

February 20, 1998

—  
*You can't look  
at a sleeping cat  
and be tense.*

—Jane Pauly

—  
Vol. XXX, No. 22

## Engler offers universities 1.5 percent

Governor John Engler's proposed budget for 1998-99 includes an across-the-board increase of 1.5 percent in the state allocation for all of Michigan's public universities.

The hike would increase MTU's funding \$714,962, to \$48.4 million.

In announcing the 1.5 percent increase, the state Department of Management and Budget cited funding increases for state universities of 5.5 percent and 4.4 percent in fiscal years 1997 and 1998. In addition, state appropriations per student have climbed to almost \$750 above the national average since Engler took office in 1990, and Michigan's rank in state spending per student has climbed from 22nd to 11th.

Nevertheless, 1.5 percent is not adequate for Michigan Tech, said President **Curt Tompkins**.

"While we have been very grateful to Governor Engler in past years for his support of higher education, this year's 1.5 percent proposed increase is a major disappointment," he said. "If Michigan Tech is to continue its history of excellence in education, the state needs to play a bigger supporting role."

Tompkins recognized the past efforts of State Senator Don Koivisto and State Rep. Paul Tesanovich on behalf of maintaining MTU's standard of excellence.

Michigan's public universities plan to argue their case before the Senate Higher Education Subcommittee, which begins hearings on Friday, February 20. MTU's hearing is set for March 2 at Oakland University.

"I visited legislative leaders recently and found them inclined to an increase in the higher education budget of 3 to 4 percent," Tompkins said. "We expect to request a 6 percent increase in Michigan Tech's appropriation to support our unique role as the Upper Midwest's only public technological university, with by far the most expensive array of scientific and technological programs of any of the state universities."

"It is important for all interested citizens to express directly to our elected representatives their support for adequate increases in the support for Michigan Tech specifically and higher education generally," Tompkins said.

## Senate gives the go-ahead to new Master of Engineering program, Social Sciences Education Option

The University Senate voted February 18 to support a new Master of Engineering degree.

A Master of Engineering, or ME, degree, is less research-oriented than a Master of Science in Engineering, emphasizing course work and advanced independent design as opposed to a research thesis. Because ME students will be taking many classes that are currently underenrolled, few if any new faculty would be needed to support the program, particularly in the beginning. ME students should complete their degree in one year, while MSE students generally take one-and-one-half to two years.

The program should mesh with the needs of industry, supporters said, allowing students to acquire a broader base of technical skills. It would also be an option for off-campus students through the distance-learning program, and would allow them to complete their design project at a corporate site.

The University of Michigan offers the only ME in the state, though several of MTU's benchmark institutions have ME programs.

Debate on the issue centered on course work. Senators noted that prospective ME students could take some courses as MTU seniors and then credit them toward their ME degree. Thus, they could avoid paying graduate tuition for those courses and cut the revenues anticipated from the new master's program.

Under the Senior Rule, seniors can take graduate courses and apply them to their anticipated graduate transcript. However, they must get permission from relevant department chairs and the dean of the Graduate School. In addition, the student's advisory committee, as well as the department chair and dean of engineering, would have to approve their course of study. This should prevent a wholesale transfer of previously earned credit to the student's graduate

transcript, said Senator **Carl Nesbitt** (MME), chair of the Senate Curricular Policy Committee.

Some senators objected to the number of 300- and 400-level courses permitted under the program—up to 21 credits. A minimum of 24 graduate credits would be required. Senator **Bogue Sandberg** (civil and environmental engineering) said that some undergraduate classes, such as accounting, would be useful and challenging for many ME students.

Nesbitt said the undergraduate courses would give ME students a broader background in various subjects.

Senator **Ed Nadgorny** (physics) said the ME program could be attractive to applied physics students and asked that it be expanded to include the College of Sciences and Arts. Nesbitt said the program as it stands could accept applied physics graduates, and that physics faculty could participate though membership on the students' advisory committees.

About fifty students could eventually be expected to enroll in the ME program, which could be implemented in fall 1998 pending approval by the Board of Control and the state academic officers.

