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Tuition increases from 4.7 to 8.2 percent approved by regents

The EMU Board of Regents at its special meeting Aug. 14 approved tuition increases ranging from 4.7 to 8.2 percent for full-year-equated students, effective at the start of the upcoming fall semester.

The resident tuition rate for lower-level undergraduates will increase \$3 per credit hour, from the current \$59.75 to \$62.75 per credit. Resident upperlevel undergraduates will pay \$5 more per credit, from \$61 to \$66 per credit hour; and resident graduate students will pay \$6.50 more per credit, from the current \$83 to \$89.50 per credit hour.

The net effect on full-year-equated, resident students will be an increase of 4.7 percent for lower-level undergraduates, from \$1,975 to \$2,068 in tuition and fees per year; 7.7 percent for upper-level undergraduates, from \$2,014 to \$2,169 per year; and 7.4 percent for resident graduate students, from \$2,106 to \$2,262 per year.

Non-resident, lower-level undergraduate tuition rates will increase \$10 per credit hour, from the current \$150 to \$160 per credit. Non-

resident, upper-level undergraduates will pay \$13 more per credit, from \$154 to \$167 per credit hour; and non-resident graduate students will

Even with the increases, EMU is among the most affordable of Michigan's 15 public universities. At \$2,068 in tuition and fees for a full-year-equated, lower-level, resident undergraduate, EMU is 14th, \$1,434 less per year than the most expensive, University of Michigan, and \$14 more than the least expensive, Northern Michigan University.

pay \$15 more per credit hour, from the current \$197 to \$212 per credit.

The net effect on full-year-equated, non-resident students will be an increase of 6.5 percent for

lower-level undergraduates, from \$4,773 to \$5,083 in tuition and fees per year; 8.2 percent for upper-level undergraduates, from \$4,897 to \$5,300 per year; and 7.4 percent for non-resident graduate students, from \$4,842 to \$5,202 per year.

For undergraduates, full-year-equated is defined as 31 credit hours. For graduate students, it refers to 24 hours.

The tuition increases, coupled with EMU's 5.3 percent increase in state appropriation should be sufficient to fund planned programs and services, although faculty and staff salary increases are pending.

Based on a projected enrollment of 550,460 student credit hours, the University's tuition revenues will be \$42,131,667 in 1990-91, \$2.3 million more than projected in the 1990-91 continuation budget approved by the regents in June.

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EMU Housing residents won't pay \$47 fee

Students living in EMU's residence halls and apartments will be exempt from paying the University's recently implemented student activity/facility fee beginning with the 1990 fall semester.

As approved by the Board of Regents Aug. 14, the amended fee policy will exempt approximately 43 percent of EMU's resident full-time students and thereby exclude the fee from tuition and fee calculations used in implementation of the Michigan Education Trust.

The fee was originally approved by the regents Feb. 8, 1990, to help fund projects in the University's \$88.4 million facilities plan for instructional and support programs. It requires students enrolled in four or more credit hours during the fall and/or winter to pay \$47 per semester and each student enrolled spring and/or summer to pay \$23.50 each semester enrolled.

As previously approved, income from the student activity/facility fee was anticipated at \$2,185,500 for 1990-91. The amendment will reduce that income by approximately \$500,000 to \$1.7 million. This will require the facilities plan to be amended, reducing the scope of planned debt-supported projects by \$5 million.

The exemption of residence hall students from the payment of the facility/activity fee was deemed appropriate because a portion of funds derived from room and board charges already are allocated to the University's facilities plan.

Fish brings vision to CAS dean's job

By Michael Jahr

Dr. Barry Fish, having recently been appointed dean of EMU's College of Arts and Sciences, said he is excited about his new position, but admits the job sometimes seems "overwhelming."

Fish, who had been serving as acting dean since last fall, was named permanently to the post by EMU's Board of Regents June 27. As such, he directs and coordinates EMU's largest and fastest growing college.

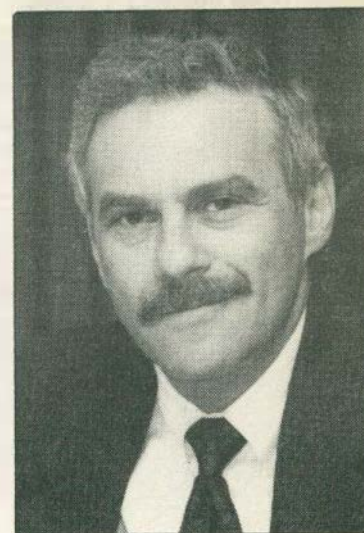
When Fish joined EMU's faculty as an assistant professor of psychology in 1970, he never anticipated he'd one day lead the College of Arts and Sciences.

"Never. Not in my wildest imagination," he said. "I came here because I really liked psychology. I liked teaching, I liked doing research, and I really saw myself doing that for the rest of my professional life. I guess I'm living proof that you never really know what's going to happen."

Fish, 45, was a research assistant at the University of Michigan's Center for Research on Language and Language Behavior in 1966 and a research and teaching assistant at Wayne State University from 1967 to 1970. He was a fellow in EMU's Center for the Study of Contemporary Issues in 1972-73 and has served as a consultant to Ypsilanti's S.O.S. Community Crisis Center and the Willow Run Community Schools. He was named head of EMU's Psychology Department in 1979 and served until his interim dean appointment last year.

A Detroit native and Ann Arbor resident, Fish holds a bachelor's degree from U-M earned in 1966 and a master's degree and doctorate from Wayne State, earned in 1969 and 1971, respectively.

Fish was chosen from a field of seven finalists for the dean's job and he credits his brief term as interim dean as a key reason he was selected.



Dr. Barry Fish, new dean of the College of Arts and Sciences, said he never thought he'd one day lead EMU's largest college. "I came here because I really liked psychology, I liked teaching, I liked doing research, and I really saw myself doing that for the rest of my professional life. I guess I'm living proof that you never really know what's going to happen," he said.

