

A full room packed the Board of Regents meeting May 19 when the board accepted the 1992-93 budget strategy which reduces spending by \$3.5 million. The board will hold a special meeting June 25 to adopt next year's budget.

Budget strategy cuts costs by \$3.5 million

While the 1992-93 General Fund operating budget will reflect approximately 3 percent growth over the current year, approximately \$3.5 million in budget reductions will be required to balance the budget as part of the 1992-93 budget strategy presented to the EMU Board of Regents at its regular meeting May 19.

The strategy assumes a balanced budget of \$119.8 million based upon no increase in EMU's state appropriation, outside of the Michigan Public Schools Retirement System expense transferred to the University this fiscal year, and an increase in resident undergraduate tuition of less than 10 percent, as well as increases in graduate and nonresident tuition.

In addition, the strategy incorporates \$4.35 million to fund increased wage commitments; a graduate assistant stipend increase of \$72,000; no carry-forward General Fund balance with the exception of carry-forward account balances; increased employee benefit costs; and \$750,000 reallocated within the budget for program improvements, primarily to assist in reaccreditation by the National Council for the Accreditation of Teacher Education.

To balance the budget, the total operating base will be reduced by \$3.5 million or approximately 3

percent of the total budget.

Consistent with the basic mission of the University, which is centered on instructional programs, the planned reductions are designed to have "minimum impact on course offerings and enrollments" and, therefore, not erode the revenue base.

With regard to employment, the plan recommends a decrease in the faculty salary base through a reduction of five to 10 tenure-track faculty positions, offset by the reallocation of funds to lecturer positions; and the elimination, transfer or freeze of 40 administrative, professional/technical and support staff positions, resulting in 20 to 25 terminations.

Some programs which serve external constituencies, such as the Overseas Educator Program, Urban Teacher Program, School Superintendent Screening Service, Alumni Outreach Program and the W.K. Kellogg Foundation-sponsored Early Childhood Development Program, will be discontinued and others may be reduced.

Several academic programs will be phased out, offering limited budget reductions in 1992-93, but having greater impact in the following year. World College funding will be reduced 20 percent.

Research Excellence program sup-

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Campus Capsules

Workshop Planned On Coping With Change

The Center for Substance Abuse Education and Training will host a workshop titled "Transition Survival Skills," Wednesday, June 10, from noon to 1:30 p.m. in Room 217 Pray-Harrod.

The workshop will explore techniques to cope with changes at work or in your personal life.

Call 7-1109 for more information.

Adopt-a-Flower-Bed Program Underway

The Physical Plant currently is taking orders from individuals and departments to participate in the fifth annual "Adopt-a-Flower-Bed Program."

To help make the campus beautiful for summer, you can choose an area you would like to plant and be responsible for over the summer. Physical Plant crews will prepare the site and supply the flowers; you will plant them, weed and water the area until fall.

For more information or to place an order, call Jeff Allen at 7-4194.

Golf Outing To Benefit Women's Sports Programs

The fourth annual Lucy Parker Women's Athletic Endowment Fund Golf Outing will be held Thursday, June 18, beginning at 8 a.m. at EMU's Huron Golf Club, 1275 S. Huron in Ypsilanti Township.

Proceeds from the outing will benefit the Lucy Parker Endowment Fund at EMU, which supports the continued growth, development and progress of women's intercollegiate athletic programs at the University.

The fund is named for Parker, former associate athletic director at EMU, who retired one year ago. She will serve as honorary chairwoman for this year's outing.

The \$100 per person entrance fee (\$125 after May 18), which is partially tax deductible, will include a continental breakfast, 18 holes of golf, carts, prizes, beverages on the course, a social hour, luncheon and

a contribution to the endowment fund.

People interested in attending the social hour and luncheon only will pay \$40.

Participants may join the outing, which will be a scramble tournament event, as individuals or teams.

Reservations should be made by June 10 by calling Carole Huston, EMU associate athletic director, at 7-1050.

Tuition Waiver Changes Must Be Reported

The Benefits Office is reminding faculty and staff that anyone using tuition waivers must make written notification to that office of any changes in hours requested from the original application each semester.

Failure to do so may result in loss of the tuition waiver that semester.

Girls' Summer Volleyball Camp Is Scheduled

EMU will host two sessions of a summer volleyball camp for sixth through 12th grade girls July 12-16 and 19-23.

The camp is run by EMU's Head Volleyball Coach Nona Richardson and staffed by her assistants and players.

The daily schedule will include training in volleyball fundamentals, combination drills and team strategies. Participants will be split up according to age and ability levels.

The \$200 camp fee includes room and board, camp t-shirt, a pizza dinner, an ice cream feast, awards, facilities and equipment, videos and games, swimming and athletic training. There also is a \$160 commuter option.

The deadline for registration is June 20; space is limited.

For more information, call 7-0291 or 7-2235.

'Fun Book' Tigers Tickets Available

The Detroit Tigers have set aside three game dates for the two-for-one coupons in this year's EMU "Fun Book," sold last fall throughout campus. The available dates are June 11 vs. Baltimore, July 9 vs. the California Angels and Aug. 10 vs. the New York Yankees.

