

Little Huskies Expected to Move to Sharon Avenue

The Little Huskies MTU Child-Care Center, located at Good Shepherd Lutheran Church on College Avenue, will likely move to a new, larger facility on Sharon Avenue in September or October.

Based on negotiations with the child-care provider, the Baraga-Keweenaw-Houghton Child Development Board (BHK), the new facility will be next to the Little Red School House and have larger, more-open rooms with lots of windows. The outside play areas will be larger and safer, away from street traffic. One room will be dedicated to large muscle activities, giving children lots of room to play during bad weather.

Little Huskies will stay at the new, temporary location for two to four years until funds are raised to build an on-campus facility, a long-term goal of the MTU Child Care Board.

"On-campus, quality child care is important for the recruitment and retention of students, faculty, and staff," said board member **Sue Beske-Diehl**, a professor in the Department of Geological Engineering and Sciences. "According to the Benefits Office, prospective faculty members are increasingly weighing the accessibility of quality child care in their decision to come to MTU."

Studies of in-house centers in private industry indicate that centers pay for themselves in lower turnover rates and less absenteeism, she said. In addition, waiting lists at local child-care centers, including Little Huskies, suggest an even greater need for child care and that MTU parents may still be having problems finding quality care.

Men as well as women are affected. MTU's Child Care Survey indicated that fathers of children younger than 18 months were as likely as women to miss work because of problems with childcare.

The University is seeking donations to help fund the on-campus center. If you'd like to contribute, designate your Michigan Tech Fund gift to the Childcare Account.

MTU Childcare Board members are **Beske-Diehl, Ingrid Cheney, Sarah Cheney, Becky Christianson, Debby**

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*Nothing great was ever achieved
without enthusiasm.*

—RALPH WALDO EMERSON

GM Asks MTU to Teach Gen Ed from a Distance

Submitted by Stephen Bowen

About thirty faculty and staff attended an open meeting March 12 to discuss the possibility of MTU offering its general education curriculum to distance learning students. The meeting was sponsored by the General Education Executive Committee and the Distance Learning Implementation Committee (DLIC).

Professor **William Shapton**, director of distance learning for the College of Engineering, said that General Motors had invited MTU to deliver the general education curriculum as part of its planned associate degree program Technician 2000. Technician 2000 is being developed for technical employees at GM's proving grounds whose jobs became obsolete when the auto industry replaced track testing with virtual testing. If these employees are to continue with GM, they need advanced education. Usually, students in distance learning programs take gen ed courses in local colleges and then transfer the credits to the degree-granting institution. This is the first time GM has supported the delivery of an entire degree program to its facilities, and it bespeaks GM's exceptional commitment to their proving ground employees. General Motors has asked for one course for this summer. If Michigan Tech does commit to the program, it may not begin until fall.

Steve Bowen, vice provost for instruction and dean of distance learning, described the Distance Learning Budget Model and the support it provides for faculty and their

departments. Faculty receive a salary bonus based on course enrollment and support in course preparation for distance delivery. Departments receive essentially all the residual revenues after costs, which can help departments fund other programs. Many faculty who teach distance-learning courses report that they like teaching with technology and appreciate the opportunity to work with older, more mature students. Others say it is gratifying to work with place-bound students who appreciate the access that distance learning provides. Some departments find that the additional distance learning students help to provide critical mass for on-campus courses, and most appreciate the extra funds that distance learning can provide.

A subcommittee of the DLIC is being formed to help faculty with course development. A second subcommittee is being formed to review MTU's intellectual property policies in light of distance learning. Anyone interested in participating in one of these groups is encouraged to contact Helene Hiner at hthiner@mtu.edu.

Anyone unable to attend the open meeting but with interest, comments, or concerns may contact Dennis Lynch (dalynch@mtu.edu), chair of the General Education Executive Committee, and/or Bowen (shbowen@mtu.edu). These two groups, the core course coordinators, and department chairs will be working together to decide how MTU will respond to this unusual opportunity.

Student Research to Be Featured at University Expo

by Kevin J. Walker

Students will present their senior design projects, Engineering Enterprises, and other undergraduate research at this year's "Research and Exploration" University Exposition.

The University Exposition will be held Wednesday, April 18, in the Memorial Union Ballroom. A panel of judges including faculty members and corporate representatives will critique the projects in three categories: abstracts, posters, and presentations. Students from all engineering and science disciplines are invited to compete for cash prizes.

Faculty members are urged to encourage their senior design and undergraduate research students to participate. The projects

and posters will be on display to for the campus and community throughout the day.

