

D&N Establishes Business Scholarship

Submitted by the News Bureau

D&N Bank has established a scholarship for students from the Upper Peninsula in the School of Business and Economics. D&N has specified that the scholarship funds be managed by business students in the School's applied portfolio management program.

The program offers business students the experience of investing and managing real dollars. Last year, the class managed a small portion of the Michigan Tech Fund's portfolio of investments. The class uses D&N's board room in the company's Hancock headquarters for presentations, and the bank provides investment transactions free of charge.

"We believe this is just part of the outstanding hands-on education that Michigan Tech has become known for," said **David Williams**, president of D&N's Upper Peninsula Banking Group (and a graduate of Michigan Tech).

The scholarship fund will benefit undergraduates in business and economics, with preference given to students from the Upper Peninsula. Students can continue receiving the scholarship for four years, provided they maintain a 3.0 grade point average.

The scholarship will also support Michigan Tech's Leaders for Innovation Campaign, a five-year effort to raise at least \$140 million for the University. The campaign is targeting five broad areas: investment in students, faculty, university enrichment, facilities, and innovation and technology. The campaign will run through 2003.

C²E² Proposals Sought

The Century II Campaign Endowed Equipment (C²E²) Fund Committee is inviting faculty to submit proposals for small equipment grants. The committee will meet in May to review proposals. Guidelines are available from <http://www.admin.mtu.edu/rgs/graduate/c2e2.htm>. The deadline is 5:00 p.m., Friday, April 28. Send eight copies to the vice provost for research and dean of the Graduate School.

Lottery: A tax on people who are bad at math.

—BILL NYE

Perspectives Gets High Marks from Faculty, Students

In what amounts to a big-duh moment, **Bill Kennedy** says he's really, really not surprised that student evaluations of teaching in the pilot Perspectives on Inquiry classes have been awfully good.

Even though they are built brand-new from the bottom up, and even though they are being taught for the first time, Perspectives classes have a few things going for them that many courses lack. Barring a meltdown, they are virtually hard-wired to succeed, said Kennedy, director of the Center for Teaching, Learning, and Faculty Development.

"The good news about Perspectives is that the people who are teaching it are teaching things they are really interested in and haven't had a chance to teach before," said Kennedy, who teaches a section on violence called Understanding Human Conflict. "The class size is small. And the students can choose a topic they are interested in—they are not conscripts. If you have motivated students being taught by motivated teachers, you can expect good evaluations."

"I know the faculty enjoy these courses, and I'm pretty sure the students do too," said Associate Professor **Marilyn Cooper** (Humanities), who taught the section Antarctica. "The coaches in the Writing Center say the students like the discussion, like the engagement, and, except for students who like to hide out, they like the small class size."

They also like the fact that Perspectives is not just more of the same. "The way the course has been organized has turned out to be a good strategy, in the sense that it's not like anything they had in high school," Cooper said. "They like its not being an English class."

Campus Visits Scheduled for Provost Candidates

The Provost Search Committee has scheduled campus visits for three of the four candidates for provost and senior vice president for academic and student affairs. Two open forums will be held for each of the candidates, with evening forums sponsored by Staff Council and the University Senate and afternoon forums sponsored by the Undergraduate Student Government and the Graduate Student Council. They include the following:

- Dean of Sciences and Arts **Max Seel**, Monday, April 3, 7:00–9:00 p.m., Memorial Union Ballroom; and Tuesday, April 4, 4:00–5:30 p.m., M&M U115
- Thomas Hanley, dean of engineering at the University of Louisville, Thursday, April 13, 7:00–9:00 p.m., M&M U115; and Friday, April 14, 4:00–5:30 p.m., M&M U115
- W. Kent Wray, dean of engineering at Ohio University, Monday, April 24, 7:00–9:00 p.m., Memorial Union Ballroom; and Tuesday, April 25, 4:00–5:30 p.m., M&M U115.

The forums are open to the public, and all members of the MTU community are invited. The visit of Gregory Campbell, dean of engineering at Clarkson University, will be announced later.

