

MICHIGAN TECH NOBEL PRIZE-WINNING CHEMIST DEAD AT 85

Submitted by the News Bureau

Michigan Tech's only Nobel laureate, Dr. **Melvin Calvin**, died Wednesday in Berkeley, California, at the age of 85.

Calvin, a 1931 chemistry graduate of Michigan Tech, was one of the nation's most distinguished researchers. His work yielded important discoveries over broad areas of physical, organic, and biological chemistry, culminating in 1961 with the presentation of the Nobel Prize for his work on photosynthesis.

He received his PhD in Chemistry from the University of Minnesota and joined the faculty at the University of California, Berkeley, in 1937. His work at Berkeley won him nearly every distinguished medal of the American Chemical Society (ACS), including its highest award, the Priestly Medal. He served as ACS president and president of the American Society of Plant Physiologists, and in 1971 he was named a University Professor, one of only ten such positions in the entire California university system.

In 1985, for the MTU Centennial, the Board of Control created the Melvin Calvin Medal of Distinction. Calvin was the first and only recipient of the University's highest honor. He had earlier received three awards from Michigan Tech: the Honorary Doctorate of Science Degree in 1955, the

Distinguished Alumnus Award in 1969, and the Distinguished Service Award in 1981.

"Melvin Calvin returned to our campus on several occasions over the years to share his scholarship, wisdom, and humanity," said President **Curt Tompkins**. "His outstanding contributions to society will serve as an inspiration to us all and a shining example to our students on how far a Michigan Tech degree can take you."

Calvin has another connection with Michigan Tech: Associate Professor **Gilbert Lewis** (mathematical sciences). "My grandfather [also named Gilbert Lewis] hired Calvin as his personal research assistant," Lewis said.

When the first Gilbert Lewis, who was dean and department head, hired Calvin, it was the first time in twenty years that the chemistry department at UC Berkeley had hired a non-alumnus. "My grandfather hired very exceptional people," Lewis said. "At least six eventually won the Nobel Prize."

One was Glenn Seaborg, an NMU graduate who eventually received the Nobel Prize in Chemistry for the discovery of plutonium. Seaborg preceded Calvin as Lewis's personal assistant. "Apparently, Calvin and Seaborg were extremely close friends for the last sixty years or so," Lewis said.

Astronaut takes Michigan Tech flag into space

Submitted by the News Bureau

Michigan astronaut Jerry Linenger carried a Michigan Tech flag with him when he blasted off from the Kennedy Space Center Sunday in the Space Shuttle *Atlantis*.

President **Curt Tompkins** attended the launch at Cape Canaveral at Linenger's invitation.

Linenger will spend the next five months on the Russian Mir Space Station before returning to earth sometime next May. He will be on the Michigan Tech campus in late summer or fall to officially present the MTU flag to the University Archives and to speak about his experiences.

Linenger is a native of Eastpoint, Michigan, and a 1977 graduate of the U.S. Naval Academy. He received a doctorate in medicine from Wayne State University in 1981, an MS in Systems Management from the University of Southern California in 1988, a Master of Public Health degree from the University of North Carolina in 1989, and a PhD in Epidemiology from the University of North Carolina in 1989.

Name that new mascot!

More than eighty entries were submitted to name the Huskies' new mascot (that person in a dog costume that skates around during games). That list has been narrowed to five finalists.

The Huskies are now asking you, the fans, to vote on the name. The five final names are Blizzard, Harley, Heikki, Howie, and Yoopie.

Balloting will be conducted at MTU's basketball games Saturday, January 18, vs. Lake Superior State and at the Huskies' hockey games January 24-25 vs. Minnesota. Or you can use the ballot at right to submit your vote.

One lucky voter will win two tickets to the Lazy Boy Lookout for MTU's home hockey game on February 14 vs. Alaska Anchorage. The LBL is furnished with two luxurious black leather recliners and is catered throughout the game. "It's an all you can eat smorgasbord in the concession stand," said **Dave Fischer**, director of athletic communications and promotions.