The Undergraduate Exposition provides students an opportunity to present their research, design, and independent study projects. Students will gain professional experience and build their resumes through direct exposure to real-world problems and competitiveness.

The exposition is sponsored by the Department of Educational Opportunity and the College of Engineering. Applications for individuals or groups are available at the Department of Educational Opportunity (Alumni House). For more information, please contact Kevin J. Walker at 487-2920 or kjwalker@mtu.edu.

Energy Policy Critic to Speak March 22

Michigan Tech will host a talk by one of the foremost critics of US energy policy on Thursday, March 22, at 3:00 p.m. in Dow 642.

Marlan Downey, president of the American Association of Petroleum Geologists (AAPG), deplors what he views as the absence of a US energy policy. "Our nation faces an ever-growing production shortage of domestic oil and ever-increasing imports of foreign oil, a dependence that holds America hostage," he says. As a result, consumers must cope with price spikes, brownouts, and skyrocketing fuel costs, despite the fact that the United States is a substantial energy producer.

He predicts that within the next 50 years, the US and the world will face severe shortages, due in part to government's failure to enact coherent policies.

Downey's talk, "The Summit on US Energy Policy, or What Congress and the American People Need to Realize," anticipates remarks he will make in April at the Summit on US Energy Policy, a Washington, DC, conference of the nation's leading energy scientists.

Downey retired in 1987 from Shell Oil, where he was president of the company's international subsidiary, and then joined ARCO in 1990 as senior vice president for exploration. During his seven years with ARCO, Downey's team tripled ARCO International's annual discovery rate while slashing costs. From 1997 to 2000, he held the Bartell Chair of Geoscience at the University of Oklahoma. He has received numerous honors, published dozens of articles, and is active in several international scientific organizations. In addition, he was a member of former president Jimmy Carter's team supervising the first free elections in Guyana, in 1992.

Downey's visit is sponsored by the AAPG with support from the Department of Geological Engineering and Sciences. For more information, contact Charles Young, ctyoung@mtu.edu, 487-2072.

MichiganTech

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Marcia Goodrich, *Tech Topics* editor
Tech Topics Web site: www.mtu.edu/level3/ttpics.html

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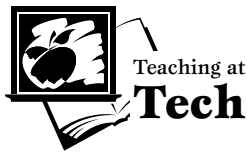
- By e-mail to ttpics@mtu.edu
- By campus mail, send typed copies to *Tech Topics*, University Relations.

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

Student Assisted Teaching—The MASH Program

By William Kennedy, director

Center for Teaching, Learning,
and Faculty Development



Undergraduate teaching assistants are being widely used to improve the impact and relevance of university instruction and to stretch limited faculty resources. Undergraduate teaching assistants are providing instruction in all subject areas, including science and math.

Worcester Polytechnic Institute (WPI), not unlike MTU, wrestles with the fact that many first-year students with outstanding admissions profiles fail one or more of their first-year courses. In 1987, WPI enrolled a freshman class with the highest test scores and class ranks in the history of the Institute. Shock reverberated across the campus, however, when the failure rates of these students doubled in calculus, physics, and chemistry. An investigation revealed that although their scores clearly suggested that these students were ready for college study, many of them were woefully deficient in their study habits and work routines.

In response, WPI developed a specially targeted supplemental instruction (SI) program. The WPI MASH* (Math and Science Help) SI program is available to every WPI student enrolled in the first two terms of calculus, physics, or chemistry. Providing access for all students enrolled in these historical "killer courses" helps to minimize the sense that students participating in MASH are receiving remedial services.

MASH leaders are exceptional undergraduate students identified through a highly competitive process involving a written application, transcripts, and interviews, with final approval coming from the relevant academic department. MASH leaders complete a certified training program that emphasizes incorporating specific study skill and time management instruction into their disciplinary tutoring. Faculty provide focused training and continuing supervision in content areas. On-going training and development sessions occur throughout the term. In these

sessions, MASH leaders discuss success stories and help one another work through problems they might have encountered. Perhaps most importantly, MASH leaders actually attend the class sessions of the courses for which they are providing supplemental instruction.

Each of the sixteen MASH leaders at WPI conducts at least three supplemental instructional sessions per week. MASH leaders coordinate the timing of these sessions to fit student schedules. Residential students generally prefer evening sessions with some sessions starting as late as 11:00 p.m. In addition, before each course exam, all the MASH leaders in that discipline join together to conduct special two-to-three-hour MEGA MASH sessions.

Regular MASH meetings follow the format of a general review session, with students working through problems together and reviewing various problem-solving strategies. Leaders weave in personal suggestions regarding productive study habits or work load management. MASH leaders act more like facilitators, maintaining order and helping out when and where they are needed. They do little or no lecturing.