Book Sale April 6

The Friends of the Van Pelt Library will hold their annual book sale on Thursday, April 6, from 10:00 a.m. to 5:00 p.m. in the Memorial Union Ballroom. The sale will include more than 1,000 books, both paperbacks and hardbound, in all areas: science, technology, history, literature, reference, business, textbooks, and more. Also, videotapes, CDs, and children's books will be on sale. There's something for everyone at this popular sale, and prices are always low.

All proceeds go to purchase books for the Van Pelt Library.

Those who wish to make last-minute book donations are welcome to drop them off in the big orange box in the entryway of the Van Pelt Library. For pick-up of large donations, call Dee Vincent (487-2871 or dee@mtu.edu).

If you would like to join the Friends (and become eligible for their special pre-sale on April 5), contact Kim Hoagland (487-2113 or hoagland@mtu.edu). For more information: Kim Hoagland, 487-2113

GSC Elects Officers, Advisor

The Graduate Student Council has announced election results for principal officers and academic advisor. Lecturer **Brett Hamlin** (General Engineering) was chosen advisor for the next two academic years. Officers, who serve during the 2000-01 academic year, are President **Jo Deaton**, Vice President **Romulo Almeida**, Secretary **Bill Rosemurgy**, and Treasurer **Geoff Roelant**.

Computer Science Colloquium

Charles Wallance will give a colloquium, "Formal Specification: Toward a Practical Methodology," on Friday, April 7, at 8:00 a.m. in Fisher 139.

Wallance is a visiting professor at the Computer and Information Sciences Department of the University of Delaware, Newark.

MichiganTech

Bill Curnow, executive director, University Relations
Marcia Goodrich, *Tech Topics* editor

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.

Premature Obituary

Center for Teaching, Learning, and Faculty Development By William Kennedy, director



Teaching at
Tech

Reports of the imminent demise of traditional higher education are somewhat premature, according to Stanford University president Gerhard Casper. Identifying nine general tasks that universities perform for society, Casper then considers the impact that information technology will likely have on each.*

Casper sees the nine functions of the modern university as 1) knowledge assessment and creation, 2) assessing and reviewing those who have the capacity to be scholars, 3) educational and professional training, 4) knowledge transfer, 5) credentialing, 6) social integration, 7) the collegiate rite of passage to adulthood, 8) providing a place for networking, and 9) fostering a worldwide community of scholars.

Casper argues that some but clearly not all of these functions will migrate to cyberspace to varying degrees in the years ahead. There will be some substitution of distance learning for in-residence education, he says. Stanford, Princeton, and Yale, for example, are cooperating to provide continuing education to their alumni using technology.

Casper argues that universities must take the lead as first-line providers of those university functions that are likely to migrate to cyberspace. Unless universities act soon, Casper warns, "it is possible that commercial providers of online educational services will skim off what is profitable and will leave the

* James Robinson, *The Stanford Report*, Volume 32, No. 21, March 9, 2000.

Take Our Daughters to Work Day April 27

The Presidential Commission for Women has planned a day of programming on April 27 targeted toward fifth- and sixth-grade girls who are children or friends of Michigan Tech employees. In addition to spending a portion of the day on the job, students will have the opportunity to participate in various sessions and tours presented by faculty, staff, and students. Sessions are "Biomaterials: Building a Better Body"; "Fun With Those Wacky Electrons"; "Seaman Museum"; "Building Bridges Civil Style"; "Creative Painting: Fun at Work"; "Communicating Digitally, Colorfully"; and "Videoconferencing: Corporate to Campus." An optional pizza lunch is also scheduled, where the students will hear a talk by Terry Smythe, director of the Keweenaw Memorial Rehabilitation and Fitness Center. For planning purposes, attendees must register for the activities by April 6. Use the form you received in campus mail, or contact Paula Nutini (487-3324, pjnutini@mtu.edu).

Anyone planning to bring a child to Take Our Daughters to Work Day must receive permission from their supervisor.

