

Campus Capsules

Prof. N.W. Reay, of the National Accelerator Laboratory in Batavia, Ill., will discuss "Search for Charmed Particles" at a Physics and Astronomy Colloquium today at 4 p.m. in 307 Strong. His talk, which is open to the public, will deal with research on sub-atomic particles.

The annual meeting of the Faculty Women's Club, which had been scheduled for Saturday, March 27, has been postponed and will be rescheduled. When the meeting is held, officers will be elected, retirees will be honored and a discussion on the possible reorganization of the Faculty Women's Club will be held.

The Ypsilanti Branch of the American Association of University Women is having its Annual Used Book Sale Monday and Tuesday, March 22 and 23, in Guild Hall of McKenny Union. The hours are Monday, 9 a.m. to 8 p.m., and Tuesday, 9 a.m. to 4 p.m. On Tuesday, from 2 to 4 p.m., the Branch will have a "Bicentennial Brown Bag Special" - all the books you can stuff into a large grocery bag for \$1.

George A. Hyry, a member of the faculty of the Lincoln Consolidated Schools and Eastern Michigan University from September, 1949, to January, 1964, passed away Saturday, March 7 in Illinois. He was 61. He held a master's degree and Ph.D. from the University of Michigan and was a member of Phi Kappa Phi, an honorary society. Dr. Hyry was a charter member and officer of the Wolverine Guidance Association. In addition to teaching at Eastern and Lincoln, he also taught in West Branch, Mich., and served three years in the U.S. Air Force. From 1964 to his retirement in 1975, he was employed by the federal government in the Chicago area. He is survived by his wife, Helen, brothers, sisters, nieces and nephews. Burial was March 12 in Ishpeming.

The Percussion Ensemble Concert, under the direction of Clifford Chapman, scheduled for 8 p.m. Thursday, March 25, in Pease Auditorium, has been postponed and the Black Theatre Production of "The Rise," scheduled for 8 p.m. Tuesday and 8 and 10 p.m. Wednesday, March 30 and 31, in the Quirk Lab Theatre, has been cancelled.

Approximately 150 college and University housing officers from mid-western states and Canada met at the Hoyt Conference Center Feb. 4-6. Completing the formal dinner festivities was an excellent musical presentation by the EMU Madrigal Singers, under the direction of Emily Lowe, associate professor of music. The educational program consisted of varying topics on all aspects of housing and food service on university campuses. James Hurd, national president of ACUHO, discussed views of future housing and related legislation and social trends at the opening general session. Smaller group discussions included "Preventative Maintenance of Food Service Equipment," "Safety and Security in Residence Halls," "Alcohol Abuse Problems," "Family Housing" and "Special Student Needs."

Huron Baseballers Go West for Spring Training

By Jim Streever

If last year's records mean anything, the 10th annual Riverside National Collegiate Baseball Tournament, set for March 22-27 in Riverside, Calif., should be one of the most competitive ever.

Coach Ron Oestrike's Eastern Michigan baseball team will compete in the six-day round-robin tourney against such national powers as Arizona State (61-13 last year), Brigham Young (22-19), Oregon State (28-6), Stanford (37-22), Tulsa (28-14), Delaware (28-6) and California State-Riverside (28-24).

The Hurons (37-20-1 last season) will join Arizona State, Brigham Young and Oregon State in the Gold Division. The other four teams will comprise the Blue Division.

All of the teams in the tournament will play each other once, with the teams that have the best seven game records from each division playing the championship game March 27 at 10 p.m. EST.

Eastern Michigan and Arizona State are the only two tournament clubs that played in the 1975 NCAA College World Series in Omaha, Neb.

The Hurons will open the tournament play at 6 p.m. Monday (March 22) against Oregon State. Eastern plays Stanford Tuesday (March 23) at 2 p.m. and then goes against Tulsa Wednesday (March 24) at 2 p.m. EMU then comes right back at 6 p.m. Wednesday against the host Riverside team.

Delaware and Eastern square off at 2 p.m. Thursday (March 25) and then the Hurons play Brigham Young at 2 p.m. Friday (March 26). Eastern will close out its portion of the seven-game round robin Saturday (March 27) against Arizona State at 6 p.m. The champion of the Gold Division and the Blue champion will meet at 10 p.m. Saturday.

Eastern will enter the tournament as the defending Mid-American Conference champion as well as the Mid-East Regional titlest. Those two crowns enabled the Hurons to qualify for the NCAA Division I College World Series in Omaha. Eastern upset top-ranked Florida State in the opening game of that tournament.

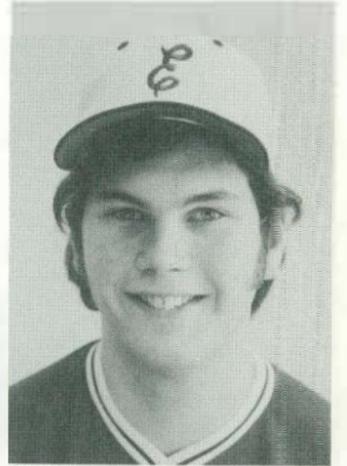
The Riverside tourney will offer plenty of challenge for the Hurons. Arizona State, always a power on the national scene, will bring two of the top players in the nation into the fray.

ASU outfielder Ken Landreaux batted .326 last year while driving in 77 runs, belting 16 home runs and stealing 24 bases. He is one of five returning Sun Devil regulars to hit over .300 last year.

