

## United Way Campus Campaign Meets Goal

With the final department reporting in just last week, MTU raised a grand total of \$40,632.50 for the Copper Country United Way.

"This is a bit lower than last year, but we still achieved our goal of \$40,000," said United Way campus campaign chair **Ted Soldan**. "I wish every member of the campus community could have had my opportunity to experience the generosity of MTU's employees. Once again, you've really stepped up to the plate and opened your hearts to less fortunate members of our community.

"I especially want to thank all the department coordinators for their efforts to collect and report donations from their colleagues, and **Cheryl DePuydt** for all her help and support in showing me the ropes for this year's campaign," Soldan said. "It is still not too late to donate to the United Way. If you somehow got missed and would like to contribute, please contact me." You can reach Soldan at [tjsold@mtu.edu](mailto:tjsold@mtu.edu), 487-2067.

## ONR OKs Fringe Benefit Cost Recovery Rates

The Office of Naval Research, which audits Michigan Tech's indirect cost recovery and fringe benefit rates, has given tentative approval to the new rates recommended by Provost **Kent Wray** and President **Curt Tompkins**.

The rates were first developed by the Fringe Benefits Cost Recovery Planning Committee, cochaired by Associate Professor **Tony Rogers** and Human Resources Director **Ellen Horsch**.

A single rate of 39.9 percent will be used for everyone except summer faculty, with vacation and sick leave included. The summer faculty rate is 25 percent. Holidays will be direct charged.

These new rates should be used in all research proposals, effective January 29.

For more information, visit <http://www.adminl.mtu.edu/hro/fringe/final-report.html>.

*Luck is what happens when preparation meets opportunity*

—DARREL ROYAL

## Legendary Professor Barry Kunz Dies

Presidential Professor **A. Barry Kunz**, 60, known across the University for both his stellar research and his driving personality, passed away January 29 at Marquette General Hospital of complications from surgery. He had fought diabetes for several years.

"Barry, without a doubt, was the research leader of this department, if not the University," said **Tim Schulz**, chair of the Department of Electrical and Computer Engineering, which Kunz joined about ten years ago. "He leaves a huge hole in this department, and we'll work for many years before we can fill it."

Kunz began his academic career at the University of Illinois in 1969 as a research assistant professor, and in seven years attained the rank of professor. There, he was instrumental in developing the first theoretical models for light-emitting diodes, or LEDs, and his international reputation in theoretical physics began to take root.

He came to Michigan Tech in 1984 as a presidential professor in the physics department. "He was brought in as the department head to build up research," Professor **Bryan Suits** (Physics) recalls. "He accomplished that with great speed. . . . Roughly one half of the current physics department are people he brought in. He had an idea of what the department should look like, and he went for it, even though it meant stepping on a few toes."

After serving as head of physics, Kunz was named dean of engineering in 1990. During his year-long tenure, "Barry did some fairly dramatic things," Professor **Ed Fisher** (Chemical Engineering) remembers.

"He made a very serious commitment to upgrading computing facilities," Fisher said. "He nearly bankrupted the College, but he moved us into a totally new area of computer access and computer use. That it happened, one can attribute to him." Michigan Tech's

relationship with Sun also began with Kunz, he said.

"He's had a pathway through the campus that has had a positive impact."

Presidential Professor **Ed Nadgorny** (Physics) attests to Kunz's enthusiasm for computing. "He always tried to be on the front edge of development in computers," Nadgorny said. "The speed and power were needed for his research. . . . One time I was with him and a group of executives from computer companies, and the discussion was about getting a new frame for Michigan Tech. The deal was for about \$2 million, I think, and he was able to convince them that they should contribute, say, 75 percent of the price. He was very persuasive.

"You see, it wasn't just a meeting, it was a lunch at his house, and he himself was the host."

Kunz was famous for his enthusiasm for his work. Associate Professor **Warren Perger** (Electrical and Computer Engineering) remembers the conversation they had the night Kunz decided to have his leg amputated.