The Fun Book has an address error for ordering the tickets. To order your tickets, send a coupon from the book, the game you want to attend and a money order or check for \$10 made out to "Detroit Baseball Club" to: EMU Fun Book, c/o Tiger Stadium, 2121 Trumbull, Detroit, MI, 48216.

Rec/IM Sports Camp Enrolling Children

The Recreation/Intramural Department currently is registering children ages 9-14 for its 1992 summer sports camps, to be held in three sessions, June 15-26, June 29-July 10 and July 13-24.

For more information or to register, call Tina Ford or Jack Moffett at 7-1338.

Children's Institute Plans Elementary Day Camp

The Children's Institute currently is enrolling children in its "Flights of Imagination" summer camp.

Designed for children entering kindergarten through fifth grade next fall, the camp will be offered in five two-week sessions beginning June 15 and ending Aug. 21.

For more information, call Lorraine Paaffenroth at 7-1126.

WEMU-FM Has New Jazz Program Host

Effective May 23, Mary Ellyn Cain is the new host of WEMU-FM's (89.1) Saturday evening jazz program.

Cain took over the 6:30 to 9 p.m. Saturday slot from Paul Pazz and his "Essential Troubadour" show after Pazz left the station to pursue other interests.

Top Reasons Employees Left EMU in 1991

Below, in rank order, are the top reasons terminating employees gave for leaving EMU in 1991, along with the percentage of respondents who listed that reason. They are based on an exit survey which 44 percent of terminating employees completed last year.

- 1) Better job opportunity (37.9%)
- 2) Retirement (37.9%)
- 3) Low rate of pay (24.1%)
- 4) Career change (17.2%)
- 5) No promotional opportunities (15.5%)
- 6) Compensation not tied to performance (13.8%)
- 7) Health reasons (13.8%)
- 8) Family/home responsibilities (12.1%)

Staff turnover rate drops 3% in 1991

EMU's 7 percent employee turnover rate in 1991 was the lowest rate in nearly 10 years, according to a report submitted to the Board of Regents May 19.

Last year's 7 percent rate, down from 10 percent in 1990, was the lowest since 1982 when it also was 7 percent. In the intervening years, EMU's employee turnover rate had peaked at 11 percent in 1989.

The 1991 turnover rate also is significantly below that year's national average for both the manufacturing (10.4 percent) and non-manufacturing (9.78 percent) sectors.

The annual report, titled Employee Termination and Tur-

nover Statistics, prepared by the Benefits Office, also analyzes the factors influencing employee turnover as well as the overall perceptions of terminating employees toward service levels, the work environment and benefits at EMU.

It's based on an exit survey given to terminating employees, of which 44 percent completed in 1990.

The report cited the economy as the "most apparent" reason for the turnover rate decline in 1991, noting that "as the number of available positions continues to decline and benefit cost-sharing escalates among the majority of outside employers, fewer employees are opting to in-

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Budget Strategy

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port will be cut 30 percent and sports information coverage and media guides for intercollegiate athletics will be eliminated except for football, basketball and baseball. The federally assisted Employee Assistance Program will be eliminated.

Within the University administration, reorganization and reassignment of responsibilities will occur. This will include a reduction in the number of academic departments in the College of Business and a reduction in academic administration, as well as reductions in the senior administrative staff in each division. In the President's Office, for example, the Office of Strategic Planning will be eliminated and responsibilities reassigned.

Staffing in Career Services and athletic administration will be reduced and some internal services will be reduced. Where possible, services that could be performed more effectively by specialized, contracted personnel will be outsourced.

Other cost-savings measures will include: the renegotiation of service contracts for energy, trash collection and equipment maintenance; refinancing existing University debt to take advantage of currently low interest rates; discontinuing some institutional/corporate memberships; a 30 percent, or \$125,000, reduction in discretionary travel budgets for conferences, workshops and individual professional development; reduced skilled maintenance services; reduced use of overtime; a 10 percent reduction in General Fund support to the Corporate Education Center; and the reassignment of some services, such as in Counseling Services, and recreation/intramural support to the Auxiliary (self-supporting) Fund.

Intending to minimize its impact on students, the strategy preserves the current level of student employment and increases the number of

graduate assistantships in accordance with the University's five-year plan. And although the scholarship budgets will be maintained, increased tuition imposes a greater cost for approved scholarships, which will essentially reduce the actual number of scholarships offered.

Implementing the planned budget strategy will maintain faculty, staff and student compensation at 75

percent of the total budget; maintain enrollments at planned levels, producing approximately 560,000 student credit hours in 1992-93; result in student funding of 43 percent of General Fund operations; produce a structurally balanced budget with a supportable base for planning subsequent year budgets; and maintain all basic programs and services central to the University's mission.

University debt to be refinanced

Citing a net present value savings of more than \$1 million dollars due to currently low interest rates, the Board of Regents May 19 authorized the administration to refinance the existing University debt through the issuance and delivery of refunding bonds.

The board also authorized the pledge of EMU general revenues to support the bond issue in an amount not to exceed \$53.5 million and required net savings to be demonstrated prior to any bond purchase agreement.