"I think I really did have an advantage, by virtue of having served in this office for a year, having had people see what I do, the way I approach the job, how I handle problems, how I resolve conflicts," he said. "I think I've been perceived as being objective and fair. Even when I sometimes make decisions that people disagree with—of course, I don't see how they could ever disagree with me—at least I try to be forthright about the reasons for the decisions I make."

When Fish was appointed interim dean, replacing Interim Dean Dr. Ira Wheatley, there was some initial opposition from faculty and students who felt Wheatley had been treated unfairly in not being offered the permanent position after serving as interim dean for three years. Fish now says he believes that early

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Campus Capsules

Reception Today Honors Computing's Leon Daniel

A farewell reception will be held today (Aug. 28) for Leon Daniel, executive director of University Computing, from 3 to 5 p.m. in 201 Welch Hall.

Daniel is leaving EMU at the end of August to join the staff of a university in Denver.

The University community is invited to attend.

New Huron Entertainment Book Could Save \$400 Off Events

The Division of Academic Affairs has developed a "Huron Fun" entertainment book for the 1990-91 school year that offers discounts off EMU events and at several area restaurants that could total \$400 in savings.

Made exclusively for faculty and staff, the book highlights athletic, theater, music and dining activities based on a two-for-one concept.

The books will go on sale at \$10 each at the end of August and will be sold at several sites around campus. The deadline for sales of the books will be Sept. 20.

For more information, or the location of sales sites, call Academic Affairs at 7-2237.

Focus To Resume Weekly Publication Sept. 5

Today's issue is the last biweekly summer issue of *Focus EMU*.

Beginning Wednesday, Sept. 5, *Focus EMU* will resume its regular weekly publication schedule. That first issue will be published on Wednesday due to the Labor Day holiday; all other issues will be published on Tuesday.

The deadline to submit copy for consideration is Tuesday by 5 p.m. for the following week's issue. If your department is having an event and would like publicity (press release, article in *Focus EMU*, etc.), it's a good idea to submit that

information to the Public Information Office at least two weeks prior to the event. Any events you would like included in the University's monthly calendar, which is published in *Focus EMU* under "Events of the Week," must be submitted by the 15th of the month prior to the month in which the event will occur.

The 1990-91 publication schedule will be as follows:

Sept. 5, 11, 18, 25; Oct. 2, 9, 16, 23, 30; Nov. 6, 13, 20 (no issue Nov. 27 due to Thanksgiving); Dec. 4, 11, 18 (no issue Dec. 25); Jan. 8, 15, 22, 29 (no issue Jan. 1); Feb. 5, 12, 19, 26; March 5, 12, 19, 26; April, 2, 9, 16, 23, 30.

Focus EMU will begin its 1991 spring/summer biweekly publication schedule Tuesday, May 6.

Send all submissions for *Focus EMU* to: *Focus EMU* Editor, Public Information Office, 18 Welch Hall. Debra McLean or Susan Bairley at 7-4400.

WEMU To Broadcast NPR Series On Prejudice Among Teen-Agers

EMU's public radio station, WEMU-FM (89.1), will broadcast a special program series by National Public Radio examining prejudice among American youth, Sunday through Saturday, Sept. 9-15.

Titled "Class of 2000: The Prejudice Puzzle," the series will feature interviews with teen-agers from Alaska to Chicago and will explore the prejudices they hold as well as those they encounter.

Each segment will air twice daily, during "Morning Edition" (6-10 a.m. Monday through Friday; 8-10 a.m. weekends) and "All Things Considered" (5-7 p.m. Monday through Friday; 6-7 p.m. weekends).

In conjunction with the NPR series, WEMU will have special reports examining prejudice in Washenaw County. Those reports will in-

clude such topics as the difficulties interracial couples face; racism in the housing industry, including mortgage "redlining" and real estate "steering"; prejudice faced by local Middle Eastern families and business owners; ethnic bias in the media; problems confronting the area's growing Hispanic and Asian populations; and prejudice on college campuses.

The NPR-produced segments will cover such topics as the effect of speaking non-standard English on a child's future; how children rise above the "problem child" label; the dynamics of teen friendship; and peer pressure.

For more information, call WEMU at 7-2229.

CTA To Present Special Performances Of 'The Nerd'

After a critically acclaimed run last June, the Communication and Theatre Arts Department will present seven holdover performances of Larry Shue's "The Nerd" Sept. 6-8 and 12-15 in Sponberg Theater.

After its June run on EMU's campus, The Ann Arbor News wrote that the production offers "local theatregoers perhaps the funniest, tightest, indeed most interesting play seen yet this season."

Written by the late Obie-winning playwright Shue, "The Nerd" revolves around the reunion of two Vietnam veterans, Willum Cubbert and Rick Steadman. Willum, indebted to Rick for saving his life during the war, finds his gratitude challenged when Rick shows up for a visit and turns out to be a hopeless "nerd" who turns every social situation into a fiasco.

Tickets for the production are \$8 Friday and Saturday and \$4 weeknights, with special prices for Mainstage members.

For ticket reservations, call the EMU Arts and Entertainment Box Office at 7-1221.

New COB building will host its first classes in January 1991

Although certification for occupancy is expected in October, the Gary M. Owen College of Business Building in downtown Ypsilanti will not host classes until January 1991 as announced by Dr. Stewart L. Tubbs, dean of EMU's Business College.

That decision was made by the Vice Presidents' Building Task Force as part of a comprehensive start-up plan for the facility which noted the building will be "substantially complete" by Oct. 1 and scheduled move-in of the faculty and departmental units between that time and Dec. 1, 1990.

Originally there had been some talk of moving classes from central campus to the new building mid semester, but Tubbs said such a move would have been disruptive to all involved, particularly the students.