"We must have talked two hours, fifty-nine minutes on science and one minute on having his leg amputated," Perger said. "Ninety-nine percent of the conversation was about the cool science he was doing. Before he had his leg amputated, he was already making plans to have the accelerator pedal on his car retrofitted so he could drive with his left foot.

"He never once complained to me that life was unfair. That didn't seem to be in him."

"I remember once when he came into my office with a big smile on his face," Suits recalls. "He said, 'I just had an explosion!' He had seen molecules in his calculations start to explode, and he was beaming because he'd had a virtual explosion on his computer."

Kunz received the MTU Research Award in 1986 and was named Michigan Scientist of

*Continued on page 4*

## Emergency? Dial 123 OR 8-911

To call the Houghton County 911 system from most campus phones, you must dial 8-911. You need to dial the 8, just as you do when making any other off-campus calls. The Houghton County 911 system should be called in the case of fire, medical, or police emergency. You can also dial Public Safety's emergency number, 123.

If you have any questions, contact Public Safety Director Jon Ahola at 487-2216, [jwaho-la@mtu.edu](mailto:jwaho-la@mtu.edu) or Telcom Engineering Director Brenda Helminen at 487-1787, [brenda@mtu.edu](mailto:brenda@mtu.edu).

## Call for Nominations Distinguished Faculty Service Award

The Faculty Distinguished Service Award Committee is now seeking nominations for the 2001 award.

The award is open to all full-time faculty, including lecturers and research faculty. Those who hold restricted appointments (e.g. adjunct, visiting, temporary or part-time faculty) are not eligible. Faculty who hold positions with a significant administrative component (e.g. deans, associate deans, department chairs, etc.) are not eligible. The award will be presented at President's Convocation.

The Faculty Distinguished Service Award recognizes service to the University community that has significantly improved the quality of some aspect of campus life. The work could have resulted, in part, from compensated efforts, but it must have been of a quality that distinguishes itself above and beyond the normal execution of those tasks. The award is intended to recognize exceptional rather than integrated service. It is not a lifetime achievement award.

Nominations will be accepted from any member of the University community, including staff, students, and alumni, and should be received by the committee by February 20. To nominate a faculty member, fill out the nomination form (guidelines and form are available at [http://www.social.mtu.edu/fac\\_nom\\_form.pdf](http://www.social.mtu.edu/fac_nom_form.pdf)) and submit it together with any applicable supporting material to **Susan Martin**, chair, Faculty Distinguished Service Award Committee, Social Sciences. Include a description of the specific work for which the candidate is being nominated; an explanation of why the work merits the award, including a description of how the University has changed as a result of this work; a model inscription to be placed on the award; and any appropriate supporting materials.

Members of the committee include Martin, **Barry Pegg**, **Carl Anderson**, **Dennis Lewandowski**, and **Bogue Sandburg**.

## MichiganTech

Bill Curnow, executive director, University Relations  
Marcia Goodrich, *Tech Topics* editor  
*Tech Topics* Web site: [www.mtu.edu/level3/ttpics.html](http://www.mtu.edu/level3/ttpics.html)

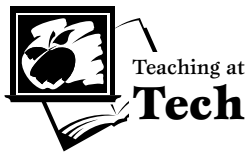
To get *Tech Topics* via e-mail, send a message to [MAJORDOMO@MTU.EDU](mailto:MAJORDOMO@MTU.EDU) saying `SUBSCRIBE TECH-TOPICS-L`. Information to be included in *Tech Topics* should be submitted to the *Tech Topics* editor in one of the following ways:

- By e-mail to [ttpics@mtu.edu](mailto: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.

## Five Things I Wish I Would Have Known

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



Some MTU teaching award winners and your humble servant were recently invited to a gathering

of first-year faculty members to talk about teaching. The event organizers, **Noel Schulz** and **Neil Hutzler**, asked us to each share five things about teaching that we wish we would have known when we first began. Taking full literary liberty, here are my five.

