MSU freshmen close to national ‘average’

MSU freshmen had better high school grades than most other freshmen across the country, according to statistics compiled by the American Council on Education. The report noted that 72.7 percent of the freshmen who entered MSU last fall ranked in the top quarter of their high school classes, compared to 64.3 percent nationally.

The survey of 4,766 MSU freshmen explored their backgrounds, social views, and ambitions and compared them with freshmen at 325 other American colleges and universities.

MSU enroll nearly twice the national percentage of blacks (6.7 percent against 3.8 percent nationally).

In almost all of the other areas researched, the campus group closely reflected the national norm. A composite picture of the “average” MSU freshman looks something like this:

- He is 18 years old, and was reared less than 100 miles from the MSU campus. His family’s income falls between $10,000 and $15,000 per year. He relies primarily on his parents for financial support, but does not regard money as a major concern.

- His father had college training and is now employed as either a businessman, engineer, or as a day worker.

- He classified himself as liberal to moderate, but not enthusiastic for, classroom TV. His father has college training and is now employed as either a businessman, engineer, or as a day worker.

- He plans to register and vote in the 1972 presidential election.

- He has not demonstrated for any political cause, but believes there is something he can do personally to change society. He feels strongly about a number of social issues, particularly pollution, population growth, and women’s rights (even male respondents emphasized equal job opportunities for women above all other social issues they were asked about except pollution control).

(Continued on page 4)

Classroom TV: More sophisticated, a wider variety of uses and users

The use of television in MSU’s classrooms continues to grow while it gets smaller. While the University’s Instructional Television Services (formerly called Closed Circuit Television) are being put to more and varied uses, the number of student credit hours taught on TV is decreasing.

And both of these facts reflect what much of higher education is trying to do: Encourage individualized and specialized instruction, and, when feasible, move away from the large lecture sessions.

Erting Jorgensen, director of instructional television (ITV), reports that in 1970-71 the number of courses using TV and their total enrollment increased over 1969-70. But the total of TV student credit hours dropped by some 23 percent to its lowest level in five years. The resulting swing toward more selective and use of classroom TV actually increases the demands on the people and the equipment in Instructional Television Services, Jorgensen says, although the number of people in ITV has decreased in recent years.

SOON AFTER IT was introduced here some 15 years ago, Jorgensen says, television was widely used—but almost exclusively to transmit lectures from one classroom to more classrooms. Capitalizing on the versatility of TV has been a more gradual process.

Today instructional television is reaching a new level of sophistication. Jorgensen points to a number of ITV projects that involve selective use of TV in the classroom.

In one geography course, Jorgensen reports, a heavy emphasis on TV’s unique abilities—present slides, film and animation in a single presentation—prompted students to report that in at least one course they preferred the TV material to that once provided in a live lecture. That’s a marked change from earlier studies in which students reported acceptance of, but not enthusiasm for, classroom TV.

INSTRUCTIONAL TELEVISION’S new emphasis on production rather than distribution is reflected in Jorgensen’s annual report:

* Revision of a beginning shorthand course into 36 videotaped lessons that (Continued on page 5)

Health, pregnancy plans proposed by A-P group

A family health plan and a pregnancy benefits plan have been proposed by the Administrative-Professional Association’s Executive Group and submitted to Executive Vice President Jack Breslin.

Although AP Association officers said they have not yet received a response to their proposal, the assistant director of equal opportunity programs reported that details are already completed for a revised University pregnancy leave policy.

Mary P. Sharp said that a plan is being developed to accommodate both faculty and nonfaculty women. She explained that such items as eligibility, use of sick leave for pregnancy leave and other details still remain to be completed.

Her initial recommendation called basically for a three-months’ pregnancy leave, allowing the application of sick leave to cover part of the time, stated that an employee would return to work at the same level and stipulated that 10-months’ full-time employment constituted eligibility.

The plan recommended by the A-P Association provides nine-months’ full-time service for pregnancy leave eligibility, and it states that an employee can return to work within four months following termination of pregnancy if she is physically able.

And it says the employee must notify the University two weeks before she returns to work, and that she must be returned to work either in her job or in another of equal rank, without loss of employment benefits.

The association’s proposed family health plan states that an employee be allowed to use sick leave, vacation, personal leave, or be granted leave without pay for a maximum of 30 days “if necessary to be absent from work to care for any family due to illness, injury, death, pregnancy or childbirth.”

It would also permit an employee to return to work after a family health-related absence at his or her same position.
Some questions on faculty compensation

Note: Following is a progress report of the Faculty Affairs and Faculty Compensation Committee on the salary schedule, as presented by Frederick Williams, professor of history and committee chairman, at the Jan. 11 Academic Council meeting.

