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MSU News-Bulletin

Vol. 4, No. 34

Michigan State University

Sales tax liability extended

The University has paid the state Department of Treasury an additional \$21,363.33 in sales tax, retroactive to July 1, 1972, after state auditors determined the University was not charging and paying sales tax on all items it should.

According to Paul V. Rumpsa, University comptroller, University departments and agencies for which accounts are held at the University are being notified of the amounts for which they are responsible.

The University had already paid approximately \$164,000 in sales tax for the fiscal year which just ended, Rumpsa said. The problem arose on the sale of items to individuals or agencies which, unlike the University, are not tax exempt.

Michigan tax law reads that sales, not for resale, to nonprofit educational institutions are not taxable.

"We had agreed in the past," Rumpsa said, "that agencies (for which the University holds accounts) would enjoy the same tax status as the University. This audit brought about a change in attitude."

The comptroller said that sales tax now must be paid on such things as prescriptions at Olin Health Center, the rental of bowling shoes and ice skates, student telephone directories, yearbooks, football programs, all purchases by student organizations and employees' meals.

The state, however, did exempt ASMSU, the Council of Graduate Students, the Married Students Union of MSU, the Residence Halls Association, the Owen Hall Graduate Council and the campus radio from tax liability.

Rumpsa said the majority of the additional tax was for the rental of dormitory rooms for less than a (Continued on Page 5)

uncertain and nervous. The adult or "more mature" woman student, for example, is apt to feel that she has forgotten more than her college - age children know. The loss occasions no sense of pride; it nurtures fear that

The life and times of an adult

student taking courses for credit on a

university campus are more complex

than those of young people who wheel

into college on the momentum of

completing Grades 1 through 12 and

taking Scholastic Aptitude Test (SAT)

the adult students generally

demonstrate that they are

conscientious, eager, contented scholars,

capable of completing their studies,

getting those degrees, and going on to

for college, the mature person often is

At first, faced with actually applying

the next stages of their mature lives.

Once they have arrived on campus,

exams.

'The adult or "more mature" woman student, for example, is apt to feel that she has forgotten more than her college -age children know. The loss occasions no sense of pride...'

not only will she never get a 4.00 point in any course, but that her grades may be so lousy she'll be afraid to tell anybody about them.

This set of circumstances should not be taken to mean that she is any less serious about her college program than young people are about theirs. She may be much more serious.

Men and women who are adult students at MSU who want academic counseling turn up in the office of Mrs. Mildred Erickson in Ernst Bessey Hall. She herself got a "late" Ph.D. degree and has been advising "mature" students since 1965. Her doctoral dissertation, completed in 1968, is entitled "An Analysis of Selected Characteristics and Needs of Adult Undergraduate Students Attending Michigan State University Fall Term, 1966." stay where they are but improve their skills and, as before, some who fit no set categories.

"The spirit of the times has changed in many ways," she said. "The backgrounds of the adult students are different. For example we have fewer (Continued on Page 5)

House action pending

As the News - Bulletin went to press, the House of Representatives had not yet acted on MSU's appropriations for the 1973-74 fiscal year.



'Mature' students are 'making it'

with special friend's assistance



It did seem like a long way to come for a conference. But who knows! With some people's expense accounts anything is possible.

But alas! It was an error. The News-Bulletin reported in its June 28 edition that "hotel personnel managers working in the Republic of Singapore will meet on campus in July." However, the meeting is not on campus. Fact is, the meeting is in Singapore.

★ Loosely translated - We goofed!

Her eight years of counseling of those over 25 years of age, or those who feel like they're that old - "we're flexible," she says - has spanned enough time for her to be aware of a change in the spirit of the times.

In the mid - 1960s, she counseled many Vietnam veterans, Peace Corps veterans, GI widows. Now there are more divorced women and men, and widows, widowers, mothers of grown children, professionals who have "had it" with current careers but keep working until they can earn new degrees in off hours, professionals who want to Wednesday, the House Appropriations Committee recommended to the full House that MSU be given \$77.3 million for the fiscal year which began July 1. Included in that recommendation was \$6.6 million for the Agricultural Experiment Station and \$5.7 million for the Cooperative Extension Service.

The prospects for a college of law at MSU remain in doubt.

House consideration of the appropriationscomes after Senate approval on June 27 of \$77.3 million for the MSU general fund. Also included in Senate action was \$6.6 million for the Agricultural Experiment Station and \$5.7 million for the Cooperative Extension Service.

The Senate Appropriations Committee had recommended \$777,000 for the law school before the full Senate cut the money.

Much of the debate in the House Appropriations Committee centered around \$788,000 for the College of Urban Development which is scheduled to begin offering courses this fall.

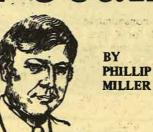
In testimony before the House Appropriations Committee last week, President Wharton emphasized MSU's record of educational service, efficiency and quality. He said MSU is deserving of equitable treatment and support.

Gov. Milliken recommended in February that MSU receive \$78,132,000 for the fiscal year, an increase of \$7.3 million over the 1972-73 appropriations.

Page 2, July 12, 1973

Unlock genetic codes Proton beams hold promise

Phillip E. Miller, Information Services science editor, recently attended a high-energy physics symposium sponsored by the Argonne Universities Association, of which MSU is a member, at the Argonne National Laboratory near Chicago. This is the first of two articles stemming from talks at that meeting.



ARGONNE,III. — Someday no one may have to wait for symptons of a genetic disease to creep up upon them. They may be genotyped when they

are born, or before.

And any other kind of disease may be discovered before it does serious damage to a person.

Two unions walk off in contract dispute

As the News - Bulletin went to press Wednesday, almost 1,500 labor - payroll and skilled trades employes had walked off their jobs at the University in a dispute over the extension of their unions' contracts which expired June 30.

American Federation of State, County and Municipal Employes (AFSCME) Local 999 voted Monday (July 9) not to report to work until a contract is signed with the University. The local represents some 225 skilled trades employes, including electricians, plumbers, elevator repairmen, welders and masons.

In a similar move, Local 1585 of the AFSCME, AFL-CIO, Council 7 voted Tuesday (July 10) to stay off their jobs. Local 1585 represents about 1,200 labor payroll employees in such positions as cooks, bakers, janitors, animal caretakers and truck drivers.

C. Keith Groty, assistant vice president for personnel and employee relations, said the University will continue to maintain essential services.

In the past, when a new contract agreement had not been reached by June 30, the old contract was extended on a day - to - day basis.

"In the past, the University had not been able to give its chief negotiator the authority to settle the contract before its expiration," Groty said. "But now circumstances have changed, and the chief negotiator was given the authority to settle the contract before its expiration, Groty said.

"The University had made every effort during the past two months to achieve

an agreement before the contract expired," Groty said.

"The University is willing to continue all wages and benefits from the expired contract, pending a new agreement," he said.

Groty said that both locals were sent letters April 24 notifying them the University would exercise a prerogative of the contract which allowed it to expire on June 30 without being extended.

Union officials, however, say that they were not notified in writing, as required, within 10 days of the termination of the contract. Both Local 999 and Local 1585 say that the first definite work they received was a letter dated July 2 in which the University said that because the contract had expired, and was not being extended, the University would not collect union dues until a new contract was settled.

contracts had ham

Negotiations on the two contracts had begun May 1. Further negotiaions with Local 1585 are scheduled for Saturday, and with Local 999 today.

Both locals have pledged to stay off their jobs until a settlement is reached.

According to Chuck Jennings, president of Local 999, there are still eight issues on the bargaining table.

* * *

Richard Kennedy, chief steward of Local 1585, said his local still has three main issues to be resolved: Economics (wages and cost - of - living allowances), subcontracting and medical benefits.