WPI students hear about the MASH program from their very first day on campus, with MASH leaders participating in orientation sessions. Schedules of MASH sessions are distributed in the first few days of class and MASH leaders wear special T-shirts during the first week to help students identify who they are.

Skeptical? WPI reports a 6 percent increase in first-year retention rates (now 91 percent) and attributes much of that to MASH. MASH participants score about one-half letter grade higher in the relevant courses than those who do not participate. About 59 percent of WPI students attended MASH sessions this year. The ten-year old WPI program costs about \$25,000 annually. Given WPI's substantial tuition, Institute officials figure MASH pays for itself if it helps one or two students choose to remain at WPI.

* "MASH (Math and Science Help): Supplemental Instruction at a Technological University," Garvin and Snyder, in Miller et al, editors, *Student-Assisted Teaching: A Guide to Faculty-Student Teamwork*, Anker, 1999, pp. 82-86.

Morrison Authors Rheology Textbook

Associate Professor **Faith Morrison** (Chemical Engineering) has published a new textbook, *Understanding Rheology*. Rheology is the study of deformation and flow, but to be more precise, it is typically the study of the flow of complex fluids such as polymers, pastes, suspensions, and foods. The text is aimed at senior chemical and mechanical engineers and chemists, as well as the many technology professionals who end up having to teach themselves rheology on the job. The book is an outgrowth of a course in introductory rheology taught by Morrison to undergraduates and first-year graduate students at Michigan Tech.

The book is published by Oxford University Press as part of the Oxford Topics in Chemical Engineering Series. The book is dedicated to the memory of Professor **Davis W. Hubbard**, a 27-year faculty member at MTU and an avid fluids researcher, who passed away in 1994.

College Band Fest Comes to the Rozsa March 31

Music lovers will unite at the Rozsa Center on Saturday, March 31, for two events guaranteed to bring a sparkle to late winter. Two enthusiastic college bands come together with an outstanding conductor and a stellar professional soloist to create something special, a Band Festival on the Rozsa stage. There'll be a lively masterclass (informal and always fun for the audience) on Saturday at 10:00 a.m., then a concert by both bands, the Northern Michigan University Symphonic Band and the Michigan Tech Wind Symphony, joined by Jim Bicigo on trombone at 8:00 p.m. with one of the most experienced of American conductors, Henry Charles Smith.

No tickets are needed for the masterclass. Tickets for the evening concert are available from Rozsa Center Ticketing Services, 487-3200, and at the door.

Henry Charles Smith brings a wealth of experience to the Keweenaw. As long-time associate conductor of the Minnesota Orchestra, he conducted more than 1,000 concerts, and he played more than 2,000 concerts as principal trombonist with the Philadelphia Orchestra under the batons of Eugene Ormandy and others among the twentieth century's greatest conductors. With the Philadelphia Brass Ensemble, which he founded, he received three Grammy nominations and won a Grammy for Album of the Year, Classical. His recordings and editions are internationally known.

Smith was music director and conductor of the World Youth Symphony at Interlochen for sixteen years and conductor of the Young Artist Orchestra at Tanglewood. He has been on the faculties of the Curtis Institute of Music, Indiana University, Temple University, St. Olaf, Luther and Bethel Colleges in Minnesota, and the University of Texas. He has guest conducted symphonies throughout the US, most recently the National Symphony Orchestra in Washington, D.C. He is currently music director of the South Dakota Symphony.

Trombonist Jim Bicigo joins the concert on Saturday night. A graduate of Michigan State, Bicigo is a freelance musician performing across the United States and a faculty member at University of Alaska-Fairbanks. He has performed world premieres of several new works for solo trombone by composers from around the world. Last year, Bicigo performed with his ensemble, the Borealis Brass, in Rome as part of the Vatican's celebration of the Year of Jubilee.

Jeff Bell-Hanson, conductor of the Wind Symphony, is organizer and host of the Band Festival. Jim Grugin is conductor of the NMU Symphonic Band. For more information, call 487-2067.

Free Percussion Concert at the Rozsa

Submitted by University Cultural Enrichment

Vibraphones, xylophones, snare drums, bass drums, tenor drums, tom-toms, daiko drums, brake drums and timpani, china cymbals, splash cymbals, crash cymbals, congas and bongos, bass pans, cello pans, guitar pans, lead pans, tam tams and boo-bams, agogo bells, cow bells, happy apples, and bottle caps: this is just a partial list of the myriad of percussion instruments and percussion found objects that will be assembled on the Rozsa Center stage when the Robert Hohner Percussion Ensemble comes to Michigan Tech on Friday, March 30. More than 100 instruments will be played by members of the ensemble, who will present a performance that is visually as well as musically exciting. As a special gift to campus and community for the wonderful support they have given the Rozsa Center during this historical first year, the concert is free and open to all. However, it is not recommended for children under the age of 8. The event is scheduled for 8:00 p.m., and the doors will open at 7:15 p.m. With the exception of MTU music students and students who are participants in the Saturday College Band Festival, there will be no reserved seating.

