

Task force formed to develop new general education requirements Senate passes academic freedom policy

The University Senate passed a new Policy on Academic Freedom January 21. And after more than two years of give and take on the issue, this version is expected to satisfy both faculty and administration.

The proposal, which is now subject to administration and Board of Control approval, is based on the American Association of University Professors' 1940 Statement of Principles on Academic Freedom and Tenure, available on the Web at <http://www.aaup.org/1940stat.htm>. The proposal does not include the AAUP section relating to tenure. In addition, senators expressed concern over a clause stating that faculty should "at all times be accurate" when speaking or writing as citizens of the community. The senate then approved an amendment adding language saying they should "strive to" be accurate.

The proposal will also reference the AAUP's 1970 interpretation of the policy.

The University is gearing up to revise its general education program, Vice Provost for Instruction **Stephen Bowen** told the senate. A thirty-three member Core Curriculum Task Force, including students, faculty, and staff from across campus, has been formed to develop a new set of general education requirements, which will be submitted to the University Senate for review and then go to the entire faculty in a referendum. The task force hopes to complete its proposal by August so the senate and faculty can act upon it in fall 1998.

General education is not directly related to a student's professional training, Bowen said. "It is intended to impart the common knowledge, intellectual concepts, and attitudes that every educated person should possess," he said. And, in an era when technical training becomes obsolete very quickly and job skills must be constantly updated, a general education can be the underpinning for the many different career paths graduates can now expect.

MTU's general education program has fallen into disfavor with virtually everyone, and was considered deficient by the NCA ten years ago during the University's previous accreditation evaluation. "We

dodged the bullet this time," Bowen said. The NCA has not looked into the program during the current reaccreditation process, since the core curriculum is in flux due to the upcoming change to semesters.

However, the NCA evaluation team that visited MTU January 12-14 is recommending that MTU file a report on its general education program in 2003.

The task force goals are to develop a core curriculum that has University-wide support and coherent requirements, includes continuous assessment, and is "ambitious, creative, and exciting."

The current "Chinese menu" approach of choosing classes to fulfill the general education requirement is unsatisfactory, Bowen said. A diversity of related offerings should be available, so students can choose a sequence of courses that works for them.

Bowen stressed that the task force will have an open mind on the general

education issue and that all its meetings will be open. While he welcomed input from the University community, he noted that no one should expect to have their favorite class included in the core curriculum just because they want to teach it.

The task force has been given a large amount of flexibility and authority in developing a core curriculum, Bowen said. Provost **Fred Dobney's** guidelines are very general, with the exception that the curriculum include 9 semester credits of free electives. The prevailing opinion in higher education is that everyone should be able to take some classes just because they want to and not because they have to, Bowen said.

Senator **Bogue Sandberg** (civil and environmental engineering) said he hoped the free electives would not undercut major requirements. "Let me send a warning," he said. "Some of these great universities have consulting firms nearby that don't interview there—they come here to interview."

Senate President **Bruce Seely** said that the electives credits would not trim the number of classes required in the student's major. They would be a portion of the core curriculum, which will be roughly the same number of credits as it is now, figuring in the change to semesters.

Continued on page 5

In an era when technical training becomes obsolete very quickly and job skills must be constantly updated, a general education can be the underpinning for the many different career paths graduates can now expect.

State treasurer sets tuition cap for state tuition tax credit

State Treasurer Douglas Roberts has set 2.3 percent as the maximum amount that Michigan universities can increase their tuition for the 1998-99 academic year and still participate in the Michigan College Tuition Income Tax Credit.

The tax credit allows taxpayers to deduct a portion of their Michigan-college tuition payments from their Michigan state income tax. However, the taxpayer can only claim the tax credit if the college or university does not increase its tuition by more than the previous year's inflation rate. In 1997, the inflation rate was 2.3 percent, according to the US Consumer Price Index.

MTU president honored

Submitted by the News Bureau

President **Curt Tompkins** has been named a Fellow by the Assembly of Fellows of the Michigan Society of Professional Engineers (MSPE). According to the MSPE Board of Directors, the award recognizes Tompkins for his outstanding contributions to the society and the engineering profession, and for his distinguished engineering achievements.