Arizona State pitcher Floyd Bannister returns to the pitching mound this year with a 15-4 record. He struck out 217 batters in 157 1/3 innings last year while posting an impressive 1.66 earned run average.



Coach Oestrike



Bob Owchinko

Tulsa barely missed a trip to Omaha last year and Stanford finished strong. Brigham Young always plays well at Riverside, Oregon State lost few players from a young team and Delaware returns all but four players from one of the rising powers in the East.

The host Riverside team won the 1975 tournament championship, beating Stanford, 7-4, in the finals.

Huron hopes will rest on a veteran contingent of ball players. EMU lost just two starters through graduation, pitcher Ken Bruchanski, now with the Detroit Tigers minor league organization, and third-baseman Jeff Washington. Top returnees are pitchers Bob Owchinko and Bob Welch, infielders Jim Luckhardt, Glenn Gulliver and outfielders Ted Dasen, Thom Boutin and Mike Lauerman. Regular catcher Jerry Keller also is back.

Owchinko was a second-team All-American last year as he rolled to an 11-1 record, a 1.42 ERA and also pitched on the United States team that competed in the Pan American Games last summer in Mexico City. He was named the Most Valuable Pitcher on that U.S. team, with a 3-0 record. Owchinko handled the 2-1 upset over top-ranked Florida State in the World Series last year.

Welch enters his sophomore year after a highly successful freshman one that saw him record a team low 1.29 earned run average, which ranked him 14th in the nation last season.

Both Welch and Owchinko were first team Mid-American (Continued on page 2)

Scott Is New Basketball Coach

The EMU Department of Intercollegiate Athletics completed its search for a new head varsity basketball coach March 11 when University President James H. Brickley officially named Ray Scott to the post.

A former National Basketball Association (NBA) "Coach of the Year" with the Detroit Pistons, Scott replaces former coach Al Freund. Freund was head coach for four seasons and also an assistant for five seasons. He was notified January 31 that his contract would not be renewed for the 1976-77 season.

"I've moved on," Scott said of his switch from the professional basketball ranks to the EMU position. "This is something I've really wanted to do for a long time."

"The appointment of Ray Scott to the EMU head basketball coaching post is certainly in keeping with our determination to bring the highest level of excellence to our athletic program," EMU Athletic Director Albert E. Smith said.

"In addition to being an outstanding coach, Ray Scott is a gentleman and a proven leader, both on and off the basketball court," Dr. Smith added. "I am convinced that our program has taken a giant step in the right direction with his appointment."

The 37-year old Scott was head coach of the Pistons for 3 1/2 years until being relieved of his duties January 26 of this year.

Scott enjoyed the most success as a head coach during the 1973-74 season



Ray Scott and President James H. Brickley

when he directed the Pistons to a 52-30 regular season record—the best in the club's history—as well as a spot in the post-season playoffs. He was named "Coach of the Year" in the NBA for his

efforts that season.

In 1974-75, the Pistons again made the playoffs, with a 40-42 record. In his first season as head coach in 1972-73, then (Continued on page 2)

'Play Ball!' Is Call In the Air

(Continued from page 1)

Conference picks last season. Welch also was named Most Valuable Player in the Mid-East Regional tournament.

Also gaining All-MAC berths last season were shortstop Glenn Gulliver (.311 batting average last year) and catcher Jerry Keller (.294). Both of those players return this season.

Other veterans that will be back for another year are outfielders Thom Boutin (.304), Ted Dasen (.299) and Mike Lauerman (.176). Starting first baseman Jim Luckhardt, second basemen Doug Carreri and Randy Brier, and pitcher Mark Eighmey saw action as starters last year and are also returning.

1976 Baseball Schedule

Sun.-Sat., March 21-27	UC-Riverside Tournament
Sun. March 28	*Chapman College
Mon. March 29	Southern California
Fri. April 2	*Albion College
Sun. April 4	*Cincinnati
Tues. April 6	*OAKLAND
Fri. April 9	*MICHIGAN STATE
Sat. April 10	*Lewis
Sun. April 11	*Lewis
Tues. April 13	*Detroit
Fri. April 16	*Miami
Sat. April 17	*Ball State
Fri. April 23	*ALMA COLLEGE
Sat. April 24	*CENTRAL MICHIGAN
Sun. April 25	*MICHIGAN
Fri. April 30	*OHIO
Sat. May 1	*KENT STATE
Tues. May 4	*Michigan State
Fri. May 7	*Western Michigan
Sat. May 8	*Northern Illinois
Mon. May 10	*WAYNE STATE
Fri. May 14	*BOWLING GREEN
Sat. May 15	*TOLEDO
Sun. May 16	*DETROIT
Sun. May 23	*Southern Illinois
Fri.-Sun., May 28-30	NCAA Dist. Tourn.
Fri.-Fri., June 11-18	Col. World Series

*Doubleheaders

Home Games (in caps) begin at 1 p.m., and are played at the EMU Baseball Stadium located on the West Campus.

Science Fiction Convention Planned

Spaceships, Frankensteins, Hobbits and the future in general take center stage at a three-part science fiction convention to be held March 26-27 on the second floor of McKenny Union at Eastern Michigan University in Ypsilanti.