The Robert Hohner Percussion Ensemble, in residence at Central Michigan University, is a combination of several music department groups, including the Classical Chamber Ensemble, the Jazz/Percussion Steel Drum Ensemble, and the World Music Group. Their concert offers an interesting cross section of musical styles, showcasing the huge variety of the instruments. "When it comes to percussion," they say, "anything can be used to make different and unique sounds, and that

includes conventional percussive instruments like pianos and dulcimers, as well as ratchets and packing cases."

The ensemble has performed in almost every major city and in many prestigious halls in the United States, and, since 1998, has made an annual appearance in the Hudson's Thanksgiving Day Parade in Detroit, broadcast nationally on CBS. They've recorded five internationally acclaimed CDs and have been featured performers in a number of national and international percussion conventions. Several new works have been premiered by the ensemble, including Michael Colgrass' Pulitzer Prize-winning composition, "Déjà Vu for Percussion Quartet and Wind Ensemble."

In September 2000 the ensemble's founder and director, Robert Hohner, unexpectedly passed away. He was a professor of music at Central Michigan University and a graduate of the Manhattan School of Music. Long recognized as a leader in percussion performance and an accomplished and much sought after soloist, orchestral musician, and educator, he dedicated his life to furthering the art of percussion. The three remaining performances of the Percussion Ensemble are performed in his memory. The group's final performance, "A Tribute to Robert Hohner," will be held on May 11 at Central Michigan University. Regrettably, without Hohner's leadership, the group will cease to exist.

Free admission to the concert and the visit of the Robert Hohner Percussion Ensemble to the Rozsa Center is made possible by the James and Margaret Black Endowment. For further information, call the MTU Great Events Office at 487-2844.

MTU Company to Present Dance Showcase

Submitted by the Department of Fine Arts

Michigan Tech's new Dance Company does more than perform in theater and other musical productions. Before taking to the stage in the fine arts department's spring musical, *Guys and Dolls*, in April, and *Carmina Burana* in May, the Dance Company will show its stuff in its own Dance Showcase on Sunday, March 25, at 7:00 p.m. in the Rozsa Center for the Performing Arts. "This will be a short, fun show," says director **Laura Aneshansel**. "We want everyone to get a taste of what the new dance company can do." The showcase is sponsored by fine arts, and admission is free.

The dance company, formed last fall, includes both MTU students and community members. Aneshansel, who is also director of the Superior School of Dance in Hancock, studied with the Joffrey Ballet, American Ballet Theatre, and Hubbard Street Dance Company in Chicago before moving to the Keweenaw five years ago. Her credits include choreographing eight full-length stage productions, including *West Side Story*, *Oklahoma*, *Romeo and Juliet*, and a previous production of *Guys and Dolls*. At Michigan Tech, her credits include *Macbeth* and *Man of La Mancha*.

For more information, call the fine arts office, 487-2067.

Solomon to Speak on Energy Crisis in California

Associate Professor **Barry Solomon** (Social Sciences) will give a talk, "Electric Power Deregulation and the Crisis in California," as part of the ECE Power Research Seminar on Thursday, April 5, from 1:00 to 2:00 p.m. in EERC 214. Everyone is invited to attend.

Troupe Presents Tenth Reunion Comedy Show

Submitted by the Department of Fine Arts

The Troupe, Michigan Tech's popular improvisational group, will fill McArdle Theatre with laughter once again when its tenth annual Campus Comedy Show opens a three-night run March 22–24 at 8:00 p.m. Troupe alumni are returning to Houghton to join in the fun on Saturday night. This year's performance is an entry in the annual Kennedy Center American College Theatre Festival competition.

The Troupe, an eight-member student ensemble directed by **Sue Stephens**, associate professor of theatre, writes its own comedy skits, improvising some of them on-the-spot using suggestions from the audience. Skits also include spoofs of familiar stories and current events, games, and classic routines—a wide variety of fresh and lively comedy. Audience members of all ages enjoy the Troupe's show, a highlight of the year for anyone who appreciates what an inspired improv group can do.