The senate also approved a Social Sciences Education Option, which would certify graduates to teach the social sciences—history, geography, etc. Department Chair **Terry Reynolds** (social sciences) said the program would help attract and retain students in a department that has plenty of room for more. The primary additional expense would be an adjunct faculty member hired from local schools at an annual cost of about \$3,000.

Department Chair **Fritz Erickson** (education) said the program must be approved by the state Board of Education and could begin in the fall.

## MTU life insurance available for retirees

Have you been thinking about retirement and worrying about life insurance? Worry no more—since January 1, MTU retirees have been able to buy Hartford life insurance through Michigan Tech.

To be eligible, you must have retired on or after January 1, 1997, be at least age 55 on your retirement date, and have at least fifteen years of continuous service with MTU.

For more information, call the Benefits Office at 487-2517.

## UCW scholarship available

MTU undergraduate women are invited to apply for the \$500 University Women's Club Endowed Scholarship to be awarded at the club's spring meeting.

Applicants must be full-time female students at Michigan Tech with a minimum GPA of 2.75 who are currently in their freshman, sophomore, or junior year. They must be carrying a minimum load of 12 credits and should have demonstrated leadership, community service, or extracurricular student activities within the past three years. Financial need will be considered.

The scholarship may be used for tuition, room and board, or books, and will be available for the 1998-99 academic year.

Applications are available in the Financial Aid Office. The deadline for applying is March 1. For additional information, contact Marie Ryding at 487-2622 or Lynn Gierke, 482-5331.

## Evaluations due February 27

Staff: Don't forget to fill out and return your supervisor evaluation forms by Friday, February 27.

Remember to use a No. 2 pencil only, answer all questions, and erase any changed answers thoroughly. Be sure to leave the form unfolded and send it in a large envelope via campus mail to Performance Evaluation, Institutional Analysis.

## TECH TOPICS

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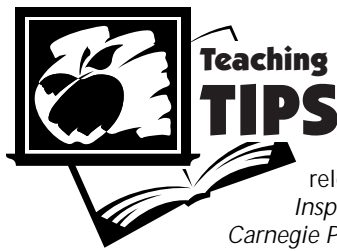
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Our URL is <http://www.sas.it.mtu.edu/urel/ttopics/index.html>

Center for Teaching, Learning, and Faculty Development



## Inspiring Teaching, part 2

Submitted by William Kennedy, director

This week, we'll complete a look at an essay from the recently

released volume *Inspiring Teaching: Carnegie Professors of the*

*Year Speak*. The essay "What

Makes a Good Teacher," by Peter Beidler, professor of English at Lehigh and the recipient of numerous university and national teaching awards, lays out ten qualities of a good teacher. Last week, we briefly reviewed Beidler's first five qualities: 1) good teachers really try to be good teachers and their students recognize it, 2) good teachers take risks and "push the envelope" to keep their teaching lively and inspiring, 3) good teachers have a positive attitude towards teaching and students, 4) good teachers are eternally busy, usually underappreciated, and spend significant amounts of time with their students in and out of class, and 5) good teachers come to realize that good teaching shares much in common with good parenting without being *in loco parentis*.

Beidler's sixth point is that good teachers work to build confidence in their students. He argues that student mastery of course content, although vital, should not be the only goal of a good teacher. From the perspective of teaching literature, Beidler argues that the specific content of what he teaches may be less important than what students learn about learning and achievement by mastering that course content. He says he pushes his students quite hard in an effort to reinforce their sense of personal achievement and their confidence in their burgeoning ability to overcome future challenges.

Seventh, Beidler argues that good teachers work to keep themselves and their students somewhat off balance. He asserts that complacency is the enemy of good teaching and effective learning. "Good teachers, as soon as their students have mastered something, push their best students well past the edge of their comfort zone, strive to make them uncomfortable, to challenge their confidence so they can earn a new confidence," he concludes.

Beidler's eighth point is that good teachers try to motivate students by working within their incentive systems. He admits that many of our students are almost entirely motivated by a desire to make lots

of money, and he contrasts this with the idealism and the scholarly focus that typified a significantly larger percentage of students in our generation. The secret, he says, is to work hard to clearly demonstrate that the skills and knowledge they are learning will help them to achieve their goals, even if those goals center around a profit motive.