Science fiction authors Clifford D. Simak (Shakespeare's Planet) and James Gunn (The End of the Dreams) will appear through the weekend as guests of honor and keynote speakers, along with fellow SF authors Lloyd Biggle, Jr., Dean McLaughlin, J. Hunter Holly and T.L. Sherred.

The two-day SF convention gets under way Friday, March 26 with CONTAGION: A SCIENCE FICTION CARNIVAL FOR HIGH SCHOOL STUDENTS, co-sponsored by the university's Office of Admissions and Financial Aids and the EMU Science Fiction Club. Special features of CONTAGION include an authors' panel, a Star Trek presentation, and an auction of SF collector's items.

Activities will center around a one-day SF convention, CONCLAVE, on Saturday, March 27, to which the public is invited. CONCLAVE is sponsored by the EMU Science Fiction Club. The convention features the writers, guest speakers, a hucksters room, SF films, panel discussions and an art show. Admission is \$1.00 with tickets available at the door. The program begins at 10 a.m.

The third part of the science fiction weekend is the Second Annual Conference on Teaching Science Fiction, also on Saturday, and directed by Eastern Michigan University faculty member Dr. Marshall Tynn. It will include two workshops on teaching science fiction and a seminar on SF themes. About 50 teachers are expected from the Midwest area.

Saturday's panel discussion topics include "The Fantastic Cinema: An Inside Look," "The Shape of Fantasy: After Tolkien-What?" and "An Interview with Clifford Simak."

Participants

Nora Martin, associate professor of special education, was the keynote speaker Oct. 16 at a meeting of the Michigan Association for Educators and Learning Disabilities at Boyne Highlands. Her talk was entitled "Prescriptive Teaching: A Clinical Approach."

Judy McKee, assistant professor of educational philosophy, was the keynote speaker at a Detroit Association for the Education of Young Children meeting in February, speaking to administrators, teachers and aides on "Play and Learning for the Young Child."

Robert Ristau, head of the Department of Administrative Services and Business Education, was the keynote speaker at the morning session of the British Columbia Provincial Business Education Conference in Victoria, British Columbia. He spoke on "Personal Development and Human Relations in Business Education."

Marcello Truzzi, head of the Department of Sociology, participated Feb. 23 and 24 in the U.S.-Japan Conference on Cultural and Educational Interchange in their symposium "Agenda for the Future" as one of four members of a working group on Human Relations. The weekend conference was held in New York City.

Lyla Spelbring, associate professor in occupational therapy, was elected last month to the 1976-77 Board of Directors of the Council of Specialized Accrediting Agencies at their meeting in Atlanta.

Helen Hill, assistant professor of English language and literature, read a paper on the poetry of Mark Van Doren at the Children's Literature Association Conference at Temple University in Philadelphia March 14.

FACULTY AFFAIRS COMMITTEE ROUNDUP

The Faculty Affairs Committee, at its meeting Tuesday, March 16:

Heard a report by Vice-President Laurence N. Smith on the admissions program, which was followed by a discussion;

Was introduced to the newly-elected Faculty Assembly officers and heard a report on the status of Board of Regent recognition of the Faculty Assembly;

Discussed the pass-fail policy and proposed revisions to the policy;

Discussed the replacement of Robert Hoexter and Edward Compere by Russ Larson and Arthur Yahrmatter on the Faculty Affairs Committee.

The next meeting of the Faculty Affairs Committee will be Tuesday, April 20.

Bicentennial Notes



Enabling Act of 1849

"Section 1. Be it enacted by the Senate and House of Representatives of the State of Michigan, that a state normal school be established, the exclusive purpose of which shall be the instruction of persons, both male and female, in the art of teaching, and in all the various branches that pertain to a good common school education; also, to give instruction in the mechanic arts, and in the arts of husbandry and agricultural chemistry; in the fundamental laws of the United States, and what regards the rights and duties of citizens."

"Section 6. Said board of education will procure a site, and erect buildings thereby suitable for said institution in or near some village in this state, where it can be most conveniently done, and where, in their judgment, it will most subserve the best interests of the State."

"Section 7. They shall also establish a model school in connection with the normal school, and shall make all the regulations necessary to govern and support the same."

CENTER OF EDUCATIONAL RESOURCES



Interlibrary Loan Extends Local Resources

The Interlibrary Loan Service

Interlibrary Loan is a cooperative effort among many libraries to facilitate dissemination of information. The Eastern Michigan University Center of Educational Resources subscribes to the 1968 National Interlibrary Loan Code which states: "The purpose of Interlibrary Loan is to make available for research materials not owned by a given library. . . requests for materials from another library will be limited to unusual items which the

borrowing library does not own and cannot readily obtain at moderate cost. If an individual needs to use a large number of items located in another library, he should make arrangements to use them at that library.

Borrowers

Any faculty member or student may make a request from our Interlibrary Loan Office (located in the Humanities Division, third floor, room 315) for a book or periodical not owned by the Center. In general, libraries will charge for photocopies or microfilm of non-circulating materials. The patron is responsible for any charges incurred in the transaction, except for postage. (See also *Special Services* below.)

The Request

To make a request, fill out an Interlibrary Loan form, available at any reference desk, and give as much information as possible in order to expedite the loan.

Arrival of Loans

It usually takes from two to six weeks for materials to arrive on loan. You will be notified by phone or mail when your material arrives. Borrowing time (set by the lending library) is usually two to four weeks. Loans, except for photocopies, are sent to the Reserve Reading Room on the second floor. Students are required to use materials in this room only. Faculty may charge out loans (when permitted by the lending library), but must return them by the date on the blue circulation card. Photocopies are distributed from the Loan Office.