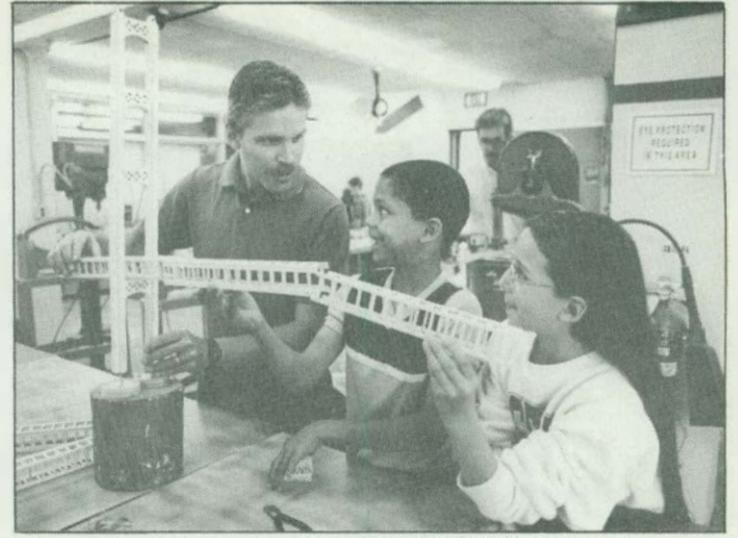
Terms of the board resolution included: that bonds will be issued only for the purpose of refinancing existing debt; that proceeds will be used primarily to refund the 1986 Student Fee Bonds and same year Housing Bonds, establishing a debt service reserve fund if needed; that interest rates will not exceed 6.95 percent per year or a lesser rate to incur acceptable savings; and that bond maturities will begin no earlier than Oct. 1, 1992, and occur no later than 2014-15, the existing term of the University's debt.

The resolution also stipulated that bonds may be secured with general revenues, including fees, deposits, receipts and income from students, facilities and auxiliary systems, but excluding Student Activity Facility fees, restricted or Foundation funds, state appropriations and up to 10 percent of collected annual general revenue in the form of a future special fee or fees established and designated by the board for exclusion.

In addition, the board designated the acting vice president for business and finance as an authorized officer.

Benefits of the refinancing authorization include projected net savings of more than \$1 million, better University debt coverage ratios and a broader ability to issue future debt if the board desires, anticipated lower bond insurance premiums and interest rates on the refunding bonds and future bonds, and the replacement of restrictive administrative indentures on the current bonds.

The cost of refinancing will be approximately \$600,000 which will be funded out of bond proceeds.



Steve Gilzow (left), a fourth-grade teacher at Paddock Elementary School in Milan, helps two students with construction of a 33-foot model of the Mackinac Bridge May 15 in Goddard Hall. The class undertook the project as part of a history lesson.

Milan 4th graders build Mackinac Bridge Model

Fourth graders from Steve Gilzow's class at Paddock Elementary School in Milan were on campus May 15 constructing a 33-foot model of the Mackinac Bridge in Goddard Hall.

The class, which has been studying the history, construction and use of the bridge, used toothpicks and wood to construct one-foot sections of the model which then was connected. Rope and thread were used to create the supporting suspension cables and small wooden vehicles were constructed to simulate bridge traffic.

According to Dr. Lewis Kieft, professor in the EMU Department

of Business and Industrial Education. "Considerable efforts have been made to make the bridge model as authentic as possible.

"During the (previous) two weeks, some students had been working in teams preparing to construct road sections. Other students constructed forms for the concrete pillars which support the bridge towers," he said.

Kieft and EMU mathematics Professor John Ginther have been coordinating the activity with Gilzow.

For more information, call Kieft at 7-1231.

Theaters plan 'Spring Fest' of plays

The Communication and Theatre Arts Department will present three plays next month during its "Spring Fest of Comedy and Music."

The plays include "The Tolstoy Story Play," "Tintypes" and "Rumors."

"The Tolstoy Story Play," by playwright V. Glasgow Koste, will be presented by EMU's Theatre of the Young Thursday and Friday, June 4-5, at 8 p.m. and Saturday, June 6, at 10 a.m. and 2 p.m. in Sponberg Theatre.

It dramatizes Leo Tolstoy's fables into new life and translates them into the "here and now," featuring both humor for children and satire

adults will enjoy.

All tickets for "The Tolstoy Story Play" are \$5.

The musical "Tintypes," by Mary Kyte, Mel Marvin and Gary Pearle, will be presented Saturday, June 6, at 8 p.m.; Sunday, June 7, at 7 p.m.; Friday, June 12, at 8 p.m.; Saturday, June 13, at 8:30 p.m.; Thursday, June 18, at 8 p.m.; and Saturday, June 20, at 5 p.m. in the Sponberg Theatre.

"Tintypes" is a celebration of American music and spirit from the years 1890 to 1917. Five figures from the turn of the century will sing 50 musical numbers, including "The Yankee Doodle Boy," "Ken-

tucky Babe," "Stars and Stripes Forever," "Meet Me in St. Louis," "In My Merry Oldsmobile," "America the Beautiful," "Bill Bailey Won't You Please Come Home," and "Toyland."