"Good teachers do not trust student evaluations," is Beidler's ninth point. "Good teachers tend to discount the positive evaluations, however numerous they may be; less-good teachers tend to discount the negative evaluations, however numerous they may be," he asserts. Keeping with his theme of constantly striving to do better, Beidler says he spends his time figuring out how to reach out to the students that expressed areas of dissatisfaction with the course.

Finally, Beidler suggests "Good teachers listen to their students." Polling Baylor University students about their opinion of good teaching, he found their responses could be sorted into an "A" pile and an "E" pile. In the "A" pile Beidler found words like accessible, approachable, and available. In the "E" pile he found attributes like enthusiastic, energetic, and excited. Beidler asserts that the one common theme that emerged from this sample was that the good teacher was willing and able to listen to their students and that that message was clearly communicated to her/his students in word and deed.

Comparing Beidler's points with the Seven Principles of Good Practice discussed in a previous "Teaching Tips" (and available from the center) is instructive. Chickering and Gamson concluded that educational research would indicate that good teaching 1) encourages student-faculty interaction, 2) encourages cooperation among students, 3) encourages active learning, 4) gives students prompt feedback on their performance, 5) structures learning so as to encourage students to spend adequate time completing educational tasks, 6) sets and clearly communicates high expectations, and 7) demonstrably respects and values the diverse talents and ways of learning of their students.

Pie in the sky? Or, helpful insights. Let's give some a try and see what happens. Let me know if you're interested in getting your hands on a copy of *Inspiring Teaching*. Give the Center for Teaching, Learning, and Faculty Development a call at 487-2046.

## Change in Family Medical Leave procedures

Michigan Tech is changing the time period used to determine our Family Medical Leave Act benefits.

Under the federally mandated program, employees are allowed up to twelve weeks of unpaid leave in a twelve-month period for the birth of a child, adoption or foster-care placement, or a serious health condition that prevents you from doing your job properly.

Starting May 1, MTU is adopting a "rolling" twelve-month period. For example, if you take your first day of FMLA leave on October 3, the twelve-month period begins on that date—you can take twelve weeks between October 3, 1998, and October 2, 1999.

Previously, the University used the fiscal year, July 1-June 30, as the twelve-month period. Anyone using FMLA leave time between now and May 1 may choose either the old entitlement calculation period or the new rolling period.

If you have any questions, contact Ingrid Cheney at 487-2517, [iecheney@mtu.edu](mailto:iecheney@mtu.edu)

GET TECH TOPICS SOONER! READ US ON THE WEB! YOU CAN REACH US FROM MTU'S HOME PAGE BY CLICKING ON "TECH TOPICS."

## General education update

The thirty-four member General Education Development Task Force hopes to have a proposal ready for a faculty referendum by September, according to its chair, Vice Provost for Instruction **Stephen Bowen**.

Once a proposal is approved, the departments can complete revisions to their own degree programs in anticipation of the upcoming change to semesters. "As we revise our curricula University-wide, it is common sense to first make key decisions about the one curriculum that applies to every student and then proceed with the many curricula that apply to smaller groups of students," Bowen said. "The reverse would be logistic chaos."

The task force has been following general education guidelines from Provost **Fred Dobney**, which include 9 semester credits of free electives. Some faculty fear that having too many non-major courses could undercut the value of an MTU degree, particularly in engineering. As a result, Dobney has agreed to consider alternatives.

The task force will be developing goals and an overall philosophy for MTU's general education program this spring. During the summer, they will develop administrative and curricular structures to support the program. And, in the fall, as departments develop their curricula, the task force can work on the content of general education courses.

For more information, visit the task force Web site, accessible from the MTU Home Page or by going directly to <http://www.admin.mtu.edu/admin/vpinst/gened.htm>

## Lecture March 12 on corporate images

Image isn't everything. Or, maybe it is. Britt-Louise Gunnarsson, of Uppsala University in Sweden, will be speaking about the role of corporate images on Thursday, March 12, at 4:00-5:00 p.m. in the Walker Theatre.