Two writers join staff of MSU News-Bulletin

How can such an early detection and prevention system be devised?

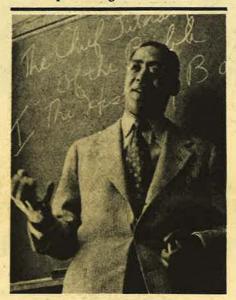
One way is to examine the individual atoms and molecules from body cells and sex cells of the human. Another is to check for disease-causing particles or germs.

The last method, of course, is already used. With microscopes, and with special containers which grow germs, scientists can detect disease - causing particles and germs.

But one weakness in the detection system is the vast area from the tiniest disease-causing particles, say the viruses, to the even smaller molecules and atoms. Hereditary histories and biochemical methods of today help, but still many diseases escape the physician's eye.

What good would it do the physician to know about the atoms and molecules in a person's cells?

For one thing, the genes are different from one individual to the other (except for identical twins.) So a genotype description of a person's hereditary material - DNA - could tell the physician what kinds of, if any, hereditary disease that the person might have.



Ex-prof president of college

David W. D. Dickson, who was a member of the MSU's English department from 1948-1963, will become president of Montclair State College in New Jarsey on Sent 1

College in New Jersey on Sept. 1. Dickson, a native of Portland, Maine, joined the English faculty in September, 1948 as an instructor. When he resigned in 1963, he was an associate professor.

While at MSU, he was selected by the faculty for the first annual

Diabetes, anemia, and defects which cause some mental diseases are a few examples. But probably there are many more unknown genetic deseases than known. Cancer and some other large category diseases are under suspicion of having hereditary links.

So what will be the magical tool which will reveal individual molecules and atoms?

Scientists, long ago, gave up on using light radiation to photograph such small substances. They have turned to radiations of beams with much smaller wavelengths than light. They have turned to beams of protons and electrons.

Recently the Argonne Universities Association (AUA) brought its high-energy physicists together to review progress in applications of such beams of protons and electrons, and other high-energy research.

AUA is an association of midwestern universities that includes MSU.

Their meeting, called the Symposium on Advanced Technology Arising from Particle Physics Research, held at Argonne National Laboratory near Chicago, brought reports from the University of Chicago that proton beams were already being tested for a possible new breed of super microscope. Such a proton microscope, they said, would have a resolution some 50 times better than the current top-of-the-line electron microscope - some of the latter being several stories high and of tremendous energies.

Currently, the best of the electron microscopes can detect only heavy atoms. Hope of the proton microscope is to detect virtually any kind of atom.

If this could be done then a diseased tissue could be examined and eventually, with better methods of analyzing bits of the genetic material called DNA, the proton microscope with computers - could read off the genetic code from cells of the diseased tissue to see what might be wrong.

But even if feasible, the proton microscope is at least years away, and a better method of analyzing only portions of huge DNA molecules remains a challenge.

Since an effective proton microscope has not yet been perfected, AUA scientists have another strong candidate already under use in the medical and research worlds. This is the Scanning Electron Microscope, or SEM. Already the SEM can detect single heavy atoms, but hopes are to describe the strands of DNA.

"Decoding DNA is one of our ultimate goals," said AUA researcher Joseph S. Wall, of the University of Chicago.

"Once being able to determine DNA code, then in principle at least, we can tie up diseased tissue with genetic alteration."

Already the SEM has been the first microscope able to show certain unstained biological molecules.

Two familiar News - Bulletin bylines have become part of the paper's masthead beginning with today's edition.

Janet Marsh relieved Sandra Dalka as associate editor July 1 after nine months in the News Bureau where she covered the College of Education, the

MSU News-Bulletin

Editor: Mike Morrison Associate Editor: Janet Marsh Calendar Editor: Janice Hayes

Editorial Offices: Rooms 314 and 315, Linton Hall, Michigan State University, East Lansing, Michigan 48823, Phone: 355-2285. Published weekly during the academic year and bi-weekly during the summer term by the Department of Information Services. Second-class postage paid at East Lansing, Michigan 48823. emerging College of Urban Development and several other key beats. She has been a regular contributor to the News -Bulletin.

She is a 1969 journalism graduate of MSU and joined the University News Bureau staff last fall after serving as city editor of the Ypsilanti Press.

Miss Dalka, who has served as associate editor for the past 14 months, left the University to join the National Bank of Detroit where she will become editor of the firm's publication "NBD News."

Janice Hayes, who has been a student editorial assistant for the past year, replaces Patrica Grauer as calendar editor. Miss Hayes graduated in journalism with a B.A. in June.

Mrs. Grauer is now associate editor for health and medical information in the Department of Information Services. Distinguished Teacher award in 1952. Additionally, he was awarded a U.S. education exchange grant for 1958-59 to serve as a visiting professor of English literature at Syrian University in Damascus.

In his new position, Dickson, who was selected from more than 600 candidates, will head the 13,500 student institution.

Dickson received his B. A. degree in 1941 from Bowdoin College; his M. A. and Ph.D. degrees from Howard University in 1942 and 1948, respectively.

In 1955-56, he won a Ford Faculty Fellowship for advanced study at Harvard.

Dickson has been dean of continuing and developing education at the State University of New York at Stony Brook for the last year, and before that was assistant to the president of that institution. Some of the more remarkable SEM's can identify atoms, give the average atomic weight and the average atomic number as well.

How does a SEM "see?"

It works by scanning an electron beam onto the target – much as a television tube gun scans its electron beam onto the television screen.

With the SEM the electrons which pass through the target can be analyzed, as well as the electrons which bounce off the target or interact with the target.

The most serious limitation of all electron microscopes, including a SEM is the devastating bombardment of the electrons on the sample being studied.

In any case, the electron beams have already served scientists and medicine well and proton beams may some day bring the tiniest of atoms into view. And then the molecular and atomic ways of disease may be understood.

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Around the campus: A summary

WKAR-FM changes evening listening

Late evening listening on WKAR-FM 90.5 Stereo took on a new sound July 2.

The primary change in the WKAR-FM schedule involved the expansion of the program "Audio Aftermath" to include a blend of progressive rock music, community service information and survivaltype features for the young adult. The program had been heard Friday nights for almost two years and has been expanded to Monday through Friday, 11 p.m. to 2 a.m.

"The program will be the only daily mass medium for a sizable group of young people in the area," according to Program Manager Steve Meuche. "Audio Aftermath,' the 'Takin' Care of Business' show for the black community and the Spanish language program 'Variedades en Espanol' each provides community services for a specific group of citizens who would otherwise be neglected by the media."

"The primary emphasis of WKAR-FM will remain on broadcasts of cultural music and the arts, but the expansion of 'Audio Aftermath' will help us to continue our public obligation to all persons who are not being adequately served by the broadcast media."

The popular "Radio Reader" with Dick Estell will be heard each weeknight at 10:30 in a repeat of the regular 9 a.m. program as a result of an increasing number of suggestions from WKAR listeners.

Another move in the evening schedule involves the jazz program hosted by Gary Lachn and formerly heard Thursday nights. The program of contemporary jazz from the familiar to the free - form will now be heard Sunday from 10 p.m. to 2 a.m.

"Firing Line," with the outspoken conservative William F. Buckley, Jr., is scheduled for 4 p.m. Sundays on WKAR-FM. The discussion program was previously heard 7 p.m. Fridays; WKAR-AM 870 airs the program Fridays at 1 p.m.

WKAR-FM Music Director David Harrison plays music that he can only describe as "rare, unusual and bizarre, at times not even qualifying as music," on the new program "Esoterica," at 9 p.m. Sundays, preceeding the jazz show.