Neil Simon's comedy "Rumors" will be presented Thursday, June 11, at 8 p.m.; Saturday, June 13, at 5 p.m.; Friday, June 19, at 8 p.m.; and Saturday, June 20, at 8:30 p.m. in Quirk Theatre.

Described as a "wham bam, doors slam, thank you ma'am, roller coaster ride of hilarity," "Rumors" centers around a deputy mayor of New York and his wife who invite four couples over to

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Employee turnover

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initiate job searches or terminate their active employment status."

On average, there were 1,811 employees at EMU in calendar year 1991, of whom 133 or 7 percent terminated employment during that year.

Of the 133 employees who separated from EMU in 1990, 54 were men (40.6 percent) and 79 were women (59.4 percent). By race, 109 white employees (82 percent) left EMU, followed by 21 blacks (15.8 percent), two Asian Pacific Islanders (1.5 percent) and one Hispanic (0.8 percent).

The most compelling reasons given for leaving Eastern Michigan, in rank order, were: better job opportunity, cited by 37.9 percent who left; retirement (also 37.9 percent); low rate of pay (24.1 percent); career change (17.2 percent); no promotional opportunities (15.5 percent); compensation not tied to performance (13.8 percent); health reasons (13.8 percent); and family/home responsibilities (12.1 percent).

Among employee groups, the survey showed a decline in the turnover rate for clerical/secretarial employees for the second year in a row, from 10 percent in 1990 to 6 percent last year, the lowest rate and first single-digit rate that group has had since 1983's 7 percent.

The combined rate for administrative/professional, professional/technical and athletic coaches also fell, from 15 percent in 1990 to 10 percent in 1991. And the food service/maintenance/skilled trades group turnover rate declined from 16 percent to 12 percent.

Turnover rates rose slightly for the faculty and police officer/sergeants (FOP) employee groups, from 4 percent to 5 percent for faculty and from 6 percent to 10 percent for police officers.

Survey respondents also were asked to list their 10 most favorable aspects of working at EMU and cited: dental insurance, paid holidays, paid vacations, paid sick leave, health insurance, life insurance, job security, tuition waiver

plan, retirement program and child care program.

The 10 least favorable aspects of EMU employment were cited as: staffing allocation for department, funding base for department, chances for advancement, low rate of pay, on-the-job training, supervisor's ability to resolve grievances or complaints, work loads, opportunity for professional development, supervisor's ability to provide recognition for good work and supervisor's ability to create a cooperative work environment.

The highest service ratings for University offices and departments went to the Benefits Office, University Publications, Payroll, Compensation Programs and Central Stores.

Those University areas receiving the lowest service ratings from departing employees were the Mailroom, office efficiency-University Computing,

The EMU Board of Regents acted on the following agenda items at its May 19 meeting. The regents: — approved the phase-out of five academic bachelor's degree programs as part of a series of budget-reduction measures.

Stated for phase-out are coating process technology, consumer home economics education, family and consumer sciences, real estate and metallurgical chemistry.

It is projected that the elimination of these programs will save the University an initial \$28,000 in the 1993 winter semester and \$187,000 annually beginning with the 1993 fall semester.

Each program was reviewed through EMU's established program review process and referred to the appropriate academic department and college faculty advisory council in accordance with terms of EMU's contract with the American Association of University Professors. The final decision for phase-out was made by the provost in consultation with his staff and the appropriate college dean.

The rationale for each program phase-out included on-going low enrollments in all five programs, ranging from five to two students per year; limited career opportunity in some of the programs, including family and consumer sciences; and the University's inability to secure funding to develop a laboratory necessary for the coating process technology major.

No new students will be admitted into any of the programs and a sequence of course offerings has been determined to ensure that those already enrolled will complete their degrees in the shortest possible time.

— approved some minor amendments to its by-laws, primarily grammatical changes and those necessary to update the document.

In the preamble section, where the kinds of degrees offered by EMU are outlined, the new doctorate in educational leadership was added.

Regents Summary

Article III of the by-laws, which covers when and where the board will meet, was changed from saying the board will meet "monthly" to "as it deems necessary, but not less than four times per year." Another change noted that the board now meets in Welch Hall rather than McKenny Union.

Other amendments included minor changes relating to the election of board officers to make that process consistent with the board's new meeting schedule and allow them to preside immediately following the board's election; the inclusion of a list of current and former board members; and a change from chief "administrative" officer to chief "executive" officer when the document refers to the University president.

— accepted 20 educational grants and contracts totaling \$1,026,211.

The largest grants were \$368,632 from the W.K. Kellogg Foundation for the Kellogg Early Childhood Education Program; \$133,166 from the Michigan Department of Education for the Select Student Support Services program offered through EMU's Equity Programs Office; and \$121,500 from the Michigan Department of Management and Budget for an interactive computer graphics system student employment program.

Also received were \$74,946 from the American Association of Retired Persons Andrus Foundation for a project titled "Confidence Swindles and Older Consumers: A Positive Behavioral Model of Avoiding Victimization," \$49,000 for consulting services provided to Rouge Steel, \$42,000 from Ford Motor Co. for a cooperative education computer-aided design placement and \$30,050, also from Ford, for educational training counselors.