Gunnarsson, an applied linguist, has studied the "organizational self" at three European banks, one English, one Swedish, and one German. This "we feeling" is important not only for the sense of unity it creates among employees, but also for customers, who must be able to trust the company. The image can vary based on both culture and company ideas, according to Gunnarsson.

Gunnarsson, an associate professor of Scandinavian languages, is founder and director of a research group on discourse in the professions. She is currently researching discourse in the workplace, and gender and language in the classroom. Her publications include books and articles in Swedish, about thirty articles in English, and a handful of publications in French and German.

Her visit is funded by the Department of Humanities, the Visiting Women Lecture Series, and the Faculty Development Committee.

## Blood pressure clinic Feb. 25

The Wellness Program is sponsoring a free blood pressure clinic on Wednesday, February 25, from noon to 1:00 p.m. in the Memorial Union Alumni Lounge. Results are confidential; all MTU employees, spouses, and retirees are welcome.

## Asian markets likely to stay unsettled

If you own stocks or an export business and the uncertainty in Asian financial markets has you worried, don't expect any big changes soon.

Associate Dean **Terry Monson** and Associate Professor **Swapan Sen**, both economists in the School of Business and Economics, predict instability will characterize Asian markets for at least the next several months. There are good reasons for their cautious outlook.

"For many years, the countries of Southeast Asia have used government-subsidized credit to direct their export programs," says Monson. "But when they've lent money to corporations, they've had to borrow from world markets, and they've tended to borrow short term and lend long term. This is a similar situation to what we experienced with our savings and loan programs here in the United States a few years ago. The problem lies in the fact that corporate loans aren't being repaid to state-run banks, and the banks in turn are unable to repay their creditors."

Another difficulty, according to Monson, is that many Asian countries have no policy in place to penalize corporations that default on their payments. So there are no regulatory incentives for businesses to pay, and the banks that made the loans end up taking the hit.

"Add to that," says Monson, "the fact that in some countries, Indonesia particularly, money has been loaned for some questionable projects—probably because of the banks' connections with ruling families and politicians. As a result, any meaningful financial reform will probably have significant political fallout."

Monson believes the Asian crisis may have been caused by too many non-performing loans coming due at the same time, putting banks in the awkward position of being unable to repay their creditors.

Sen points to another possible cause of Asia's problems. "Unlike the 1970s, when majority borrowers were governments and government entities, this time the private sector, aided by capital account convertibility and financial liberalization, borrowed massively in foreign currencies. Much of these obligations were left unhedged. Several currencies depreciated 40 to 70 percent in a short period of time. Monetary authorities sold reserves and wrote forward contracts in unsuccessful attempts to defend their beleaguered currencies."

Sen also believes that foreign money increased liquidity in Asian markets, causing inflated property and asset prices. "For the past several years, foreign investors have been pouring capital into Indonesia, Malaysia, Thailand, South Korea, and other Asian countries to take advantage of their booming economies," he says. "The problem was that much



*Asian money managers are sophisticated and able, but not enough safeguards are in place to prevent financial crises from arising periodically.*

of the foreign money that came into those countries was 'hot money' [money that moves around a lot] invested in the financial sectors. Local businesses and governments had relied too

much on foreign capital to cover their obligations and now had to pay the price of excessive optimism.

"When boom turned to bust, foreign investors

withdrew their money, and interest rates shot up, hurting the real estate and financial sectors alike."

Both economists believe that Japan holds the key to what happens in Southeast Asia. "If Japan holds well, it should be a short-lived crisis of maybe a year," says Sen. "But if Japan falls, we're looking at a possible global crisis."

In the meantime, Monson and Sen believe that financial restructuring, such as that required by the recent International Monetary Fund bailout programs for Indonesia and Korea, may help those countries manage the crisis in the short run. But further deflation in these economies is likely.

"The idea of the IMF program is to let the market function as much as possible," says Sen. As for reforms, he believes Asian money managers are sophisticated and able, but that not enough safeguards are in place to prevent financial crises from arising periodically.

"I think it's a situation we'll just have to get used to living with," he says.

## Wanted: pancake flippers

Residence Hall Dining Services is still looking for volunteers for its annual pancake study break, set for 10:00-11:00 p.m. on Sunday, February 22. Volunteers are especially needed in McNair and Wadsworth halls.