On another new program, "Preview," Harrison looks at the events in the arts on the MSU campus and around mid - Michigan and samples some of the highlights on the day's FM schedule, weekday mornings from 9:30 to 10 a.m.

Music from one of last year's most significant jazz events, Switzerland's "Montreux Jazz Festival," will be heard at 7 p.m. Sundays, hosted by the "Jazz Priest," Father Norman J. O'Connor.

Completing the new additions to the WKAR-FM schedule is experimental, contemporary radio drama in stereo at 8 p.m. Sundays.

Noon classes slated

University College will schedule classes during the noon hour beginning in the fall to accommodate potential students, such as University employees, who cannot attend class during the regular working day.

The classes will run from 12:05 to 12:55, an arrangement that does not conform to the usual University schedule.

Those classes available will be American Thought and Language on a Monday - Wednesday - Thursday schedule, and Humanities and Social Science on a Monday through Thursday schedule.

Sherwood Anderson centenary is planned

Plans are underway to mark the 100th anniversary of the birth of Sherwood Anderson, midwest novelist and short story writer.

David D. Anderson, professor of American Thought and Language, and an authority on Anderson, is coordinator of the Sherwood Anderson Centenary to be held in 1976, with three major projects currently in preparation.

The MSU professor is president of the MSU based Society for the Study of Midwestern Literature, and editor of the "University College Quarterly."

Eleanor Anderson, of Marion, Va., widow of the author, is active in the preparations to mark the centennial.

Major projects include advocacy of a Sherwood Anderson commemorative stamp. Michigan Senators Griffin and Hart and Ohio Senators Saxbe and Taft are supporting the project, according to Prof. Anderson.

A commemorative conference is planned, to be held at MSU or an Ohio university.

A volume of 10 or 12 essays, tentatively entitled "Sherwood Anderson: The Dimensions of his Literary Art," is being compiled, and will be edited by Prof. Anderson.

Plans are beginning also to establish a Sherwood Anderson Society.

Sherwood Anderson (1876 - 1941) won initial fame with his "Winesburg, Ohio," a collection of short stories of life in a Midwest town not unlike Clyde, Ohio, where he lived for a number of years.

Conference to offer free ballet program

Area residents have a cultural treat in store -a free evening of ballet in the University Auditorium beginning at 7:30 p.m. Tuesday (July 17), under the auspices of the Cecchetti Ballet Conference and Seminar.

Three Michigan regional ballet companies will join outstanding students in the national conference and seminar, now underway on the campus, in putting on the performance. More than 70 dancers will provide the evening's entertainment. The program will present conference students in "La Sylphide" under the direction of Kirsten Ralov, dance master with the Royal Danish Ballet, Copenhagen, Denmark.

The Ann Arbor Civic Ballet, directed by Sylvia Hamer, will present Mozart's "Serenade" as choreographed by William Dollar, former choreographer and dancer with the New York City Ballet under the direction of Balachine.

The contemporary Civic Ballet Company of Royal Oak, under the direction of Rose Marie Floyd, will present a contemporary ballet to "Danse Macabre" by Saint-Saens, choreographed by the company director.

The Detroit City Ballet, under the direction of Marjorie Hassard, will present "Ballet Suite" by Shostakovitch, choreographed by Jon Rodriguez of the Dayton (Ohio) Ballet Company.

Take book trip





-Photo by Dick Wesley

PUT ME IN, COACH – The summer hiatus in athletic activities on campus leaves the ball yards empty but hasn't slowed the determination of a group of rats running for science in the Human Energy Research Laboratory in the Women's Intramural Building. Encouraged by mild electric prods to keep to their regimen, the rats are trained to run for as long as 50 minutes at a time in cylindrical cages. The aim is to help students and faculty in mechanical engineering, anatomy, physiology, human development, and health, physical education and recreation study the effects of exercise on bones and body tissue.

Maps, travel accounts, itineraries, illustrations and other guides and advice for the traveler from the 17th, 18th and 19th centuries are featured in "Faraway Places," a new exhibit at the library.

"Faraway Places," a new exhibit at the library. For example, "The Gentleman's Pocket Farrier" is described as "showing how to use your horse on a journey and what remedies are proper for common misfortunes that may befall him(the traveler) on the road."

Another must for the historical traveler is "The Traveler's Oracle; or Maxims for Locomotion Containing Precepts for Promoting the Pleasure and Hints for Preserving the Health." (That's just the title!)

"Faraway Places" is part of a continuing effort of the special collections division of the library to make the public aware of its vast resources.

Volumes in the special collections division may be used within the library which is open Monday through Friday from 8 a.m. - 10:50 p.m., Saturday 9 a.m. - 4:50 p.m. and Sunday 2 p.m. - 10:50 p.m.

'Ziggie's' papers on rocketry will be sent to Smithsonian

MSU's internationally known rockets expert and professor of mechanical engineering Maria Zbigniew von Krzywoblocki has accepted the invitation of the Smithsonian Institution to add his papers on rocketry and space exploration to the Smithsonian's National Air and Space Museum.

His scientific papers have been published in Poland, France, England, Canada and the United States. He is listed in the "World Who's Who in Science."

Professor Krzywoblocki is better known to faculty as "Ziggie" and to students as Professor Ziggie. The nickname was first given to him in 1940 by an English woman who billeted him and other Polish Air Force officers at her home during the Battle of Britain. Thos who insist on being formal say his name as Kree - show - block - ee.

He began his mathematical calculations on rocketry in 1927, and started the tests in 1932 while a cadet in the Polish Air Force. For three years he experimented with rocket - powered flights of gliders off the roof of a Polish military airfield base at Lwow near the Carpathian mountains. Papers he wrote than have been sent to the Smithsonian.

His other papers include five volumes on mathematical calculations – from 1958 to 1962 – for a manned space flight from the earth to the planet Mars. His mentor in the space map project was America's foremost space expert Wernher von Braun, then with the U.S. Army. Professor Ziggie was instrumental in bringing von Braun to the MSU campus in 1961 for a Lecture Concert Series talk and meeting with faculty and students.

Currently, when not teaching graduate courses on relativity and quantum fluid dynamics, Professor Ziggie works on a National Aeronautics and Space Administration (NASA) project, begun in June 1972, to solve turbulence problems of jet planes at 40,000 feet.

"The difficulties encountered in invisible Clear Air Turbulence (CAT) hopefully will be solved," he said. "After the mathematical calculations are completed tests will be made by NASA."

By academic standards, Professor Ziggie is twice a doctor and three times a master. He holds a Sc.D. in mathematics from the University of Lille in France (1955), and a Ph.D. in aeronautical engineering from the Polytechnic Institute of Brooklyn (1944).

His master's degrees are in aeronautical engineering from the Brooklyn Institute (1943), in applied mathematics from Brown University in Providence, R.I. (1945), and in pure mathematics from Stanford University in California (1946). He also holds a B.S. in mechanical engineering (1926) and a Diploma - Ingenieur (1936) from the Lemberg Institute of Technology in Poland.

He has taught at all those institutions and at the University of Illinois where in 1949 he received the "Best Teacher" award. He came to MSU in 1960.

His studies in mathematics at Warsaw University in Poland, begun in 1937, were interrupted by World War II. He served as lst Lieutenant in the Polish Air Force, first in Poland and then, as the fortunes of the Allied Forces shifted, in France and England. For part of the war years he was in Canada working with plane - making companies, and came to the United States in 1942.

He has held numerous posts as designed, engineer, stress analyst, aircraft engineer, physicist and consultant in Poland, France, Canada and the United States. In 1955 he was military attache at the U.S. Embassy in Paris.