The award will be presented to Tompkins at the annual meeting of the MSPE scheduled to be held May 15 at the Grand Traverse Resort in Acme, Michigan.

J a

A great pilot can sail even when his canvas is rent.

—Seneca, Epistles

Faculty: It's easier than ever to manage class e-mail lists

Submitted by Renee Greenley (IT), senior systems analyst

Do you like the idea of having an electronic mailing list for your class, but hate keeping it up-to-date with all the adds and drops? Do you find yourself forgetting the special wording needed to update your e-mail list subscribers, or do you just want a simple way to see who's on your e-mail list? Or maybe you found the whole process of creating a new e-mail list too cumbersome.

Distributed Computing Services (IT) has the solutions. Two new features are now available that will make the creation and management of electronic mailing lists easier for list owners at MTU.

First, it is now possible to request an automatic e-mail list for your class. All students currently enrolled in a class according to the BANNER database will be automatically subscribed to your class e-mail list. These subscriptions are updated nightly to reflect all adds and drops to the class, keeping the class e-mail list current with no work on your part. It is also possible to subscribe additional people to the list, such as teaching assistants or students auditing the class. This automatic class list option can be activated when the class list is created.

Second, there is now a user-friendly Web page available for creating and maintaining MTU e-mail lists. This new MTU Web site is called "MajorCool" and is located at <http://majordomo.mtu.edu>. This Web site allows list owners to request new lists, update subscribers on their current lists, and delete unneeded lists, all via a Web page. Confusing majordomo commands are no longer necessary for these functions.

If you have any questions, please contact Renee Greenley at rgre@mtu.edu

Reck directs global change institute at UC Davis

Submitted by the News Bureau

Board of Control member **Ruth Reck** left the Argonne National Laboratory on January 5 to accept a dual appointment as director of the National Institute for Global Environmental Change (NIGEC) and professor at the University of California at Davis. Reck is the former director of Argonne's global climate change programs and was serving a two-year term as the laboratory's Women in Science Program Initiator. She was on the research staff of Argonne's Environmental Research Division.

With regional centers at six universities (Alabama, UC Davis, Harvard, Indiana, Nebraska, and Tulane), NIGEC is supported through the Department of Energy's Office of Biology and Environmental Research. The organization's mission is to help DOE answer questions related to climate change.

The NIGEC mission is addressed by a national monitoring program that makes direct measurements of carbon dioxide flux and environmental conditions and conducts modeling, ecology, and physiology studies to learn how the terrestrial biosphere acts as a sink for carbon dioxide. Another program on integrated ecological effects and integrated assessment involves model validation and intercomparisons to identify (1) the feedbacks that constrain the regional effects of climate change, (2) the influence on carbon cycling of changes in productivity and land use, and (3) the effects of extreme weather conditions versus mean values.

TECH TOPICS

is published weekly by

University Relations

Bill Curnow, director, University Relations
Dennis Walikainen, mgr., Editorial Services
Marcia Goodrich, Tech Topics editor
Gail Sweeting, composer

To get Tech Topics via e-mail, send a message to MAJORDOMO@MTU.EDU saying SUBSCRIBE TECH-TOPICS-L

Information to be included in *Tech Topics* should be submitted to the *Tech Topics* editor in one of the following ways:

- By e-mail to ttopics@mtu.edu
- By campus mail, send typed copies to *Tech Topics*, University Relations.

Each week, the deadline for submitting information is **Friday at 5:00 p.m.** for publication the following Friday.

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

Mileage rate increased

The mileage rate for using a non-University vehicle for University-related travel has been increased to 32.5 cents per mile. If you have any questions, call Nancy Corrigan (Accounting Services) at 487-2373.

C²E² awards announced

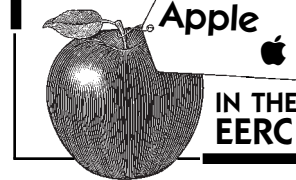
The Century II Endowed Equipment Fund Committee has approved three equipment-funding requests. On behalf of the SBE, **Paul Aho** received \$2,995 to buy Lightware VP-800 projections units. The School contributed an additional \$2,995 toward the purchase.

Charles Roe received \$5,044 on behalf of the Graduate Student Council to purchase a multimedia system for the Graduate Student Center. The council contributed an additional \$14,250.