... THE purpose of this progress report is to acquaint you with some of the problems facing the FAFC as it undertakes to prepare recommendations regarding salary, fringe benefits, and merit pay of the faculty. At the moment is attempting to measure fully this assignment, the report will be devoted largely to raising rather than answering questions.

It seems appropriate to begin by calling attention to the newness of the FAFC. The FAFC opened shop on July 1, a short six months ago. Immediately the committee went to work on salary increases for 1971-72, and because of unusually complex and totally unexpected developments, that work required a lion's share of the committee's attention through the first week of October.

... No sooner had the salary increases been approved that the question of salary secrecy came to the forefront, and that subject occupied a large portion of the committee's time until the Christmas break.

... The whole committee has been concerned on a variety of items, including next year's asking budget, fringe benefits, the status of the Academic Senate, consultantship leaves, and the interim grievance procedure. Now, as the new year begins, the committee has been reorganized into three subcommittees, creating a structure that ought to enable us to discharge more efficiently and effectively the duties prescribed in the "Bylaws for Academic Governance."

... OF ALL THE WORK on the committee's agenda, the most important item, and one requiring immediate action, is the salary schedule. Clearly the existing schedule contains base rates, both of the individual and class variety, if they are to agree on that point, and I believe we can, it behooves us not to waste our time trying to fix blame, but to study the problems and to find solutions that will eliminate existing inequities and lay the foundation for a more just and equitable salary structure for the future.

... Work on the salary schedule began during the Christmas vacation and will continue until the next meeting, that work will make an effort to be as objective, fair and realistic as possible. The task will require careful, time-consuming study and the help of every member of the academic community who can make constructive contributions.

... How long this study will take cannot be determined at this juncture, but there is every reason to believe that a set of recommendations can be ready for fiscal year 1972-73. In the next few weeks we plan to complete recommendations in time to affect next year's salary schedule. Of course, those recommendations cannot become operative without the approval of the central administration.

... THE COMMITTEE'S NEED for time can best be demonstrated by identifying some of the questions that must be answered. Here are a few: What is the quickest and best way to eliminate such class discrepancies as those affecting women, 12-month faculty, departments and colleges? If base salary levels for each academic rank is one important way of solving this kind of problem, what rationale should be used to set those levels? Should those levels be set and adhered to at once? Or should they be phased in over a period of years? Should they apply to all faculty members below the base level for his rank? Or should there be a flexibility which allows for exceptions where circumstances warrant them? If base levels are set, should we resolve that henceforth every promoted faculty member must receive at least a 5 percent increase in base salary of his new rank? In any event, should or should not every academic unit correlate its promotional policy with its salary schedule?

... Assumption of the set, how is it to be determined whether rectify inequities unaffected by that action? In dealing with the problem of individual inequities, should the committee go beyond formulating guidelines for the academic units to follow?

... Should the decision - making process regarding salaries be the sole responsibility of administrative heads of academic units? Or should there be faculty salary advisory committees? Is there a considerable support for advisory committees, should they be required? Or should they be set up only by units that want them? In any event, should administrative heads of academic units be held accountable to the major faculty on their decisions on salary distribution?

... In all policy-making, whether it relates to classes or individuals, what weight should be given to such considerations as the marketplace, length of service, and productivity?

... THERE IS, of course, the matter of money. Elimination of only the most glaring inequities requires a large amount of money. For illustrative purposes the committee made a calculation based on the following arbitrary base salary levels:

- For instructors, $12,000
- For assistant professors, $15,000
- For associate professors, $18,000
- For full professors, $22,000

The 12-month equivalents would be $11,250 for instructors, $15,000 for assistant professors, $18,750 for associate professors, and $22,500 for full professors.

... Using up-to-date and complete data which specifies the number of faculty at various salary levels and which indicates rank and type of contract (10-month or 12-month), the committee finds that the cost of establishing those levels at once would be approximately $1,050,000. That sum is approximately the amount required to give a 5 percent across-the-board increase.

... To avoid possible misunderstanding the committee reiterates that the above base levels were arbitrarily selected for illustrative purposes only. The committee is neither disposed nor prepared to defend them.

... If adequate money for upgrading salaries by setting base levels cannot be obtained from the Legislature, how should we finance such a program? And what should be done about faculty members who would not be affected by the base level approach? There are many: 171 of 203 instructors, 309 of 735 assistant professors, 195 of 481 associate professors, and 522 of 795 full professors. In all, 1,197 of 1,945 or approximately 62 percent of faculty in the four ranks would be unaffected by establishing the base levels mentioned above. How should we rectify inequities among those members of the faculty?