Three grants of \$30,000 each were received as National Science Foundation Coatings Research Center membership fees from PPG Industries Inc., the Paint Research

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Focus on Faculty

EMU research team looks at 39 years of state tornadoes

By Susan Bairley

While the number of reported tornadoes in Michigan has more than doubled in the last two decades, from 235 in 1951-1970 to 483 in 1971-1990, the relative risk of being killed or injured by a Michigan tornado is "minuscule," say two EMU researchers.

Despite the increase in reported tornadoes, Dr. Carl Ojala, professor of geography, and Robert Ferrett, director of EMU's Center for Instructional Computing, found the number of Michigan tornado-related deaths and injuries has declined dramatically during the last two decades.

From 1951 to 1970, there were 219 reported tornado-related deaths and 2,712 injuries, compared with 18 deaths and 445 tornado-related injuries in 1971 to 1990. In addition, 72, or 10 percent, of all casualty-causing Michigan tornadoes occurred on 17 separate days in 1951 to 1990 and were responsible for nearly 96 percent, or 227, of the reported tornado-related deaths and 94 percent, or 2,981, of tornado-related injuries.

"Bob and I think the tornado danger in Michigan really isn't that significant," Ojala said. "During the last 40 years, 17 days produced 96 percent of the deaths and 94 percent of the injuries. In fact, 88 percent of the deaths occurred on four days. Four days out of 40 years makes this tornado danger kind of small. And those were the four worst tornado days in the state of Michigan, with obviously the Flint one, June 8, 1953, being the worst."

"And you have got to remember that there were eight tornadoes in that system (June 8, 1953) and there were 116 deaths in the Flint tornado itself and nine deaths from the seven other tornadoes which occurred on the same day," Ferrett said.

Despite the statistically supported "minuscule" risk of death or injury from a Michigan tornado, Ojala and Ferrett say the unpredictable behavior of these "ultimate meteorological phenomena" makes tornadoes a fearsome threat.

On the commonly used Fujita scale (named for its creator, University of Chicago Professor Theodore Fujita), tornadoes can range in strength from "weak" — with a maximum windspeed of 112 mph and averaging three miles on the ground with a 300-foot ground width to "violent," packing a maximum windspeed of 318 mph with a

26-mile average ground path length and 1,300-foot average width.

Luckily, only 2 percent of all U.S. tornadoes fall into the violent category, but it is that 2 percent which causes 67 percent of the fatalities. The majority of tornadoes, 62 percent, are considered "weak" and cause 3 percent of fatalities, while the other 36 percent are considered midrange or "strong" and cause 30 percent of tornado-related deaths.

In Michigan, the distribution is similar; however, Michigan's

tivity) years," Ferrett added.

As part of their analyses, Ferrett and Ojala divided Michigan into four regions and found most tornadoes, 297, occurred in Southeastern Michigan, followed by 228 in Southwestern Michigan, 148 in the northern Lower Peninsula and 45 in the Upper Peninsula.

They also determined two "tornado alleys" or areas where most tornadoes occurred. "Lenawee County is the heart of tornado alley," Ojala said, recognizing a band of five counties in Southeast Michigan: Lenawee, Monroe, Wayne, Washtenaw, Oakland and Genesee which all have been hit with more than 20 tornadoes in the last 40 years. The other alley, located in the southwestern corner of the state, shows Berrien, Allegan and Kent counties comprising the alley, each with more than 20 tornadoes also.

"Divided by months, April and May are the big tornado months in the southwestern part of the state, while in the southeastern part, it's April, May and June. In the northern Lower Peninsula, it's a tad later, June and July, then (in the U.P.) July and August," Ojala said.

"Also, if they happen earlier in the season, there's a chance they're going to be really bad ones," he added. "(Among the weak ones) the biggest numbers are in June, July and August. The strong ones come a little earlier April, May and June but 19 of Michigan's 32 violent tornadoes came in April. The reason for that is (in early spring) the air coming down out of Canada is still pretty cold and, by that time, the air coming from the south is really pretty warm and moist and the difference between the air masses is greatest."

Yet, Ojala said, "I think this term, 'weak,' that is used for classification is a misnomer. I don't think there is such a thing as a 'weak' tornado."

Why more tornadoes in the last 20 years than in the previous two decades? "We probably didn't have more physical tornadoes, just more reported tornadoes," Ojala said. And the fewer deaths associated with them likely could be attributed to better warning systems and improved technology.

"Technological improvements and early warning systems have helped. You can see tornadoes on radar," he said. "Meteorologists can forecast areas where they might occur. And today's Doppler radar allows you to see motion in the atmosphere. The old radar just gave you a picture of what it was. On Doppler, you can see movement. If one air current is moving away from you and right next to it, one is moving toward you, you can say that's an area of extreme turbulence and the possibility of tornado."

Also, Ojala said, colorization of the screens helps pinpoint the greatest intensities of turbulence.

"The forecasting ability and technology is constantly improving," added Ferrett, "but the big jump is the result of Doppler."