Brad Baltensperger and **Sue Martin** received \$3,345 to fund multimedia projection equipment for the Department of Social Sciences. The department and the College of Sciences and Arts each contributed an additional \$1,665 to support the purchase.

C²E² awards are typically in the range of \$3,000 and support small equipment purchases. The Century II Endowed Equipment Fund Committee meets at least once each quarter during the academic year to consider requests. For more information, contact Donna Peck at 487-2327.

Pick
YOUR
FAVORITE



Michigan Tech students and employees can again order Apple computers on campus.

As a service to the MTU community, IT's Educational Technology Services has opened the MTU Apple Sales

Center in the basement of the EERC, in room B40. The center has lots of literature on hand, and consultants can help you pick the Mac that's right for you. In addition, they also have one demonstration model of Apple's new PowerPC G3.

"It's supposed to be about the fastest desk-top computer on the planet—it runs at 266 Mhz," said **Ken Irwin**, coordinator of ETS systems.

Computers, both Apple and otherwise, have not been available for sale at MTU since spring 1997, when the MTU Campus Store closed out its inventory. But without a sales site, the University was faced with losing the authorized warranty-repair service it provided to MTU's Mac users. Macs are used throughout campus and are ubiquitous in University Relations and the humanities department, which use them to produce publications.

You can drop by the MTU Apple Sales Center Monday–Friday, 8:30 a.m.–4:30 p.m. Or, for more information, visit their Web site at www.ets.mtu.edu/applesales

Support the running Huskies— Buy a pasty!

The MTU Track and Field team is holding a pasty sale fundraiser.

The Cozy Corner in South Range will be making the pasties, both regular and vegetarian, at a price of \$3 each.

Deliveries will be made on the following Tuesdays and Thursdays at noon and 4:00 p.m.: February 24 and 26; March 24 and 26; and April 21 and 23.

Athletes will be contacting departments, and you can also order by calling the Athletic Department, 487-3070. "The MTU Track and Field team appreciates your continued support," organizers said.

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

Grad students helping PAC de-Superfund Torch Lake

A Superfund site is not one of those local attractions that tourism councils tend to feature prominently in their "Things to Do and Places to See" brochures.

And in Michigan, once you're on, getting off the US Environmental Protection Agency's National Priority (Superfund) List is no small matter. In addition to the EPA, the state Department of Environmental Quality is involved, along with the International Joint Commission, a US-Canadian organization that deals with Great Lakes water quality. So even though the Torch Lake area would probably not meet the threshold for inclusion as a Superfund site today, the Torch Lake Public Advisory Council (PAC), a local group formed by the DEQ to deal with the issue, still has many government hoops through which to jump before Torch Lake is again merely another nice lake in the Copper Country.

However, graduate students in MTU's environmental policy program are making that chore considerably easier. Assistant Professor **Hugh Gorman's** Environmental Decision Making class is helping out, specifically by addressing "impairments of beneficial use" posed by the International Joint Commission (IJC).

Torch Lake is among about fifteen sites in Michigan that the IJC has fingered as so-called "areas of concern." And, to help extricate Torch Lake from that group, the PAC must look at and offer solutions to each of fourteen potential "impairments," which range from beach closings to fish tumors. Gorman's students have been systematically reviewing the research surrounding each impairment and presenting their reports to the PAC, working through the PAC's technical committee. The students also publish their report summaries in the *Daily Mining Gazette*.

"This is a complex process, and the members of the PAC are busy people—they weren't making much progress," Gorman said. "Now, the students are helping get the issues out, and the PAC really appreciates it. Mostly there are no issues," he added. "Most of the IJC's impairments don't really apply to Torch Lake."

Professor **Glenn Mroz** (SFWP), who chairs the PAC's technical committee, praised the students' efforts. "We're dealing with the EPA, the DEQ, and the IJC, and there are about ten individuals from those organizations that are involved in this delisting project," he said. "It's very complicated, and the students have been really good at ferreting out the critical path."

"In many respects, they have been leading the way in determining what needs to be done," Mroz said. "This has been really welcome help, especially in identifying a process to follow, and the people on the PAC are delighted that they are here."