... These are some of the questions that face the committee. There are many others. To provide a method which will place those grievances in the proper perspective before the committee or in presentations at one of the hearings planned for the near future.

... To secure additional assistance we intend to call upon persons with special qualifications to serve as advisors or consultants. The task is a difficult one and will require the cooperation and best thinking of everybody. The committee, believing that all interested persons should be heard, is prepared to listen and to study carefully every serious proposal it receives.

- FREDERICK WILLIAMS

On other campuses

LAYOFFS AT WAYNE. More than 250 faculty and academic staff at Wayne State University are being notified that their contracts may be renewed for 1972-73 because of a predicted budget deficit. They are among nearly 600 tenured faculty whose appointments expire this June 30. In a letter to the American Association of University Professors, WSU Acting Pres. George E. Gullen Jr. said that the 250 persons had been notified in December. Some have already been advised that they would not be recommended for continuing appointments, he said, and others were told that they would be retained if the budget outlook improves.

- U - M STUDIES MERIT POLICY. The University of Michigan has retained an outside consulting firm to help U - M formulate a comprehensive personnel compensation policy for its nearly 5,000 professionals and administrative employees on three campuses. Purpose of the effort, according to Chief Financial Officer Wilbert K. Pierpont, is to provide U - M "with improved systems for merit review, merit promotion, and transfer and other salary - related matters."

"He said the study is to be completed in about six months.

MINORITY PREFERENCE AT MINNESOTA. The University of Minnesota has announced that it will give preference to members of minority groups and women in filling administrative and professional vacancies. A directive to deans, deans and department heads urges them to improve the ratio of minority groups and women, and instructs units to name a person in each department to be responsible for insuring equal employment opportunity.

UNIVERSITY CLUB DISMISSED. The University Club at the University of Wisconsin, Madison, is in "deep financial distress," according to its board of directors. The board said that unless the club gets a substantial number of dues-paying members, it will have to close in four or five months. The club currently has 135 members who pay dues ranging from $25 to $60 a year, although an estimated 600 persons make use of its meeting rooms each month.

A WOMAN CHANCELLOR. Indiana University has its first woman chancellor. She is Sylvia E. Bowman, recently named chancellor for regional campus administration. A long - time faculty member and former chairman of arts and sciences at the IU Fort Wayne campus, she succeeds John W. Ryan, who is now IU president.

PRESIDENT STAUGHTON LYND. Radical history professor Staughton Lynd, formerly at Yale University, was the top vote getter in a student - sponsored primary to endorse his candidacy for retiring Pres. Pierpont at Ohio State University. More than 20,000 students, faculty and staff cast votes, and Lynd received 11,000. He won in a runoff over Dick Gregory, who had 5,000 votes. Trustees said they would give Lynd careful consideration.

SUPPORTING "RENAISSANCE SCHOLARS." Faculty and staff at Pennsylvania State University are being asked to give more support to that school's Renaissance Fund - a source of grants, aids and other support for students or prospective students who otherwise might not have the change to go to college. The fund's director - faculty, students, faculty, students, faculty, students - has been allocated some $30,000 for this year's 28 scholars. But in order to meet four - committee for this year's and future scholars, the fund will need $120,000 by 1974.

- U - M PETITION DISMISSED. The Michigan Employment Relations Commission (MERC) has dismissed a petition by the University of Michigan Teaching Fellows Union for a collective bargaining election. MERC ruled that the proposed unit was not appropriate for bargaining, and said that an appropriate unit should include all graduate assistants.
More help for Chicanos

New efforts to strengthen programs for Chicanos – including a wide range of special services, education and outreach programs – were announced last week by President Wharton. He said that the new efforts will add to or improve upon existing activities. They are needed, Wharton said, after a review of programs indicated that many Chicano parents and students often had difficulty in filling out the English language forms.

1. A Chicano has been hired to work while in residence - half time in the Counseling and Psychological Services. This program, which uses students as assistants within the residence - hall community, will include four major E D U C A T I O N A L A C T I V I T I E S:

A. Prove it John E. Canfield will name a Chicano faculty member as an advisor to the undergraduate programs office, where the bulk of MSU's Chicano students are enrolled. The faculty member will advise on special educational needs and problems confronting Chicano students.

B. Under a proposal being developed in Chicano studies with United Migrant Opportunities Inc. and the Migrant Extension Center at Central Michigan University, MSU would enroll up to 10 Chicano students in its Agricultural Technology Program. Full scholarships for the students would be supported by federal funds, under the proposal.

C. A full - time Chicano employee is being sought for the Office of Special Programs to work on academic advising of students with special difficulties.