Special Services

The State Access Office will provide, through Eastern Michigan University's Interlibrary Loan Office, Xerox copies of periodical articles upon request. This service is limited to periodicals not in our collection. Since this service is funded on an annual basis, there is no assurance that it will continue. Processing time is approximately ten days.

Another rich source of research material is the Michigan Newspapers on Microfilm Project at the Michigan State Library in Lansing. In addition to the newspapers from every geographical area of Michigan, the collection includes many black, ethnic and labor newspapers published in the state. Cards for titles in the Project are in the main card catalog and the Humanities/Social Sciences catalog. Requests for borrowing materials are serviced by the Interlibrary Loan Office.

The Kentucky-Ohio-Michigan Regional Medical Library, supported by the National Library of Medicine, has allotted us a certain number of free interlibrary loan transactions for biomedical materials. If the ten member libraries in this network cannot supply the desired item, the request is referred to the National Library of Medicine in Washington.

The Center of Educational Resources is an Associate Member of the Center for Research Libraries in Chicago. From this Center we can borrow such materials as: Foreign newspapers, foreign and U.S. documents, foreign doctoral dissertations, war crime trials, children's books, old comics, foreign radio broadcasts, current and retrospective scientific journals and many other materials not available elsewhere.

Indexes for most of the holdings in the Center for Research Libraries are available in the Bibliography Section of the Center of Educational Resources. These indexes include a five-volume monograph catalog (Bibl. Z881 .C512), a two-volume serial listing (Bibl. Z6945 .C5335), and a one-volume newspaper listing (Bibl. Z6945.C4x).

We urge both students and faculty to take advantage of our membership in this facility.

If you have any questions about Interlibrary Loan, please call us—487-1016.

Scott Is New Basketball Coach

(Continued from page 1)

assistant coach Scott was named to replace head coach Earl Lloyd after just seven games, and led the team to 38 wins and 37 losses.

Overall, Scott is the only Piston coach ever with a winning percentage, coaching the team to 151 wins and 140 losses over the three and a half years.

A former University of Portland player, Scott played professional basketball with three different teams.

The 6-foot-9 Scott was a No. 1 draft choice of the Pistons in 1961 and played with the club until 1967. He then was traded to the Baltimore Bullets and played with them until 1970. From Baltimore, Scott jumped to the rival American Basketball Association (ABA) where he played for the Virginia Squires from 1970-72.

Scott had been with the Piston organization from 1972 until January, 1976.

Scott's appointment was formally approved by the EMU Board of Regents at its meeting Wednesday, March 17.

the adviser

A report from the Academic Services Center:

Late Withdrawal

We are now in the late withdrawal period, which extends until the last day of regular classes (April 19). During this time, a student can withdraw from a class only if he/she is earning a "C" or better in the class or the student can present written verification of emergency circumstances which prevent him/her from completing the course.

Withdrawal forms should be picked up at the Academic Services Center, 229 Pierce Hall. Withdrawal from the University (total withdrawal) is initiated at Registration, Briggs Hall.

STUDENT SENATE ROUNDUP

The Student Senate, at its meeting Tuesday, March 9:

Voted 14-1-5 to urge that student employees not partake in scab labor during the union strike and to refuse to perform the tasks of striking employees.

Unanimously approved a resolution giving a maximum of \$550 to the Amateur Radio Club for the purchase of equipment. It will automatically receive \$150 from allocations not claimed during the fall semester and additional funds not to exceed \$400 from money left over from the winter semester.

Referred to the Business and Finance Committee a resolution calling for a senate allocation of \$35 for the purchase of letters of recognition for tax assistance volunteers in the Student Government Office. The senate would also allocate \$100 to the Accounting and Finance Club for book scholarships.

Referred to the Political Action Committee a resolution showing senate support of House Bill 4512. The bill would make mandatory housing requirements illegal at any state-supported college or university for students over the age of 17.

The senate also elected Joan Sundberg, Debbie Pacholski and Alan Zaweski to fill at-large senate vacancies created by previous resignations.

Emergency on Campus?

CALL: 1-2-3

Special Report - The College Investment by Clifton R. Wharton, Jr.

Editor's Note: The following text, given by Michigan State University President Clifton R. Wharton, Jr., at the Winter Commencement of Northern Michigan University, December 20, 1975, addresses itself to the question of the value of a college education. It is presented here because of its timely and worthwhile message.

All of you graduates have had an exciting fall. The last term of college is always exciting, filled as it is with anticipation of that great big world out there — a world filled with challenges to be met and overcome. But you have also had extra excitement. Last week in Sacramento on national TV, your football team won a well-deserved championship. Hence, today is a time of joy, excitement, and anticipation. Looking back to my own graduation some 28 years ago, I cannot help but envy the sweet anticipation you must feel as you sit here today.

But perhaps your anticipation isn't so sweet after all. Perhaps you have been reading the countless articles saying that the world is not ready for you, that the jobs for which you have prepared yourselves have all dried up, and that your ticket to the American dream isn't worth the sheepskin it is written on. If that kind of news has soured this day for you, then you are probably asking yourselves "Was it all worth it?"