First, I wish I wouldn't have temporarily lost sight of the fact that students have hearts as well as minds. Although distinguished educational thinkers from John Dewey to John Biggs have persistently talked about the importance of engaging students through affective as well as cognitive means, many beginning instructors routinely seem to bring a hearty helping of stoicism and indifference into their classrooms. Perhaps it's a function of personal uncertainty and nervousness or an artifact of the solitary tendencies of many academics. But learning to engage students as complex beings, each embodying a jumble of feelings, likes, and dislikes, as well as the jumble of thoughts they bring to class, forms the foundation for communication and learning.

Second, I wish I would have realized that student performance will tend to rise or fall to meet the expectations that I set forth. Over the last twenty-five years, the classes I remember as having the most impact on lasting and profound student learning were the ones that sort of took on a life of their own and sailed way past the practical parameters that I had set as learning outcomes. Let's face it; genuine enthusiasm and intense interest are infectious. If I am too tired or too distracted to properly prime the enthusiasm pump, student interest, participation, and

performance, and therefore learning, are likely to suffer. If my goal walking into the classroom is to make that particular session the most engaging, most inspiring, creative expression and interchange of ideas, even if I am only partially successful, my students and I are well ahead of the game.

Third, I wish I would have realized how difficult it is to remember exactly what it was like not to know something that I am now trying to teach. I wish I would have realized that people come to know new things in remarkably different ways, and that different people have different ways of learning and knowing. And I wish I would have realized how easily exams and grades can serve to trivialize learning and profoundly demotivate and demoralize some of the most creative, curious, and intellectually gifted students who just don't fit the mass manufacturing model of education, Ritalin or not.

Fourth, I wish I would have known that teaching is really about coming to know what my students are actually learning and not navel-gazing about which teaching technique I should employ here or there. When I can observe their progress in class discussions and in their writing, then I know that we're doing something right together. What I feel doesn't matter; what they are learning does.

Finally, I wish I would have realized that to actually learn really new things, students often have to unlearn other things. Students don't come here as blank slates. They are jam packed with preconceived notions about almost everything under the sun. To properly make the case that the answers and ideas my discipline offers are valuable, I need to take the time to understand the nature and the limitations of the answers and ideas that I am encouraging them to discard.

Oh, all right! Next week I'll tell you what some of the others said.

## Spring Semester Staff Luncheons Scheduled

President **Curt Tompkins** and his wife, **Kathy Tompkins**, will be hosting luncheons at the University Residence for staff at the end of February and at the end of April.

The luncheons provide an opportunity for staff to chat informally with the Tompkins, similar to the breakfasts and lunches that are held in the fall for faculty. Attendance is welcome but not mandatory. Invitations will be sent in campus mail to staff a few weeks before each luncheon. Here is the schedule:

- Monday, February 26: Center for International Education, Financial Aid, Student Affairs, and Student Records and Registration
- Wednesday, February 28: Accounting Services, Affirmative Programs, Human Resources, and Purchasing
- Wednesday, April 25: Extended University Programs, Graduate School, Internal Audit, Mail Services, Printing Services, Research Services, Special Events, University Relations
- Thursday, April 26: Advancement, Alumni Relations, Career Center, Corporate Services, Daniell Heights, Educational Opportunity, Finance and Administration, Governmental Relations, Institutional Analysis, Occupational Safety and Health Services, Provost's Office
- Friday, April 27: Admissions, Counseling Services, Michigan Tech Fund, International Advancement, Enrollment Management

## SPORTS SHORTS

By Dave Fischer

### Get Your Tickets Now for Grand Raffle Drawing

The Athletic Department's Grand Raffle will be held on Tuesday, February 20. Twenty prizes will be awarded, including a brand new 2001 GMC Sonoma Truck, a 2000 Tigershark Jet Ski and Trailer, a fur coat, two tickets on Northwest Airlines, a set of Taylor Made golf clubs, a 27-inch JVC stereo TV, and \$1,000 in cash.