"It's a neat thing for the students to see faculty and staff on their own turf," said **Bob Hiltunen**, associate director of dining services. "This is our way of thanking students for attending our University and for living with us."

If you can help, contact Dining Services at 487-2664 or [rwhiltun@mtu.edu](mailto:rwhiltun@mtu.edu)

## Classes for parents of 6–12 year-olds coming up

The Employee Assistance Program is offering MTU employees a series of free parenting workshops to help you raise your school-age child. All MTU employees and their spouses are invited.

"Active Parenting of Your Elementary Child" will be held March 3, 10, 17, 24, and 31 and April 7, at 6:30–8:30 p.m. at CLK Elementary School in Calumet. The workshop leader is Taryn Mack, a prevention/training specialist with the Copper Country Mental Health Institute.

Refreshments will be served. To register, call 482-4880.

## Close-out on Carnival shirts

The Campus Store is holding a close-out sale on 1998 Winter Carnival shirts, including sweatshirts and T-shirts, for \$3 to \$5 off. Choices are limited, so stop by soon for the best selection.

**Family Fun Day** is coming Saturday, March 7, with lots of entertainment and activities for Michigan Tech families, not to mention swell prizes. The popular annual event is sponsored by Staff Council.

Most stuff will be happening at the SDC and Memorial Union between 10:00 a.m. and 5:00 p.m. And, for those who like to consume calories as well as burn them, free hot dogs, sloppy joes, chips, soft drinks, and ice cream will be served at the SDC Blue Line Room at 11:00 a.m.–3:00 p.m.

You and your family can play badminton, basketball, volleyball, racquetball, handball, and wallyball. The pool will be open from 11:00 a.m. to 5:00 p.m. for swimming, and you can skate in the MacInnes Student Ice Arena at 11:50 a.m.–12:50 p.m. (sorry, no hockey or broomball). Older children enjoy the inflatable planetarium STARLAB, where they can observe the night sky and learn about constellations and mythology.

About equipment: The SDC has some equipment that it will lend out, but when it's gone, it's gone. If there's something specific you plan to do and you have your own equipment, you might want to bring it along.

Families can use the weight room from 11:00 a.m. to 5:00 p.m.—children must be supervised. Family members age 10 and older can try out the rifle range in the SDC basement at 11:00 a.m.–2:00 p.m. Firearms are provided; don't bring your personal guns. However, do bring your own bows and arrows if you'd like to practice your archery skills; archery hours are 2:00–4:00 p.m.

Also in the SDC, the Wellness Program is sponsoring blood pressure and body fat screening, glucose testing, and smoking-tobacco education at 1:00–3:00 p.m. And, the 2K and 6K Big Foot Snowshoe Race (or Big Foot Walk if there's no snow) begins at 9:00 a.m. at McLain State Park. Prizes include a NordicTrack, a two-night stay at a McLain cabin, and more. There is a registration fee—more information is forthcoming.

The Memorial Union is offering free bowling and billiards at 11:00 a.m.–3:00 p.m.

Organizers hope you will preregister for Family Fun Day by March 2 so they'll know how many people to expect. You'll want to preregister because you could win a Personal Family Fun Day package—two Sbarro pizzas and a twelve-day pass to the SDC so you can work them off your hips and thighs.

Everyone should have received a registration form via campus mail. If not, or if you'd like more information, contact Glenn Ekdahl at 487-2461 or Dave Nordstrom at 487-2578.

## Classroom equity conference

All MTU faculty and staff are invited to attend (for free!) the Equity in the Classroom VIII Conference, set for Thursday and Friday, March 19–20, at Saginaw Valley State University.

The conference focuses on increasing enrollment, retention, and graduation rates among underrepresented groups in higher education. Twenty workshops are offered on subjects ranging from teaching students how to succeed to understanding the systemic basis of white privilege. Major topics include "The Redefinition of Merit and Its Impact on Diversity in Admissions," "Creating Engaged Classrooms," "Graduating Students—Addressing Attrition," and "Creating Successful College/University Transfer Programs."