"The building task force discussed this issue thoroughly and felt it would be least disruptive to first establish the faculty and administrative units and then begin classes in the new building," he said.

"Our number one consideration in this is the students," Tubbs added. "And you can imagine the problems that could arise for students who built their class schedules tightly, assuming the classes would be held in close proximity to one another."

Tubbs also said because the building's readiness was tentative when fall classes were scheduled last spring, a considerable number of classes may have different campus locations than those originally published. "I'd say at least 80 percent of the (business) classes will be located as listed in the fall schedule book, but we're sending out a notice to every student, asking them to consult the department for final listings."

By Oct. 1, it's expected the Owen Building parking structure will be completed; the Goodwill lot, north-east of the building, will be resurfaced; and the Society National Bank lot will be resurfaced and available for use after 5 p.m.

Once the building's fully operational, a dedicated shuttle bus service, with several stops on campus, will be operating to and from the Owen Building; the parking structure will have a parking attendant on duty; and building security, comparable to that afforded other campus buildings, will be in place.

The Owen Building dedication is set for Saturday, Oct. 27, as part of EMU's Homecoming festivities.

Student groups will be required to meet alcohol/drug guidelines

By Susan Bairley

As part of EMU's continued commitment to leadership in the prevention of substance abuse in the campus community, Dr. Dorian Sprandel, associate vice president of University marketing and student affairs, recently announced new Alcohol and Drug Guidelines for Recognized Student Organizations.

The announcement comes on the heels of an incident involving the EMU chapter of the Arm of Honor fraternity, in which five students were charged with a felony for selling alcohol without a permit Sunday, Aug. 12.

According to Sprandel, the incident resulted in the University's disaffiliation of Arm of Honor as a sanctioned student organization, but also served as an opportunity for the University to publicly reaffirm its already stringent stance on alcohol use.

"These guidelines actually are not new. They have been proposed and discussed over the last three years and most Greek organizations

already are in voluntary compliance," Sprandel said. "What is new is their formal adoption for mandatory compliance. Beginning Sept. 5, each organization will be required to sign a contract which says they'll comply with the guidelines if they wish to receive and hold 'recognized student organization' status."

The EMU guidelines ban the use of chapter/organization funds or affiliation to purchase alcohol; ban co-sponsorship of an event with an alcohol distributor or organization, when alcohol is to be sold or freely provided; ban open parties where alcohol is present; and mandate all rush activities as "dry rush" events. The guidelines further state "possession, use and/or consumption of alcoholic beverages, while on chapter premises during an official event, or in any situation sponsored or endorsed by the chapter or organization" comply with state, local and EMU laws and regulations; that no chapter/organization members serve, purchase for, or sell alcoholic beverages to minors; and that no

chapter or organization co-sponsor or co-finance a function where alcohol is purchased by any of the host chapters, groups or organizations.

In addition, the participation, toleration or encouragement of any "drinking games" by student organization members are prohibited; no alcohol is allowed at any pledge/associate member or novice programs and activities; and the possession, sale and/or use of any illegal or controlled substances are strictly prohibited.

Consequences facing those organizations which violate the guidelines are the loss of recognized student organization status and privileges. This implies lost access to any EMU student government funding and prohibits use of campus facilities for organizational meetings and events. It also disallows use of the University's name and symbols, prohibits team participation in campus recreation programs and denies further involvement in any University Greek activities or events.

13 new faculty members named

The EMU Board of Regents, at a special meeting Aug. 14, approved the appointments of 13 new faculty members.

Dr. Robert Bartle, professor of mathematics, holds a bachelor's degree from Swarthmore College and a doctorate from the University of Chicago. He previously taught at Yale University from 1952 to 1955 and had been at the University of Illinois, Urbana-Champaign since 1955.

Anne-Marie Bevington, instructor in the Department of Foreign Languages and Bilingual Studies, holds a diploma in literature and a license d'Enseignement from the Universite de Paris XII. She taught at St. Ursula's Academy in Toledo, Ohio, from 1978 until she joined St. John's High School there in 1985.

John Capecci, assistant professor in the Communication and Theatre Arts Department, holds a bachelor's degree from EMU and a master's degree from the University of North Carolina. He taught at Central Michigan University in 1987 and at John A. Logan Community College and Southern Illinois University in 1988-89.

Dr. Elisabetta Cerroni-Long, assistant professor in the Sociology Department, holds a science certificate from Udine in Italy, a doctorate from the University of Venice and a second doctorate from the University of California at Los

Angeles. She has been teaching at EMU since 1987 and previously taught at UCLA.

Dr. Nancy Halmhuber, assistant professor of special education, holds a bachelor's degree from Central Michigan University, specialist's and master's degrees from EMU and a doctorate from the University of Michigan. She has been teaching at EMU since 1977.

Donald Hartman, assistant professor of music, holds a bachelor's degree from the University of North Carolina at Greensboro and a master's degree from the University of Oklahoma. He taught at UNC-Greensboro in 1982-83, at Bowling Green State University in 1983-84 and has been at the University of Sciences and Arts of Oklahoma since 1984.

Dr. Arthur Howard, associate professor of chemistry, holds a bachelor's degree from Rhodes University in South Africa and a doctorate from Cambridge University. He taught at Montana State University in 1964-66, at Rice University in 1974, at the University of Witwatersrand in South Africa in 1984-86 and at Kalamazoo College from 1986 to 1989.

Zenia Jones, instructor of computer science, holds both a bachelor's and master's degree from EMU where she has been working since 1988.

Dr. Roger Long, assistant professor in the Department of History

and Philosophy, holds a bachelor's degree from the University of London, a master's degree from the University of California at Los Angeles and a certificate of philosophy and doctorate from UCLA. He taught at California State University at Fullerton in 1986-87, the University of Calgary in 1987 and has been teaching at EMU since 1987.