Tickets are \$10 each and can be obtained from all Tech student-athletes and athletic staff. In addition, orders for tickets can be placed by e-mail at [grandraffle@mtu.edu](mailto:grandraffle@mtu.edu). To do so, include your name, the number of tickets you wish to purchase, a valid credit card number, including name on the card, type of card, and expiration date, as well as an address where the tickets can be sent.

The twenty winners will be drawn live on WMPL radio between 7:00 and 8:00 a.m. on February 20. Those twenty winners will then be matched up with their prizes on the ice in the first intermission at Michigan Tech's home hockey game on February 24 against North Dakota.

All proceeds support Michigan Tech athletics.

### Center of Pressbox Named for Bob Olson

The center portion of the pressbox in the MacInnes Student Ice Arena will officially become the Bob Olson Broadcast Center at a ceremony to take place during the February 10 Winter Carnival hockey game against Minnesota-Duluth.

Olson, who is in his thirtieth year as the radio voice of the hockey Huskies, is appropriately referred to as a living legend by those throughout college hockey. Olson started the first-ever college hockey poll, the WMPL Poll, in November 1972, and his station has served as the clearinghouse for all college hockey scores every day the game has been played for nearly twenty years.

Olson is a member of the MTU Sports Hall of Fame and has been honored with the Jim Fullerton Award by the American Hockey Coaches Association. He is also one of just two media members ever to be presented with the WCHA's Distinguished Service Award.

The naming of the center portion of the pressbox was made possible in part by a generous gift from John and Venus Rockwell.

## Correction

The Cafe Français is held on Tuesdays, not Wednesdays, at the Campus Cafe.

## Curves For Women Membership Coverd by Techfit

Curves For Women, a new fitness facility in Houghton, is now a member of the MTU Wellness Program (Techfit).

MTU qualified employees (who are fully eligible for health benefits) and their spouses can receive discounts after their initial 72 workouts over the preceding year or transfer of current fitness membership.

Curves For Women also offers a discount on the one-time service fee new members pay when they join. This discount ends March 1.

Curves For Women thirty-minute fitness and weight loss centers provide exercise and weight-loss guidance. The facility is built around the concept of a complete workout in half an hour. The Curves circuit alternates hydraulic resistance machines with aerobic recovery stations. As you move around the circuit, you perform both a cardiovascular and strength training workout at the same time, ending with a stretching routine. The workout burns as much as five hundred calories, and because you're moving fluid rather than weights, it's safer for any age or condition.

"When you diet alone, 40 percent of the weight you lose is muscle," local owner Rick Nye said. "Muscles are the engines of our bodies that require fuel. If you drastically lower your body's energy needs each time you diet, you will always gain your weight back. The key to permanent results is lean muscle. When a woman loses twenty pounds with us, it is predominantly body fat. Strength training protects and increases lean tissue while raising metabolism. The Curves workout is strength training women will do."

"Simply dieting to lose weight does not work over the long haul," he said. "People know that you must exercise for lasting results. Curves For Women is the first program to meet both these needs in the same place for the same price.

"We're winning the weight-loss war," he said. "A thirty-minute total workout in a women-only environment, with complete weight-loss guidance, makes health and fitness an achievable goal. Our \$29 monthly fee makes it a great value."

For more information, call Curves For Women at 482-5002.

## MTU to Host Lake Superior Youth Symposium

The Fourth Biennial Lake Superior Youth Symposium will take place May 17-20 on the MTU campus.

The symposium will bring together grade 8-12 students and teachers from throughout the Lake Superior watershed (which includes parts of Michigan, Wisconsin, Minnesota, and Ontario) to learn about, share ideas, and experience the Lake Superior environment. Following the symposium, students will be encouraged to give school presentations, write news articles, etc. when they return to their communities.

More than 50 different presenters will conduct field trips and presentations on a wide range of topics, including history, geology, water quality, forest management, pollution threats, environmental stewardship techniques, artistic expression, and student initiatives in the Lake Superior region.

