, as a functioning community example, show the way to completely recycle all of our wastes."

Yugoslav seminar provides 'total educational experience'

(Editor's Note: Associate Editor Beverly Twitchell spent eight weeks this summer participating in the International Seminar in Comparative Journalism in Omis, Yugoslavia. Here is a report of her stay.)

The setting was probably ideal for almost anything except studying. The deep azure Adriatic Sea, the sun, the mountains, the slow and casual Dalmatian way of life . . .

Nevertheless, the 35 students who attended MSU's first International Seminar in Comparative Journalism in Omis, Yugoslavia, this summer were seen — books in hand — on the beach, on the terrace, in their rooms. And hours were found to work on the special independent projects, also required for the two-course seminar.

More often, students were in conversation with the 18 guest lecturers who came during the six weeks, representing nine nationalities.

Bill Bryson, food supervisor in Case Halls and a graduate student in political science, described the seminar as "much more of a living-learning concept, a total educational experience, than anything I have ever had in the past."

Don Christensen, agricultural marketing editor for information services and a graduate student in journalism, said he was impressed not only by the expertise of the lecturers — editors and correspondents from some of the top newspapers and broadcasting networks in the world — but also by their willingness to share their time in informal sessions.

* * *

THE SEMINAR was arranged and conducted by Stanley Smith, associate professor of journalism. Yugoslavia was selected as a course site because of Smith's familiarity with the country but also for its political and geographical accessibility to both western and eastern journalists.

During morning classes were lectures by the deputy director of Reuters, Doon Campbell; Mark Hopkins, Moscow

correspondent for the Milwaukee Journal and author of "Mass Media in the Soviet Union;" Iverach McDonald, associate editor of the London Times; and W. Harford Thomas, managing editor of the London-Manchester Guardian . . . and on . . .

Then the students' questions were posed: What are the pressures . . . ? What role does the government play? Questions concerning objectivity, propaganda, flexibility, revenues, journalism training. How did your country cover the Soviet invasion of Czechoslovakia? How can communication between the press of various countries be encouraged? . . . and on . . . It is difficult to describe the totality of the educational experience. We probed journalistic concerns with the speakers, but we found equal interest on both sides in other contemporary issues — racism, campus unrest, pollution. The discussions were sometimes broad, but more meaningful with the international contributions — interjections on various political-social struggles in Africa from Frank Barton of the International Press Institute; the industry (pollution) vs. tourism question in Yugoslavia, discussed with Richard Sudhalter, UPI correspondent in Belgrade; discussion on solutions to racism with Albert Georges Salvan, who had covered the Algerian revolution for Agence France Presse . . . and on . . .

And the climate . . . not only the sun and sea and sky and the beauty in soaking it all in . . . but the people. Being the first American group to stay in the small Yugoslav town was better, some students thought, than staying in London, Paris or Rome, not only because of the different culture, but very simply because of the direct contact with people.

It was, in all, as Don Christensen said, an opportunity to gain understanding of other newspapers, of other press philosophies and of other peoples.

Opening in fall

School offers 'alternatives'

By DEBORAH KRELL
Interim Associate Editor

Parents normally vow to give their children the things they themselves didn't have. But when it comes to elementary education, today's parents usually have been able to provide only as good as they received.

Starting next month, an "alternative school" in East Lansing will offer parents an opportunity to involve their children in a new educational concept that draws from some of the best-known advocates and institutions of educational reform.

The Paul Goodman Community School (named for the noted social critic whose books include "Growing Up Absurd"), was founded by James

and Marilyn Uleman and Gordon Smith to cater to students' interests. The Ulemans contend that learning grows out of these interests, so the school will teach no "subjects" — the children will decide what they want to learn.

"But it's not an elitist school or a 'hippie - freak - out' scene," James Uleman says.

* * *

THE NEW school will enroll 3-year-old to kindergarten-age children and will operate weekdays on a half-day basis. It has a day care license, but its founders want to avoid any parental notions to "love 'em and leave 'em" at school. They are demanding a strong commitment by parents.

The Ulemans and Smith plan to

actively involve themselves with the Goodman School. James Uleman, assistant professor of psychology at MSU, seems to be the school's spokesman; his wife Marilyn will be one of two teaching assistants, aiding Smith, who will be the school's teacher. Smith has an M.A. degree in educational psychology.

Twelve children have been enrolled so far for this fall, Marilyn Uleman said. The founders want 15 to start but will take no more than 25 for this first year.