The group just returned from a spring break tour in which they taught improv techniques and performed at schools in downstate Michigan. The Troupe performs throughout the year for local schools and service organizations, where their skits include educational programs on preventing alcohol and tobacco use, preserving the environment, and similar issues. The group frequently collaborates with Michigan Tech bands to present evenings of music and comedy.

Tickets for the comedy show are available from Rozsa Center Ticketing Services, 487-3200, other MTU box offices, <http://www.tickets.mtu.edu>, and at the door.

Great Lakes Seminars March 22–23

Two interdisciplinary seminars on algae and phytoplankton in the Great Lakes will be presented this week by representatives from the University of Michigan School of Natural Resources and the Environment.

Eugene Stoermer will present "What Goes Around Comes Around—Long Term Changes in Great Lakes Algae" on Thursday, March 22, at 4:00 p.m. in Dow 642. A reception in the sixth-floor atrium follows.

Matthew Julius will speak on "The Development and Loss of Endemism in Phytoplankton Communities of Large Ancient Lake Systems" on Friday, March 23, from noon to 1:00 p.m. in Dow 743. Refreshments will be served.

The seminars are co-hosted by the MTU KITES research program and the departments of geological engineering and sciences, civil and environmental engineering, and biological sciences.

Women's Week March 26–30: Our Cup Runneth Over

Michigan Tech celebrates Women's Week March 26–30 with a series of luncheon presentations and displays in the Memorial Union Ballroom. All the events are free and open to the public.

Vendors and artists will have exhibits throughout the week, and a free salad bar will be available during the luncheon presentations, which will be held from 11:45 a.m. to 12:45 p.m., unless otherwise noted.

On Monday, March 26, Attorney Valerie Troesch will present "Let's Just Live Together: Planning Essentials for Cohabitation."

Dr. Steven Woodworth, a certified reproductive endocrinologist, will discuss infertility on Tuesday.

Wednesday's presentation will be "Think Spring: Decorative Wall Painting and Design" by design consultant Julie Axford.

On Thursday, in "Lest We Forget," Holocaust survivor Irene Wisniewski will discuss her experiences as a young girl in Poland, when she was kidnapped and forced into labor in Germany. Afterward, photographer Joe Kirkish will give a slide presentation, "Faces," an updated version of his images of women's faces, from 12:45 to 1:30 p.m.

Rachelle Bachran will present "3 Rs of Change: Recover, Refocus, Regenerate—When the Pain to Stay Is Greater than the Pain to Change" on Friday.

Students Launching Web Site for Renters, Landlords

A seminar on renting via the Internet will be offered twice next week, on Tuesday and Wednesday, March 27–28, from 7:00 to 9:00 p.m. in the Computing and Education Technology Center, located in the Academic Office Building.

Local tenants and landlords will learn how to use the new Keweenaw Housing Rental Database and will be invited to post information on the new Web site. Renters will be able to search the site for housing units by price and availability, and landlords can post pictures of units, update their listings, and communicate with other landlords.

The seminar is sponsored by the Students in Free Enterprise (SIFE) group of Michigan Tech. If you are interested in attending, please notify Matt Mazyck at 483-8402 or mwmazyck@mtu.edu.

April Computer Classes

The following classes are being offered by dL Education in cooperation with Michigan Tech. To register for classes, send an e-mail to the Center for Professional Development and Quality Improvement at rwchrist@mtu.edu. Include the class(es) in which you want to enroll, your phone number, and account to which the class(es) should be charged.

- Access level 1, April 13, 9 a.m.-noon
- Access level 2, April 20, 9 a.m.-noon
- Access level 3, April 27, 9 a.m.-noon
- Excel level 1, April 19, 8:30-11:30 a.m.
- Excel level 2, April 19, 12:30-3:30 p.m.
- HTML, April 24, 9 a.m.-4 p.m.
- PowerPoint, April 26, 8:30 a.m.-3:30 p.m.
- QuickBooks, April 3, 9 a.m.-4 p.m.
- Windows level 1, April 5, 8:30-11:30 a.m.
- Windows level 2, April 5, 12:30-3:30 p.m.
- Word level 1, April 12, 8:30-11:30 a.m.
- Word level 2, April 12, 12:30-3:30 p.m.

The charge for three-hour classes is \$60, \$120 for six-hour sessions. Charges will be billed to your account the month following attendance. dL Education is located in the E.L. Wright Plaza, Suite 201A at 801 N. Lincoln Drive in Hancock.

MTU Notables

Associate Professor **Noel Schulz** (Electrical and Computer Engineering) has been selected as an ABET program evaluator by the IEEE Educational Activities Board.