The project has been beneficial for the students as well. "I've gotten a lot out of it," MS student **William Beaver** said. "There are a lot of nuts-and-bolts activities involved with the project—you get to go in and actually do stuff, which is nice. And the PAC seems genuinely happy to have us on board."

Knowing what he now knows, Beaver doesn't view the Torch Lake area as a particularly egregious Superfund site. "It isn't a heavily contaminated site," he said. "Now, it's a matter of addressing the issues the way the IJC wants them addressed."

Anybody with an interest in the project, or who might have reports on Torch Lake that are not available in the MTU Archives or in the EPA files at Portage Lake Library, is invited to contact Gorman at 487-2113 or hgorman@mtu.edu

MTU Home Page gets the Golden Pasty

Michigan Tech's Home Page has won the coveted Golden Pasty Award, which is proudly on display at the bottom of <http://www.mtu.edu>

The Golden Pasty is awarded by Charlie Hopper, administrator and webmaster for Still Waters Community Elders Home in Calumet. He developed the award to recognize quality Web sites in the UP and to add interest to Pasty Central, Still Waters' Web page. Pasty Central markets mail-order pasties nationwide and uses the revenue to support the home's programs.

The MTU Home Page is a collaborative effort of **Dennis Walikainen**, manager of Editorial Services, and **Gail Sweeting**, senior composer/operator (University Relations).

"The content of the MTU Home Page really relates to the UP and our area, and you'd be hard pressed to find better quality," Hopper said, explaining why he selected MTU as a Golden Pasty winner. "Second is the technical quality--MTU has kept up with technical excellence." Despite having many graphics, the page is quick to appear on screen.

"And there is another reason that the Golden Pasty was very appropriate for MTU," Hopper added. "The largest single group of our customers is Michigan Tech alumni--thanks to all the MTU alumni who have helped make Pasty Central a success."

Of course, not everyone who ends up at Pasty Central is as proficient in pasties as MTU students. "We have a contest every month, and one of the winners of our 'I Love Pasties' T-shirt said in their entry that everyone in their family loves 'pasties,'" he said.

On the road

Associate Professor **Josiah Heyman** (social sciences) presented a paper, "State Escalation of Force: A Vietnam/US-Mexico Border Analogy," and chaired the panel The US-Mexico Border As War Zone: From Metaphor to Reality at the American Anthropological Association meetings held in Washington, DC, November 19-23. Also at the meetings, he participated in the Society for Applied Anthropology's Committee on Public Policy meeting.

MTU, EPA collaborate on chemical compliance center

By *Brenda Polk, MTU News Bureau*

Researchers at Michigan Tech have joined with the U.S. Environmental Protection Agency to create a Chemical Industry Compliance Assistance Center.

"This EPA program is establishing assistance centers around the country to give small businesses help in understanding and complying with environmental regulations," says Compliance Center Co-Director **James Baker**, an MTU research engineer. The newest addition, a center for the chemical industry, is a collaborative effort of MTU, Battelle/Pacific Northwest National Laboratories, and the University of Wisconsin Solid Hazardous Waste Education Center.

The center will include an interactive, on-line help desk, so information will be available across America. "Our plan is to have September 1998 as the official launch of the Web site," says Baker. "For those companies who don't have access to the Internet, fax and hotline services will also be available. Pollution prevention will be the main focus for helping companies reach compliance."

"When chemical manufacturers are on their way toward reaching compliance, a cleaner environment will follow," says Baker. "The US chemical industry is the country's lead exporter and this will make the industry more competitive globally. It'll be healthy for jobs and export revenue, but the main focus is keeping facilities open and reducing the environmental impact of their operations."

The EPA's \$855,000 cooperative agreement is intended to establish a self-sufficient center within three years.

Volunteers needed for green classroom presentations

The Groundwater Education in Michigan (GEM) Center is looking for volunteers to teach elementary students about environmental issues.

Presenters help young people explore the water cycle, discover how drinking water can be polluted, and learn how to reduce, reuse, and recycle their trash. Volunteers can be homemakers, MTU students and employees, or retirees—anyone with an interest in the environment and youth.

The first training session for volunteers will be

held Monday, January 26, at 7:00-9:00 p.m. in Memorial Union Ballroom B1. A second workshop is set for Wednesday, February 4, at 7:00-9:00 p.m. in Chemical Sciences and Engineering 106.