"Also, communications is a lot better today," Ojala said. Both he and Ferrett are among card-carrying tornado spotters, trained and certified by the National Weather Service to help keep the community alert to tornado formations. The cards identify the spotters as such, note appropriate telephone numbers to call and list the correct terms to aid in relaying the correct information.

Jokingly referring to themselves as two of the "macho guys" who enjoy being spotters, Ojala said, amid adverse weather conditions, tornado spotters will watch the

States With the Most Tornadoes, 1953-89

- 1) Texas
- 2) Oklahoma
- 3) Florida
- 4) Kansas
- 5) Nebraska
- 6) Iowa
- 7) Missouri
- 8) Illinois
- 9) South Dakota
- 11) Mississippi
- 20) Michigan

percentage of violent tornadoes, 4.6 percent, outpaces the national number by 2.6 percent. "Chances are greater in Michigan, if there's a tornado, it's going to be more on the violent side. We had 32 violent tornadoes in this state during this 40-year period; seventeen of them killed somebody and 25 of them injured people," Ojala said.

While most Michigan tornadoes occur in June (155 of the 718 reported from 1951 to 1990), tornado "season" in Michigan is March through September.

"We've had them in February and November, but not very many," Ferrett said. "However, in Michigan, the season generally goes from March to September."

"In February 1974, we had one and November has had four, while the bulk of the season is in June," Ojala added. "June averages about four tornadoes per year in Michigan and Michigan averages about 18 per year. On the other hand, the numbers range from zero reported in 1952 to the biggest numbers in the early 1970s. In 1974, we had 43 tornadoes, and in 1976 we had 42."

"What's also interesting is in 1981, for example, there were five, when reporting was really good, so we have had some really small (ac-



Dr. Carl Ojala (right), professor of geography, and Robert Ferrett, director of EMU's Center for Instructional Computing, have tracked 39 years of tornadoes in Michigan and found that the number has more than doubled in the last two decades. Still, the risk of being killed or injured by one is "minuscule," say the two men.

western and southwestern skies and may be called out to go to a particular intersection or viewing spot.

"You go through a program, in which they show you slides and teach you what to look for, like wall clouds, mesocyclones, heavy hail or strong winds," he said. "For example, if you're at a location and large hail is falling at your spot, you're within two or three miles of where a tornado could be. Large hail almost always falls right next to where a funnel might be."

"(Tornado spotters) will have the windshield wipers going, the lightning is flashing, it's all scary and if they see something, they have their

little radio or telephone to call it in (to the weather service). They, in turn, call it in to the TV stations, which report the sightings," Ojala added.

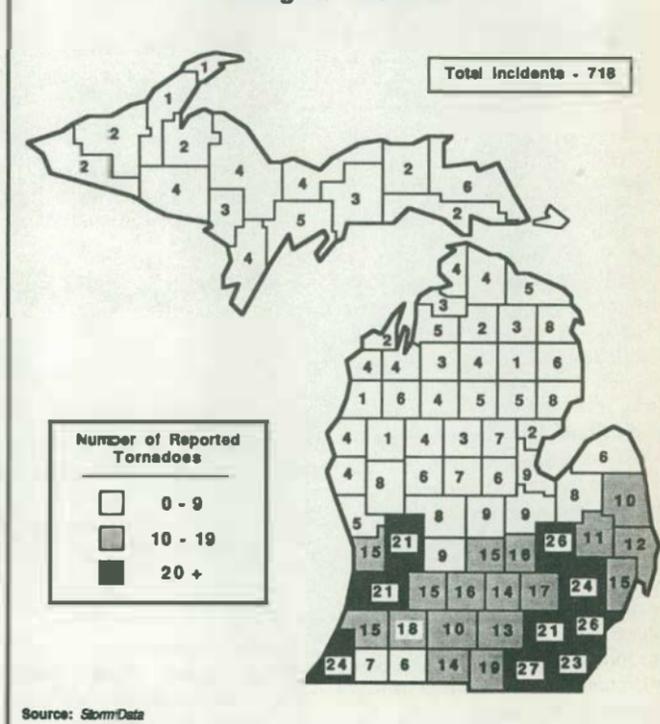
How can you recognize conditions which may precede severe weather? Ojala said a day with severe weather potential is usually a "hot to warm, muggy day, meaning a lot of moisture is in the air and it just feels sticky to you. Also, the wind is blowing strongly from the south or southwest and a cold front is coming. The more vigorous the cold front is, the more potential for tornado."

Campus Tornado Safety Rules

The following information is supplied by the University Health and Safety Committee.

- Tornado "watch" means conditions are favorable for a tornado to develop; tornado "warning" means one has been spotted and is headed toward the area covered in the warning.
- Every office and department should establish a written building "take cover" plan, approved by the Housing/Dining Office. It should be published and distributed throughout the unit.
- If a tornado warning is issued, campus sirens will sound and all building alert and take cover plans should be activated.
- People on the top floors of buildings should move to corridors below and close all room/office doors.
- If no basement is available, the safest area is a small, interior room with no windows, such as a closet or bathroom.
- Stay away from doors and windows.
- Outside, find the lowest area possible away from trees and power lines. Lie face down and protect your head with your arms.

Total Tornadoes Reported Michigan: 1951-1990



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Association and Flint Ink Inc.