The keynote speakers are Blenda Wilson, president of California State University, Northridge, and Vincent Tinto, distinguished professor of education at Syracuse University.

To register for the conference, submit a registration form to Educational Opportunity by March 4. All departments have received registration forms, but if you need one, call 487-3539.

## Great entertainment coming in March

*Submitted by University Cultural Enrichment*

Three top-notch shows—hypnotist Fred Winters, The Peking Opera, and The Acting Company's production of *Romeo and Juliet*—are coming up during the first three weeks of spring quarter. Ticket sales are already brisk, and the Student Entertainment Board and the University Cultural Enrichment Department are hoping for a repeat of the sold-out shows during fall and winter.

### Fred Winters

Although students make up a high percentage of the audience for hypnotism shows at Michigan Tech, Fred Winters (Friday and Saturday, March 13–14, Fisher 135, 8:00 p.m.) appeals to a much broader audience. Even skeptics come away amazed at the power of Winters' skill, convinced that there's far more than just showmanship going on here. Although Winters manages to put his subjects through some extraordinary experiences, he doesn't ridicule them. In fact most of these volunteers describe the hour or so of "being under" as wonderfully relaxing and dreamlike. They're conscious of the crazy things they're doing, but are completely uninhibited and comfortable.

### Peking Opera

The Peking Opera, a company of fifty from Hebei province in China, comes to the Calumet Theatre at 8:00 p.m. on Tuesday, March 17. Bridging the gap between historic performance art and modern theatrics, they offer an eye-dazzling display of music, song, acrobatics, martial arts, sword throwing, juggling, dance, and pantomime. Exotic costumes, brilliant face painting, and gravity-defying dancers and tumblers whirling across the stage all add up to a colorful spectacle that's decidedly more acrobatic than operatic. A narrator introducing each of the four dramas in English, as well as detailed program notes, bridge the language barrier. However, the meaning of the stories—good versus evil and love versus duty—is clear without explanation.

### Romeo and Juliet

Perhaps the most famous romantic tragedy in the Western world, Shakespeare's *Romeo and Juliet* has endured for four centuries. This new production, set in the late nineteenth century with pristine white sets and richly colored costumes, brings a fresh new interpretation to this moving story of star-crossed lovers. The Acting Company, the touring arm of the John F. Kennedy Center for the Performing Arts in Washington, DC, America's only permanently touring classical theater ensemble, will be at the Calumet Theatre on Saturday, March 28, at 8:00 p.m. Immediately following the performance, the audience is invited to an informal discussion session with the cast in the theater ballroom.

Tickets for all three events are on sale at the Memorial Union Box Office (487-3200, Monday-Friday, 10:00 a.m.–2:00 p.m.), the SDC Central Ticket Office (487-2073, Monday-Friday, 8:00 a.m.–6:00 p.m.), and the Calumet Theatre (337-2610).



## In print

Professor **Anant Godbole** (mathematical sciences) published an article, "Acceptance Sampling," in the *Encyclopedia of Mathematics, Supplemental Volume I*. He also published "Improved Upper Bounds for the Reliability of d-Dimensional Consecutive k-out-of-n: F Systems," coauthored by Laura Potter (North Carolina State University) and Jessica Sklar (University of Oregon), in *Naval Research Logistics*, Vol. 45 (1998).

## Scientists hope to improve space telescopes

Submitted by the News Bureau

Associate professors **Mike Roggemann** and **Tim Schulz** (electrical engineering) are developing new techniques to sense distortions in space telescopes.

The goal of the project is to sense wave front errors on the thin mirrors of large space telescopes. "To lighten mirrors as much as possible for launch, mirrors are being made thinner and therefore less mechanically stable with every new telescope," Roggemann said.

"In the space environment, the mirrors are very susceptible to vibrations from pointing the telescopes at different targets and also to thermal stresses caused by the telescopes passing in and out of Earth's shadow." In space, as Earth follows a path around the Sun, shadows trail behind. Since no heat from the Sun can warm the shadow, temperatures fall to extreme levels.