* * *

THE ULEMANs say they believe that learning grows out of a child's own interests — "the teacher will be the conveyor of what the child wants to learn" and "the older kids can teach the younger kids," is how Uleman put it.

Added Mrs. Uleman: "We plan to approach a curriculum from the point of view of what children that age like to do."

As for learning aids, toys and school equipment, "there will be no fully equipped room — we hope the kids will equip them," she said.

"There will be some basic equipment," she continued, "the usual nursery school supplies. And, by the way, if anyone has any old radios and things, we'd like them — we need things that children like to take apart."

Mrs. Uleman said that various people from MSU and the community have volunteered their talents in areas like music and biology. "Some musically oriented people are going to try creative movement with the children," she said.

And in art, "We're going to supply them with lots of paint and paper and water — the materials that seem relevant," she said.

There will be no strict daily routine at the school. If the youngsters want to go to the library, "why, they'll go," Mrs. Uleman said.

* * *

SHE ADDED that evaluating each child will have to be done from a very subjective point of view. "There will be no standard evaluation — it doesn't seem relevant to the goals we see."

The Uleman's main concern for the school now is having somewhere to put it. They said that it appears they will be able to rent space from the public school system (James Uleman said one of the Paul Goodman School's goals is to have the public school system eventually adopt the same kind of "alternative school").

Mrs. Uleman said they thought about buying and renovating an old house, but "that involves us too permanently — we don't know if we want this, because we want to be incorporated into the school system."

But both Ulemans said that in order to introduce an idea such as theirs into the present school system, "some restructuring in the schools and in parents' ways of thinking" would be required.

* * *

TUITION FOR each child enrolled this first year will be \$500. "There will be no scholarships this year," Uleman said, "But we hope to be in the position to offer scholarships."

Two long-range goals for the Ulemans and the Paul Goodman School are a heterogeneous enrollment and federal funding.

Uleman said that he eventually wants to bring children from other economic and ethnic groups to the school. And, he added, "in the coming year, we have lots of important things to do — we've got to get funding."

WMSB

Tuesday, Aug. 25

7 p.m. JOAN MIRO. Works by the Spanish painter, graphic artist and sculptor.

Wednesday, Aug. 26

1 p.m. MAGGIE AND THE BEAUTIFUL MACHINE.

7 p.m. RECITAL HALL. Cellist Lawrence Brown and pianist Andrew Froelich.

Thursday, Aug. 27

12:30 p.m. MAN IN THE MIDDLE. Community health centers.

7 p.m. HERE, THERE AND EVERYWHERE. WMSB on remote.

Sunday, Aug. 30

11 a.m. EVENING AT POPS. Gershon Kingsley and his musical computers join the Boston Pops.

1 p.m. THE FORSYTE SAGA.

2 p.m. YOUR RIGHT TO SAY IT. Government farm programs.

2:30 p.m. CHICAGO FESTIVAL. City blues and downhome blues.

3 p.m. DOWNEAST SMILE-IN. Humorist Marshall Dodge.

3:30 p.m. NET FESTIVAL. Hollywood director George Cukor.

4:30 p.m. NET JOURNAL. Black Panther leader Bobby Seale.

10 p.m. EVENING AT POPS. The Romeros, four guitarists, join the Pops.

11 p.m. NET PLAYHOUSE. "Flowering Cherry," a man's obsessive dream destroys him and his family. (90 minutes)

Monday, Aug. 31

7 p.m. WHERE DO WE GO FROM HERE. The final program.

Tuesday, Sept. 1

7 p.m. EDWARD HOPPER. Selected paintings, etchings and watercolors.

7:15 p.m. STEINBERG: THE NEW WORLD. Cartoonist Saul Steinberg.

Wednesday, Sept. 2

1 p.m. MAGGIE AND THE BEAUTIFUL MACHINE.

7 p.m. RECITAL HALL. Pianist Joann Freeman performs.

Sunday, Sept. 6

1 p.m. THE FORSYTE SAGA.

2 p.m. YOUR RIGHT TO SAY IT. Hunger's two causes: poverty and affluence.

2:30 p.m. CHICAGO FESTIVAL. University of Illinois Jazz Band.

3 p.m. DOWNEAST SMILE-IN.

3:30 p.m. NET FESTIVAL. Filmmaking documentary focusing on the creation of Lindsay Anderson's "The White Bus."

10 p.m. EVENING AT POPS. The Boston Ballet Company and the Pops collaborate on "Peter and the Wolf."

11 p.m. NET PLAYHOUSE. "Anatol."