Thus far this fiscal year, the EMU regents have accepted 128 grants totaling \$5.3 million.

— received a report showing that private contributions to EMU in 1991-92 were up 15.3 percent at the close of the third quarter.

Third-quarter gifts to the University totaled \$369,769 for a cumulative total of \$1,636,491 received thus far in 1991-92. This compares with \$1,419,004 received last year at this same time and represents an increase of \$217,487 or 15.3 percent.

The College of Business, with \$147,791 in gifts, received the largest portion of University Development funds during the third quarter (Jan. 1 through March 31, 1992).

By category, other gifts were: \$101,764 to the Executive Division, \$1,065 in endowment funds to colleges, the library and intercollegiate athletics; \$2,410 to the Division of Academic Affairs; \$24,385 to the College of Arts and Sciences; \$8,888 to the College of Education; \$927 to the College of Health and Human Services; and \$29,343 to the College of Technology.

Other gift totals were: \$800 to the Business and Finance Division, \$3,027 to the Division of University Marketing and Student Affairs, \$26,613 in scholarships, \$431 in plant funds, \$60 in loan funds, \$22,254 in gifts-in-kind and \$10 in other gifts.

Special Board Meeting is June 25

The Board of Regents will hold a special meeting, primarily to discuss budget issues, Thursday, June 25, at 7:30 a.m. in 201 Welch Hall.

The meeting is open to the public.

Tell Us About 'U'!

For some time now, readers have been telling us that they'd like to see some personal news about their colleagues, such as engagements, weddings, births, deaths, graduation announcements or other special events, included in Focus EMU. They want the opportunity to tell their coworkers, "That's great!" when they have something good happen, or offer support when it's needed.

To that end, Focus EMU will pilot a new column this summer titled "About U." A similar column was published a few years ago, but submissions were low. If submissions are high and there seems to be an interest, we'll keep running it on a semi-regular (once a month or so) basis throughout the year.

Brief forms are available from the Public Information Office, 18 Welch Hall, on which you can submit your "About U" news. Please don't be shy about bragging a little bit—we all do it.

For more information or to obtain submission forms for your department, call the Public Information Office at 7-4400.

Only those items received directly from the person the news is about will be published, so please don't "surprise" a co-worker by submitting personal news on his or her behalf.

Theater

Continued from page 2

their posh home to celebrate their wedding anniversary. When the first couple arrives, they find the hostess gone and the host lying upstairs with a superficial bullet wound. The couple starts to hide what might become a scandal from the next couple, and so on, until the guests are caught up in a mess of rumors.

Tickets for "Tintypes" and "Rumors" are \$8 Friday, Saturday and Sunday. Thursday night is bargain night when all tickets are \$5. Mainstage members pay \$5 and EMU students pay \$6.

For more information or reservations for Spring Fest, call the EMU Theatre Box Office at 7-1221, Mon-

day through Friday, 1-5 p.m. There is a discounted price for purchasing tickets to all three productions.

Honor Roll Correction

The Faculty/Staff Honor Roll insert included in the April 28 issue of Focus EMU had an error and a couple of omissions.

First, the Honor Roll was not for the entire 1991-92 Faculty/Staff Campaign, but rather for the 1991 calendar year which is how the Development Office reports such information.

Second, the following people who donated specifically to the EMU Foundation were inadvertently left off the list of donors: Gail Getz, Theodore H. Heidloff and Eugene D. Smith.

EMU NEWSLINE

Call 487-2460 or 487-2461 24 hours a day for late-breaking EMU news, calendar updates and information on University closings during bad weather.

Research

Program for Children with Serious Emotional Disturbances

The U.S. Department of Education is accepting applications for the following four programs: (1) Facilitating Interagency and Private Sector Resource Efforts to Improve Services for Children and Youth with Serious Emotional Disturbances (deadline: June 8, 1992); (2) Development and Support for Enhancing Professional Knowledge, Skills and Strategies Among Special Educators, Regular Educators, Related Service Personnel and Other Professionals and Agencies (deadline: June 15, 1992); (3) Reducing Out-of-Community Residential Programs by Improving Services to Children with Serious Emotional Disturbances and their Families (deadline: June 15, 1992); and (4) New Awards for Programs for Children and Youth with Serious Emotional Disturbances (deadline: June 16, 1992).

For further information, contact the Office of Research Development at 7-3090.

Exercise-Induced Fatigue in Chronic Fatigue Syndrome

The National Institute of Allergy and Infectious Diseases invites research proposals to explore biologically rational hypotheses concerning exercise-induced fatigue and/or pathogenesis in chronic fatigue syndrome (CFS) patients. The purpose is to gain an understanding of the biologic basis of CFS in humans. Well-controlled studies with adequate sample sizes are sought to uncover the basis for the debilitating fatigue that follows moderate exercise in CFS patients.

Proposals may be submitted three times per year: June 1, Oct. 1 and Feb. 1. For application information, contact the Office of Research Development at 7-3090.

Food Stamp Studies

The Food and Nutrition Service of the U.S. Department of Agriculture plans to award a number of direct research grants in 1992 for analytic studies of the Food Stamp Program. FNS wants to obtain a wide range of independent scholarly thinking on the basic program, policy and research issues that are currently facing the Food Stamp Program, or that may be expected to challenge it in the future. Both conceptual and empirically based study proposals are invited.