Fans in the LBL receive game programs, team notes, and period-by-period shot charts. The name of the new mascot will be unveiled during MTU's Winter Carnival hockey games against Minnesota-Duluth.

"Name The Husky Mascot" ballot

- | | |
|-----------------------------------|---------------------------------|
| <input type="checkbox"/> Blizzard | <input type="checkbox"/> Howie |
| <input type="checkbox"/> Harley | <input type="checkbox"/> Yoopie |
| <input type="checkbox"/> Heikki | |

Check only one box. One ballot per person. Ballots not including name and phone number will not be counted. One lucky voter will win two tickets to the **Lazy Boy Lookout** for MTU's hockey game on February 14 vs. Alaska Anchorage.

Name _____

Phone _____

Send your ballot to SDC 233 or drop it off in the ballot box at the entrance to the SDC. Entry deadline is Jan. 24 at noon.

January 17, 1997

Through all the search for answers, truth, integrity, wisdom, and compassion must be our guide, and as long as we live, we will find new questions to ask and new clues to follow.

—Melvin Calvin
MTU '81 graduation address

Vol. XXIX, No. 17

TWO MTU ALUMNI KILLED IN DETROIT PLANE CRASH

From TechAlum News, *the Detroit Free Press*, and *the Detroit News*

Two Michigan Tech alumni were among the twenty-nine persons killed January 9 in the Comair crash south of Detroit Metro Airport.

Mark Herman '93 and **Douglas Thomas '72** were killed when the plane went into a roll and crashed into a field.

Thomas grew up in the Detroit area and earned a degree in metallurgical engineering from MTU. Since 1992, he worked as a senior field service metallurgist for Lukens Inc., a Coatesville, Pennsylvania-based specialty steel manufacturer. He lived in the Detroit area and is survived by his wife of fourteen years, Judy; a son, Chad Forman; daughters Adrienne and Erika; parents Mervyn and Eileen Thomas; one brother; and one sister. He was returning from a one-day business trip to Cincinnati, said Fred Fletcher, his supervisor.

"He was often involved in business in the Cincinnati area and throughout the Midwest," Fletcher said. "He was a terrific individual and very highly thought of as a metallurgist. He worked diligently with our customers in dealing with problems with steel. He conducted metallurgical investigations and often talked with shop-floor workers on how to work with steel."

At Community Lutheran Church in Flat Rock, Thomas did everything from preaching and serving communion to ushering and cutting the grass.

"When people die, everybody has a tendency to inflate them," said the Rev. David Gohn of Community Lutheran. "Doug Thomas, with no inflating him, was a wonderful man. He was the epitome of what a man should be."

After graduating from Michigan Tech, Mark Herman went to work for Dart Container Corporation in Mason and was returning home from a visit to one of Dart's plants in North Carolina when the crash occurred. He is survived by his wife, Anne (Young) Herman of Novi, who is the daughter of Associate Professor **Dae Young** (mining engineering) and his wife, In Soon; his mother and father, Mr. and Mrs. Dan Herman of Lansing; and two brothers: David, of Lansing, and Douglas, of Rossville, Georgia.

"For those who knew Mark, they knew him as a hard worker, an excellent engineer, and a caring friend," said fellow alumnus **Fred Stauber '95**. "Mark always touched those around him in a positive manner, and will be greatly missed by all friends and family."

Fun Day's coming! Want to play?

Organizers are inviting all interested members of the University community to serve on the Fun Day Committee.

Fun Day will be held in March and gives all University employees and their families a chance to relax, recreate, and snack in and around the SDC. If you'd like to volunteer and help make this Fun Day the best ever, or if you have an idea for a great new Fun Day activity, contact Glenn Ekdahl, 487-2688, gpek Dahl@mtu.edu

TECH TOPICS

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

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

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

Staff Council to consider election changes

Staff Council laid the groundwork January 13 for developing changes in how its members are elected.