I am an economist by training, so I am used to looking at a situation and asking "is it worth it?" I am also an educator. I have read the gloomy (and I must add often contradictory) reports, and I am not afraid to have you, your parents, the taxpayers of this state, and society at large ask of a college education "is it worth it?"

My resounding answer is: A college education is worth it! It will be worth it to you and to the society that established this university for you. In the next few minutes, I intend to discuss briefly the value of higher education to you, personally, and to society.

In recent years, it has become quite fashionable to belittle the value of a college education. But these recurring news stories about cab drivers with Ph.D.s in Renaissance history really prove nothing to me except the danger of using a few exotic isolated cases, as though they accurately described all graduates. Too often, I am afraid, the media focus on the individual case and ignore the big picture. Reporters, like business men, like to talk about "the bottom line," but in this instance they do not seem to be looking at that "bottom line."

Recent U.S. Department of Labor statistics showed that 9.1 percent of the U.S. work force is unemployed. Among those persons without a high school diploma 15.2 percent were unemployed; 9.1 percent of those with a high school diploma were out of work; and 6.9 percent of those with one to three years of college were unemployed. What about college graduates? Only 2.9 percent of the work force with four years of college were unemployed. Thus, those who finish college with a degree are 50 percent more likely to be employed than those who drop out before graduation. And they are three times more likely to be employed than high school graduates. High school graduates have a 9 percent unemployment rate while for college graduates it is less than 3 percent. The irony is, no one argues for getting rid of high school or for cutting back on their funding because they are worthless!

College graduates are more likely to be employed. Our Placement Service at MSU reports that the number of graduates who do not have jobs immediately upon graduation has not increased over the last two years, and that current trends indicate that hiring should increase by five or six percent this year.

Of course, the gainsayers point out that many of those with college degrees today are underemployed. The cab driver with the mind full of Michaelangelo, and the sales clerk who majored in Old English are the typical examples they use. Again, it is a matter of concentrating on the exception rather than the general pattern. Those who say a college education is no longer valuable fail to recognize that the level of education and training required for many jobs has risen steadily over the years. In many factories

20 years ago, it was unheard of to have a production foreman with a college degree; today many of those same factories require a college degree of foremen. That is not underemployment, that is the reality of our present technological society. Similarly, less than half a century ago, most primary school teachers had no more than a high school diploma, and newspapermen who had been to college were looked upon suspiciously by their peers, and probably would have been called "underemployed" by the day's standards (if the word had been coined).

Daniel Bell, in his book "The Coming of the Post Industrial Society" argues that the United States is a society in transition from a manufacturing economy to a service economy. There have been more white collar employees than blue collar employees in this country for almost 20 years, and the number of people engaged in service industries — such as education, government, health, recreation, finance and communication — will approach 70 percent of the work force by the end of this decade. In this changing economy, there is no question that there is room for you since most service jobs require a college education or degree. Perhaps the employee you replace will have had less education than you, but before you see that as an indication of underemployment, first stop and realize that the job has probably changed since your predecessor was hired. And you will be expected to use what you have learned here at Northern Michigan University.

I conclude from Dr. Bell's analysis that contrary to the critics of higher education, our post-industrial society will experience a continuing, long-term upward press of education levels required for specific jobs. Jobs which once required a high school diploma will now require an associate degree and those that once required an associate degree will require a bachelor's degree. You will find that far from being worthless, the investment which you and the state have made in your education will prove to be one of the wisest investments you could have made.

The next question is money. Is the world out there willing to pay you for the degree you will receive in a few minutes? No, of course it isn't simply going to reward you for your diligence, hard work and sacrifice. But your degree will continue to bring higher financial rewards, as college degrees have always done. You will earn significantly more during your lifetimes than your counterparts who did not go to college. The average member of this graduating class will earn, in his or her first job, a starting salary ten percent higher than the average annual earnings of all employed persons in the country.

Ten years ago, however, your starting salary would have been 20 percent higher than the average wage earned in the country, and it is comparisons such as this that lead some people to talk about the "declining value of a college education." We are constantly reminded that during the 1960's there were five jobs waiting for every college graduate, and starting salaries soared each year. It was a boom decade for higher education, but it was also an unnatural period in our history. We should not compare today's situation with the 1960's because the 60's was a temporary abnormality. Today's job market for college graduates, depressed as it seems in comparison with that of ten years ago, is more normal in many ways than those frenetic years. If you feel denied because you were not born ten years sooner so as to cash in on the bonanza, I recommend that you begin to look ahead rather than back. (And you might also ask your parents what the job market was like for college or even high school graduates in the 1930's, 1940's, and 1950's if you want to know what "normal" times are like.)

Your college degree is still the best thing you have going for you. As long as the nation's economy is down, it is not likely to work miracles, but it still opens doors, it still says something about you.

Beyond the obvious value to you personally, the degree you receive today also represents an investment by society. The social value of an educated citizenry is so ingrained in the American tradition that, I am afraid, some people no longer

take it for granted. Thomas Jefferson realized that education was the key to insuring that aristocracy — a phenomenon known in every society no matter how loudly some deny it — that aristocracy in this country should be a *natural* aristocracy based upon ability rather than birth. Let us remember that education has been the great leveler in our society; and it has paid dividends in terms of human development and economic growth for all citizens far, far in excess of the investment.