Kenneth Schatz, assistant professor of special education, holds both a bachelor's and master's degree from EMU. He has taught at EMU and Wayne State University and has worked at the Ann Arbor Veterans Administration Medical Center since 1987.

Dr. Silvia von Kluge, assistant professor of psychology, holds bachelor's and master's degrees from California State University at San Bernardino and a doctorate from Michigan State University. She has taught at EMU and MSU since 1988.

Dr. Mary Ann Watson, associate professor in the Department of Communication and Theatre Arts, holds bachelor's and master's degrees from the University of Michigan, a second master's degree from Harvard University and a doctorate from U-M.

Dr. Lorraine Wilson, associate professor of nursing education, holds a bachelor's degree from

Reid named EMU board secretary

Juanita Reid, executive associate to the president, was named secretary to the EMU Board of Regents at a special meeting of the regents Aug. 14.

As such, Reid will assume some of the responsibilities previously held by Melonie Colaianne who left the University in July. Reid will hold the board secretary title in addition to her position as executive associate to the president.

Reid holds a bachelor's degree from West Virginia State College and a master's degree from EMU, earned in 1970 and 1975, respectively. She currently is enrolled in doctoral studies at the University of Michigan.

A Washington, D.C., native, Reid began her professional career as group chief operator at C and P Telephone Co. in Charleston, W.Va., where she also served as an engineering associate. She worked briefly as a teacher and adviser at the Detroit Institute of Commerce before joining the EMU staff as assistant director of financial aid in 1975. She was named assistant to the president at Washtenaw Community College in 1984 and returned to EMU in 1987 as associate director of University development. She was promoted to executive associate to EMU President William Shelton in October 1989.

An Ypsilanti resident, Reid served as president of the Willow Run Community Schools Board of Education from 1980 to 1987. She also was on the board of directors of the Huron Valley Boys and Girls Club, was on the Michigan Association of School Boards Legislative



Reid

Committee, the Washtenaw Council for Children and was a consultant for hiring superintendents for the Michigan Association of School Boards.

She has received several awards and recognitions, including the 1987 WCC Community Service Award, the Michigan Jaycees 1983 Outstanding Woman in Michigan Award and the 1983 Superior Jaycees Distinguished Service Award. An accomplished tennis player, Reid also has won six area women's singles tennis championships.

As executive associate to the president and secretary to the EMU board, Reid will supervise internal auditing activities and the maintenance of University policies and procedures, as well as provide administrative support and counsel to the president.

Her appointment is effective immediately.

Women's Commission awards scholarships

Six area women recently were awarded scholarships by EMU's Women's Commission for 1990-91.

The commission names its annual scholarships for outstanding women and this year chose to honor Dr. Marjorie Lansing, professor emerita of political science. Lansing served as a professor at EMU from 1968 to 1986 and gained a national reputation for her expertise on women in politics and women voters.

Qualifications for the scholarships include an interruption of at least five years in a student's education and/or pursuit of a career not traditionally associated with his/her gender. Students also must demonstrate financial need, be enrolled at least half time at EMU and have at least a 2.5 grade point average.

The six winners of the Dr. Marjorie Lansing Scholarships are:

- Mary K. Callahan of Ypsilanti.

Callahan is a full-time undergraduate studying journalism and telecommunications. She received \$800.

- Elizabeth L. Griewski of Saline. Griewski is a full-time undergraduate studying accounting. She received \$1,000.

- Janice M. Lapum of Belleville. Lapum is a part-time student studying computer-aided design. She received \$1,100.

- Mary L. Reum of Livonia. Reum is a full-time graduate student of liberal studies with an emphasis in women's studies. She received \$1,300.

- Sharon L. Staton of Howell. Staton is a full-time undergraduate student studying elementary education. She received \$800.

- Katherine D. Weston of Ann Arbor. Weston is a part-time graduate student studying sociology. She received \$1,000.

African American major is O.K.'d by regents

EMU students may now earn a bachelor of arts degree in African American studies, as approved by the EMU Board of Regents Aug. 14.

The regents had given preliminary approval to the new program last April. It was then sent to the State Council of Academic Vice Presidents who voted unanimously in support of the new degree program.

In a report submitted to the regents, program developers cited several reasons why the African American studies major was proposed. First, national trends indicate that African American studies is recognized by academe as a legitimate and significant area of study; second, the African American experience is a critical part of understanding the United States and the larger global setting; and third,

intensive study of the culture, history and current status of African Americans provides useful career preparation for such fields as communications, education, human services, public administration, public relations, law, the humanities and social and behavioral science.

The major will require nine credit hours of core courses which broadly cover the field; 21 hours of restricted electives which explore issues and themes of the African American experience; and at least three open elective credit hours of further study in the field.

The major costs associated with implementing the new program are the necessary addition of new faculty and a half-time clerical position totaling \$97,000. The costs will be absorbed through a reallocation of funds through the Division of Academic Affairs.

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Focus on Faculty

Ramsay's 'CHEMiCALC' could transform chemistry education

By Susan Bairley

Although 25 years usually is celebrated as a silver anniversary, Dr. O. Bertrand Ramsay's 25th year at Eastern Michigan University may be more of a golden year, particularly if his patent-pending invention takes hold in the marketplace.

Ramsay, professor of chemistry at EMU, has invented a chemical calculator. And much like its mathematical predecessors, the CHEMiCALC, as it's called, could revolutionize chemical education and the way professional chemists work. Using a keypad, personal computer and special software, the CHEMiCALC keyboard consists of a periodic table of the elements, seven mode keys and basic mathematical/scientific function keys. "It's unique feature is the mode of input for chemists," Ramsay said. "One thing that's common to all chemists, whether in high school, elementary school or professional chemistry, is the periodic table. So we have a keyboard or keypad which contains all the elements."