Council Member **Rich Pelto** agreed to develop an interim proposal for 1997 to present at Staff Council's next meeting. He also agreed to chair a committee to address constituency issues.

In the past, to increase representation, Staff Council has appointed additional members from among its various constituency groups (technical/paraprofessional, clerical, crafts/maintenance, and professional) to increase representation. In addition, council members have expressed additional concerns, including that professional staff may be underrepresented on Staff Council, and that the current electoral system makes it difficult for Staff Council members to communicate with their constituents.

On the road

Three members of the MTU community recently went on the road to support youth hockey. Trainer **Chris Ipson** went with the USA Junior Hockey Team to Geneva, Switzerland, for the World Juniors' Tournament. Team USA won a silver medal, coming in second to Canada. Assistant hockey coach **Ken Martel** worked with Team USA's Under 17 Team, which traveled to the Red Deer, Alberta, area to take part in the 1997 World Under 17 Challenge. Video Reporter **Kraig Ehm** also worked with Team USA's Under 17 Team as the team videographer.

Putting people on their feet

Submitted by *Rolf Peterson*

The late **Matt Manderfield** was fond of telling how he rode a horse to classes at Michigan Tech in 1919 and occasionally couldn't find a place to tie it up.

Some problems never go away, as commuters at MTU find today. There are no more cheap options to expand parking facilities, according to **William Blumhardt**, director of facilities management. It's time for a new approach.

A reconvened Parking Task Force, chaired by forestry professor **Rolf Peterson**, wants to encourage students and employees at MTU to walk or bike to campus. At present, about 2,000 people drive and expect parking to be available, while 5,000 walk or bike.

So far, ideas to encourage walking range from simply shoveling the sidewalks better along College Avenue and MacInnes Drive, to an ambitious revision of the U.S. 41 corridor.

Existing plans call for making College Avenue a one-way street with two lanes. "Perhaps one lane could be reserved for pedestrians and bikers," Peterson said. "The current plan has nothing to offer this large group of people."

Other ideas include offering tangible incentives not to park, improved bus service, and student lockers on campus. More ideas are needed. If you have a suggestion for making the campus and community environment less hostile to walkers and bikers, contact Blumhardt (487-2303, wdblumha@mtu.edu).

MTU notables

Professor **Randall Freisinger's** (humanities) most recent book of poetry, *Plato's Breath*, has been selected as the winner of the 1996 May Swenson Award from the Utah State University Press. Over 600 book-length manuscripts were submitted in the competition.

The May Swenson Award, judged by Herbert Leibowitz, the founder and editor of *Parnassus: Poetry in Review*, is given annually to an outstanding book of poetry. The award carries with it publication by Utah State University Press and a cash prize of \$500. Freisinger's book is scheduled for publication in June 1997. May Swenson, recognized around the world as a talented poet, published eleven volumes of poetry in her lifetime.

Associate Professor **Leonard Bohmann** and Professor **Dennis Wiitanen** (electrical engineering) were recently elevated to the rank of senior member in the Institute of Electrical and Electronics Engineers. Senior members are elected by an IEEE committee, which evaluates candidates based on their professional accomplishments.

Board of Control meets Jan. 24

The Board of Control will meet on Friday, January 24, at 9:30 a.m. at the Dearborn Inn in Dearborn.

Agenda items include discussion of the TIAA-CREF retirement health benefits program, renovation of the Meese Center, and a report by Provost **Fred Dobney** on the strategic plan and the 1997-98 budget.

The meeting is open to the public and all members of the University community are invited to attend.

New dean of engineering trails the ground running

With leadership changes coming in two departments, two new degree proposals, curriculum innovations to consider, and hundreds of new faces to recognize by name, **Robert Warrington**, dean of the College of Engineering, will have a full dance card for the next few months. And that doesn't count development efforts and changes in the College administration.

Before determining what will be, however, he's finding out what is.

"I'm trying to make an assessment of the College, meeting with departments and individual faculty members," Warrington said. "I'm looking and listening a lot."