WKAR

Thursday, Aug. 25

1 p.m. (AM) LECTURE. Clark Kerr.

7:30 p.m. (FM) BOOKBEAT. James Dickey, author of "Deliverance."

8:30 p.m. (FM) BOSTON SYMPHONY.

Wednesday, Aug. 26

1 p.m. (AM) LECTURE. John E. Bardach, "The Marine Environment."

8 p.m. (FM) BBC THEATRE. "The Relapse."

Thursday, Aug. 27

11 a.m. (AM) SPECIAL. Musical documentary of broadcasting.

1 p.m. (AM) LECTURE. Paul Goodman, "Is American Democracy Viable?"

Friday, Aug. 28

1 p.m. (AM) LECTURE. Ira Gibbons, Howard University on strengthening the family.

10 p.m. (FM) SCHUBERT Mass No. 6.

Saturday, Aug. 29

1 p.m. (AM) URBAN CONFRONTATION. "What's Happening to American Blacks."

2 p.m. (FM) OPERA.

Sunday, Aug. 30

2 p.m. (AM-FM) CLEVELAND ORCHESTRA.

7 p.m. (FM) SPECIAL. Film critic Pauline Kael.

9 p.m. (FM) CONVERSATION. With Josef Krips.

Monday, Aug. 31

11 a.m. (FM) SPECIAL. First of a series on "Medicine and Social Responsibility," Paul Lowinger.

8 p.m. (FM) OPERA. "Orfeo."

Tuesday, Sept. 1

1 p.m. (AM) LECTURE. James Kunen, "Strawberry Statement."

8:30 p.m. (FM) BOSTON SYMPHONY.

Wednesday, Sept. 2

11 a.m. (AM) BOOKBEAT. With Nancy Milio, author of "9226 Kercheval."

1 p.m. (AM) LECTURE. Rene Dubos, "Man and Nature."

Thursday, Sept. 3

1 p.m. (AM) LECTURE. J.K. Galbraith, 1st of 3 lectures.

Saturday, Sept. 5

1 p.m. (AM) URBAN CONFRONTATION. Benjamin Spock.

2 p.m. (FM) OPERA. "Cosi Fan Tutte."

Sunday, Sept. 6

2 p.m. (AM-FM) CLEVELAND ORCHESTRA.

7 p.m. (FM) SPECIAL. Portrait of a motorcycle gang.



Marilyn Uleman and her charges: Letting children decide what to learn.
— Photo by Bob Smith

Faculty honors, projects

BILL L. KELL, professor of psychology and an assistant director of the Counseling Center, is coauthor of "Developmental Counseling and Therapy" (Houghton Mifflin Co., 1970). He wrote the book with Josephine Morse Burow, a former faculty member here.

JACK B. KINSINGER, professor and chairman of chemistry, has been named 1970 chairman of the American Chemical Society's Division of Polymer Chemistry.

MARK O. KISTLER, professor German and Russian, is the author of "Drama of the Storm and Stress," published in Twayne's World Authors Series.

JEANETTE A. LEE, dean of home economics, received an Outstanding Achievement Award from the University of Minnesota. The award is for former students of the university who have attained distinction in their profession or public service.

SHLOMO LIBESKIND, assistant professor of mathematics, is the author of a newly published teacher's manual accompanying "Excursions into Mathematics" (Worth Publishers, Inc.).

ELWOOD E. MILLER, associate professor of education, has been elected to the board of directors of the Department of Audiovisual Instruction of the National Education Association. He is director of the media institute in the Instructional Media Center.

July gifts and grants over \$3 million

July's gifts and grants — totaling \$3,390,832 — will support more than 65 faculty research and study projects.

Last month's largest grant of \$647,900 is from the National Science Foundation for research in design and management of environmental systems. H.E. Koenig, professor and chairman of electrical engineering and systems science, will direct the new program through the Colleges of Engineering and Natural Science, and the office of Research Development.

Two Agency for International Development grants will support a series of communications seminars (\$235,055) directed by Lawrence Sarbaugh, associate professor of communication, and will continue developmental programs in Turkey (\$155,636) directed by H.L. Case, professor in the Institute for International Studies in Education.

The National Institutes of Health provided funds for training programs in animal behavior (\$129,712, directed by J.C. Braddock, professor of zoology), in social work (\$60,840, directed by Max Bruck, professor of social work), and for pre- and post-doctoral work in biochemistry (\$102,341, directed by W.A. Wood, professor and chairman of biochemistry).