GSC Travel Grant Recipients Announced

The following graduate students were chosen at random to receive \$300 travel grants. They include **Radley Watkins**, **Faith Mengelloglu**, **Asko Noormets** (SFWP), **Mark Chateaufeuf**, **Haiyan Cheng** (Mathematical Sciences), **Brian Olson**, **Nicholas Enright**, **Anna Maria Gosiewska** (Materials Science and Engineering), **James Chye**, **Joe Darling**, **Alexei Dorofeev** (Physics), **Gianfranco Archimede** (Social Sciences), **Rene Johnson**, **Pete Praetorius** (Humanities), **Daniel Warrington** (Geological Sciences and Engineering), **Patrick Schmalz**, **Marty Holtgren** (Biological Sciences), **Mrudhula Lakkakula**, **Rochelle Fischer**, **Biao Li** (Electrical and Computer Engineering), **Scott Miers**, and **Rebecca Petteys** (ME-EM).

International Nite April 7

The International Club is holding International Nite on Friday, April 7, at 7:00 p.m. in the Memorial Union Ballroom.

International Nite includes food from the club's *Taste the World* cookbook, which will be on sale at the event, and entertainment from Greece, India, China, Japan, Russia, the United Arab Emirates, the US, French-Canada, and Central America.

Ed Hancock and his group, Sno-Bo's Reggae Band, will provide music during dinner. Then, a DJ-run discotheque will follow with the latest in dance music.

"Come one, come all, and taste the world," organizers said. "Tell your friends and their families. This will be an unforgettable evening for everyone."

Tickets can be purchased at the Center for International Education, Administration 131, and at a booth opposite the Campus Store between noon and 2:00 p.m. until April 6. You can also call 487-2160 to reserve seats. Tickets are \$15 for non-club members, \$13 for members, and \$9 for children below age 12.

For more information, contact Dave Bezotte (dbezotte@mtu.edu) or Wellesley Pereira (wpereira@mtu.edu).

MTU Notables

Professor **Michael Roggemann** (Electrical Engineering) has been elected a Fellow in the Optical Society of America by its Board of Directors. He was recognized for "extensive, seminal contributions to the fields of atmospheric and adaptive optics." The Optical Society of America is made up of more than 12,000 optical scientists, engineers, and technicians in some 50 countries.

Professor Emeritus **Allan Johnson** (Mining Engineering) has been reappointed to the State of Michigan Site Review Board. Initially appointed by Gov. James Blanchard and reappointed twice by Gov. John Engler with senate approval, Johnson is serving as a geologist on the board. Currently the nine-member SRB is holding public meetings in Romulus to review the application of a Michigan firm to inject treated industrial wastes into porous sandstone 4,000 feet deep in the Michigan Basin.

Associate Professor **Vernon P. Dorweiler** (SBE) was nominated by the College Board of Educational Testing Service to help develop the College-Level Examination Program in Business Law. Once a test document is developed, it will be administered nationally. Students in BA254 Business Law I will take the test this spring.

New Staff

Dale O'Brien has joined the Daniell Heights staff as supervisor of apartment services. He was previously director housing at Keweenaw County Housing. He has a BS in Business Administration from MTU, is married to Margo O'Brien, and lives in Calumet.

Thinking Geometrically, Living Purposefully The Story of John Waisanen

In the summer of 1997, **John Waisanen** went to tell his advisor why he hadn't been making much progress on his dissertation.

"He told me he had Non-Hodgkin's lymphoma," said **Jennifer Slack**, an associate professor in the humanities department. "I assumed he would put his dissertation aside, but he made it clear he wasn't going to do that. He very much wanted to finish it."

So while undergoing radiation and chemotherapy for lymphatic cancer, Waisanen proceeded to write. He also held down his consulting job and set himself to putting the details of his life in order.

"The deliberate nature of his life astounded me," Slack said. "He was getting weaker, but he was still working at his job and putting his material life in order—cleaning the basement and stuff like that."

"He had very little energy left to work on his dissertation, even though he had only one chapter to do, and he told me he was having a hard time," she said. "So I went to Sung [**Sung Lee**, vice provost for research and dean of the Graduate School] and asked if he could waive the tuition and fees that term."

Lee did more than that, offering Waisanen a fellowship that allowed him to quit his consulting and concentrate on his PhD in Rhetoric and Technical Communication.