The GEM Center will provide volunteers with all the instruction materials and make the arrangements with local schools. Last year, 20 volunteers gave 44 presentations to 850 Copper Country students.

To register for a workshop, contact the GEM Center at 487-3341.

“Riveting” movie Jan. 27 on Tiananmen Square uprising

Submitted by University Cultural Enrichment

Moving the Mountain, the first of three movies in the Human Relations Series, will be shown on Tuesday, January 27, at 8:00 p.m. in Fisher 135. The event is free and open to members of the campus community and their guests.

Moving the Mountain, directed by Michael Apted (*Coal Miner's Daughter*, *Gorky Park*, *Thunderheart*), captures the power and passion of the 1989 Tiananmen Square uprising. On television screens across the world, millions watched with horror as government troops opened fire on more than 200,000 pro-democracy demonstrators. Hundreds were killed and student leaders not immediately arrested fled into hiding. Five of these leaders, who were subsequently on the Chinese government's most wanted list, eventually managed to escape to the US.

The movie revolves around the stories of these five young people before, during, and after the uprising, painting portraits of great courage, conviction, and commitment. *Moving the Mountain* is presented in human terms through a unique combination of newsreel and archival footage, intercut with dramatic reenactments and extensive interviews.

It is a riveting movie with many heart-wrenching scenes. It is impossible not to be moved as anguished student leader Wang Chaohua describes how she feels personally responsible for the death of her fellow protesters in Tiananmen Square. It is impossible not to feel the desperation of the families searching among rubble and bodies to find their loved ones after the massacre.

The movie press book, available on reserve at the J. R. Van Pelt Library circulation desk, contains interesting information about *Moving the Mountain* and offers many insights into the complexities of this politically sensitive project. The book includes a detailed synopsis, an historical background, biographies of the director, the producer and the five student leaders, and a fascinating description of how, without the producer's tenacity and belief in the project, the movie would never have been made.

The Human Relations Series is funded through the Office of the President and is coordinated by a committee of representatives from the President's Commissions for Women and for Diversity and the University Cultural Enrichment Department.

Proposals in progress

Researchers, their proposals, and their potential sponsors are

- **Stephen Hackney, Mohan Krishnamurthy** (MME), and **Michael Renn** (physics), "Single Crystal Thin-Film Growth by Laser Controlled Orientation and Deposition of Seed Crystals," DARPA
- **Ghatu Subhash, William Predebon** (ME-EM), and **Bruce Pletka** (MME), "Grain Boundary Engineering in High-Strength Ceramics," DOE
- **Komar Kawatra** and **Tim Eisele** (MME), "Development of a Novel Process for Removal of CO₂," Department of Energy
- **Barry Kunz** (electrical engineering), "A Study of Defect Structures in Energetic Solids," NSF-NATO
- **Philip Sweany** (computer science) and **Anant Godbole** (sciences and arts), "Building an Eclectic Computer Research Laboratory in Support of an Interdisciplinary Undergraduate Honors Program," NSF-ILI
- **Gopi Podila** (biological sciences) and the S. T. Hiremath (NE Forest Experiment Station), "Characterization and Functional Determination of Symbiosis Regulated Genes from an Ectomycorrhizal Fungus," USDA-NRIGP
- **Ching-Kuang Shene, John Lowther, and David Poplawski** (computer science), "A Computer Graphics Laboratory for a Cluster of Graphics Courses," NSF
- **Joan Schumaker-Chadde** (GEM Center), "Campus Volunteers for Copper Country Schools—A School and Community Outreach Program in Michigan's Upper Peninsula," EPA
- **John Adler** (biological sciences), "Howard Hughes Medical Institute, 1998, Undergraduate Biological Sciences Education Program," Howard Hughes Medical Institute
- **William Rose, Gregg Bluth, and Larry Coke** (geological engineering and sciences), "Improving Methods of Satellite-Based Infrared Remote Sensing of Airborne Particles in Volcanic Clouds," NASA
- **Xiaodi Huang and Jim Hwang** (IMP), "Flue Gas Utilization in Construction and Foundry Industries to Reduce CO₂ Emission and Production Costs," DOE
- **Jim Hwang** (IMP), "Greenhouse Gas Use in Aggregate Production" and "Low-Cost Bioscrubber for Greenhouse Gas Control," DOE
- **Gregg Bluth** (geological engineering and sciences), "Application of TOMS Data to Volcanic Hazard Mitigation," NASA
- **Rolf Peterson** (SFWP), "Wolf/Moose Population Monitoring, Isle Royale National Park," Isle Royale National Park
- **Michael Renn** (physics) and **Mohan Krishnamurthy** (MME), "High Throughput Nanoscale Patterning: Laser Guiding and Epitaxial Assembly," DARPA-ETO
- **Peter Laks and Dana Richter** (IWR), "Soil Block Evaluation of MacMillan Bloedel OSB," MacMillan Bloedel Research