That's the educator talking — or perhaps the social philosopher. Let me switch again to my economist's hat, because the arguments being raised about the value of higher education today are largely economic arguments. "Is it worth it?" asks the taxpayer when he or she looks at the millions of dollars going into higher education. Again, I say as strongly as I can, "yes it is worth it — well worth it!"

The state gains from your education in two basic ways. It gains because it has helped equip you to contribute more to your community as a more productive citizen, and because it has contributed to the increased productivity of the economy through the knowledge that you will take to your profession. These benefits are almost impossible to measure, but it takes only common sense to recognize that they exist. Your education has also equipped you to make better decisions with respect to your own future and that of your community. You have the tools to make a difference in that community. Secondly, your knowledge will be an economic asset to your community. Future economic growth will depend greatly on the knowledge symbolized by the degree you carry from here today.

But there is even more to this role of higher education. Northern Michigan University, and every other public university in the state, also make a critical contribution to the commonwealth through the work taking place in their libraries, fields and laboratories. The return on investment for on-campus research is again difficult to measure accurately or completely. We will not really know how much the research done at the Chatham Experiment Station here in the U.P. in the development of beef and dairy herds will affect the economy of the Upper Peninsula, but we do know it will be significant. At Michigan State, we proudly point to a faculty member almost 100 years ago whose work led to the invention of hybrid corn. What Professor Beal did, quite simply, was make corn the major economic factor it is to American agriculture today. The dollar value of his research is incalculable. Agricultural researchers at universities discovered the first vitamin and the antibiotic streptomycin, and introduced soybeans as a crop in this country. On our campus recently, the first vaccine for a naturally occurring cancer was developed; the cancer is in chickens but the implications for human medicine are potentially significant.

I have cited only agricultural research as examples, but research taking place in all departments of all public colleges and universities has direct and indirect effects on the economy of this state. True, research has not solved every one of society's human and technological problems, as many predicted it would during the post-Sputnik madness of the late 1950's, when pouring money into research was the country's ice bag for a bruised ego. Perhaps we are suffering today for promising or expecting more than could be delivered. But what should not be lost sight of is that the vast majority of all basic research in this country is done in institutions of higher education, and without this basic research, the applied research that results in new consumer products, new jobs, and new economic growth, will not take place.

Society's investment in higher education is an investment in human capital, and human capital is the basis for any growth in productivity society can hope to experience. As I pointed out earlier, our economy is becoming more and more dominated by service industries; the copper and the pine of the Upper Peninsula are not the raw materials upon which future economic growth of this beautiful country will depend — you are!

Your knowledge and your imagination are the most valuable assets this area has, and that the state has.

I wish I could report that the State of Michigan fully understands the importance of this investment in human capital, but at just the time when dollars going toward higher education ought to be protected and increased, they are being cut back. While the appropriation cuts being effected this year can be attributed to a bad economic year in Michigan, there is a long-term, downward trend in state support of higher education that indicates to me a dangerous and counterproductive confusion about our state's priorities.

During the last ten years, the State of Michigan's support for our four-year colleges and universities has declined from 20 percent of general operating expenditures to 14 percent.¹

Total dollar support did go up during these years, but so did the number of students whom we serve. And if you take out the impact of inflation and the higher costs of the more expensive, complex curricula offered today compared with ten years ago, we have lost ground. Another measure of how far we have slipped is a comparison with other states. Ten years ago, Michigan ranked seventh in the nation in its per capita support of higher education; today we rank 26th, slightly above the national average. And in terms of appropriations per \$1,000 of income — measured against our ability to pay or the wealth of our citizens — Michigan ranks 34th! How did this happen? Support for higher education simply did not keep pace. Our ten-year increase in support for higher education placed Michigan 45th among the 50 states!

This downward slide has become especially severe this past year as the national recession hit our state with greater impact. All branches of government have been affected by budget cuts and reductions. We in higher education have tried to shoulder our share of the burden. But there is a danger here to which we must be alert. In the competition for reduced state dollars — as education, social services, prisons, roads, etc. all argue the critical importance of their respective roles — let us remember that not all state expenditures have the same effect upon productivity and growth of our state. Some state dollar expenditures are more "high powered" than others in increasing total state income and thus state revenues. If we do not protect those dollars that help the size of the total pie to grow, many of the other worthy and needed expenditures simply cannot be sustained. And higher education dollars are "high powered" dollars.

There is a critical point beyond which cutting back can dangerously reduce our ability to reverse the downward trend and to assure future growth. As one of my presidential colleagues reminded us the other day, "you don't eat your seed corn." I am afraid that in Michigan higher education, we may have already reached that point. For example, one of the most devastating impacts of budget cuts at Michigan State University this year fell on the Agricultural Experiment Station and the Cooperative Extension Service. The agricultural sector of this state is the healthiest aspect of Michigan's economy; it was the bright spot all through the recent recession and remains the third largest contributor to our state economy. At a time when investment in agricultural research and development should be expanding to continue the productivity of this vital sector, we have the irony of budget reductions and lay-offs. We are starting to eat our seed corn.

Over the years, society has generally believed that its investment in an educated citizenry was "worth it," and I can only hope that the general public will soon apply the pressure necessary to halt the current erosion in the level of investment in this vital form of human capital.

As I conclude, let me congratulate each of you on your achievement. And let me assure you that all of this will prove to have been worth it — to you personally, and to the rest of us who have invested in your education. The world isn't going to come to you, as it seemed to come to your brothers and sisters 10 years ago. Your degree will not be an

¹For further details see, Presidents Council of State Colleges and Universities, "Higher Education 1976 and A Review of the Decade 1966-76," December, 1975.