Subjected to such stresses, "the clarity of the telescope mirrors becomes comparable to the eyesight of a person wearing glasses," says Roggemann. "The

## More money for food! Per diem up \$4

Effective immediately, the standard meal per diem rate for University travel has been raised to \$30, up from the former \$26 per day. The breakdown for meals is \$6 for breakfast, \$8 for lunch, and \$16 for dinner. If you have any questions, please contact Nancy Corrigan at 487-2373.

## New staff

**Andrew Londo** has joined the School of Forestry and Wood Products staff as an assistant research scientist. He is currently a graduate student, having earned his BS in Forestry from MTU and an MS in Forestry from Texas A&M University. Londo lives in Houghton and is married to Alexis Londo.

## On the road

Assistant Professor **Noel Schulz** (electrical engineering) gave an invited presentation, "Intelligent System Development for Planned Switching," as part of a panel on Practical Applications of Intelligent Systems<sup>2</sup>, at the IEEE Power Engineering Society Winter Meeting, held January 31–February 5 in Tampa, Florida. She also chaired the Power Engineering Education Committee Subcommittee Meeting on Power Engineering Career Promotion, hosted the first Women in Engineering Reception at a power engineering meeting, and cochaired a session on Integration of Research into the Undergraduate Curriculum.



## International opportunities

The Office of International Programs and Services has information on a variety of opportunities for study and research abroad. For applications and more information on the programs listed below, call 487-3055.

### Curriculum development

IREX (International Research and Exchange Board) is sponsoring the 1998 Curriculum Development Exchange Program. The program supports curriculum development in the social sciences and humanities in the United States and the New Independent States of the former Soviet Union through the exchange of faculty and graduate students. Travel and living expenses are supported through the US Information Agency.

### Scholarships

Japan's Ministry of Education is providing three types of scholarships for American students: Japanese Studies, which offers one year of financial support to pursue Japanese language and culture courses in Japan; Research Student, providing eighteen-month and two-year scholarships for graduate students to study in Japan as research students in the arts and natural sciences; and In-Service Training for Teachers, an eighteen-month scholarship for primary and secondary school teachers.

## POSITIONS AVAILABLE AT MTU

Job descriptions are available from Human Resources starting at 1:00 p.m. on Friday. You can e-mail us at JOBS@MTU.EDU and we will e-mail you the job description you request.

The following positions will be posted Friday, February 20, 1998, at 1:00 p.m. through noon, Friday, February 27, 1998, in the Human Resources Office.

Custodian—Facilities Management (Regular, full-time, third shift, AFSCME internal posting)

University employees are reminded to apply in writing prior to noon, Friday, February 27, 1998, to be considered as internal candidates for bargaining unit positions only. Applicants from the recall pool will be given first consideration for non-bargaining-unit positions only. Vacancy announcements are normally posted every Friday at 1:00 p.m. in the Human Resources Office. Complete job descriptions are available in the Human Resources Office or by calling 487-2280. More information regarding employment opportunities is available by calling the Job Line at 487-2895. Michigan Technological University is an equal opportunity educational institution/equal opportunity employer.

## February Black History Month

- 20 **Friday**  
noon—Coaches Corner/Blueline Club luncheon—Franklin Square  
7:35 p.m.—Hockey, Wisc. at MTU—MacInnes Student Ice Arena  
8:00 p.m.—MTU Jazz Bands concert—Walker Theatre
- 21 **Saturday**  
7:05 p.m.—Hockey, Wisconsin at MTU—MacInnes Student Ice Arena  
8:00 p.m.—MTU Jazz Bands concert—Walker Theatre
- 23 **Monday**  
noon—National Eating Disorders workshop—Memorial Union 105B  
noon—National Eating Disorders workshop for athletes—SDC 207
- 24 **Tuesday**  
noon—Basketball luncheon—Memorial Union 105  
8:00 p.m.—National Eating Disorders workshop, "How to Help a Friend Who May Have an Eating Disorder"—MUB
- 25 **Wednesday**  
noon—Blood pressure clinic—Memorial Union Alumni Lounge
- 27 **Friday**  
noon—Coaches Corner/Blueline Club luncheon—Franklin Square  
7:05 p.m.—Hockey, Mankato State at MTU—MacInnes Student Ice Arena