Diversity Session April 11

The Center for Professional Development and Quality Improvement is sponsoring a session, "Diversity Hors D'Oeuvres," on Wednesday, April 11, from 2:00 to 4:00 p.m. **Sherry Kauppi**, director of affirmative programs, will be the presenter.

Diversity is considered to be a critical element for a world-class learning environment and a valued goal at MTU. Maybe you are adding elements of diversity to your course work, or maybe you are interacting with more and more diverse people in your daily life.

This session will introduce selected materials, show snippets from award-winning videos, and give you a taste of what resources are available from the Affirmative Action Office. To sign up for the session, contact Becky Christianson at rwchrist@mtu.edu or call 487-2416.

March 27 Seminar on Smog Chemistry

Senior Scientist Jeffrey S. Gaffney of the Argonne National Laboratory's Atmospheric Physics and Chemistry Section, Environmental Research Division, will present a seminar, "Photochemical Smog Chemistry: Ozone and Peroxyacetyl Nitrate (PAN) Formation," on Tuesday, March 27, from 1:00 to 2:00 p.m. in Chemical Sciences and Engineering 102.

Seminar March 23 on Geological Faults

Marlan Downey, president of the American Association of Petroleum Geologists, will give a seminar, "Faults: When Are They Leaks, When Are They Seals?" on Friday, March 23, at 4:00 p.m. in Dow 642.

Because the plane of the faults is represented by bold, black lines on maps and cross sections, fault planes are often accorded far more importance than they deserve, Downey says. In most cases, the fault plane itself has nothing to do with entrapment (or leakage). Proper attention should be focused instead on the capillary properties and fluid pressures of the co-joined rocks. There are some special and important cases where the fault plane does act as major transmitter of fluids.

Downey was president of ARCO International and a professor of geoscience at the University of Oklahoma. He serves on the boards of several oil corporations and is the author of scores of scientific articles and book chapters. He is visiting MTU through the AAPG Visiting Geologists Program, which promotes communication between the academic community and geology professionals.

Family Fun Day Recap

A total of 437 employees and family members participated in Family Fun Day activities this year at the SDC and the Memorial Union. More than thirty departments donated items for door prizes, from a blanket from the library to golf tees and pencils from the Benefits Office. The Family Fun Day Committee thanks everyone who helped make the day a success, including the SDC, the Memorial Union food service staff, and particularly Captain **Jonathan Fox** and the Army ROTC for overseeing the rifle range.

Computer Science Seminar March 30

Mihai Ciocoiu of the University of Maryland, College Park, Computer Science Department will give a seminar, "On-Demand Ontology-Based Translator Generation," on Friday, March 30, at 3:00 p.m. in Fisher 328. All interested persons are invited.

New Staff

Nancy Bykkonen has joined the Human Resources staff as a secretary. She was previously employed at Parkway Chevrolet in Calumet as a receptionist, accounts receivable clerk, and secretary. Bykkonen has an AA in Business Finance from ICS. She and her husband, Dennis Bykkonen, live in Calumet, and she is active in church and craft groups.

Sports Shorts By Dave Fischer

Olson, Bailey, Earn WBCA Honors

Darla Olson, head coach of the women's basketball team, has been named the Women's Basketball Coaches Association District 4 Coach of the Year. Olson, who led the Huskies to a 26-4 (.867) mark this past season and owns a career record of 77-14 (.846) in three seasons with the Huskies, is a finalist for the 2001 Russell Athletics/WBCA Division II National Coach of the Year Award.

Senior forward/center **Allison Bailey** was named to the five-player WBCA All-District 4 Team. Bailey, who was a key ingredient in Tech's 26-4 season.

Girls' Volleyball League Under Way

The Michigan Tech Girls' Volleyball League debuted March 18 at the SDC Gym; however, there is still time to register.

The program runs from 1:30 to 3:30 p.m. five Sundays in March and April, and is open to girls in grades 6 through 11. It aids area players in skill development while providing a competitive environment.

The Michigan Tech volleyball team, along with Head Coach **Krista Mikesch**, will provide instruction.

Cost is \$30 per child. Families with more than one child in the league pay \$15 for each additional child. Each child will receive a league T-shirt and free admission to all home Michigan Tech women's volleyball matches this fall. To register, or for more information, call 487-2427.

Pancake Breakfast Set for Saturday, April 7

Michigan Tech's volleyball team will host a pancake breakfast Saturday, April 7, from 7:30 a.m. to 1:30 p.m. at the Hancock

Elementary School. Tickets are \$3 each, with kids five and under getting in free. Tickets are available from members of the volleyball team and will also be available at the door.