Lois Beardslee, an Ojibway artist, author, and storyteller from Maple City, will present "Native American Arts, Stories & Spirit." Ron Hobart, of Hayward, Wisconsin, will give

"The LaSalle Presentation," about the seventeenth-century voyageur Louis Baron, garbed in authentic clothing—muslin shirt, canvas pants, wool socks, and moosehide moccasins.

The deadline to register is April 5. For information and on-line registration, visit <http://www.emmap.mtu.edu/gem/education/symposium.html>

The symposium is being organized by the Center for Science and Environmental Outreach at Michigan Tech, the Copper Country ISD Math and Science Center, and many other agencies and organizations. Funding for the symposium comes from the Wege Foundation, the Elizabeth E. Kennedy Fund, the Environmental Protection Agency, the Copper Country ISD Math and Science Center, the Keweenaw Community Foundation, Mead Paper Division, and the Lake Superior Binational Forum.

For more information, contact symposium coordinator Joan Chadde at 487-3341 or [jchadde@mtu.edu](mailto:jchadde@mtu.edu)

## American Indian Student Conference Here Feb. 12-14

The Michigan Tech American Indian Science And Engineering Society (AISES) Student Chapter is sponsoring the Region V AISES conference at Michigan Tech February 12-14. The "Balancing Traditions with Technology" conference is made possible through a generous grant from the Kimberly-Clark Corporation.

Events include a welcoming ceremony, snow statue tours, social events, storytelling, and a visit to the job fair.

The Region V AISES area includes Nebraska, Iowa, Illinois, Minnesota, Wisconsin, and Upper Michigan. Registration is \$20 per student for the three-day event.

For more information or to register, check the Region V Website at <http://www.sos.mtu.edu/naa> or contact Carole LaPointe at 487-2920, [cllapoin@mtu.edu](mailto:cllapoin@mtu.edu).

## Barry Kunz *Continued from page 1*

the Year in 1990. He became a Fellow of the American Physical Society in 1976 and received the A. O. Beckman Foundation Research Award in 1982. Kunz authored or coauthored more than 200 papers and chapters, and held a ten-year, \$1.5 million grant with the Office of Naval Research on the fundamental properties of explosives.

He was also known for supporting young faculty and students. "He did an excellent job of mentoring and working with young faculty," Schulz said. "If you had a proposal rejected, he'd say, 'You gotta get used to that,' and share about his proposals that had been rejected. And you'd think, gee, if Barry could get rejected, it could happen to anyone."

"He spoke very highly of his students," Suits said. "Most recently, he was talking about interactions he'd had with double-E students on a senior project, and he was bubbling over with excitement. . . . He really liked his sound systems, and one of these projects involved students building a better sound system."

Perger describes a man who strode through life taking giant steps. "Barry was a very passionate man," he said. "An example was his love of going to Africa. He was quite a hunter and outdoorsman, and he spoke with great enthusiasm of the landscape and the people, as well."

"In the dialysis unit, the nurses thought he was the greatest," he said. "Most people on dialysis are unhappy, and rightly so, but he always had some witty thing to say. He had a

great rapport with everyone there."

Fisher agreed. "One of his loves was hunting. He went on many safaris and has many trophies," he said. "He also loved his family." Kunz's son, Andrew, also holds a PhD in Physics and is working at the National Institute of Standards and Technology. Kunz's daughter, Katie, is married to Fisher's son, Ted; their three children came to visit Kunz shortly before he died.

And he loved food. "If you were traveling together, and you went to a restaurant with Barry, and it wasn't just a good meal—it was the best you ever had," Schulz said. "And he always looked for the silver lining. He could focus on the positives as well as anyone."

"He spoke to me after meeting his new wife, Renee, and said, 'I feel like I have a new life ahead of me,'" Perger said. "He had this great love for science, he loved his family, and his grandkids were very special to him. He put himself full-force into things he was interested in. . . .