Warrington has been focusing his efforts in three main areas. "First, there are curricula revisions being developed across the College," he said, adding, "Some neat things are going on within the departments, but maybe not as much between departments and colleges."

"Secondly, we're building momentum for development, putting together a team within the College as part of the upcoming Capital Campaign."

And thirdly, the College has been participating in the Initiative for Manufacturing announced by **Jurt Tompkins**, and will soon be contacting alumni and professional groups as part of the University's drive to address multiple aspects of manufacturing, including clean technologies and chemical processes as well as product design.

"We're also looking at our graduate student enrollment and funding levels, to make sure that is the graduate program grows, it's integrated with the undergraduate program so that all students benefit," Warrington said.

In addition, two chair searches are now under way for the Departments of Electrical Engineering and Mechanical Engineering—Engineering Mechanics. Those same departments are also considering two new degree programs, in computer engineering and biomedical engineering.

Lastly, Warrington is looking into making organizational changes within the College, and is asking for lots of advice. In addition to chairs and faculty, staff, graduate students, and undergraduates will be consulted. He plans to establish working committees including all of the stakeholders. Their charge will be to look at research, curricula, "and the way we do business."

Just because you haven't heard from Warrington doesn't mean he doesn't want to hear from you.

"With a college this size, it will take time to get a touch with everyone," he said. "My door's always open. If people have things they'd like to talk about, or if they'd just like to chat, I'd love to hear from them."

In print

Graduate student **Donald Woodraska** and Assistant Professor **John Jaszczak** (physics) published a paper, "Roughening and Preroughening of Diamond-Cubic {111} Surfaces," in the January 13 issue of *Physical Review Letters*, Vol. 78.

Distinguished Teaching Award finalists announced

Nine faculty members have been named finalists for the Distinguished Teaching Award.

Finalists in the assistant professor/lecturer category are **Dennis Lewandowski**, **Kalpna Godbole**, **Donna Michalek**, and **Kirk Schulz**. In the associate professor/professor/lecturer category, finalists are **Fredrick Williams**, **Ashok Ambaradar**, **William Bulleit**, **John Daavettila**, and **Charles Van Karsen**.

KALPANA GODBOLE (mathematical sciences) is a lecturer and director of first-year mathematics. She came to Michigan Tech in 1984 and teaches college algebra, trigonometry, precalculus, calculus, and statistics.

Taking a sincere interest in your students' education is the foundation of good teaching, Godbole says. "I think the most important thing is to let students know you genuinely care about how they learn," Godbole said, describing the underpinnings of her teaching success. "It's one thing to just say something in class; you also have to work hard to get students to come to you when they have problems. I chase them down, literally, or I'll send them e-mail, talk to them after class, or write notes on exams.

"It's important to provide lots of encouragement," she said. "Students are quite capable of achieving their goals and our goals, but some need a lot of encouragement."

DENNIS LEWANDOWSKI (mathematical sciences) is a lecturer and director of the Math Learning Center. He came to MTU in 1985 and teaches all math courses through differential equations: algebra, calculus . . . "about eighteen different courses," he says.

He was once surprised when a fellow faculty member, after observing him for several months, said, "You really like your students, don't you?"

"Of course I like my students!" Lewandowski said. "I share my life with them. I like to come in to class about five minutes early and just talk to my students, and maybe make a connection."

To make a hard subject easier, he takes an atypical tack in teaching math. "My background is in metallurgy, so I have a different point of view," Lewandowski said. "I try to see the simplicity in what's going on, not the complexity."

DONNA MICHALEK (ME-EM) is an assistant professor and came to the University in March 1993. She teaches thermodynamics to both mechanical engineering majors and non-majors, fluid mechanics, and graduate-level courses in gas dynamics and computational fluid mechanics.

For her, teaching is rooted in a "concern for students."

"I work with them as much as I can," she said. "It's not me versus them, but me with them, working together to get to our

mutual goal of them learning the material."