In its first mode, pressing any element on the CHEMiCALC keypad will cause the properties of that element to appear on the screen. The second mode will analyze chemical pairs, determining such things as bond length and other calculable properties of a pair of elements. The third mode, or formula mode, is particularly exciting to Ramsay.

"It's a pretty powerful mode and one which is going to have a profound impact on chemical education and any chemist, because chemists routinely work in chemical formulas," he said. The formula mode not only will give the chemist formula weights, but condensed formulas and composition percentages as well.

Ramsay said doing such calculations manually requires looking up

or remembering information, transferring data and doing the associated math. "All of that takes time and there are lots of opportunities for math errors," he said.

The formula mode also will allow for substituting, adding or subtracting various elements to a formula with instant recalculation of the results.

The CHEMiCALC's other modes include calculation, which will translate grams into moles, treating formulas by their formula weights; the reaction mode, which will accept data to fit any formula, providing the results of the products and reactants in grams and moles; and the empirical formula mode, which will allow for the manipulation of formula subscripts for the purposes of elemental analysis.

Further explaining the chemi-calc's use, Ramsay added, "Suppose you have a chemical reaction; you have reactants and products. So what you can do is put the formulas of (both) and the coefficients in and then you say, 'Suppose I have 3.16 grams of this reactant, how much product will I get? or how much reactant will it take?' and you press 'enter' and it calculates what you need."

Ramsay, who recently incorporated under the name Chemical Concepts Corp., first conceived the chemical calculator idea when he was at an American Chemical Society meeting one and a-half years ago. "I noticed there were a number of software programs that had periodic tables from which you could get information about elements," he said. "And, one small start-up company developed a program (that particularly caught my eye), so I said 'Gee, that would be sort of interesting to have a little calculator to get that information.'"

Ramsay followed up with a proposal to the company, which chose not to take on the project, so he forged ahead on his own. Before

long, he became associated with a patent attorney in New York, filed a patent application and found a collaborator in Ann Arbor to aid in the development of a prototype.

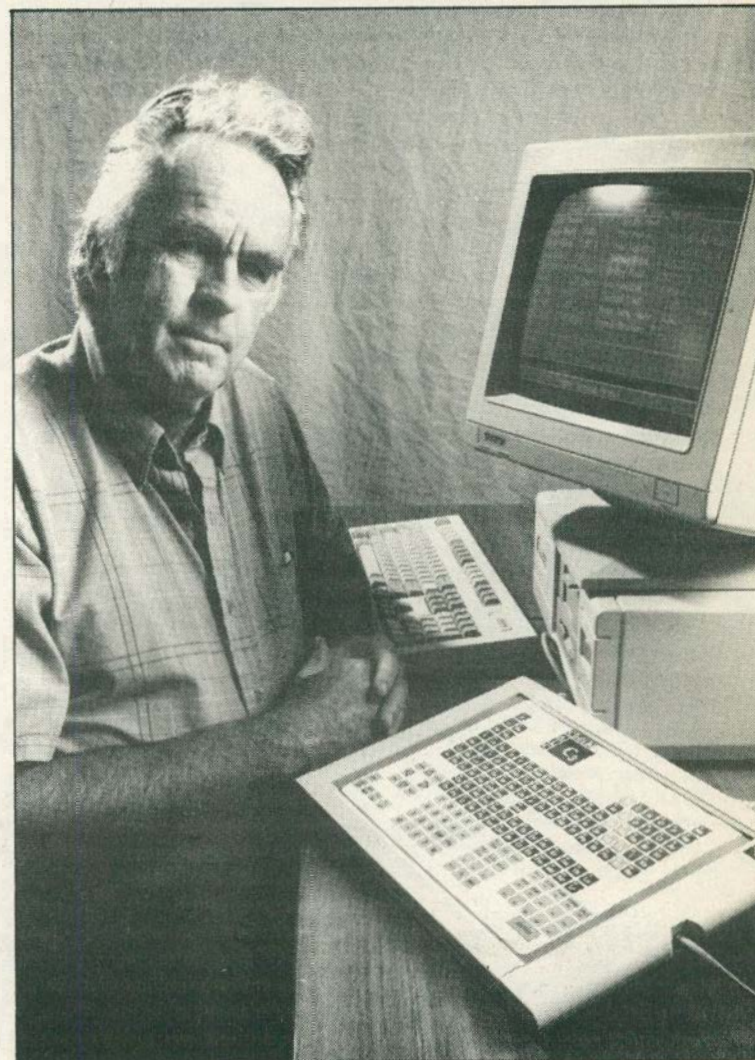
Although the CHEMiCALC prototype will make its official debut at the 200th national meeting of the ACS in Washington, D.C., this week (Aug. 27-29), it's already had a local examination. Ann Arbor Huron High School chemistry teacher Susan McGrath and professional chemist Bill Turner got a sneak preview of an early model.

"The set-up is clever, and depending on the cost, I think there'd be a lot of interest," McGrath said. "I can't begin to assess how students would react since they haven't had an opportunity to use it, but I think it has good potential for a good commercial market."

In response to whether the CHEMiCALC would create a philosophical controversy in the educational community, McGrath said, "There will always be die-hard purists, but as a chemistry teacher of many years, I'd welcome it. It has tremendous potential, particularly for add-on capabilities and I think most would find it very intriguing."

Turner said the CHEMiCALC would be most attractive in a true calculator format. "There are other PC programs which perform some of the (CHEMiCALC's) functions, but if he could get into a calculator system, I think people would use it...Even if a PC is just five steps away, there's always inertia to use what's right there," he said.

Although the first CHEMiCALCs will plug into a PC, another version will offer barcoded keys for input and eventually, Ramsay would like to see the device become self-contained. "The newer scientific calculators have enough memory now and enough display so that you could plug this keypad or marker into the calculator port," he said.



Dr. Bert Ramsay's 25th year at EMU may prove to be a golden year if his patent-pending "chemicalc" takes off. Like its mathematical predecessors, Ramsay's chemical calculator could revolutionize chemical education.