New Scoring System Set for Volleyball

Beginning this fall, all divisions of NCAA women's volleyball will use a new scoring system. The change includes using rally scoring, meaning a point is scored on every serve, in all five games of a match. The first four games of the match will be the first team to 30 points, by two, while the final game will be played to 15, by two.

Previously, all games were played to 15, with only the fifth game using rally scoring.

Kids' Night Out Set for Friday

Kids' Night Out, for children in second through fifth grades, is set for Friday, March 23, at the SDC.

Sponsored by the MTU volleyball team, Kids' Night Out gives parents a chance to drop their children off at the SDC for supervised entertainment from Friday at 7:00 p.m. until Saturday morning, March 24, at 7:00 a.m.

Advance registration is \$25 for the first child in a family and \$10 for each additional child in the same family. Same-day registration is available for \$30 per child.

Children are asked to bring a swim suit and towel; tennis shoes; sleeping bag and pillow; and a plain white T-shirt for decoration (optional). Pizza will be served late, and donuts and juice will be provided in the morning. All proceeds benefit the MTU volleyball program.

To register, or for more information, call 487-2427 or 487-2595.

In Print

Assistant Professor **Ulrich H. E. Hansmann** (Physics) authored with Nelson A. Alves and J. R. Drugowich de Felicio (FFCLRP, University of Sao Paulo, Brazil) the article "Partition Function Zeros and Leading-Order Scaling Corrections of the 3D Ising Model from Multicanonical Simulations," which appeared in *Journal of Physics A: Math. Gen.*, vol. 33 (2000).

Research Scientist II **Dana L. Richter** and Professor **Peter E. Laks** (School of Forestry and Wood Products) coauthored an article, "Wood Decay Fungus Laboratory," which appeared in *Micologia Applicata International*, Vol. 13, 2001.

Associate Professor **John Lowther** and Assistant Professor **Ching-Kuang Shene** (Computer Science) coauthored an article, "Rendering+Modeling+Animation+Postprocessing=Computer Graphics," appearing in the "Education" column of *Computer Graphics*, Vol. 34, No. 4, November 2000.

Professor **Elizabeth A. Flynn** (Humanities) authored a chapter, "Strategic, Counter-Strategic, and Reactive Resistance in the Feminist Classroom," in the 2001 book *Insurrections: Approaches to Resistance in Composition Studies*.

Professor **David Karnosky** (SFWP) coauthored an article, "Genetic Response of Forest Systems to Changing Environmental Conditions—Analysis and Management," with G. Muller-Starck (Technical University of Munich), B. Degen, A. Kremer (INRA, France), L. Paule (Technical University, Slovakia), K. Percy (Natural Resources Canada), F. Scholz (Institute of Forest Genetics and Forest Tree Breeding, Germany), X. Shen (Beijing Forestry University), and G. Vendramin (Istituto Miglioramento Genetico delle Piante Forestali CNR, Italy), in *Forest Genetics*, Vol. 7, No. 3 (2000).

Assistant Professor **Jaroslav Drelich** (MSE) published a paper, "Long-Range Attractive Forces and Energy Barriers in De-Inking Flotation: AFM Studies of Interactions Between Polyethylene

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and Toner," coauthored by graduate students **Anna Gosiewska**, **Elvin Beach** (MSE), J. Nalaskowski, and J. D. Miller (University of Utah), in the *Journal of Adhesion Science and Technology*, Vol. 14, No. 14 (2000).

Professor **David Karnosky** (SFWP), Professor **Gopi Podila** (Biological Sciences), Research Associate **Jaak Sober**, graduate student **Asko Noormets** (SFWP), A. Sober (Estonian Institute of Ecology), E. J. Pell (Pennsylvania State), and R. E. Dickson (US Forest Service) published an article, "Stomatal and Non-Stomatal Limitation to Photosynthesis in Two Trembling Aspen (*Populus tremuloides* Michx.) Clones Exposed to Elevated CO₂ and/or O₃," in *Plant, Cell & Environment*, Vol. 24 (2001).

POSITIONS AVAILABLE AT MICHIGAN TECH

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

For a complete listing of available jobs, visit <http://www.admin.mtu.edu/hro/postings/index.shtml>

The following positions will be posted Friday, March 23, 2001, at 1:00 p.m. through noon, Friday, March 30, 2001, in the Human Resources Office.