He completed the last chapter in November 1997, on a laptop from his bed at Henry Ford Hospital in Detroit. "He was undergoing massive radiation and chemotherapy for a bone marrow transplant," Slack said. "I would call him and say, 'You don't have to do this.' I even called his wife and said, 'Susan, is this OK? Shall I tell him to stop?' And she said no, he needs to do this. She thought it was a really important part of his life."

Not that his life was empty. Waisanen, of Farmington, was a fiddler and a carver, a banjo maker and a banjo player, with a wife, two sons, and a daughter. Before entering the RTC program, he was an auto designer and then a consultant, developing courses to train Ford engineers to convert blueprints to computer programs. His profession led him to ask the questions that culminated in his dissertation, "Thinking Geometrically: Multi-Modal Approaches to Problems of Space."

"Just before the transplant, he finished the draft and sent it to me," Slack said. Because he couldn't leave the hospital, she arranged to have his oral defense requirement waived. Over the phone, Slack discussed the committee's suggestions and corrections with him, and made a master copy of his dissertation that incorporated all the concerns, comments, suggestions, and changes. She sent it to the hospital in February 1998. "I had to make a clean copy that I hadn't touched, so I wouldn't transmit any germs to him."

The transplant was not a success. Waisanen was plagued with infections, and there were times when he could not think clearly. Nevertheless, he edited the dissertation.

"He was so wonderfully stubborn," Slack said. "He fought with me, changed some things, just like any good graduate student. Then he sent it back to me."

With help from graduate secretary **Marjorie Lindley**, Slack prepared the requisite copies of Waisanen's dissertation for the Graduate School and the library. "He was in no shape to do any of the physical work to deposit it," Slack noted. "Then his wife called me and said he was doing poorly. Was there any way he could get his diploma?"

In the month of March, diplomas are not easily found. "So I got somebody's old diploma and forged a copy with John's name on it," Slack said. "Then I faxed it to Susan, and she took it to the hospital and put it on his wall. He was failing badly, but she's sure he was aware of it."

Waisanen died on March 29, 1998, a year after learning he had cancer and one month after receiving his doctorate.

Since then, Slack has worked to have his dissertation published. In January, her efforts paid off, and it was accepted for publication by Peter Lang of New York, a prestigious publishing house in the humanities.

"The book is excellent," Slack said. "It truly deserved to be published. It merited my efforts to finish the job. I had encouraged him to undertake work at that level, so it seemed my obligation to see it through."

So what is *Thinking Geometrically* about? Slack explains:

What skills do we need to negotiate the changing technological circumstances of our lives? . . . For the most part we are told that what we need to do is utilize the newest technologies . . . John, however, would have us look in another direction . . . to skills we might be losing (have for some time been losing): drawing in particular; and to the "art" of integrating complex vision, thought, and practice, what he calls design—or geometrical thinking. This points to the importance of the arts . . . and to the cultivation of complex vision and thought gained in an education where math and literature are equally important . . .

Waisanen's wife, Susan, accepted his real diploma on his behalf at the 1998 Spring Commencement. But Slack has a few qualms about creating a false one. "The act of forging the diploma made me a little nervous," she admits, with the air of a reluctant criminal.

Geometrical thinking demands, however, that sometimes we dream—and act—a little outside of the box.

Bus Stop Opens April 6

Submitted by the Department of Fine Arts

Bus Stop, a classic American comedy by William Inge, will be staged at the University Theatre, on April 6–8 and 13–15 at 8:00 p.m. **Richard Blanning**, associate professor of theatre, will direct an all-student cast in a play the *New York Times* called "an uproarious comedy that never strays from the truth."

Inge's plays became famous in the '50s for dramatizing the lives of ordinary people in a fresh, pithy way. In *Bus Stop*, passengers on a cross-country bus find themselves stranded with an assortment of locals in a small-town diner during a storm. This colorful group includes Cherie, an entertainer from the city trying to elude a too determined, too amorous Montana cowboy who hasn't learned the meaning of no. The cowboy naturally appears in spite of the storm. The others, including the bus driver, the café owner, the waitress, a jaded middle-aged professor, and the sheriff, take a natural interest in this and other poignant stories that emerge as the evening passes. It's an unforgettable experience for the stranded passengers—and also for the theatre audience.