"Ultimately, we hope to have a self-contained calculator with an LCD display."

The retail price of the CHEMiCALC software, template and manual is \$349 per system plus "a couple hundred dollars or more, depending upon the kind of input device you use," Ramsay said.

"I think the real market is going to be in the student market and in a portable hand-held calculator designed for chemists, (although the latter) will take more money and resources," he said.

For more information about the CHEMiCALC, call Chemical Concepts Corp. at 483-0054.

Fish

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conflict is in the past and he feels much support from his colleagues.

"It was a difficult situation, and one I was very apprehensive about when I first took over this office," Fish said. "I have a great deal of respect for Ira Wheatley and I think the college faculty, by and large, felt that way about him too. So coming in when somebody as popular as he was didn't get the job—as many thought he should have—was very difficult."

"But I think things have moved along," he added. "Ira himself has been very supportive and helpful. That's helped this transition." Wheatley has since returned to his former position as head of the History and Philosophy Department.

To further the transition and enable his office to serve the college more efficiently, Fish is planning some restructuring. A position of associate dean has been created and will be filled on an interim basis by Dr. James Waltz, former acting head of the History and Philosophy Department. A national search for a permanent associate dean will begin next year.

There also will be a new faculty administrative intern this year. As Waltz has a background in the humanities, Fish said he would like to balance that with an intern who is strong in the science and mathematics areas.

The ideal situation, he added, would be to have two associate deans to assist with the administration of the vast and expanding college. "Our office, relative to the size of the college, has been understaffed for some time," he said.

The College of Arts and Sciences is composed of 16 of the University's 33 academic departments. More than half (60 percent) of EMU's faculty teach in the college. Nearly all of the basic studies instruction, the core curriculum required of all EMU undergraduates, takes place in the college. As such, it produces 67 percent of the undergraduate student credit hours and 28 percent of the graduate student credit hours at EMU.

Growth within the college's individual departments has been explosive, as well. For example, enrollment in the Departments of Biology, Psychology, History and Philosophy, and Geography and Geology has doubled since the mid-1980s; and the Physics and Astronomy Department grew from 27 undergraduate majors in 1981 to 130 in 1989. The same growth trend continues in the college's other departments.

Between 1984 and 1988 nearly 90 percent of the University's total growth in student credit hours occurred within the College of Arts and Sciences. Fish attributes that to successful marketing and recruitment efforts, as well as the promise of individual attention EMU students will get from tenured professors. Very few EMU courses are taught by teaching assistants.

Another statistic, however, has Fish concerned: While college enrollment has grown dramatically, the number of regular faculty in the college has increased by only 5.1 percent.

"It's a problem for us: we're really strained," Fish said. "We've probably accounted for, in the past

three to five years, close to 90 percent of the University's student population growth, yet we have a much smaller faculty growth in comparison. The student/faculty ratio in our college has, as a consequence, exceeded that of the other colleges and is larger. I think, than it ought to be."

"We have an extremely dedicated group of department heads and some very devoted faculty members who are willing to do far more than the normal 40-hour week that people expect. It's because of the efforts of those people that we've had the successes that we've had."

—Fish

One reason for that is dwindling state funding, Fish said, along with the growth of professional schools in recent years which have captured a lot of potential faculty.

Fish remains optimistic, nonetheless. "I think things have begun to change around here in the last year or so with President (William) Shelton's coming to the University. I think some opportunities have opened up," he said. "I think we've gone through a very difficult period—budget cuts, tight budgets—almost like living through a depression era. That creates a certain mentality of defensiveness and self-protectionism. It's governed a lot of what we've done for a long time."

The result, he added, has been a reluctance among some faculty to try new ways of doing things, which Fish hopes to change. As a start, he plans to organize a com-

mittee of department heads and faculty members from each department to begin establishing priorities for the college's future.

"I think the faculty need to be involved in making those kinds of decisions," Fish said. "We need to do some careful planning when thinking about the future. It's not

something a dean should do by himself or do just with other administrators."

Fish is clearly proud of the College of Arts and Sciences faculty, and their track record shows he has good reason. In the last decade, faculty in the college have received 27 of the University's Distinguished Faculty Awards, 50 of its Spring-Summer Research Awards and more than 100 Faculty Research Fellowships.

"We have an extremely dedicated group of department heads and some very devoted faculty members who are willing to do far more than the normal 40-hour week that people expect," he said. "It's because of the efforts of those people that we've had the successes that we've had."

In order to maintain that level of excellence, and recruit new faculty,

the University must find ways to offer competitive salaries, Fish said, something he believes EMU has been fairly effective in doing so far.

Because he enjoys the classroom experience and wants to stay in touch with students and teaching, Fish said he would like to teach a class occasionally. But with the hours he puts in as dean, he's not sure if he'll find the time.

"It truly is overwhelming and there's no way any one person can know enough about each of the areas within the college to truly be an expert," he said. "That's why this collaboration is so important. It's an enormous college, with a lot of problems, a lot of good things happening, and a lot of developments going on. It's quite a job."

Faculty

Continued from page 2

Siena Heights College, a master's degree from the University of Michigan and a doctorate from Wayne State University.

All appointments are effective Aug. 29, 1990.

These 13 appointments, combined with several approved by the regents earlier in the year, bring the total number of new tenure-track faculty appointed at EMU for the 1990-91 academic year to 40. Of those, 7.5 percent are black, 2.5 percent are members of other minority groups and 47.5 percent are women.

Tuition

Continued from page 1

expensive. University of Michigan, and \$14 more than the least expensive, Northern Michigan University.

For full-year-equated, upper-level, resident undergraduates, EMU moves up in cost but still ranks in the bottom third. At \$2,169 per year, it is 11th among Michigan's 15 public universities; costing \$1,705 less per year than the most expensive, U-M, and \$107 more than least expensive, NMU, for upper-level, resident undergraduates.