Events of the Week

March 22 - 28

Monday, March 22

BASEBALL - EMU will participate in the Riverside Tournament with Arizona State, Cal. State University at Riverside, Brigham Young, Tulsa, Stanford, Oregon State and Delaware through March 27 in Riverside, Cal.
COLLOQUIUM - The Physics and Astronomy Department will present a colloquium by Prof. N.W. Reay, National Accelerator Laboratory, Batavia, Ill., on "Search for Charmed Particles" at 4 p.m. in 307 Strong.
MEETING - The Women's Commission will meet from 3 to 5 p.m. in the Reception Room, McKenny Union.
THEATRE - Lab Theatre will present "Two for the See Saw," a thesis production, at 8 p.m. in the Quirk Lab Theatre. Admission is \$1.
EXHIBIT - Drawings by students of EMU professor of art John Pappas will be on display from 8 a.m. to midnight today in the library main lobby.
EXHIBIT - School art from Lincoln Consolidated, Saline and Ypsilanti schools will be on display from 8 a.m. to 5 p.m. weekdays in the Sill Gallery through March 26.

Tuesday, March 23

THEATRE - Lab Theatre will present "Two for the See Saw," a thesis production, at 8 p.m. in the Quirk Lab Theatre. Admission is \$1.
MEN'S TENNIS - EMU will play at Nichols St. in Thibodaux, La., beginning at 3 p.m.
MEN'S GOLF - EMU will compete in the Miami Invitational in Miami, Fla., through March 26. Today's activity begins at 8 a.m.
MEETING - The Student Senate will meet at 7 p.m. in the main lounge of McKenny Union.

Wednesday, March 24

LUNCHEON/DISCUSSION - "Student Services" will be discussed by EMU Vice-President for Student Affairs Laurence D. Smith at the Faculty Luncheon/Discussion today at 11:45 a.m. at the University Lutheran Chapel of the Resurrection. Lunch is available for \$1.50.
FILM - "Environmental Systems and Industrial Man," a videotaped lecture by William Cooper of Michigan State University, will be shown at noon over Channel Five, Campus TV. The film may be viewed in Brown-Munson and classrooms equipped with TV receivers. Room 123 Library has been reserved for the convenience of viewers.
FILM - McKenny Union Directorate (MUD) will show "Young Frankenstein" at 7 and 9 p.m. in Strong Auditorium. Admission is \$1.
MEN'S TENNIS - EMU will face Southeast Louisiana at Hammond, La., beginning at 3 p.m.
MEN'S SWIMMING - EMU will participate in the NCAA Championships at Providence, R.I. through March 27. Today's action begins at noon.
MEETING - The Residence Hall Association will meet at 6 p.m. in the Walton-Putnam Conference Room.
MEETING - The Residence Hall Educational and Cultural Council will meet at 9 p.m. in the Sellers Conference Room.
MEETING - The University Chess Club will meet at 6:30 p.m. in the Stratford Room, McKenny Union.

Thursday, March 25

FILM - MUD will show "Young Frankenstein" at 7 and 9 p.m. in Strong Auditorium. Admission is \$1.
MEN'S TENNIS - EMU will face Louisiana St. at Baton Rouge, La., beginning at 3 p.m.
THEATRE - Brown Bag Theatre will present a program from noon to 1 p.m. in the Quirk Lounge.
MEETING - The Gay Peoples Alliance will meet at 8 p.m. in the Huron Room, McKenny Union.

Friday, March 26

CONFERENCE - "Contagion: A Science Fiction Carnival for High School Students," with guest speakers, panels and workshops for teachers of science fiction, will be presented from 10 a.m. to 3 p.m. in McKenny Union.
CONCERT - EMU students Maritsa Madias and R. Cross will present a Chamber Recital at 8 p.m. in Holy Trinity Chapel.
FILM - MUD will show "Young Frankenstein" at 7 and 9 p.m. in Strong Auditorium. Admission is \$1.
LECTURE - Joseph Pugliese, art historian and ceramist from California State University, will speak on "History of Ceramics" at 2 p.m. in Sill Lecture Hall I. The appearance is part of the art lecture series.
MEN'S TENNIS - EMU will face Tulane at New Orleans, La. beginning at 3 p.m.
MEN'S TRACK - The Huron Relays, a high school championship track meet, will be held March 26 and 27 in Bowen Field House. Today's activity begins at 5 p.m.
LECTURE - Black poet and activist Sonia Sanchez will speak at 7 p.m. in the Roosevelt Auditorium. The talk is part of Black Solidarity Days, sponsored by the Black Student Association.

Saturday, March 27

FILM - MUD will show two Marx Brothers features, "Monkey Business" and "A Night at the Opera," at 6:30 and 9:30 p.m. in Strong Auditorium. Admission is \$1.
MEN'S GYMNASTICS - EMU will host the Eastern Invitational at 12:30 p.m. in the Warner Gym.
MEN'S TENNIS - EMU will play Northeast Louisiana at 10:30 a.m. and face Dillard at 3 p.m. Both games are in New Orleans, La.
CONCLAVE - A one day Science Fiction Convention for University students, sponsored by "Waldo and Magic, Inc." and the EMU Science Fiction Society, will begin at 9 a.m. in McKenny Union.
CONFERENCE - The Second Annual Conference on Teaching Science Fiction, sponsored by the EMU English Department, will be held from 9 a.m. to 6 p.m. in McKenny Union.
CONFERENCE - The Michigan Black Student Association will hold the Midwest Regional Black Student Conference in the Hoyt Conference Center.
CONCERT - Akron pianist Nicholas Constantinidis will perform for the benefit of St. Nicholas Greek School of Ann Arbor, at 8 p.m. in Pease Auditorium. Tickets are \$4, \$3 and \$2.