"Last Wednesday was the last day I saw him," Perger said. "On my board were the diagrams we used to express our thoughts and ideas; the most interesting diagrams were at the top." Even though he had lost his leg, Perger said, Kunz wasn't content to sit. "He got up and stood. That optimistic attitude will be sorely missed. Everyone in our department will miss that."

Memorials may be sent to the Western U.P. Dialysis Center, 500 Campus Drive, Hancock, MI 49930.

## Seminars Feb. 1&2, Computational Neural Networks

Mary Poulton, head of the Department of Mining and Geological Engineering at the University of Arizona, will give a talk, "If a Pigeon Can Do It, Why Can't My PC?" on Thursday, February 1, at 4:00 p.m. in Dow 642.

Poulton will also give a talk, "Computational Neural Networks: How They Work," on Friday, February 2, at 4:00 p.m., in Dow 642. Refreshments will be served at both events.

Poulton attended an MTU Women in Engineering summer youth program in 1979. She went on to obtain degrees in remote sensing, geological engineering, and neural network applications at the University of Arizona. She is widely regarded as one of the leading researchers in neural networks and their applications in the geosciences, and has recently written a book on the subject.

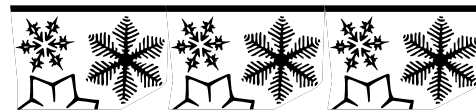
Her visit is partially supported by the Presidential Commission for Women and the King-Chavez-Parks Initiative. For more information, contact Wayne Pennington, 487-3573, wayne@mtu.edu.

## Clarification

According to Associate Professor **Ronald Gratz**, president of Copper Country Habitat for Humanity, a statement in a January 26 *Tech Topics* article that the area now has two Habitat for Humanity chapters is misleading. The Copper Country chapter is a full affiliate of Habitat for Humanity International, while the Michigan Tech campus chapter works under the supervision of an affiliate.

## New Staff

**Lori Witting** has joined the staff of Educational Opportunity as a staff assistant. She was previously employed by Aquatic Therapy and Rehab Institute as the event management director. She was also the catering/convention service manager at the Omni Rosen Hotel and Walt Disney World Dolphin. Witting and her husband, Robert, live in Chassell, and she has a daughter, Sophia. Witting loves running and has competed in the Grandma's Marathon and twice in the Chicago Marathon.



## February

### Black History Month

- 1 Thursday**  
**4:00 p.m.**—Mary Poulton, "If a Pigeon Can Do It, Why Can't My PC?"—Dow 642  
**8:00 p.m.**—*Midsummer Night's Dream*—Rozsa Center
- 2 Friday**  
**4:00 p.m.**—Mary Poulton, "Computational Neural Networks: How They Work"—Dow 642  
**8:00 p.m.**—*Midsummer Night's Dream*—Rozsa Center
- 9 Friday**  
**7:05 p.m.**—Hockey, Minnesota-Duluth at MTU—MacInnes Student Ice Arena  
**8:00 p.m.**—*Midsummer Night's Dream*—Rozsa Center
- 10 Saturday**  
**5:05 p.m.**—Hockey, Minnesota-Duluth at MTU—MacInnes Student Ice Arena  
**8:00 p.m.**—*Midsummer Night's Dream*—Rozsa Center
- 11 Sunday**  
**3:00 p.m.**—*Midsummer Night's Dream*—Rozsa Center

## 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 list of job openings, visit [www.admin.mtu.edu/hro/postings/index.shtml](http://www.admin.mtu.edu/hro/postings/index.shtml)

The following positions will be posted Friday, February 2, 2001, at 1:00 p.m. through noon, Friday, February 9, 2001, in the Human Resources Office.

- Food Service Helper (two positions)—Residential Services (Regular, part-time positions; AFSCME internal and external posting)
- Secretary N3—Physics (UAW internal and external posting)
- Dean—School of Forestry & Wood Products

University employees are reminded to apply in writing prior to noon, Friday, February 9, 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.