Two grants from the Atomic Energy Commission will support research in physics by Prof. Hugh McManus (\$81,000) and by Peter S. Signell (\$70,650).

Virginia Mallmann, assistant professor of microbiology and public health, will study animal tuberculosis through a \$73,000 grant from the U.S. Department of Agriculture.

Other research grants were awarded to: G. L. Johnson, agricultural economics, \$1,523 from U.S. AID to complete Nigerian Rural Development project; L. V. Manderscheid, agricultural economics, \$25,000 from Economic Research Service, USDA, to study impact of futures trading on cattle feeding industry; J. D. Shaffer, agricultural economics, \$4,000 from Economic Research Service, USDA, for evaluation of alternative distribution systems for agricultural chemistry industry in Michigan; Warren Vincent and Marvin Hayenga, agricultural economics, \$40,000 from Economic Research Service, USDA, for systems model of the hog-pork industry; H. F. Larzelere, agricultural economics, \$15,000 from Economic Research Service, USDA, to analyze fresh egg futures contract terms and specifications and J. R. Brake, agricultural economics, \$5,000 from the USDA to project demand, supply and use of land resources for rural purposes.

Seven grants totaling more than \$2,500 went to W. F. Meggitt in crops and soil science to evaluate the effects and effectiveness of various chemical herbicides.

Also receiving grants were: Grafton Trout, agricultural economics, \$13,200 from U.S. Department of Labor to study rural labor trends; H. E. Henderson, animal husbandry, \$7,200 to Rico Industries for research on development and evaluation of corn silage additives; M. L. Vitosh, J. F. Davis and B. D. Knezek, crop and soil sciences, \$500 from

Great Salt Lake Minerals & Chemical Corp. to investigate effectiveness of potassium on sweet corn, kidney beans and potatoes, and evaluate residual effect of potash on sandy loam soil; M. W. Adams, crop and soil sciences, \$1,000 from Michigan Crop Improvement Association to breed improved bean varieties; E. Everson, crop and soil sciences, \$1,000 from Michigan Crop Improvement Association to develop new wheat varieties; E. C. Rossman, crop and soil sciences, \$5,615 from Michigan Foundation Seed Association to develop improved corn hybrids, continue studies of corn breeding methods and genetics; and J. B. Beard, crop and soil sciences, \$4,500 from USGA Green Section Research & Education Fund, Inc. to investigate poa annua.

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Research grants were also awarded to: W. F. Meggitt, crop and soil sciences, \$800 from Velsicol Chemical Corp. to evaluate experimental herbicides for weed control in corn and soybeans; E. P. Whiteside and I. F. Schneider, crop and soil sciences, \$7,000 from Washtenaw County to assist in field mapping Washtenaw County; J. T. Huber, dairy, \$4,500 from Kraftco Research Labs to determine response of high producing dairy cows to high quality milk and whey protein; Robert Cook, dairy, \$19,514 from National Institutes of Health (NIH) to study biochemical control mechanisms regulating acetate metabolism in ruminants; L. G. Harmon, food science, \$6,804 from NIH to determine staphylococcal enterotoxins in foods; and M. J. Bukovac, horticulture, \$750 from Amchem Products, Inc., an unrestricted grant.

Other research grants were approved for: D. H. Dewey, horticulture, \$1,000 from Michigan Apple Committee, to improve internal quality of apples for fresh market and processing; A. R. Putnam, horticulture, \$350 from Velsicol Chemical Corp. for herbicide research; G. A. Petrides, fisheries and wildlife, \$3,000 from National Rifle Association for research of woodcock populations with Department of Natural Resources; J. W. Hanover, forestry, \$7,648 from U.S. Department of Health, Education and Welfare to determine kinds and amounts of volatile chemicals released to atmosphere and factors controlling their release; and R. S. Manthy, forestry, \$3,000 from U.S. Forest Service to develop estimates of wood products to be used in new single family housing units in North Central region from 1970 to 2000.

Additional grants were awarded for: Michael Chubb, park and recreational resources, \$6,558 from Waterways Commission, Michigan Department of Natural Resources, to complete analysis of recreational boating demand study information and project future boating demand in Michigan; G. W. Ferns, secondary education and curriculum, \$45,000 from

Michigan Department of Education to study vocational - technical professional personnel needs leading to developing of a plan of action for Michigan; O. B. Andersland, engineering research, \$3,992 from National Council of the Paper Industry for Air & Stream Improvement, Inc. to study soil mechanics related behavior of controlled experimental dewatered pulp and papermill clarifier sludge landfill; M. E. Stephenson, engineering research, \$33,185 from NIH to develop lab. model of sanitary landfill reacting system and measure components of products of decomposition process; and P. David Fisher, engineering research, \$8,000 from National Science Foundation (NSF) to establish new lab to improve solid-state electronics program.