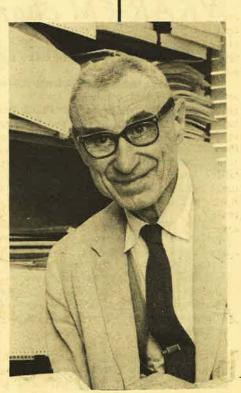
He has lectured at the Fermi Institute at Varenna, Italy, on invitation of the North Atlantic Treaty Organization (NATO) and the Italian Royal Academy of Science. As a representative of the United States Academy of Science, he has been an exchange professor at the Polish Academy of Sciences in Warsaw, and at the Rumanian Academy of Sciences in Bucharest. He has taken part in projects for the U.S. ArmyElectronics Command and the U.S. Navy Laboratory.

He holds membership in a number of scientific professional and honorary organizations.

He lives with his Polish - born wife in East Lansing.

Of "Skylab," he says, "my heart is there. If only I were younger...."

- FRAN MURRAY



'Professor Ziggie' works in his Engineering Building office, which is lined with computer print - outs.

Six new programs approved Curriculum Committee reviews accomplishments

The Academic Council has completed its duties for the 1972-73 academic year. Duties also are completed for the council's 12 standing committees with the completion of their annual reports. The News - Bulletin is planning a series highlighting the activities of the various standing committees. The Faculty Affairs and Faculty Compensation Committee's annual report was featured in the June 7 edition of the News - Bulletin. Today's report is on the University Curriculum Committee.

Michigan State's "Schedule of Courses and Academic Handbook," issued each term, reflects much of the work done by the University's Curriculum Committee (UCC).

Chaired by Leo G. Erickson, professor of marketing and transportation administration, the UCC, through its subcommittee structure as well as the full committee, held 33 regularly' scheduled meetings during the 1972-73 academic year. These meetings were devoted to consideration of requests from colleges and departments for new courses, new in agricultural education, dropping of the foreign language requirement, revision of the foods major in the College of Human Ecology, revising the B.S. degree program in architecture to a bachelor of landscape architecture, and extensive revisions in German and Russian languages, romance languages and geology. In the area of master's degree programs, the UCC recommended approval of four new programs and major curricular revisions of four programs.

The new programs are a master of arts in classroom learning and guidance, reestablishing the master of public administration, an M.A. for prospective

Procedure is aimed at biased comments

In a move to widen channels of communication between students and their teachers and advisors, the Office of Women's Programs has initiated an informal consciousness-raising procedure. It is seen as part of an effort to eliminate discriminatory remarks. writing the letter, what happened or was said, when it was said, who was involved, and whether it was a one-time incident or a recurrent problem."

Under the procedure, the letters will not be retained and the name of the writer need not be used, but the Office teachers in community colleges and an M.F.A. with a major in theatre.

Master's degree curricular revisions recommended by the UCC are in the areas of guidance and personnel services, including a name change to "counseling," German and Russian, romance languages and geology.

Two new doctoral programs were recommended by the UCC and approved by the Academic Council in agricultural mechanization science in the Department of Agricultural Engineering, and in genetics.

Approval was also given to revise the medical programs. These included modifications in requirements for the doctor of osteopathy, which involved restructuring of courses, reorganization of the veterinary medicine program, and restructuring of courses in human medicine.

A number of additional matters connected with curriculum were considered by UCC. These included general education, courses authorized but not offered for the past four years, multi - titled courses, and courses with contact hours different from credit hours.

curricula, modification of existing curricula and other matters related to curricula and courses.

Among the items considered and recommended to the Academic Council for approval were six new undergraduate programs:

* Natural resources and environmental education major and teaching minor.

*Clothing and textiles retailing major *Bachelor of arts degree with a major in linguistics

*Bio - medical engineering option

*Bachelor of science degree with a major in engineering arts

*Majors in the Departments of Racial and Ethnic Studies and Urban and Metropolitan Studies in the new College of Urban Development.

In addition to new programs, the UCC considered and recommended major undergraduate curricular revisions The Women's Advisory Council, which suggested the procedure, passed a statement at its meeting Monday on the intent and structure of the new procedure.

"The Women's Advisory Council," it reads, "is concerned about occurrences which may discourage women from pursuing particular career or interest opportunities. The council realizes that teachers and advisors may sometimes discourage women without intending to do so or making a conscious attempt to do so, yet the effect is discriminatory.

"If a student reacts to a remark which he or she feels is discouraging and discriminatory and which is made by a faculty or staff member in his or her professional capacity, the student is encouraged to send a detailed letter to the Office of Women's Programs, preferably with a copy to the faculty or staff member involved, indicating who is of Women's Programs will discuss the concerns privately with the faculty or staff member involved.

If the remarks continue and more letters are received, a review of the problem with the department head or dean will take place.

The council stressed this is an attempt at informal consciousness raising, and that formal discrimination complaints must be sent to the Anti-Discrimination Judicial Board, in care of Mary Sharp in the Department of Human Relations.

The proposal "for opening channels for communication" was originally submitted in May by the three student members of the council, Debbie Cool, Judy O'Hair and Mary Kay Scullion.

The next meeting of the Women's Advisory Committee will be at 8:30 a.m., Monday, July 16 in Room 443B, the Administration Building. In general education, the UCC is now ready to consider courses requested for approval under the new criteria approved by the Academic Council.

Instructions for submitting courses for approval for general education will be sent out to the departments as soon as the instructions are checked with the Education Policies Committee Subcommittee for General Education.

Courses authorized but not offered for the past four years are to be dropped from the catalog unless the administering department specifically requests approval for retention. The presumption is against automatically approving such requests, particularly for those courses which appear on lists for two consecutive years.

By ad hoc committee Field studies office proposed

More than 4,000 MSU students spend part of each school year working with community agencies here and abroad for course credit. Another 4,000 are in education or nursing programs and work in schools or hospitals.

This growing number of students in so - called "field studies," funding cutbacks and the call for accountability have prompted an ad hoc committee to propose that a new office be created in the Office of the Provost.

The Field Experience Facilitating Office would be responsible for three major programs: The MSU Volunteer Bureau, community based research/action programs and field experience placement programs.

John S. Duley, director of field studies in Justin Morrill College and a member of the Ad Hoc committee of Field Study, stressed that the office would facilitate, not coordinate.

None of the some 40 campus units offering field studies nor any community agency seeking students would be compelled to use the office. It would be there for their convenience and benefit and would rely on their cooperation.

Proposed duties for the new office would include assisting students, campus units and community agencies in discovering and developing field experience opportunities, and researching field study.

In explaining its recommendations, the committee writes, "Recent developments including federal government cutbacks of support for state and local social service agencies and the propsed internship program of the College of Urban Development intensify the need to deal with the problems identified in this study.

"The necessity for such facilitating office at MSU is heightened by increasing need expressed for more community based learning experiences by the students and leaders in higher education."

The cost of the new office is estimated at \$45,000 for a director, assistant director and secretary.

Possible sources of funding which have been mentioned are the campus units which offer field study or the community agencies who use the services of MSU field study students.

In addition to the staff, the

committee recommends an advisory board of representatives of campus field study coordinators and community organizations be appointed.

Among the benefits which the ad hoc committee predicts the new office could provide is the role it would play in lifelong education.

The proposal states that through academic work arranged through the office, new opportunities could be developed and offered for state and local government employees to earn credit toward advanced degrees and acquire skills to upgrade their jobs.

Students would have more opportunities for pre - professional experiences and to explore occupations. They would also have the opportunity to directly work for social change and to be involved in another culture or sub - culture of this society.

The professional growth and development of faculty and agency personnel would be enhanced by this interaction, the committee writers, also citing the "symbiotic roles in education" of the University and the "real world."