D. The Admissions office has strengthened its recruiting efforts in state high schools, among parents and in the Chicano community to attract more qualified Chicano students. Jose Gomez, appointed to the Office of Special Programs, has been working particularly on admissions activities.

2. Additional Spanish - language Chicano courses are being developed, as appropriate, in the College of Arts and Letters.

3. A proposal is being prepared to secure federal funds through the Special Services of Disabled Students program. A Chicano student will contain a strong Chicano component as a result of participation of MSU office of special programs, staff and faculty in its development.

Wharton noted that the new initiatives are being implemented to offer Chicano students activities described in the reports "MSU and the Chicano Community" issued by the last Orange County and "Programs for Chicanos" issued by the Chicano community. The College of Agriculture and Natural Resources has no plans for Chicano enrollees; enlarging special Chicano cultural courses are being translated and developed.

4. A cooperative extension service for Migrant workers will be proposed for federal funding. Under the program, instruction or intramural interchange would be held in order to aid in the delivery and development of the programs.

STUDENT SERVICES:

1. Raul Aparo has been appointed to the position of Chicano residence. He will serve half - time in the Counseling and Psychological Services. This program, which uses students as assistants within the residence - hall community, will include four major E D U C A T I O N A L A C T I V I T I E S:

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G. A cooperative extension service for Migrant workers will be proposed for federal funding. Under the program, instruction or intramural interchange would be held in order to aid in the delivery and development of the programs.

5. Students enrolled in Chicano studies are being held in order to assist in the delivery and development of the programs.

Getting rid of $900,000

Tuesday at Colorado State University was raised 85 percent this year by order of the Legislative and produced $900,000 more than the anticipated, due to an unexpected increase in enrollment.

Unable to spend it within the budget approved by the Legislature and therefore, the excess would eventually go to the state's general fund, the board voted 3 - 2 to cut winter tuition enough to absorb $450,000.

Possible ways to get rid of the excess: more teachers, raise salaries, library acquisitions, etc. If permits are increased, spring tuition will be go up again if not, then the board is expected to lower spring tuition again to bring that money out of the general fund.

Prediction: The upcoming year will register on seismographs.
CARLIN to support general ed changes

Donald L. Murray, extension specialist and professor of dairy science, was commended for his teaching and research during the recent annual Cooperative Extension Service conference. He was cited for work in dairy cattle sanitation and product storage.

James F. Niblock, professor and chairman of the dairy science department, recently conducted the symphony orchestra and lectured on his music industry's role in conservatory education in Retinapentina, Argentina.

Gordon H. Sheehan, professor and director of the Highway Traffic Safety Center, has been awarded the outstanding Service to Safety Award from the National Safety Council.

Laura Sims, a doctoral candidate in human ecology, is one of two winners in a national scholarship competition sponsored by the Duftly-Merritt Company, food packers. She was honored for research on the nutritional status of the preschool child.

An associate professor of criminal justice contends in a recent article that many parents tend to oversimplify their role and their children's needs. "The future is characterized by uncertainty and the challenges are great," he writes. However, he believes that parents can shape their children's futures by providing a stable and supportive environment.

Flood survey...

"Civilisation" series opens

""Civilisation," being sponsored by the Friends of the MSU Library, will begin tonight at 8 p.m. on the Detroit Institute of Art.

The series will be presented on Thursday evenings through April 30 and will feature a variety of topics related to the history of civilization. The presentations will be made by leading experts in the field, and the series will be broadcast on public television stations around the country.

The series will focus on various aspects of civilization, including ancient Egyptian, Roman, and Chinese cultures. It will also explore the role of women and the importance of social change in shaping the course of history.

The series will be hosted by a well-known broadcast journalist, who will provide commentary and introduce the featured speakers. Each episode will feature a different expert, who will present their research and insights on a particular aspect of civilization.

The "Civilisation" series will be a valuable resource for anyone interested in the history of civilization, providing a comprehensive overview of the development of human society.
better ways to teach

Through the years, the main thrust of teaching - learning improvement has been to find fresh new approaches to the textbook. With the dawn of modern technology, some of this has been accomplished through the use of colored illustrations, diagrams, and charts. Although the blackboard, or whiteboard, or overhead projector brought a new dimension to classroom lecturing, slide - tape and motion picture technology enhanced the audio - visual concepts for learning.

Davis believes that one of the most crucial developments in recent years has been in independent study. As the tidal wave of students swept down on colleges, teaching resources had to be supplemented with a larger portion of the learning stemming from independent student effort. One great innovation here was the audio - visual tape, which made it possible for students, with slide and motion picture projectors for self study, to be in operation on campus.