Irish environmental activist at Tech Tea

Submitted by University Cultural Enrichment

Robert Allen has been a journalist in Ballymena, Belfast, Manchester, London, and Dublin for twenty years and a community and environmental activist since his late teens. During his past twelve years as a journalist, he has specialized in features about the environment, community politics, the

arts, and sports, contributing to the Irish, British and international media. The guest at Tech Tea Time at 4:00 p.m. on Wednesday, January 28, Allen will be talking about his latest work, *The Perfect Poison*, a book on the history of dioxin, which will be published by Cassell later this year. Tech Tea Time is held in the Memorial Union Alumni Lounge. There is no admission charge.

Allen regards dioxin as a legacy of the twentieth century, a consequence of chlorine chemistry in the production of pesticides, plastics, solvents, detergents, cosmetics, and other modern products. "The history of this class of chemicals," he says, "is also the history of the twentieth century—of the power of giant corporations, of the corruption of capitalism, of the failure of empowerment." Allen maintains that the story of dioxin is a story with environmental, scientific, sociological, and political dimensions, a story that does not touch the consciousness of the majority of the 5.8 billion people who inhabit this planet, unlike dioxin itself—a potent toxic chemical that has pervaded our daily lives and now threatens our ability to reproduce.

"If you do not know this," Allen says, "if you do not know that dioxin is so poisonous that there is no safe level of exposure, it is because modern culture has ways of keeping us ignorant and largely apathetic while humankind hurtles towards technological nirvana."

In 1990 Allen began a series of books which focused on environmental sociology/reportage. The first, *Guests of the Nation*, described the community resistance in Ireland to toxic development. The second, *Waste Not, Want Not*, published in 1992, described community opposition in Britain and Ireland to toxic waste. The third book, which is forthcoming, is an attempt to relate green and social issues to everyday life. He is presently completing several books in addition to *The Perfect Poison*.

Following the publication of *Guests of the Nation*, Allen has been invited to lecture on environmental law, politics, and sociology at universities and colleges in Ireland. He has worked as a researcher for various nongovernmental organizations and for his own research organization, the Social Ecology Research Unit, which briefs greens and others. He is presently involved in the direct action movement (with An Talamh Glas). He is co-publisher and coeditor of *Pobal an Dulrá*, an Irish weekly newsletter on social and green issues. For the past five years, he has been preparing to set up a multifaceted eco-center as a model for others.

Tech Tea Time is coordinated by the University Cultural Enrichment Department. Call 487-2844 for further information.

Self-Study Web site earns STC recognition

The Web Team for MTU's Self-Study/NCA Accreditation Web site has won an Achievement award in the third annual World Wide Web Page Competition sponsored by the Lone Star Chapter of the Society of Technical Communication (STC).

The ranking of award categories was Best of Show, Distinguished, Excellence, Merit, and Achievement. Twenty-two awards were given.

The MTU Self-Study Web team includes **Nancy Hoft** (site designer and PhD student, humanities), **Todd Heinrichs** (technical editor/ Web support and master's student, humanities), **Teri Schrimpf** (Web support, Provost's Office), and **Ann Roth** (Web support, Treasurer/CFO's Office). The site, begun in August 1997, now consists of hundreds of files and dozens of graphics. Over 500 hours of effort went into the site's development and maintenance. "The Web Team wishes to thank everyone who provided us with valuable feedback on broken links, typographical errors, and so on," Hoft said.