The committee lists eight ways the University would benefit from the creation of the office: (1) the duplication of efforts to arrange and supervise field placements could be minimized; (2) community resources could be more fully used; (3) lifelong education opportunities could be developed; (4) the University could improve its relationship with community agencies and increase its service;

(5) A consistent policy and realistic approach to the cost of field placement programs could be developed; (6) a means for evaluating program costs and appropriate faculty work loads in connection with field placement programs could be developed; (7) the centralized office could identify more field experience opportunities and (8) the establishment of the office would give MSU a means of developing state wide cooperation with other education institutions in providing field placement opportunities.

Currently, the Center for Alternatives in/for Higher Education which is operated by the United Ministries in Higher Education in cooperation with a number of university units, provides MSU students with information and advice on opportunities for non - traditional off - campus learning and service (See News Bulletin March 8, 1973).

Aware of the services of this center, the committee cited a study being funded by the Danforth Foundation to determine the feasibility of the center's functions being assumed by the University.

The proposal for the Field Experience Facilitating Office has gained support from government officials, including Donald Willis, acting director of the training division of the Michigan Civil Service Commission.

Adults finding college complex but they're 'making it' at MSU

(Continued from Page 1)

veterans. The economic times are different with a tighter job market; for many there is need to hang on to their jobs while preparing for new jobs.

"The philosophy of the young people and the philosophy of the adult students have changed: the young people seem more serious and dedicated and less convinced that change can come outside conventional channels, while the adults are more aware of and more open about their personal needs."

"Self actualization" is the key word today for older students, whether men or women, Mrs. Erickson said.

But college education does not come easy to "more mature" students because in most cases they live more complex lives than the young people attending a university.

A mature male student is apt to have a spouse and children and need to earn enough money to keep buying what's wanted or needed by all the members of the family.

A mature woman student may have a spouse and children and her own set of financial (who pays her tuition?), family and time problems. Or a student may be single, with the complications of not having parents to foot college bills.

Consider these predicaments:

- A woman whose best high school grades, a decade earlier, had been in mathematics and who, in the orientation on campus, scored only 27 out of 100 in the math and science portion.

- The hesitant 32 - year - old man who had hoped to learn note - taking from the students around him and who, in his first week of college, found he was with 600 others in a "Mickey Mouse": course and sleeping was popular.

- The women who couldn't prove she had made a start in college in Europe because the college and all its records had burned to the ground. (The Greek Embassy in Washington was helpful in that one.)

- The ex - family - farm owner who kept saying after a lecture in farm economics, "We just didn't ever talk that way. I'm not sure I know what those words mean." (He said he had left the farm, to become a teacher of

Hildebrand trial is expected

A trial is expected to be held this fall on a suit stemming from the denial of tenure to a former faculty member.

The trial follows a court hearing held Friday, July 6, at which Federal District Judge Albert J. Engel turned down a motion for a temporary injuction which would have reinstated John R. Hildebrand pending the outcome of the case.

Hildebrand, former associate professor of social science, has filed the suit against the Board of Trustees and five University officials charging that he was discharged for no legitimate reason and that he was not given any reasons in writing for the discharge. Hildebrand was denied tenure in September of 1968 and left the University payroll in September of 1969.

He unsuccessfully challenged the action in the University Tenure Committee and through other University channels, then took his case to the Michigan Employment Relations Commission which ruled that the University was not guilty of unfair labor practices.

For the last two years, Hildebrand's case has been inFederal District Court in Grand Rapids. The first court hearing on the case came last Dec. 18, at which the University asked for a dismissal of the case. That motion was denied in June.

farmers, partly because it was always so quiet with just his wife and those cows.)

- The Canadian adult woman, taking a survey course in American history, who was waiting to get the American version of the War of 1812, but missed all the lectures because one of her kids had an infected black eye that week.

- The mother of nine who took 30 years to get a bachelor's degree, after several of her children had graduated. (Undergraduate credits are good forever, unlike graduate credits that carry time limits.)

Mrs. Erickson was a member of the MSU task force created in February, 1972, to make recommendations on how the university can increase its priority to the education needs of those who are not within the conventional 18 to 22 - year - old, on - campus student category.

The report, recently submitted to President Wharton, included 67 formal recommendations to elevate lifelong learning on campus.

Mrs. Erickson points out that the cumulative needs of the adult students whom she continues to counsel underscore a real need for more and more university offerings at night, on weekends, at noon hours, in summer, at night in summer, on weekends in summer, and b'ocks of related courses so that commuters and area people can come to campus to take several courses consecutively.

consecutively. Some adults who went directly from high school to jobs, and now want to start university courses for a variety of reasons, have no idea how to start becoming a student.

"They've been out of school so long - they may be 30 or 40 or 50 or 60 -that they've forgotten any exam - taking skills they ever had, they're afraid they'll fail the entrance exam, they don't know if their high school grades count, or what counts out of all the practical or technical or special training they may have had one way or another while working," Mrs. Erickson said.

Sales tax liability is extended

(Continued from Page 1)

month and for employees' meals. Because full-time students rent rooms for more than a month, they are not subject to the tax.

Agencies with accounts at MSU, such as Michigan Classroom Television and United Ministries in Higher Education, in the future must have been determined by the state to be tax exempt before they will not be charged sales tax through their University accounts.

This was the first time the state had made a complete audit of MSU, Rumpsa said. In the past, partial audits had been made.

A spokesman for the state Department of Treasury explained that half of all sales tax revenue goes to the state's school aid fund, 3/8 goes to the state's general fund and 1/8 is returned to the city village or township in which it was collected. "All they seem to be sure of is that they want to come to college. Once they get in, they worry about a whole new set of things – how to take objective exams and essay exams, competing with the young students when exams are graded on the curve, whether they can get courses at hours when they can take them"

Some of the late comers include dropouts too; their reasons for dropping out are various.

One "mature" dropout seeking readmission explained his new ambitions, "I have discovered I'm getting too damned old to be fooling around."

-FRAN MURRAY

He has offered the services of his office for discovering, profiling and making placement opportunities available in the 19 state agencies related to it.

The ad hoc committee was created by Dorothy Arata, assistant provost for undergraduate education, almost a year ago. She has chaired its meetings.

Much of the groundwork for the ad hoc committee's study was laid by Sister Mary Ellen Quinn for her doctoral dissertation last year on field studies at MSU.

The ad hoc committee followed her procedure of not looking at education or nursing field study because it felt programs there were well established and had been functioning for a much longer time than most.

-JANET MARSH

Informal get-togethers evolve into chapter of world society

What began almost three years ago as a weekly, informal get - together of a small group of faculty and staff interested in talking about international issues has evolved into the formation of a full - fledged chapter of the world wide Society for International Development (SID).

SID was founded 16 years ago to provide a forum where persons from a variety of disciplines could exchange ideas and information on "problems related to the global development process."

It now has more than 6,000 members in some 110 nations, including government and agency officials,



TRODAHL

KUMATA

-Deaths-

Two prominent members of the Department of Communication died last week a day apart.

Professor Hideya Kumata died Friday morning in a local hospital after a long illness. He was 52.

An internationally recognized authority on cross-cultural communication, Kumata was a member of the faculty for 16 years, first as an associate professor in the communications Research Center and later as a professor in the International Communications Institute. He was director of the institute from 1967 to 1971.

Kumata received the MSU Distinguished Faculty Award, the University's highest honor, in 1967.

A native of Seattle, Washington, he held the B.A. and M.A. degrees from the state University of Iowa and the Ph.D. from the University of Illinois.

Kumata was a visiting professor at the International Christian University in Tokyo in 1963-64, and during 1971-72 was on leave to serve as a senior fellow at the East-West Center in Honolulu.