REGARDED AS ONE of the pioneers in the use of closed circuit television, MSU has been the model in this area for many other higher education institutions. During 1970 - 71, CCTV served 218 courses (3,000 hours of instruction) mediating 59,549 student credit hours.

Although definitive conclusions as to the superiority of TV over traditional methods of teaching are hard to establish, Davis points to many advantages that have been established.

TV is primarily considered a means of distribution of educational information. An unlimited number of students can be taught in one sitting with a substantial saving occurring when 50% or more of the students fail to attend. It is useful for the repetition of critical events that would not normally occur again. Motion pictures, lectures and demonstrations by outstanding professors from other institutions, segments from network programs and other forms of audio visual materials are transmitted throughout the extensive campus closed circuit TV network.

Not all of the effort toward the improvement of teaching - learning embraces hardware. Other emphases involve development of a behavioral definition of objectives for the student, and the demonstration and identification of competencies of the student.

Of significance, too, is feedback to the faculty. Much progress has been made in the student instructional rating process and its use by the faculty to improve their performance. Davis calls attention to an evolving new kind of attitude on the part of the professor. "He doesn't tend to isolate himself and be more ready to adjust himself to the contents and their reactions."

WHEN IT was pointed out that MSU offers virtually no organized - in - service training programs to its faculty involving better teaching methods, Davis was quick to reply that this is a high priority item toward which he and his colleagues are reaching.

"It's largely a matter of money, staff and facilities," he explained. "It would probably take something like two or a quarter million dollars to establish such a training program to be conducted over a five - year period, including a special building. No other institution has done this thus far."

Some months ago the Eseo Foundation provided a grant to the MSU Learning Service for the development of a one year in - service training model. This model is now available for use by MSU or any other higher education institution.

In the meantime, however, improvement of instruction continues to move forward on this campus.

-W. LOWELL TREASTER

The University's standing committees

Last week's News - Bulletin contained a list of faculty members of seven University standing committees. Here is a membership list of the other five standing committees, plus the committee on committees and student - faculty judiciary:

FAKULTY TENURE: Martin J. Bubrow, agriculture and natural resources; John F. A. Taylor, arts and letters; Rullin H. Simonds, business; Patricia Walsh, communication arts; Stanley E. Becker, Jr., education; Donald J. Kerstetter, human ecology; Earle H. Ralston, human medical; Arthur E. Sturzdale, human medical; Joseph M. Sargon, social science; Jon J. X. Klaara, osteopathic medicine; Wheaton H. Felker, institutional research; Bruce D. Brookover, social science; Mary Tomkins, University College; Gabriel R. Conner, veterinary medicine; Donald A. Donoghue, veterinary medicine; Kermit H. Smith, nonfaculty college, faculty - at - large. Ex officio: Ralph H. Blackington, ex officio: Dean of Academic Council.

HONORARY PROGRAMS: Henry D. Forth, agriculture and natural resources; Benjamin R. Hisson Jr., arts and letters; Stanley C. Holm, education; Earl E. LeRoy, veterinary medicine; Donald D. Smith, communication arts; Keith F. Anderson, education; Martin C. Hawley, engineering; Rachel Schreinemachers, human ecology; Leroy M. Kelly, natural science; J. Warren Anderson, osteopathic medicine; Keith A. Williams, residential colleges (Morrill); Thomas L. Cernow, noncollege faculty; Gladys Hocking, University College; Allan L. Traeger, veterinary medicine.

Also included: Six undergraduates, one graduate, two student members - at - large. Ex officio: Granka H. Blackington, Director of Honors College.

INTERNATIONAL PROJECTS: Moe L. Hemy, agriculture and natural resources; Herbert C. Jackson, arts and letters; Hendrik Zwanzegwari, business; William H. Herze, communication arts; assail Q. Moore II, veterinary medicine; Joseph F. O'Keefe, engineering; Moderick U. Yang, human ecology; Donald W. Weston Jr., human medical; William W. Buhro, osteopathic medicine; Frederick R. Becker, osteopathic medicine; Lawrence H. Buhro, veterinary college; Eugene M. Manion, educational colleges (Madison); Eugene Jacobson, social science; R. Glenn Wright, human medical; Rollin H. Baker, Museum Director; Robert A. Harris, fine arts; Arthur R. Brandstadt, director, criminal justice; Richard O. Berrett, director, public safety. (According to the bylaws, this committee is composed of seven faculty members, two of whom are from lower ranks, and seven students.)

STUDENT AFFAIRS: Frederick H. Hohn, natural science; Richard J. Lewis, business; Michael Moore, social science; Franklin D. Pelt, University College; James E. Smith, Lyman Briggs; George M. Van Druten, engineering. Also: Five undergraduates, five graduate, two student members - at - large. Ex officio: Dean of Students Elveron R. Nommaker, Associate Dean of Students Lawrence F. Ballek, Associate Dean of Students Theodore J. Brooks; and the vice president for student affairs (in position being temporarily filled by Wau President for Research Development Milton Hudson).