The board also voted to maintain EMU's current registration fee schedule, \$40 per student in the fall and winter semesters and \$30 during spring and summer.

FOCUS EMU is published biweekly during the spring and summer semesters for faculty and staff at Eastern Michigan University. The deadline to submit copy is 5 p.m. Tuesdays for the following week's issue. Please send submissions to: Editor, *Focus EMU*, Office of Public Information.

Kathleen D. Tinney, assistant vice president, Executive Division
Susan Bairley, associate director, Public Information
Debra McLean, *FOCUS EMU* editor
Dick Schwarze, photographer
HP Patterson, phototypesetter

Research

Research Experience for Undergraduates Program

The National Science Foundation recently announced its revised Research Experience for Undergraduates (REU) program. NSF expects the program to provide opportunities annually for several thousand undergraduate students. NSF will fund new grants to recruit undergraduates to participate in organized activities as well as to supplement ongoing research grants. Both types of projects may involve summer or academic-year activities. *Supplementary Grant applications are accepted anytime. The deadline for Site Grant proposals is Oct. 10, 1990.*

According to NSF, this program has bolstered uncertain students' intentions to go on to graduate school and has strengthened the aims of students already headed in that direction. A recent study of the program's first three years reports that nearly 80 percent of the students responding had increased their interest in science and engineering.

For more information on this program, contact Linda Swift at ORD (7-3090).

Humanities Institute for College and University Faculty

The National Endowment for the Humanities is seeking applications for national and regional humanities institutes for college and university faculty. NEH also will fund special projects that address national or regional needs in higher education, with emphasis on community colleges, foreign language teaching, preparing advanced graduate students or recent Ph.D.s for undergraduate teaching, rethinking majors and introductory courses, developing core programs and preparing future elementary and secondary teachers.

The deadline for applications is Oct. 1, 1990. Contact Cheryl Kozell at 7-3090 for application information and forms.

NSF Special Conservation Initiative

The National Science Foundation, as part of an initiative to evaluate and support fundamental research that will elucidate the principles that underlie the conservation and restoration of biological diversity, is holding a special competition in *Basic Research in Conservation and Restoration Biology*. Appropriate subjects for investigation will include: naturally occurring ecosystems, communities, species, populations; physiological, genetic and behavioral processes occurring in them; and human activities affecting these ecological systems. Proposals may address any level of evolutionary, ecological, physiological or behavioral analysis or may seek to integrate across levels of disciplines.

Proposals are due Sept. 29, 1990. Awards will be announced by June 1, 1991. For more information, contact Linda Swift at 7-3090.

Openings

To be considered for vacant positions, all Promotional Openings Application Forms **MUST BE SUBMITTED** directly to the Employment/Affirmative Action Office and received no later than 5 p.m. on the expiration date.

The Employment/Affirmative Action Office announces the following vacancies. Due to the holiday weekend, the expiration date for applying for these positions is Tuesday, September 4, 1990. **Detailed job descriptions** may be reviewed in Room 310 King Hall. Posting Boards across campus also highlight necessary and desired qualifications. Location of these boards are main traffic areas in: King Hall, McKenny Union, Roosevelt Hall, Business and Finance Building, Sill Hall, Pray-Harrold, Rec/IM Building, Physical Plant, Mark-Jefferson, Hoyt Meeting Center, DC I, and the University Library.

Vacancy information may also be obtained by calling our 24-hour Jobs Line at 487-2462.

CLERICAL/SECRETARIAL

(Minimum Biweekly Rate)

CSAA91011 - CS-03 - \$541.22 - Secretary, Registrar's Office
CSEX91006 - CS-04 - \$600.52 - Secretary II, Employment/Affirmative Action (Word processing experience and/or ability and willingness to learn)
CSSA91005 - CS-04 - \$600.52 - Secretary II, University Marketing/Student Media (Word processing experience and/or ability and willingness to learn)

PROFESSIONAL/TECHNICAL

(Biweekly Salary Range)

PTAA91005 - PT-07 - \$ 862.85 - Instructional Laboratory Coordinator,
\$1,266.60 Computer Science
PTAA91006 - PT-07 - \$ 862.85 - Associate Director, Project Upward
\$1,266.60 Bound (Temporary Position through May 31, 1991)
PTEX91012 - PT-09 - \$1,129.77 - Data Base Administrator, University
\$1,785.96 Computing

FACULTY

FAAA91015 - Assistant/Associate Professor, Finance, Fall 1991
FAAA91016 - Assistant/Associate Professor, Finance, Fall 1991

FOOD SERVICE/MAINTENANCE

(Minimum Hourly Rate)*

FMBF91013 - FM-06 - \$8.92 - Custodian, Days, Monday - Friday,
6 a.m. - 2:30 p.m., Custodial Services
FMSA91006 - FM-06 - \$8.92 - Custodian, Days, Monday - Friday,
6:30 a.m. - 3 p.m., Housing and Dining
Services
FMBF91014 - FM-12 - \$9.55 - Groundsperson, Days, Monday - Friday,
7 a.m. - 3:30 p.m., Grounds
FMBF91015 - FM-12 - \$9.55 - Groundsperson - 50 percent, Days,
7 - 11 a.m., Grounds
FMSA91004 - FM-06 - \$8.92 - Cook - Days, 6 a.m. - 2:30 p.m.,
Dining Service
REPOST

*Pay rate stated above does not include shift differential.

An Affirmative Action/Equal Opportunity Employer

Events of the Week

Aug. 28 - Sept. 4

Tuesday 28

MEETING - UAW Local 1975 will meet, Gallery II, McKenny Union, noon
MEETING - AFSCME Local 1666 will meet, Oxford Room, McKenny Union, 7 p.m.