Proposals are due June 22, 1992. Contact ORD for further information and application materials.

Humboldt Foundation Fosters German/American Exchange

The Alexander von Humboldt Foundation has opened an office in Washington, D.C., to foster German/American Scientific Exchange. Since 1953, the foundation has invited 2,800 American scholars in all academic disciplines to Germany for long-term research stays.

The Research Fellowship Program (600 per year, worldwide), offers funding for stays of up to 24 months in Germany for highly qualified researchers (minimum requirement is the Ph.D.) under 40 years of age from any academic field.

Other programs include the Humboldt Research Award for Senior American Scientists, the Bundeskanzler Scholarship Program and the Transatlantic Cooperation Program.

For more information on any of these opportunities, call Jeanne Clerc, acting associate dean in the Graduate School, at 7-0042.

Openings

There were no postings submitted this week by the Human Resources Office.

Events of the Week

May 27 - June 8

Wednesday 27

LECTURE — Dr. Paula Gregory, education director of the Genome Center in the University of Michigan Department of Internal Medicine, will speak on the Human Genome Project as part of the Interdisciplinary Technology Department's lecture series on biomedicine and ethics. Call 7-1161 for more information. Corporate Education Center, 1275 Huron St., Ypsilanti, 7 p.m.

Thursday 28

TRACK — The men will compete at the Last Chance Invitational, place to be announced, 3 p.m.

TRACK — The women will host the EMU Last Chance Meet, place and time to be announced.

Monday 1

WORKSHOP — The Center for Instructional Computing will hold a faculty workshop on Microsoft Word for the Macintosh. Call 7-1347 for more information. University Library, 10 a.m. - noon.

Tuesday 2

TRACK — The men's and women's teams will compete in the NCAA Championships. Place and time to be announced.

WORKSHOP — The Center for Instructional Computing will hold an introductory faculty workshop on Excel for the Macintosh. Call 7-1347 for more information. University Library 2 - 4 p.m.

Wednesday 3

LECTURE — Dr. Marlene E. Haffner, physician and director of orphan products development in the U.S. Department of Health and Human Services Food and Drug Administration, will talk on orphan drugs as part of the Department of Interdisciplinary Technology's spring lecture series on biomedicine and ethics. For more information, call 7-1161, EMU Corporate Education Center, Ypsilanti, 7 p.m.

Thursday 4

THEATER — EMU's Theatre of the Young Program will present "The Tolstoy Story Play," a comedic version of Leo Tolstoy's "Fables." It is geared toward both children and adults. All tickets are \$5. Call the EMU Arts and Entertainment Box Office at 7-1221 for more information. Sponberg Theatre, 8 p.m.

WORKSHOP — The Center for Instructional Computing will hold a faculty workshop on

Scanners for Macintosh. Call 7-1347 for more information. University Library, 10 a.m. - noon.

Friday 5

WORKSHOP — User Support Services in University Computing will hold an advanced workshop on Quattro Pro. Call 7-3141 for more information, 215 Sill Hall, 8 - 10 a.m.

WORKSHOP — The Benefits Office will hold an orientation workshop for new EMU employees, 205 Welch Hall, 8:30 a.m.

THEATER — EMU's Theatre of the Young Program will present "The Tolstoy Story Play," a comedic version of Leo Tolstoy's "Fables." It is geared toward both children and adults. All tickets are \$5. Call the EMU Arts and Entertainment Box Office at 7-1221 for more information.

Saturday 6

THEATER — EMU's Theatre of the Young Program will present two performances of "The Tolstoy Story Play," a comedic version of Leo Tolstoy's "Fables." It is geared toward both children and adults. All tickets are \$5. Call the EMU Arts and Entertainment Box Office at 7-1221 for more information. Sponberg Theatre, 10 a.m. and 2 p.m.

THEATER — The Communication and Theatre Arts Department will present the musical "Tintypes" as part of its "Springfest of Comedy and Music." "Tintypes" celebrates turn of the century American music from 1890 to 1917. Tickets are \$8 for the general public, \$6 for students and \$5 for Mainstage members. Call the EMU Arts and Entertainment Box Office at 7-1221 for more information. Sponberg Theatre, 8 p.m.

Sunday 7

THEATER — The Communication and Theatre Arts Department will present the musical "Tintypes" as part of its "Springfest of Comedy and Music." "Tintypes" celebrates turn of the century American music from 1890 to 1917. Tickets are \$8 for the general public, \$6 for students and \$5 for Mainstage members. Call the EMU Arts and Entertainment Box Office at 7-1221 for more information. Sponberg Theatre, 7 p.m.

Monday 8

WORKSHOP — The Center for Instructional Computing will hold a faculty workshop on Filemaker Pro for the Macintosh. Call 7-1347 for more information. University Library, 10 a.m. - noon.

WORKSHOP — User Support Services in University Computing will hold an introductory staff workshop on Wordperfect 5.1. For more information, call 7-3141, 513 Pray-Harrod, 2 - 4 p.m.