The URL to the award-winner announcement page is <http://stc.org/region5/lsc/www/ipic/webwin97.htm>

The URL to the Self-Study Web site is www.admin.mtu.edu/admin/nca/

EAP offering more parenting classes

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

"Parents on Board," a workshop on helping children succeed in school, will be held February 18 and 25 and March 4 and 11, at 3:30-5:30 p.m. at the Elm River Township School.

"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.

"Active Parenting of Teens" is set for April 1, 8, 15, and 22 and May 6, at 6:30-8:30 p.m. at Grace Lutheran Church, located on M-26 in South Range.

Call Copper Country Mental Health—Institute at 482-4880 to register. You will be mailed brochures before your program begins.

In print

Professor **Elizabeth Flynn** (humanities) published "Emergent Feminist Technical Communication" in the summer 1997 issue of *Technical Communication Quarterly*.

Assistant Professor **John Flynn** (humanities) published "Toward a Feminist Historiography of Technical Communication" in the summer 1997 issue of *Technical Communication Quarterly*.

Professor **Vladimir Tonchev** (mathematical sciences) published a paper, "Maximum Disjoint Bases and Constant Weight Codes," in Vol. 44 (1998) of *IEEE Transactions on Information Theory*.

Senate Continued from page 1

In other business, the senate

- heard a report from Seely relating to the at-will clause that all new nonrepresented staff sign when they are hired at MTU. The senate voted last year to eliminate the clause. Administration also opposes it and is working with the Board of Control in an effort to remove it.

Just to let you know . . .

Course evaluation policy

Here's the University policy regarding which courses must be evaluated by students:

Beginning in the fall 1998 term, either the longer or shorter IDEA form must be used in at least one section of each different course preparation each term. (During the 1997-98 academic year, the longer IDEA form will be used with the five MTU core items appended.) Evaluations in additional sections may be requested by the faculty member or may be required by his/her academic administrator. To encourage instructional development, faculty members shall use the longer IDEA form at least once each academic year.

Sections with fewer than six enrolled students should also be evaluated using an IDEA instrument. However, because such a small number of responses tends to yield unreliable data, forms from these small sections will not be processed, but simply returned to the faculty member for his/her use.

If you have any questions, call the Center for Teaching, Learning, and Faculty Development, 487-2046.

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, January 23, 1998, at 1:00 p.m. through noon, Friday, January 30, 1998, in the Human Resources Office.

- Assistant Research Scientist—School of Forestry and Wood Products (One-year, fixed-term, full-time, with possibility of becoming regular)
- Technical Staff Assistant—Civil and Environmental Engineering
- Senior Clerk (N2)—Air Force ROTC (Regular, part-time, internal and external UAW posting)
- Secretary II (N4)—Facilities Management (Regular, full-time, internal and external UAW posting)
- Senior Secretary (N5)—Educational Opportunity (Regular, full-time, internal UAW posting)

University employees are reminded to apply in writing prior to noon, Friday, January 30, 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.

January

- 22 Thursday**
6:00 p.m.—Martin Luther King Banquet with Kathleen Neal Cleaver—Memorial Union Ballroom
6:00 p.m.—Women's basketball, Grand Valley State at MTU—SDC
8:00 p.m.—Men's basketball, Grand Valley State at MTU—SDC
8:00 p.m.—*Noises Off*—Walker Theatre
- 23 Friday**
8:00 p.m.—*Noises Off*—Walker Theatre
- 24 Saturday**
1:00 p.m.—Women's basketball, Ferris State at MTU—SDC
3:00 p.m.—Men's basketball, Ferris State at MTU—SDC
8:00 p.m.—*Noises Off*—Walker Theatre
- 27 Tuesday**
noon—Basketball luncheon—Memorial Union 105
8:00 p.m.—*Moving the Mountain*—Fisher 135
- 28 Wednesday**
4:00 p.m.—Tech Tea: environmental activist/journalist Robert Allen—Memorial Union Alumni Lounge
10:00 p.m.—Winter Carnival recess begins
- 29 Thursday**
8:00 p.m.—*Noises Off*—Walker Theatre
- 30 Friday**
noon—Coaches Corner/BlueLine Club luncheon—Franklin Square
8:00 p.m.—*Noises Off*—Walker Theatre