- Specialized Clerk N3—Center for International Education (Regular, part-time position; twenty hours per week; UAW internal and external posting)
- Office Assistant N5—Center for International Education (UAW internal and external posting)
- Managing Editor—University Relations Custodian—Facilities Management (Third shift; AFSCME internal posting only)
- Custodian—Auxiliary Services-Rozsa Center (Regular, part-time position; twenty hours per week; second shift, including weekend hours; AFSCME internal and external posting)

University employees are reminded to apply in writing prior to noon, Friday, March 30, 2001, 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

- 22 Thursday**
2:00/7:00 p.m.—Artist Mark Mehaffey lecture and demonstration (two sessions)—Walker 202
3:00 p.m.—Marlan Downey, "The Summit on US Energy Policy, or What Congress and the American People Need to Realize"—Dow 642
4:00 p.m.—Eugene Stoermer, "What Goes Around Comes Around—Long Term Changes in Great Lakes Algae"—Dow 642
7:30 p.m.—Sigma Xi Seminar: Robert Pennock, "Should Evolution Be Taught in the Public Schools: What Dorothy Learned When the Creationist Whirlwind Hit Kansas"—Fisher 135
8:00 p.m.—The Troupe's Campus Comedy Show—McArdle Theatre
- 23 Friday**
10:00 a.m.—Artist Mark Mehaffey lecture and demonstration—Walker 202
noon—Matthew Julius, "The Development and Loss of Endemism in Phytoplankton Communities of Large Ancient Lake Systems"—Dow 743
3:00 p.m.—Marlan Downey, "Faults: When Are They Leaks? When Are They Seals?"—Dow 642
8:00 p.m.—The Troupe's Campus Comedy Show—McArdle Theatre
- 24 Saturday**
noon—Artist Mark Mehaffey lecture and demonstration—Walker 202
8:30 a.m.—Meeting: U.P. Section of Michigan Branch of the Society for Microbiology—Dow sixth floor
8:00 p.m.—The Troupe's Campus Comedy Show—McArdle Theatre
- 25 Sunday**
7:00 p.m.—Dance Showcase—Rozsa Center
- 26 Monday**
11:45 a.m.—Women's Week salad luncheon, Valerie Troesch, "Let's Just Live Together: Planning Essentials for Cohabitation"—Memorial Union Ballroom
- 27 Tuesday**
11:45 a.m.—Women's Week salad luncheon, Dr. Steven Woodworth, "Infertility"—Memorial Union Ballroom
12:30–5:00 p.m.—Lake Superior Parks Research Conference—McArdle Theatre
1:00 p.m.—Jeffrey S. Gaffney, "Photochemical Smog Chemistry: Ozone and Peroxyacetyl Nitrate (PAN) Formation"—Chemical Sciences and Engineering 102
7:00 p.m.—Seminar on Keweenaw Housing Rental Database—Academic Office Computing and Education Technology Center
8:00 p.m.—Human Relations keynote address: Judy Shepard—Rozsa Center
- 28 Wednesday**
8:00 a.m.–2:45 p.m.—Lake Superior Parks Research Conference—McArdle Theatre
11:45 a.m.—Women's Week salad luncheon, Julie Axford, "Think Spring: Decorative Wall Painting and Design"—Memorial Union Ballroom
7:00 p.m.—Seminar on Keweenaw Housing Rental Database—Academic Office Computing and Education Technology Center
- 29 Thursday**
11:45 a.m.—Women's Week salad luncheon, Irene Wisniewski, "Lest We Forget"—Memorial Union Ballroom
12:45 p.m.—Women's Week slide presentation, Joe Kirkish, "Faces"—Memorial Union Ballroom
noon—"WebCT on Trial: A Panel Discussion"
- 30 Friday**
11:45 a.m.—Women's Week salad luncheon, Rachelle Bachran, "The 3 Rs of Change: Recover, Refocus, Regenerate"—Memorial Union Ballroom
3:00 p.m.—Mihai Ciocoiu, "On-Demand Ontology-Based Translator Generation"—Fisher 328
8:00 p.m.—Free concert: Robert Hohner Percussion Ensemble—Rozsa Center

MICHIGAN TECH FUND POSITIONS AVAILABLE

Web Site Coordinator—Michigan Tech Fund (application deadline March 30, 2001)
Projects Coordinator—Michigan Tech Fund (application deadline April 6, 2001)

For job descriptions, contact Janice Henkel, jrhenkel@mtu.edu, 487-1930. To apply, send a letter of application, a résumé, and three references no later than the deadlines listed above to Janice Henkel, Michigan Tech Fund, 1400 Townsend Dr., Houghton, MI 49931.

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Forsell, John Lehman, Patty Lins, Kim Way, Paula Nutini, Nilufer Onder, Susanna Peters, Adrian Sandu, and Beth Wagner. The board has established a moderated e-mail list for those interested in childcare activities at MTU. You may subscribe by sending an e-mail to majordomo@mtu.edu and typing <subscribe Childcare-l> in the body of the letter.