Cast members include the following students: biomedical engineering major **Jayme Rusk**, environmental engineering major **Karen Carr**, applied geophysics major **Brent Wandel**, **Kevin Moss** (Electrical Engineering), **Nikki Sarazin** (Sciences and Arts), **Michael G. Miller** (Chemical Engineering), **Aaron Dykstra** (Computer Science), and **Craig VanSomeren** (Chemical Engineering). Set and lights have been designed by students in MTU's technical theater classes, and built by student crews supervised by **Paul Aneshansel** and **Mary Carol Friedrich** (Fine Arts).

Tickets for *Bus Stop* are available at 487-3200, the Memorial Union Box Office, SDC Central Ticket Office, or Calumet Theatre, or on the Web at <http://www.tickets.mtu.edu>. Prices are \$8 general, \$4 students (\$1 more at the door).

AAUP Official Here April 5

Stephen L. Finner, director of chapter and state services at the national office of the AAUP, will discuss higher education faculty collective bargaining on Wednesday, April 5, in ROTC 101 from 2:00 to 4:00 p.m.

Finner has been with the national AAUP since 1979. Previously, he was an associate professor of sociology at the University of Delaware, where he served as vice president of the local AAUP chapter, chaired the organizing committee, and subsequently served on the negotiating team and as the first grievance officer. He has visited more than 350 institutions on behalf of the AAUP, assisted in the negotiation of dozens of contracts at a variety of colleges and universities, and specializes in contract administration and grievances.

Growing Up between Two Cultures at Tech Tea Time

Submitted by University Cultural Enrichment

The United States is a nation whose many cultures contribute to a diverse and colorful population. Unlike earlier times when immigrants were encouraged to abandon the customs, traditions, and languages of their homelands to become American, there is much encouragement today to celebrate diversity and share the richness of different cultures. **Raka Bandyo**, a second-year undergraduate in mechanical engineering, wants to do just that. She is the guest at Tech Tea Time on Wednesday, April 5, at 4:00 p.m. in the Memorial Union Alumni Lounge. Her slide-illustrated presentation is "Through the Eyes of Her Mother, A Young Woman Speaks."

Raka was born in America, but her parents were born and raised in Calcutta. They came to the US to further career goals and start a family. Raka will discuss her experience of growing up between two cultures, the insights she has gained on visits to India, and seeing her parents in the context of their homeland. The slides are the work of Raka's mother, who has recently completed a Master of Fine Arts degree in Photography. These images, which document Raka's recent visit to India with her mother, show the beauty of the old city and reveal a culture that is very different from that of the New World.

Family visits have put Raka in closer touch with her heritage. "My family name is Bandyopadhyay, meaning 'religious teacher,'"

she explains, "and my faith does come from my parents' teachings." She was overwhelmed and intensely moved by the immense scale of religious festivals in Calcutta. Witnessing the religious fervor and passion of thousands of people reinforced and deepened her faith. Her great love of dance and music was also similarly affected after she had seen performances in India.

As a young adult, Raka is now comfortable with her bicultural status. "It's like living in the best of both worlds," she says. "I enjoy the richness of both cultures." But with the good also comes the bad. In elementary school, she says she felt like an outsider. In the white, conservative, middle-class community in which she was raised, she experienced the bitterness of discrimination from classmates. Later on she resented the fact that her parents were stricter than the parents of her peers and that her curfew times were earlier. Her parents, whose marriage was arranged, still have problems accepting her boyfriend. Raka and her parents did not only experience generation gaps, but also had cultural gaps too. Visiting India put things into perspective for her, helped her bridge those cultural gaps, and gave her a greater understanding of her parents and their values.

Tech Tea Time is coordinated by the University Cultural Enrichment Department. For further information, call 487-2844.

High-Performance Computing Speakers Here for Internet2 Day

James Ferguson from the National Center for Supercomputing Applications (NCSA) and William Martin, director of the Laboratory for Scientific Computation in the College of Engineering at the University of Michigan, will be guest speakers during Internet2 Day: A Focus on Advanced Applications, on April 18.