The Committee on Committees, composed of Academic Council members and a committee of the Council, includes: William T. Magne, agriculture and natural resource; Paul J. Jakobsen, arts and letters; Hendrik Zwanzegwari, business; Patricia Walsh, communication arts; Charles V. Mango, education; Leo V. Nolt, engineering; Jackson Ethel, human ecological; Leif G. Schubel, human medical; Frank Peaslee, natural science; John Borgen, osteopathic medicine; Steven T. Spence Jr., residential colleges (Brigge); C. Keith Grotty, social science; Albert E. Levese, University College; Glenn L. Wexler, veterinary medicine; chairman; Gwendolyn Steele, counseling center, nonfaculty college.

The Student - Faculty Judicial committee, established in the Academic Freedom Report includes: LeRoy Pauken, sociology; William H. Pipes, University College; Max R. Retz, education; James F. Remer, anthropology; Norma S. Babcock, human ecology; Louise E. Zecher, James Madison; and a representative of arts and letters be reappointed. Also: Four students; ex officio: Dean of Students Eldon R. Neumember, Associate Dean of Students, Ruth Remaun.

Botanist W. J. Beal: An early developer of teaching innovations.

Classroom TV

(Concluded from page 1)

have been made available to two other schools.

* With an Educational Development Program grant, a TV mobile unit recorded 32 hours of lectures and demonstrations in Oak Park, and the resulting tapes are used to instruct music education majors.

Under development, with financing from National Institute of Mental Health, is series in psychiatry dealing with suicide prevention. The series is to be telecast nationally.

During the past year, ITV also helped develop independent television systems for 10 departments (45 departments now are using 102 videotape recorders); acquired eight videotape recorders and 50 cameras for rentals and loans; began testing the use of computers to schedule the use of TV facilities.

IN A LOOK toward the future, Jorgensen says that large - class TV instruction will be even more likely to be replaced by "more individualized and more costly" TV use.

This means has special importance for TV's already - overcrowded Ecksson building. The student who wishes to screen videotapes and films must do so inside make - shift partitions in the hallway. And MSU TV equipment, some of it dating back to 1956 is wearing out or becoming obsolete, he added.

Jorgensen says that equipping TV for color origination "must come within the next two years." Color cameras are planned for the new TV facilities in Life Sciences I.

And he also uses support for a statewide plan for telecommunications development that would, among other things, provide television for off - campus ITV service with off - campus learning in medicine, continuing education and other areas.

--GENE RITTERS
The exhibit is a synthesis of both classic and current concepts of "drawing". Entries range from black and white and color, more or less representational drawings in the formal media, to works that can be described as three dimensional—in plastics, syntheses and paper.

Criteria for determining the limits of "drawing" were discussed in a seminar by DeMartelly and the graduate judges. According to DeMartelly, drawing has traditionally dealt with the use of lines in a two-dimensional plane to suggest further space and to imply a third dimension. But current trends have extended drawing into the third dimension, to "drawings in space". The premise reached by DeMartelly and the students was that a drawing could be called such if it was set in place, more or less immobile, not requiring the viewer to complete the visual response. A further definition of current drawing is offered by judge Russ Youskman. She says that drawing is "more intimate than the other forms of art." Scale becomes very important and the drawing is a private thing, she adds. Lines and dimensions can also be created with a variety of materials and with planes of space. The exhibit will run through Jan. 30. Gallery hours are 9-4:30 a.m., and 1-5 p.m. Monday through Fridays, 7-9 p.m. Tuesday evenings and 2-5 p.m. on Saturdays and Sundays.

DARIO SCHLEGEL
BULLETINS

STEERING COMMITTEE
The Steering Committee of the Faculty will meet on Monday, Jan. 24, at 4 p.m. in 443A Hannah Administration Bldg. to set the agenda for the Academic Council meeting Feb. 1.

INTEREST GROUP
The Faculty Folk International Interest Group will meet at 1 p.m., Monday, Jan. 24, in the home of Mrs. J. Sutherland Frame, 136 Oakland Dr., E. Lansing. Menakka McDougall will speak on "Third Culture Experiences."

EXHIBITIONS

Kressge Art Center
Main Gallery: Works from the permanent collection.

Kressge Art Center
Entrance Gallery (thru Jan. 30): Graduate Drawings

EXHIBITIONS

Kressge Art Center
Main Gallery: Works from the permanent collection.