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Other grants were approved for: Olaf Mickelsen, human nutrition and foods, \$41,484 from NIH to study effect of toxic substances in cycad products on central nervous system; Bruce Walker, anatomy, \$16,138 from Department of HEW to study histopathology of brain injury; J. I. Johnson, biophysics, \$23,587 from NIH for development of afferent centers of the brain; Barnett Rosenberg, biophysics, \$15,000 from Atomic Energy Commission to study solid state electrical properties of proteins and biological systems; J. E. Trosko, human development, \$26,500 from Atomic Energy Commission to study correlation between radiation and chemical induced molecular damages and their biological expression in mammalian cells; and C. H. Sander and J. R. Cipparone, pathology, \$1,000 from Michigan Department of Public Health to establish placental tissue Registry for State of Michigan with the Michigan State Medical Society.

Others receiving grants were: J. B. Hook, pharmacology, \$4,000 from American Hoechst Corp. for drug study of Furosemide; R. B. Spangenberg, physiology, \$5,000 from Michigan Heart Association to study role of renin angiotensin in plasma fluid loss secondary to postural changes in essential hypertensives; F. J. Haddy, physiology, \$38,709 from NIH to study cations, anions, and water on blood vessels; H. W. Overbeck, physiology, \$24,792 and \$14,769 from NIH for research career program development award and peripheral vascular responses in human hypertension; E. J. Klos, botany and plant pathology, \$1,500 from Chevron Chemical Co. to study activity of a fungicide on fruit; J. H. Hart, botany and plant pathology, \$5,000 from Reserve Plan, Inc., for research on wood pathology in Australia; and H. S. Potter, botany and plant pathology, \$600 from Rohm & Haas Co. to evaluate low volume application of dithiocarbamate fungicides.

Also receiving research grants were: James Bath, entomology, \$7,655 from NIH to

determine mechanism of virus transmission by efficient and inefficient aphid vectors; George McIntyre, entomology, \$5,000 from USDA Agricultural Research Service for insect survey control; R. F. Ruppel and M. E. Zabik, entomology, \$35,000 from USDA Agricultural Research Service to study responses of cereal leaf beetle to chemical and biological stimuli; H. W. Scott, geology, \$14,000, from NSF to excavate conodont animal beds in Montana; T. A. Vogel, geology, \$20,000 and \$5,000 from White Pine Copper Co. to investigate relationship between ore minerals and lithologies from White Pine Mines, and to study surface characteristics of copper minerals from White Pine Mine; and John Kinney, mathematics, \$10,000 from NSF for fractional dimensional properties of sets.

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Research grants were also awarded to: K. W. Kwun, mathematics, \$33,700 from NSF to study theory of manifolds and homotopy; T. E. Vance, mathematics, \$14,023 from U.S. Office of Education to improve math instruction in inner city high schools in Michigan; T. H. Edwards and C. D. Hause, physics, \$43,000 from NSF to measure and analyze infrared spectra of linear, axially symmetric and planar asymmetric molecules; Lynwood Clemens, zoology, \$20,300 from NIH to study role of progesterone in control of ovulation and reproductive behavior in laboratory rat; T. W. Taylor, Science and Mathematics Teaching Center, \$20,000 from Consumers Power Co. and \$20,000 from Detroit Edison Co. to provide lecture-demonstration program in cooperation with Oak Ridge Institute of Nuclear Studies; and Marc Swartz and Nancy Gray, Anthropology, \$16,986 from NIH to study legitimacy as a support in local level political processes.

Angus Howitt in entomology has received more than \$5,000 in grants from Dow Chemical Co., Hercules, Inc., and Nor-Am Agricultural Products, Inc., to evaluate the effects of various insecticides.