His writings include two books, "Four Theories of Propaganda" (with Wilbur Schramm) and "Inventory of Instructional Television Research."

He was a member of the American Sociological Association, the American Association for the Advancement of Science, and the Society for International Development. educators, social scientists, health officers, and physical and biological scientists.

Despite its affiliation with such a distinguished society, however, the MSU chapter plans to maintain the "low key" character of its meetings, says Richard Niehoff, chairman of the campus SID group and assistant dean of International Studies and Frograms.

Each weekly SID session is preceded by lunch – either cafeteria - style or "brown - bag" – in the Center for International Programs. A guest speaker makes a few general remarks, and the remainder of the meeting is devoted to a discussion focusing on the speaker's topic.

Attendance during the past year averaged about 25 persons per meeting, and the list of speakers included such on - campus specialists as food scientist Georg Borgstrom, psychiatrist Arnold Werner and China expert Joseph Lee, plus visiting lecturers from Costa Rica, Ethiopia and from the American Universities Field Staff.

The topics are just as varied, too, ranging from first - hand reports on Bangladesh and the 1972 summer Olympic Games to discussions of medical education in Liberia and agricultural reform in Chile.

While the campus SID officers, Neihoff and secretary - treasurer Bernard Wilder, encourage interested persons to join the society, they point out that membership is not required to attend the weekly luncheon discussions.

The noon sessions were begun in 1970 at the suggestion of Ralph Smuckler, dean of international studies and programs.

Niehoff says that while they have retained their informality, the SID meetings represent "the most continual campus forum of what is happening on the international scene. The scope is as broad as the international interests and activities of faculty and students."

Periodic evaluations of SID luncheons by the participants have "reaffirmed the desirability of continuing the program in its informal manner," adds Niehoff.

The weekly meetings have been suspended for the summer, but they are

scheduled to resume this fall, when MSU begins its first full year as an accredited chapter of SID. - GENE RIETFORS

Retirements

The Board of Trustees approved the following retirements at its June meeting (first year of MSU employment in parentheses):

Harry L. Case, Institute for International Studies in Education, July 1 (1967); Thomas K. Cowden, agricultural economics, July 1 (1949), who served as dean of the College of Agriculture and Natural Resources from July 1, 1954 - April 18, 1969; C. Raymond Hoglund, agricultural economics, Oct. 1, 1974 (1948), who will serve a one - year consultantship effective Oct. 1, 1973 - Sept. 30, 1974; and Elizabeth Rusk, secondary education and curriculum and English, July 1, 1974 (1953), who will serve a one - year consultantship effective July 1, 1973 - June 30, 1974.

Retiring with the title of associate professor emeritus is Charles F. McCaffree, health, physical education and recreation and director, men's swimming program, Intercollegiate Athletics, July 1, 1974 (1941), who will serve a one - year consultantship effective July 1, 1973 - June 30, 1974.

Other retirements were also approved for: Richard W. Bell, professor and assistant director, Cooperative Extension Service, Aug. 1 (1939); Robert L. Bell, maintenance supervisor, animal husbandry, July 1 (1949); Gail E. Bowers, county extension director, Cooperative Extension Service, Aug. 1 (1941); Herbert L. Griffith, painter, physical plant maintenance, June 1 (1953); F. Earl Haas, county extension director, Cooperative Extension Service, Aug. 1 (1935); Donald Hearl, district extension farm management agent, Cooperative Extension Service, Aug. 1 (1953); Edgar C. Kidd, extension agricultural agent, Cooperative Extension Service, July 1 (1948); Ingrid I. Tervonen, extension home economist, Cooperative Extension Service, Sept. 1 (1947); and Joseph A. VeCasey, locksmith, physical plant maintenance, July 1 (1951).

Achievements

GEORGE AMUNDSON, retired professor of agricultural engineering, has been named a Fellow of the American Society of Agricultural Engineers. An MSU agricultural engineer from 1922 until his retirement in 1958, Amundson is a private consultant in tile draining.

H. JOHN CAREW, chairman of the Department of Horticulture, received a Distinguished Alumni Award from Pennsylvania State University. Carew was one of 10 Penn State alumni selected for the honor based on his contributions to horticulture as an educator, scientist and author.

GUS GANAKAS, basketball coach, received a national tribute from the American Hellenic Educational Progressive Association. He is the recipient of the 1972 Harry Agganis Award emblematic of AHEPA's highest award to the Outstanding Greek -American in the field of athletics.

WILLIAM N. SHARPE, JR., associate professor of metallurgy, mechanics and materials science, has been named senior resident research associate with the National Research Council. The appointment, for 12 months, will begin Sept. 1.

HAROLD M. SOLLENBERGER, associate professor of accounting, has been awarded the Certificate of Merit for an article he submitted in an international manuscript competition in the field of management accounting. The title of Sollenberger's award winning article is "Systems Development: Internal Audit Participation in Project Control," to be published in the September issue of Management Accounting, a publication of the National Association of Accountants, which awarded the certificate.



WILLIAM LAZER, professor of marketing and transportation administration, is co-editor of two companion books for use by marketing students at both the graduate and undergraduate level. The books, co-edited by Eugene J. Kelley of Pennsylvania State University, are "Managerial Marketing" and "Social Marketing." They are published by Richard D. Irwin, Inc., Homewood, Ill.

MSU Positions Available

IMPORTANT: Administrative -Professional and Clerical - Technical applicants should contact the Employment Office at 353-4334 by July 17, 1973 and refer to the vacancy by the position number. Fuller descriptions of positions are available in departmental postings. Instructional staff applicants should contact departments noted.

FACULTY

549. Licensed Practical Nurse – Possession of license or proven ability as a lay person with knowledge of an operating room technician. Some previous hospital work experience. Ability to participate in in service education program. \$6,182 - 7,183

CLERICAL - TECHNICAL

550. Office Assistant IX - Good typist

(3 positions) Typing, shorthand, knowledge of Univ. procedures. \$6,267 - 7,389 - One position is half - time in afternoons. \$3,133 -3,694

560. Sr. Clerk - Typist V – Good typist. Knowledge of Univ. procedures. \$3,01 - 3.55 / hour

561. Dept. Secretary V - Excellent typist for manuscripts. Some dictaphone. \$6,267 -

Survivors include his widow, Lillian, and two daughters.

Professor Verling C. Troldahl, 40, died unexpectedly at his Okemos home Saturday afternoon.

He was a member of the faculty since 1962, and formerly directed the College of Communications Arts. Research Services Center.

He also served as a consultant to various firms, including the Market Opinion Research Co.

Troldahl received both the bachelor's and doctor's degrees from the University of Minnesota.

Survivors include his widow, Elizabeth, and two children, Eric and Lynn.

Other deaths include:

C. Standard

the state of the state of

Frank E. Wheeler, who joined the University in 1946 and retired as a maintenance supervisor at Shaw Hall in 1966, died July 3 at the age of 72. Assoc. Prof. of Education in Instructional Development and Technology (Ph.D. or Ed.D., Education) Background in Media, Curriculum and Instruction. Speciality: Instructional Systems.

Contact: Charles F. Schuller, Director Instructional Media Center

Instr. Ambulatory Clinic Section of Large Animal Veterinary Clinic (D.V.M.) License to practice in Michigan or willing to make application for license. Assist in part of the lab sessions in Clinic Skills.