SEMINARS

THURSDAY, JANUARY 20, 1972
Bangladesh nationalism. Ralph Nicholas, U. of Chicago, 7:30 p.m., Con Room, International Center (Asian Studies Center).

Generalized degree theory and nonlinear problems. L. Nirenberg, Courant Institute, 4:10 p.m., A304 Wells (Mathematics).

Sodium-dependent depolarization of embryonic chick atrial cells by acetylcholine. Achilles I. Pappano, 5:30 p.m., B-449 Life Science 1 (Pharmacology).

(1He,t) reactions, past, present and future. R. Hnirichs, 8 p.m., Cyclotron Seminar Room (Physics).

FRIDAY, JANUARY 21, 1972
Genome fractionation by DNA hybridization. Leonard G. Robbins, U. of Texas at Austin, 11:30 a.m., 140 Natural Science (Zoology).

MONDAY, JANUARY 24, 1972
Sir Gal, Sir Hipfor and the Hip Arabs bring you latest news of the extension plot. Derek Lumport, 4:10 p.m., 101 Biochemistry (AEC Plant Research Lab).

Knowledge, agriculture and welfare. T.W. Schultz, U. of Chicago, 3 p.m., 213 Agriculture (Agricultural Economics).


Adoption of artificial insemination in Michigan. Evans Wright and Russ Erickson, 12:30 p.m., 126 Anthony (Dairy Science).


Field ion microscope studies of point defects in metals. David Soldman, Cornell U., 4:10 p.m., 118 Physics-Astronomy (Physics).

Preliminary studies on malic acid metabolism in the dog. Jim Kertz, 4 p.m., 216 Giltn (Physiology).

TUESDAY, JANUARY 25, 1972

Cultural-ecological perspectives of Nepal. Barry Bishop, 4 p.m., 106 International Center (Asian Studies Center).

Recent developments in the educational use of computers in chemistry. R.W. Collins, Eastern Michigan U., 4 p.m., 136 Chemistry (Chemistry).

Bacterial proteolytic enzymes and meat spoilage. Dennis Buckley, 4:10 p.m., 110 Anthony (Food Science & Human Nutrition).

Microbial sources of protein. Charlotte Thompson, 12:30 p.m., 102 Human Ecology (Food Science & Human Nutrition).

Evaluation of viability tests for cold stressed plants. Basil Steglos, 4 p.m., 206 Horticulture (Horticulture).
Friday, January 21, 1972
10 a.m. Meeting of the Board of Trustees
8 p.m. "U.F.O."—Probing the possibility of life existing on other planets, this program portrays stories of mysterious flying saucer encounters. Tickets at door. Abrams Planetarium.
8 p.m. Theatre—The Black Arts Company will present three one-act plays: an adaptation of "The Spook that Sat by the Door," "The Ghost Dancers," and "The One." Tickets are available at the Union Ticket Office or the Center for Urban Affairs. Arena Theatre.
8:15 p.m. Lecture-Concert Series—The Alvin Alley American Dance Theatre will present the cultural heritage of the Black American. The company of 16 young dancers combines dance forms with instrumental music, song, and acting techniques. Auditorium.
10 p.m. "U.F.O." (see above). Abrams.

Saturday, January 22, 1972
10 a.m. Fencing—Milwaukee Tech, Lake Superior State, IM Bldg.
1 p.m. Block and Bridle Club—Preliminary showmanship for Little International. Livestock Pavilion.
1:30 p.m. "U.F.O." (see Jan. 21). Abrams.
7:30 p.m. Wrestling—MSU v. Oklahoma State, IM Sports Arena.
7:30 p.m. Block and Bridle Club—Little International. Livestock Pavilion.
8 p.m. Basketball—MSU vs. Minnesota. Jenison.
8 p.m. World Travel Series—"The Spirit of Thailand" is discussed by Bob Davis. Auditorium.
8 p.m. "U.F.O." (see Jan. 21). Abrams.
8 p.m. Black Arts Company (see Jan. 21). Arena Theatre.
10 p.m. "U.F.O." (see Jan. 21). Abrams.
12 a.m. Black Arts Company (see Jan. 21). Arena Theatre.

Sunday, January 23, 1972
4 p.m. Concert—The Singing Statemen (Men's Glee Club) will perform under the direction of J. Strohl. Admission is free. Music Auditorium.
4 p.m. "U.F.O." (see Jan. 21). Abrams.

Monday, January 24, 1972
8 p.m. Great Issues Series—"The Cage," a prison drama written, directed, and acted by a company of ex-convicts from San Quentin, will be presented by ASMSU in conjunction with the University College Symposium on Human Justice. MSU Auditorium.