Ferguson will present the efforts led by the National Laboratory for Applied Network Research (NLANR) and NCSA. He will also discuss faculty and institutional research assistance offered by NLANR, which provides application, technical, engineering, and traffic analysis support of NSF High Performance Connections sites, such as Michigan Tech. Lastly, he will outline a few of the exciting applications being deployed at NCSA. (For more information on NLANR, see <http://www.nlanr.net>.)

Martin will discuss resources to be offered now and in the future by the National Partnership for Advanced Computational Infrastructure (NPACI). NPACI is a team of distinguished computer and computational scientists overseeing the formation of a researcher-focused national computational infrastructure. These activities are further coordinated with the National Computational Science Alliance and NCSA. (For more information on NPACI, see <http://www.npaci.edu>.)

In 1999, Michigan Tech joined the Internet2 Project (<http://www.internet2.edu/%3Ewww.internet2.edu>), sponsored by the University Corporation for Advanced Internet Development. This project is a consortium of university, government, and industry partners working on accelerating the next stage of Internet development in academia. The University began using the high-speed network sponsored by Internet2 late last year.

MTU Girls' Volleyball League Rescheduled

The Michigan Tech Girls' Volleyball League has been re-scheduled, with opening day set for Sunday, April 9, at the SDC Gym. The program, which runs for two hours on four Sundays in April and May, is open to girls in grades 6 through 11.

For more information or to register, call 487-2427.

Proposals in Progress

Investigators, their proposals, and their potential sponsors are

- **Debasmita Misra** (Geological Engineering and Sciences), "Wavelet-Based Methodology for Upscaling of Petrophysical Properties," Lawrence Berkeley Lab
- **Rolf Peterson** (SFWP), "Wolf-Moose Population Monitoring, Isle Royale National Park," Isle Royale National Park
- **Jean Mayo** (Computer Science), "CAREER: Development and Control of Distributed Computations in a Global Time Frame," NSF
- **Miguel Levy** (Physics, MME), "XYZ-On-A-Chip: Integration Technologies for Optical Flow Devices for Biomacromolecule Detection and Separation" and "New Integrated Broadband Optical Communication Systems MURI 1995: Extension to Years 4 and 5," Columbia University
- **Kurt Pregitzer** and **Andrew Burton** (SFWP), "Plant-Microbe Interactions and the Production of Dissolved Organic Carbon and Nitrogen," NSF
- **Chandrashekar Joshi** and **Vincent Chiang** (SFWP), "Discovery and Functional Analysis of Cellulose Synthase and Cellulose Synthase-Like Genes in Aspen," USDA-CDREES
- **Chung-Jui Tsai** and **Scott Harding** (SFWP), "A 4CL-Mediated Metabolic Sensory Mechanism that Modulates Growth," USDA-CSDREES
- **Theresa Ahlborn** (Civil and Environmental Engineering), "POWRE: Innovative Flexible Concrete Pipe," NSF
- **Sonia Goltz** (SBE), "POWRE: Capturing Experiences of Plaintiffs of Higher Education Discrimination Cases," NSF
- **Sarah Green** (Chemistry) and **Judith Wells**

Budd (Geological Engineering and Sciences), "Impact of the Keweenaw Current on Cross-Margin Transport in Lake Superior: Physical Processes, Chemical Gradients, and Biological Communities," NSF