> Contact: Dr. Fayne H. Oberst, Chmn., Dept. of Large Animal Surgery and Medicine

HEALTH PROFESSIONS

548. Sr. Medical Technologist X (3 positions) To work half - time. Registered ASCP Medical Technologist with at least 3 years experience. Must be able to work in hematology, chemistry, bacteriology sections and blood bank with little or no supervision. Must be able to work varied hours and take call. Operating knowledge of sophisticated laboratory equipment necessary. \$4.32 - 5.36 / hour able to transcribe from dictaphone. Must be able to assume responsibility. Experienced Sr. Dept. Secy. at MSU desirable. \$8,384 -10,418

551. Executive Secretary VIII – General management of office personnel; typing and occasional composing of correspondence; shorthand skills; knowledge of University procedures helpful. \$7,473 - 9,576

552. Executive Secretary VIII – Secretary to the Assistant to the Dean for Special Programs. Excellent typist and shorthand skills; light bookkeeping necessary. Dependability important. \$7,473 - 9,576

553 & 554. Sr. Dept. Secretary VII (2 positions) Shorthand, accurate typist; manage dept. and handle confidential materials. \$3.20 - 3.98 / hour or \$6,660 - 8,272

555. Research Aide VI – Required to design and conduct experiments on the effect of toxicants on fish. M.S. in fisheries biology and experience in bioassay procedure and fish culture. \$3.09 - 3.87 / hour

556. Dept. Secretary V - Good typist. Student contact. \$6,267 - 7.389

557-559. Senior Clerk - Stenographer V

7.389

562. Research Aide V – Responsible driver to provide transportation for clinic patients to and from hospital. \$3.01 - 3.55 / hour

563. Senior Clerk IV – Good typist to work in Health Center in Pontiac, Michigan. \$5,735 - 6,926

564. Research Aide IV – Must have good driving record and chauffers license to drive a van in off - campus transportation of handicapped students and patients. 2.76 - 3.33 / hour

565. Clerk - Stenographer II - Fast, accurate typist. \$5,511 - 6,562

566. Research Aide III (6 positions) Offcampus research interviewing. Two years college training desirable. Work about 5 months, \$2,65 - 3.15 / hour

567. Clerk - Typist II - Type 50 WPM. Accurate math. General clerical. \$5,400 -6,422

568. Nurse Aide I – High school graduate willing to learn. \$2.55 - 2.95 / hour

MICHIGAN STATE UNIVERSITY IS AN EQUAL OPPORTUNITY EMPLOYER

SEMINARS-

THURSDAY, JULY 12, 1973

Recent findings in olfactory receptors. Robert Gesteland, Department of Biological Sciences, Northwestern U., 4 p.m., 323 Chemistry. Biophysics Department and Neuro Science Program.

EXHIBITIONS-

HIDDEN LAKE GARDENS, TIPTON, MICHIGAN

One hundred thirty varieties of annual flowers including 114 petunia varieties are now on display in beds and containers. Woodlands, water and wild life are year-round features. Open daily 8 a.m. until sundown.

LIBRARY

"Faraway Places," a current exhibit at the library features maps, travel accounts, itineraries, illustrations and other guides and advice for the traveler from the 17th, 18th and 19th centuries. For example, "The Gentleman's Pocket Farrier" is described as "showing how to use your horse on a journey and what remedies are proper for common misfor-

BULLETINS-

NEW SWIM PROGRAMS

CHILDREN'S SWIM for youngsters

three years and older (toilet trained) will be held from 10 to 11 a.m. Mondays through Fridays at the Men's I.M. indoor pool. Parents are asked to accompany children. No charge for children, faculty or staff but spouses will be charged the regular 25 cent fee. FAMILY SWIM will be held from 4 to 5 p.m. Sundays at the Men's I.M. outdoor pool. Fifty cent charge per youngster (but total charges not to exceed \$1.00) to help defray the cost of additional life guards. Spouse I.D. cards available at the Intramural Office, 201 Men's I.M. for 25 cents. For additional information about either program call 5-5250.

HALF-TERM GRADES

Final grade cards for the half-term will be delivered to department offices Friday,

July 20, and should be checked immediately to determine if there is a card for each student. The grading systems are printed on the face of each class card. More detailed information is given on pages 95-97 of the 1973 Summer term Schedule of Courses and Academic Handbook. Final grade cards for the half-term are due in the Office of the Registrar, 150 Hannah Administration Bldg. 36 hours after final examinations are given. For the convenience of academic departments the Office of the Registrar will make pickups from departmental offices beginning Thursday, July 26. The final pickup will be made Monday, July 30, at 8 a.m. All grades are due no later than 11 a.m., Monday, July 30. For further information, please call 5-9596.

CONFERENCES-

June 24- July 28	Institute for Home Economics Population Education, Dormitory
July 1- Aug. 11	Clarion Writers Workshop, Dormitory
July 1- Aug. 26	Summer Figure Skaters, Dormitory
July 7-19	Cecchetti Ballet Conference, Union and Landon
July 8-21	High School Urban Journalism Workshop, Dormitory
July 8- Aug. 3	Telephone Engineering Conference
July 8-	Hospital Purchasing Agents
Aug. 10	Church Maria Wallahar
July 9-12	Church Music Workshop

THURSDAY, JULY 19, 1973

Food and Nutrition in Jamaica. Anita Dean, 12:30 p.m., 206 Food Science. Food Science and Human Nutrition.

tunes that may befall him (the traveler) on the road." Library hours are 8 a.m. to 10:50 p.m. weekdays, 9 a.m. to 4:50 p.m. Saturdays and 2 to 10:50 p.m. Sundays.

KRESGE ART GALLERY

Two small groupings of photographs by Richard E. Arentz and Lorenzo DeSantis are displayed in part of the entrance gallery. The summer exhibition, entitled "Gifts to the Collection," is on display in the last part of the entrance gallery and the north gallery. Gifts received during the past year (including works in various media) constitute the summer exhibition. Gallery hours are 9 a.m. to 5 p.m. weekdays, 7 to 9 p.m. Tuesdays, and 1 to 4 p.m. Saturdays and Sundays.

PAY CHECKS

If the mail service continues to be interrupted by the strike, payroll checks due

Friday, July 13, may be picked up by an authorized department representative at the Payroll Division, Room 350, Hannah Administration Bldg. Graduate assistant checks will be available after 8 a.m. and student labor checks after 11:30 a.m.

WOMEN GOLFERS

There's still time to join the All-University Women's Golf League and enjoy

eight full weeks of golf recreation with new university friends. League membership is open to all women-regardless of golf ability-who are faculty, staff, graduate assistants, retirees or wives of faculty. Play with the league at 5 p.m. on Thursday, July 19. Following play, the league will gather for a cook-out and awards at the Arboretum (Mt. Hope Road). For information call Gail Morris at 3-8851 or Elizabeth Anderson at 5-9580.

FALL ENROLLMENT

Enrollment materials for fall term are now available for pickup by summer

term students in Room 150 Hannah Administration Bldg. Fall enrollment materials have been mailed to those students no registered during the summer. All Registration Section Request Forms for fall term should be returned to the Office of the Registrar, Room 150, Hannah Administration Bldg. no later than Wednesday, Aug. 15.



Workshop for Improving Public Health Nursing, Life Science July 9-20 Technical Accident Investigation, Dormitory July 9-20 July 13 Mich. Assn. School Boards Delegate Assembly July 13-19 Cecchetti Ballet Seminar, Kellogg and Union July 14 National Ski Patrol July 16-17 **Ralston Purina Workshop** F.H.A. Impact in Michigan, Dormitory July 16-20 National Association of Regulatory Utility Commissions July 16-27 July 17-20 4-H Club Youth Week, Dormitory July 23-25 Michigan Agriculture Teachers, Dormitory July 23-Great Lakes Church Leadership School, Dormitory Aug. 3 July 24-15 Management by Objectives for School Administrators

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.