BULLETINS

BOARD MATERIAL
Material for the February 18 meeting of the Board of Trustees is due in the office of the executive vice president or the provost by January 28.

CDC 6500 WORKSHOP
A one-day workshop, "Introduction to Computing on the CDC 6500," will be held Saturday, Jan. 29, from 8 a.m. to 6 p.m. Topics include: punch card equipment, teletype usage, programming concepts, and BASIC programming language. No prior knowledge of computers is necessary. Registration is $5, and must be made by Jan. 27 through the Program Library, Computer Lab. For information, call 3-9795.

SHANGRI-LA
Tickets for the "Shangri-La" benefit luncheons may now be purchased by Faculty Folk and Newcomers members from Mrs. William Magee, 3782 New Salem, Okemos; Mrs. James Tiedge, 1646 Lindbergh, Lansing; or Mrs. Stuart McDougall, 4720 Huron Hills, Okemos. Proceeds from the 14 luncheons, to be available Feb. 9 and 11, will go for scholarships for MSU coeds. For babysitting, call 337-0814 or 351-0423.

STATISTICAL SERVICE
A free statistical consultation service is available to anyone at MSU through the Dept. of Statistics and Probability. Services include experimental design, choice of statistical techniques, information on available programs, programming assistance, and stochastic models. A graduate assistant is available 2 to 4 p.m., Tuesdays and Thursdays, or by appointment in 301 Computer Center. Call 5-9684.

Wednesday, January 26, 1972
8:15 p.m. Broadway Theatre Series—Featuring the score of Bert Bacharach and Hal David, the musical comedy "Promises, Promises" is based on "The Apartment" screenplay. Will Mackenzie stars as the ambitious young man with the vital key to an apartment. University Auditorium.

Thursday, January 27, 1972
8 p.m. Water Show—Synchronized swimming is done by members of Green Splash women's swimming honorary. Women's IM Pool.
8:15 p.m. MSU Symphony Orchestra Preview Concert. Admission is free. Fairchild

Friday, January 28, 1972
7:30 p.m. Swimming—MSU vs. Purdue. IM Sports Arena.
7:30 p.m. Swimming—MSU vs. Indiana. Jenison.
2:05 p.m. "U.F.O." (see Jan. 21). Abrams.
2:30 p.m. World Travel Series—Featured is "Holland." Auditorium.
3:00 p.m. "U.F.O." (see Jan. 21). Abrams.
3:30 p.m. Wrestling—MSU vs. Illinois. IM Sports Arena.
8 p.m. "U.F.O." (see Jan. 21). Abrams.
8 p.m. Green Splash Water Show (see Jan. 27). Women's IM Pool.
10 p.m. "U.F.O." (see Jan. 21). Abrams.

Saturday, January 29, 1972
2 p.m. Swimming—MSU vs. Iowa. IM Pool.
2:05 p.m. Basketball—MSU vs. Indiana. Jenison.
2:30 p.m. "U.F.O." (see Jan. 21). Abrams.
3:30 p.m. Wrestling—MSU vs. Illinois. IM Sports Arena.
8 p.m. "U.F.O." (see Jan. 21). Abrams.
8 p.m. Green Splash Water Show (see Jan. 27). Women's IM Pool.
8 p.m. World Travel Series—A lecture and concert on records, radio, and television, are two brothers who, 30 years ago, lived almost a primeval existence in Brazil with their people, the Tabajaras Indians. Fairchild Theatre.

MSU PUBLICATIONS
"This is Michigan State University," a comprehensive statistical record of the University, and "Facts in Brief," a capsulized description of MSU, have been updated and reprinted. "Briefs," in larger supply, can be provided in quantity. For copies, call Information Services, 5-2263.

JAHN LECTURE
Jahn Zahn, author of "Muntu: An Outline of Neo-African Culture," will present a public lecture at 8 p.m., Thursday, Jan. 27, on "African Writers and the Decolonization of the African Mind" in NNC Wells. The lecture is sponsored by the African Studies Center.

"WOMAN IS"
Thursday, Jan. 27, is a day devoted to women with "Woman Is," held from noon to 9 p.m. on the second floor of the Union. Booths and speakers will emphasize campus services for women. A bridal fashion show will be held in the balcony at 2 and 8 p.m.

SPARKS FELLOWSHIP
Undergraduate members of Phi Kappa Phi may apply for a Sparks Memorial Graduate Fellowship paying $3000 to assist in a year of graduate study immediately following graduation. Application forms may be obtained from Beverly Anderson, 5-3141, 330 Engineering or D.J. Montgomery, 5-5157, 319 Engineering. The completed applications must be returned to 330 Engineering by Friday, February 4.