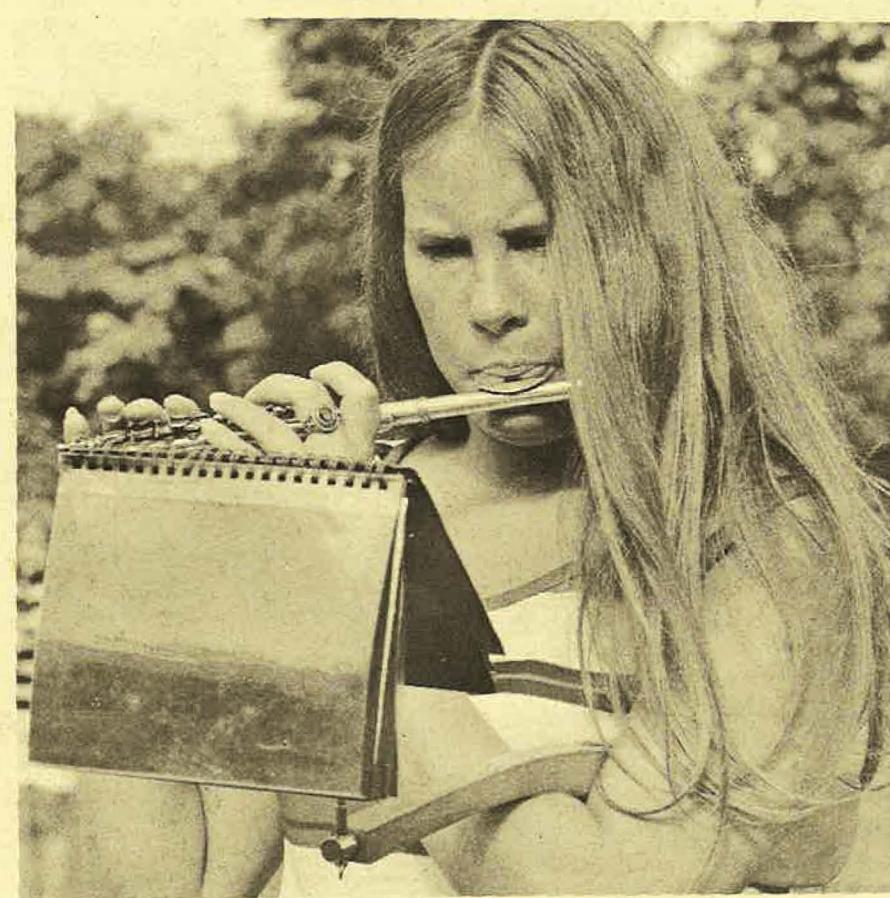
The following were also awarded grants: Paul Hain and LeRoy Ferguson, political science, \$1,700 from NSF to utilize interview data from state legislators in four states; M. E. Rilling, psychology, \$22,557 from NIH to analyze stimulus properties of fixed ratio schedules; Gordon Wood, psychology, \$12,953 from NIH for higher-order memory and free-recall learning; W. R. Dukelow, Center for Laboratory Animal Research, \$24,325 from NIH to control ovulation and capacitation in non-human primate; R. W. Van Pelt, large animal surgery and medicine, \$750 from Syntex Corp. for RS-2177 suspension injectable study; W. F. Keller, small animal surgery and medicine, \$328 from Parke, Davis & Co. for chloromycetin blood level study; W. J. Schoenl, humanities, \$1,425 from National Endowment for the Humanities for research in connection with project, "The Intellectual Crisis in English Catholicism, 1900-1901"; C. E. Cleland, Museum, \$100 from Maurice S. and Mary G. Pelto and \$1,900 from Little Traverse Regional Historical Society, Inc. to excavate archaeological sites in northwestern Michigan; and C. R. Wharton Jr., President's Office, \$15,000 from Carnegie Corp. of N.Y. to evaluate work of Presidential Commission on Admissions.

Prisoners' art exhibited here

"Serigraphs from Within" — an unusual exhibition of silk screen prints representing the work of 16 inmates from the State Prison of Southern Michigan — is on display through Sept. 8 in the south corridor of Kellogg Center.

The work is colorful and unusual, with expressive titles such as "I Have Loved Even You, Judas," "Peace on Earth," "Man," "Black Coalition," and others. The prints were picked from more than 200 done in a noncredit serigraphy course offered this spring by the MSU Department of Art and the Continuing Education Service.

Says William S. Gamble, associate professor of art who has been advising the prison's art program since 1962: "The outstanding quality of the work, as a whole, is its lack of slick styling or affectation. The work is honest and direct in its appeal."



She loves a parade

Her mind definitely on the music, this young lady is one of some 2,000 high school band musicians participating in three week-long Marching Band Clinics on the campus. Groups from 20 high schools have attended the sessions, which include Saturday morning public band shows on Old College Field. The clinics end Sept. 5.

— Photo by Dick Wesley

MSU Faculty News

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