A youngster practices skating techniques at the Summer Figure Skaters Conference being held at the Ice Arena through August 26-but anyone can brush up their performance on the ice at the open skating sessions, 3:30 to 5 p.m. daily, and 8:30 to 10 p.m. daily except Sunday during July and August.

An up-to-date recorded capsule summary of campus events is available by dialing 353-4343. For more specific information, please call 353-8700.

MICHIGAN STATE UNIVERSITY

Calendar of Events

THURSDAY, JULY 12, 1973

10 a.m. "Goals for Women in Science" will be aired on WKAR-FM.

- 8 p.m. Carillon concert—Wendell Westcott will perform on the 47bell Beaumont Tower Carillon. The tower will be open so visitors can watch him play, and he will conduct tours following the performance. It is suggested that listeners remain several hundred feet from the tower to hear the bells most effectively.
- 8:30 p.m. Summer Circle Theatre presents the internationally acclaimed comedy entitled "The Jumbled Heads," directed by Farley Richmond. Free admission. Kresge Court Theatre. In case of rain, the performance will move to the Arena Theatre.

FRIDAY, JULY 13, 1973

- 7:30 p.m. Summer Youth Music Festival II faculty recital. Music Auditorium.
- 8 p.m. "Astrology and the Zodiac," enters the Age of Aquarius and explores the fascinating subject of astrology and the lore of its zodiac. Learn the intriguing history of the ancient practice of astrology and the influence of the stars on 'human affairs and terrestrial events. Following the 8 p.m. show there will be a brief presentation for skywatchers. Tickets available 30 minutes before show time. No preschoolers. Abrams Planetarium.
- 8:30 p.m. Summer Circle Theatre presents "The Jumbled Heads" (see July 12). Kresge Court Theatre.

10 p.m. "Astrology and the Zodiac" (see above). Abrams Planetarium.

SATURDAY, JULY 14, 1973

- 2:30 p.m. "Astrology and the Zodiac" (see July 13). Abrams Planetarium.
- 8 p.m. "Astrology and the Zodiac" (see July 13). Abrams Planetarium.

8:30 p.m. Summer Circle Theatre presents "The Jumbled Heads" (see July 12). Kresge Court Theatre.

10 p.m. "Astrology and the Zodiac" (see July 13). Abrams Planetarium.

SUNDAY, JULY 15, 1973

- 2 p.m. Graduate recital—Allen Dilley, Clarinetist. Music Auditorium.
- 4 p.m. "Astrology and the Zodiac" (see July 13). Abrams Planetarium.
- 4 p.m. Carillon concert (see July 12). Beaumont Tower.
- 8:30 p.m. Summer Circle Theatre "The Jumbled Heads" (see July 12). Kresge Court Theatre.

MONDAY. JULY 16, 1973

- 7 p.m. Outdoor "pop concert" performed by the Summer Youth Music Festival II concert and jazz bands. Gardens east of Music Bldg.
- 8:15 p.m. Graduate recital—Virginia Lowery, woodwind specialist. Music Auditorium.

TUESDAY, JULY 17, 1973

12 p.m. University Club luncheon—Allan Mandelstamm, professor of economics, will speak on "An Investor's View of Current Domestic Political and Economic Forces" as the final part of a colloquy on personal investments in an atmosphere of political and economic uncertainty. Reservations appreciated, phone 3-

Warner Brothers. The score includes "No Love, No Nothing" and "The Lady in the Tutti-Frutti Hat" which serves as the basis for the renowned "banana number." The kaleidoscopic finale is said to predate today's light shows by 30 years. Admission is \$1.25. Fairchild Theatre.

- 7:30 p.m. Summer Youth Music Festival II student recital. Music Auditorium.
- 8:30 p.m. Summer Circle Theatre presents "Macbeth." Free admission. Kresge Court Theatre. In case of rain, the performance will move to the Arena Theatre.

9:15 p.m. "The Gang's All Here" (see above). Fairchild Theatre.

THURSDAY, JULY 19, 1973

- 6:30 p.m. Old-time band concert. Summer band includes a number of high school band directors and University music faculty members. Kenneth Bloomquist, director of bands, is conducting. Free admission. Garden area between Music Bldg. and Beaumont Tower.
 7:30 p.m. Summer Youth Music Festival II jazz concert. Music Auditorium.
 8 p.m. Carillon concert (see July 12). Beaumont Tower.
 8:30 p.m. Summer Circle Theatre "Macbeth" (see July 18). Kresge Court Theatre.
 FRIDAY, JULY 20, 1973
- 8 p.m. "Astrology and the Zodiac" (see July 13). Abrams Planetarium.
- 8:30 p.m. Summer Circle Theatre "Macbeth" (see July 18). Kresge Court Theatre.
- 10 p.m. "Astrology and the Zodiac" (see July 13). Abrams Planetarium.

SATURDAY, JULY 21, 1973

- 1:30 p.m. Summer Youth Music Festival II presents its final chorus, band and orchestra concerts. Auditorium.
- 2:30 p.m. "Astrology and the Zodiac" (see July 13). Abrams Planetarium.
- 8:00 p.m. "Astrology and the Zodiac" (see July 13). Abrams Planetarium.
- 8:30 p.m. Summer Circle Theatre "Macbeth" (see July 18). Kresge Court Theatre.
- 9:30 p.m. The Observatory will be open to the public from 9:30 to 11:30 p.m. Weather permitting, the 24-inch reflecting telescope will be used for observing celestial objects of current interest. Children under age 13 are welcome if accompanied by one adult for every three children.
- 10 p.m. "Astrology and the Zodiac" (see July 13). Abrams Planetarium.

SUNDAY, JULY 22, 1973

- 4 p.m. "Astrology and the Zodiac" (see July 13). Abrams Planetarium.
- 4 p.m. Carillon concert (see July 12). Beaumont Tower.

TUESDAY, JULY 24, 1973

8 p.m. Carillon concert (see July 12). Beaumont Tower.

WEDNESDAY, JULY 25, 1973

- 7 p.m. Film series "Director's Choice" presents "The Point," an enchanting animated fantasy that deals with the adventures of a young boy named Oblio and his faithful dog Arrow, written, composed and performed by Harry Nilsson. In the Land of
- 5111.
- 7:30 p.m. "La Sylthide"—an evening of ballet sponsored by the Contemporary Ballet of Royal Oak, the Detroit City Ballet, and the Ann Arbor Civic Ballet. Free admission. Auditorium.
- 7:30 p.m. Summer Youth Music Festival II student recital. Music Auditorium.
- 8 p.m. Carillon concert (see July 12). Beaumont Tower.

WEDNESDAY, JULY 18, 1973

7 p.m. Film series "Director's Choice" presents "The Gang's All Here," an Alice Faye-Carmen Miranda extravanganza which is director Busby Berkeley's only color film and has all the lavishness and abandon of his 1930's black and white films for

Point, everything and everyone is pointed-except Oblio. Because of his round head, Oblio is exiled to the Pointless Forest where he has several fantastic experiences. Admission is \$1.25. Fairchild Theatre. "The Point" (see above). Fairchild Theatre. 9:15 p.m. THURSDAY, JULY 26, 1973 Carillon concert (see July 12). Beaumont Tower. 8 p.m. FRIDAY, JULY 27, 1973 8 p.m. "Astrology and the Zodiac" (see July 13). Abrams Planetarium. 10 p.m. "Astrology and the Zodiac" (see July 13). Abrams Planetarium.

Information on MSU events may be submitted for possible inclusion in the bulletins to Janice Hayes, Dept. of Information Service, 109 Agriculture Hall. (517) 353-8819. Deadline for submitting information is noon Tuesday preceding the Thursday publication.