Sunday, March 28

BASEBALL - EMU will face Chapman College at noon in Fullerton, Cal.
FILM - MUD will show two Marx Brothers features, "Monkey Business" and "A Night at the Opera," at 6:30 and 9:30 p.m. in Strong Auditorium. Admission is \$1.
COFFEEHOUSE - The Gallery Coffeehouse in the Huron Hiway will feature guest artists at 8 p.m.

PHOTO OF THE WEEK



'Who's Been Driving My Truck?'

Photo by Keith Hodkinson
 A colleague and I were returning from lunch. As we walked out of the Sill Parking Lot, he said, "If I didn't know better, I'd swear there was a giant teddy bear in the back of that truck." "You're right," I replied, "it is." Fortunately, our photographer walked by a short time later and captured irrefutable proof of what we had both seen. Believe it or not.

Value of College

(Continued from page 3)

automatic meal ticket. Perhaps too long have we tolerated the wrong and arrogant belief that a degree and knowledge carried with it some automatic social prerogative - like a high-paying job or a privileged elite status. Yes, you will eventually reap financial rewards. But if that is the only standard against which you will determine whether or not your personal investment in your education was worth it, then no matter how rich you may become, your education - if not your investment - will have been a failure. For remember, there is and must be at core a humane and personal dimension to a college degree. Hopefully, your education has helped you to become a better person and to give a richer definition of living - for living is to be.

Publications

John Ginther, professor of mathematics, is coauthor of an article in a new book entitled "Activity-Oriented Mathematics: Readings for Elementary Teachers," published by Prindle, Weber and Schmidt in Boston.

Richard K. Brewer, assistant professor of operations research and information systems, had a paper entitled "Documentation Standards for Beginning Students" accepted for publication in the Proceedings of the Special Interest Group on Computer Science Education of the ACM Symposium held Feb. 12-14 in Disneyland, Cal.

REGENTS ROUNDUP

The Board of Regents on March 17:

Accepted gifts and bequests for the month of February, 1976, totaling \$24,701.
 Accepted three educational grants totaling \$16,212.
 Released a right-of-way across a portion of University owned property to the Statutory Drainage Board for Ypsilanti Township Drain No. 14 for the purpose of constructing and maintaining a storm drain.
 Increased room and board rates in the residence halls by \$80, the room only rate by \$35, the single room rate by \$25 and the rent for married student apartments by \$3. Residence hall rates will be effective with the fall, 1976, semester and married housing rates July 1, 1976.
 Adopted an official corporate seal for the University.
 Appointed Ray Scott head men's varsity basketball coach.
 Approved four staff retirements.
 Set April 21 as the date for the next meeting.

Openings

The Personnel Office announces the following vacancies:
 AP-5 - \$7,883 - 11,034 - Sr. Computer Operator - Administrative Computer Center
 AP-7 - \$10,826 - 15,163 - Accountant II - Student Accounting
 Teaching Position (Dance Dept.) (Fall Term '76) - Salary and rank dependent upon qualifications - Dept. of Health, Physical Education, Recreation and Dance.
AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER

WEMU • 88.1 fm program guide

	NOON	3:00	5:00	5:15	5:30	6:00	6:30	6:45	7:00	7:15	7:30	10:00	10:15	
M T W T F S S	COMPOSITE		THE RADIO MAGAZINE				SPECIAL OF THE WEEK		IT SOUNDED LIKE THIS		EVENING CONCERT	NEWS	LATE NITE SHOW	
	NEWS ON THE HOUR		NEWS AT 5:00				VOICES IN THE WIND							
	12:30	IRS COUNTDOWN	SPORTS AT 5:15											
	1:30	HELP WANTED	FEATURES				COMMUNITY CALENDAR	TOWARD EQUAL RIGHTS	STYLES OF RELIGION AND ETHICS					
	2:30	SPORTS	INTERVIEWS				INSIGHT		* MARKET-PLACE	MAN AND MOLECULES				
	3:30	LOCAL EVENTS	COMMENTARY											
	4:30	TONIGHT ON WEMU					EDITORIAL REVIEW	MICHIGAN OPINION	SOVIET PRESS REVIEW		ENVIRONMENT			
			NEWS	SPORTS	JAZZ SCOPE									
	OPERA THEATRE		FOLK FESTIVAL	DIMENSIONS IN BLACK										

*HISTORY IN THE NEWS, WITH HISTORY PROFESSOR TED HEFLEY

HIGHLIGHTS:

MONDAY, 7 p.m. - IT SOUNDED LIKE THIS takes a musical travelogue of the U.S.A.

WEDNESDAY, 6:30 p.m. - Dennis Hartford lists things to do and see in and around town on COMMUNITY CALENDAR.

FRIDAY, 6:30 p.m. - EDITORIAL REVIEW samples the opinions of area newspapers' editorial pages.