- **Komar Kawatra** (MME), "Production of 'Super Pellets' from Steelmaking Slags," DOE
- **Jiquan Chen** (SFWP), "Experimental Manipulation of Patch Pattern and Function in a Mixed Conifer Forest," University of Puerto Rico
- **Jim Hwang** (Mining Engineering, CAMMP), **Dominic Popko**, and **Robert Greenlund** (IMP), "Recycling and Reuse of Steel Mill By-Products," DOE
- **Vladimir Tonchev** (Mathematical Sciences), "Project Development 'Combinatorial Designs and Finite Geometry,'" NRC
- **Marvin McKimpson** (IMP) and **Michele Miller** (ME-EM), "Enhanced Manufacturing Engineering Education for Undergraduates," SME Education Foundation
- **Josiah Heyman** (Social Sciences), "Globalization Observed: An Ethnographic Study of the National Law Center for Interamerican Free Trade," University of Arizona
- **Orhan Soykan**, **Sheila Grant** (Biomedical Engineering), and Maura Donovan (Medtronic), "SEMI: Sensors for Early Markers of Infarction," NSF
- **Steven Carr**, **Jean Mayo**, and **Ching-Kuang Shene** (Computer Science), "Concurrent Computing in an Upper-Level Computer Science Curriculum," NSF
- **Nancy Auer** (Biological Sciences), "Habitat of Native and Stocked Juvenile Lake Sturgeon in the Ontonagon and Sturgeon Rivers, Michigan," DNR

Sons and Daughters Scholarships Available

MTU Employee Sons and Daughters Scholarships, valued at \$100 each, will be available for the 2000-01 academic year. Applicants must be full-time MTU undergraduates in their first four years of study or high school students planning to enroll in fall 2000, and the sons or daughters of Michigan Tech employees. Applications are available in the Financial Aid Office, Administration 160. The deadline for submitting applications is May 1.

POSITIONS AVAILABLE AT MTU

Job descriptions will be available at 1:00 p.m. on Friday, or by e-mail at <JOBS@MTU.EDU>.

The following positions will be posted Friday, March 31, 2000, at 1:00 p.m. through noon, Friday, April 7, 2000, in the Human Resources Office.

Assistant Professor (two positions)—Mechanical Engineering-Engineering Mechanics
 Assistant Professor—Computer Science
 Secretary II N4—Student Affairs/Student Activities (Regular, part-time, nine-month position)

University employees are reminded to apply in writing prior to noon, Friday, April 7, 2000, 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.

March National Women's Month

- 30 Thursday**
10:00 a.m.-4:00 p.m.—Women's Week exhibits and demonstrations—Memorial Union Ballroom
noon—Power Lunch—Memorial Union Ballroom
7:00 p.m.—Vietnam veteran-poet Phil Woodall—Memorial Union Alumni Lounge
- 31 Friday**
10:00 a.m.-4:00 p.m.—Women's Week exhibits and demonstrations—Memorial Union Ballroom
noon—Power Lunch: Valerie Troesch, "Women: Single, Married, Divorced, Widowed—What to Do in the Event Of . . ."—Memorial Union Ballroom
4:00 p.m.—David Matlock, "Metallurgical Engineering and the Ski Industry: Applications of Metallurgical Failure Analysis"—M&M U113
6:00/7:15 p.m.—Club Indigo: country-western buffet/*The Outlaw*—Calumet Theatre

April Fair Housing Month

- 2 Sunday**
2:00 a.m.—Daylight saving time begins; set your clocks forward one hour.
- 3 Monday**
7:00 p.m.—Open forum with provost candidate Max Seel—Memorial Union Ballroom
- 4 Tuesday**
4:00 p.m.—Open forum with provost candidate Max Seel—4:00 p.m.
- 5 Wednesday**
2:00 p.m.—Stephen Finner talk on faculty collective bargaining—ROTC 101
4:00 p.m.—Tech Tea: Raka Bandyo, "Through the Eyes of Her Mother, A Young Woman Speaks"—Memorial Union Alumni Lounge
- 6 Thursday**
10:00 a.m.-5:00 p.m.—Friends of the Library book sale—Memorial Union Ballroom
8:00 p.m.—*Bus Stop*—University Theatre
- 7 Friday**
8:00 a.m.—Charles Wallace, "Formal Specification: Toward a Practical Methodology"—Fisher 139
7:00 p.m.—International Nite—Memorial Union Ballroom
8:00 p.m.—*Bus Stop*—University Theatre
- 8 Saturday**
8:00 p.m.—*Bus Stop*—University Theatre
- 13 Thursday**
7:00 p.m.—Open forum with provost candidate Thomas Hanley—M&M U115
8:00 p.m.—*Bus Stop*—University Theatre