Thursday 30

GROUP LEADER TRAINING - The Office of Campus Life will sponsor a two-day training program for 200 Freshmen Orientation group leaders. To apply to be a group leader, call 7-3045, McKenny Union, 8-9 a.m.

Friday 31

VOLLEYBALL - The team will play in the South Florida Tournament today and tomorrow. Place and time to be announced

Saturday 1

SPIRIT DAY - The Office of Campus Life will host several activities as part of Student Orientation '90. Call 7-3045 for more information. All campus, 8 a.m. - 10 p.m.
CROSS COUNTRY - The men's and women's teams will host the EMU Open, Huron Golf Club, Ypsilanti, 11 a.m.
PICNIC - As part of Orientation '90, the Office of Campus Life will host a picnic for new students and their families. Call 7-3045 for more information, Lawn near varsity tennis courts, 12:45 p.m.
PARENT ORIENTATION - The Office of Campus Life will present an orientation session for parents of new EMU students. The featured speaker will be Laurence Smith, vice president for student affairs and University marketing. Call 7-3045 for more information, Pease Auditorium, 2 p.m.
PARENT RECEPTION - The Office of Campus Life will host a reception for the parents of new EMU students. Call 7-3045 for more information, Outside tent, Boone Hall, 3 p.m.
EMU SPIRIT RALLY - The Office of Campus Life will present a University welcome and EMU "Spirit Rally" for new students. Call 7-3045 for more information, Bowen Field House, 4 p.m.
SPEAKER - Laurence Smith, EMU vice president for student affairs and University marketing, will speak to new EMU students on "Student Success." Call 7-3045 for more information, Pease Auditorium, 6:15 p.m.
FOOTBALL - EMU will play its 1990 season opener at Fresno State University, Fresno, Calif., 7 p.m.
'PLAYFAIR' - The Office of Campus Life will present "Playfair," an interactive game designed to help the more than 2,000 new EMU students participating in Orientation '90 get to know each other. For more information, call 7-3045, Bowen Field House, 7:30 p.m.
CONCERT - The Office of Campus Life will present a live reggae band as part of Orientation '90. Caribbean snacks and juices will be served. Call 7-3045 for more information, Bowen Field House, 9 p.m.

Sunday 2

BREAKFAST - The Office of Campus Life will present a continental breakfast and McKenny Bookstore shopping spree for new EMU students participating in Orientation '90. Call 7-3045 for more information, McKenny Union, 8:30 a.m.
SOCCER - The team will host the University of Windsor, EMU Soccer Field, 11 a.m.

WORKSHOP - The Office of Campus Life will present a "Celebrating Our Differences" multicultural workshop for new EMU students. Call 7-3045 for more information, 12:15 p.m., Pray-Harrold Classroom Building, Strong and Roosevelt halls

WORKSHOP - The Office of Campus Life will present a workshop for new students titled "Freshman Year: Decisions for Life." Call 7-3045 for more information, 1:45 p.m., Pray-Harrold Classroom Building, Strong and Roosevelt halls

RESIDENCE HALL ORIENTATION - An orientation program for new students living in EMU's residence halls will be held, Pray-Harrold Classroom Building, 3:15 p.m.

COMMUTER STUDENT ORIENTATION - A special orientation program for commuter students will be held, Main Dining Room, McKenny Union, 3:15 p.m.

EMU CRIMEBUSTERS - The Office of Campus Life will host this game designed to give new EMU students a walking tour of the campus. Clues to the whereabouts of the "kidnapped" Orientation '90 director will be hidden in campus buildings and teams of students will look for them and find the missing director. Call 7-3045 for more information, Bowen Field House, 6 p.m.

HYPNOTIST - As part of Orientation '90, the Office of Campus Life will present "humorous hypnotist" Dan LaRosa. Call 7-3045 for more information, Pease Auditorium, 8:30 p.m.

Monday 3

HOLIDAY - Due to the Labor Day holiday, all offices and departments not participating in Orientation '90 activities will be closed. All campus, all day

LUNCHEON - A minority student luncheon and program will be presented as part of Orientation '90. Call 7-2133 for more information, McKenny Union Ballroom, 12:15 p.m.

Tuesday 4

MEETING - Academic Affairs will present the first part of its two-part orientation workshop for new faculty. The second session will be Sept. 6 at 3 p.m., Alumni Lounge, McKenny Union, 7:45 a.m. - noon

DISC JOCKEY - As part of EMU Spirit Week, the Office of Campus Life will present music with a D.J., Outside tent, Snow Health Center, 11 a.m.

STUDENT ORGANIZATION FAIR - The Office of Campus Life will present a student organization fair to introduce new EMU students to the more than 140 organizations available to join. Call 7-3045 for more information, Outside Snow Health Center, 11:30 a.m.

JOB FAIR - Career Services will present a job fair for students interested in on-campus employment. Call 7-0400 for more information, Outside tent, Snow Health Center, 11:30 a.m.

MEETING - UAW Local 1975 will meet, Regents East, McKenny Union, noon
FREE PHONE CALLS - As part of EMU Spirit Week, Allnet will offer free five-minute long distance phone calls, Outside Snow Health Center, 11 a.m. - 2 p.m.

FIRST-WEEK FLING CHALLENGE - A contest will be offered in which students can win prizes as part of EMU Spirit Week. Call 7-3045 for more information, Snow Health Center lawn, 11:30 a.m.

MEETING - AFSCME Local 1666 will meet, Faculty Lounge, McKenny Union, 5 p.m.

ICE CREAM SOCIAL - Delta Sigma Theta sorority will sponsor an ice cream social as part of first-week fling activities to welcome black freshmen, Eastern Eateries, Lower Level, 7-9 p.m.

CONCERT - As part of EMU Spirit Week, the Office of Campus Life will present Table Top Entertainment's Crossed Wire. Call 7-3045 for more information, Outside tent, Snow Health Center, 8:30 p.m.