Michalek also encourages her students to go beyond mastering the subject to gain skills that will be important in the workplace. "I emphasize teamwork and oral communication, as well as understanding the engineering and science material," she said.

Assistant Professor **KIRK SCHULZ** (chemical engineering) came to Michigan Tech in fall 1995. He teaches a sophomore-level course in separations and a senior-level course in kinetics and reactor design.

He cites "caring about the students" as a fundamental tenet of good teaching. "I try to make myself as available as much as possible," he said. "I have open office hours, and students can talk to me anytime they want to.

"In class, I try to be a person instead of a teacher on a pedestal. I tell them things about my family, what I'm doing, as well as discuss coursework. And I also have lots of in-class activities, with the students working problems, so they're not just listening to me speak."

And Michigan Tech students make it easy to be a good teacher, he said. "One of the things that's nice about teaching at MTU is that we have a high-quality group of students," Schulz said. "They are very bright, and it's easy to teach bright people."

Associate Professor **FRED WILLIAMS** (chemistry) came to Michigan Tech in 1965. He teaches freshman chemistry to 1,000–1,200 students annually in sections of 350–400 students.

Williams has no qualms about teaching large groups. "You have to have a special personality," he said. "I'm a ham, I suppose."

His flair for the different prompted him to give students extra credit for writing chemistry limericks. And his theatrical nature reveals itself in his in-class experiments. "We just did a demonstrator with a couple of hydrogen balloons," Williams said. "We lit them on fire, and they blew up.

"That's a very fast reaction," he deadpanned.

Regarding the fundamentals of good teaching, Williams advises, "You should probably enjoy what you do."

Associate Professor **CHARLES VAN KARSEN** (ME-EM) came to MTU in September 1987. He teaches undergraduate courses in mechanical vibrations, control theory, machine design, and experimental modal analysis; and graduate classes in vibrations and measurements.

With his background in the profession, Van Karsen stresses the practical applications of engineering theory.

"I was a practicing engineer for years before I came here, and so I have a lot of stories," he said. "I'm sure that helps me.

"Also, when I read my evaluations,

Continued on page 4

Malice, murder, and mayhem: Macbeth opens Thursday

Submitted by the Department of Fine Arts

Coming soon to Walker Theatre—intrigue, murder, and seduction! The Department of Fine Arts presents *Macbeth* as its Winter Carnival feature, opening Thursday, January 23, at 8:00 p.m. for seven performances. Shakespeare's powerful tale of a good man undone by unbridled ambition wows audiences with its hard-hitting action and message. Now director **Debra Bruch** and technical director **Paul Aneshansel** add the extra touches—elaborate set, costumes, props, and special effects—to create an unforgettable theater experience.

Macbeth will be shown at 8:00 p.m. Thursday–Saturday, January 23–25; and Thursday–Sunday, January 30–February 2. The Sunday performance is at 3:00 p.m. Tickets are on sale at the Memorial Union Box Office (487-3200), SDC Ticket Office (487-2073), and Calumet Theatre (337-2610) for \$7 general admission, \$5 senior citizens, and \$3 students.

Why *Macbeth*? It's great theater, but Bruch has deeper reasons as well. "We all

have to deal with our ambitions and ask ourselves how far we're willing to go to gain prestige and respect. *Macbeth* will literally do anything, including murder, but there are lots of ways short of murder to hurt someone to get ahead, whatever job you're in."

The cast of students and community members includes veteran performers **Matt Wright** as *Macbeth*, **Cheryl Richardson** as *Lady Macbeth*, **Rebekah, Maija,** and **Claudia Stadius** as the Three Witches, **Edan Idzerda** as *Banquo*, **Brian Grimes** as *Macduff*, and **Richard Goldstein** as the Porter. *Macbeth* features a colorful, multi-level set designed by Bruch and constructed by Aneshansel, who also designed lighting and special effects, both eerie and gory. Theater lovers will enjoy costumes by Calumet artist **Cindy Peterson**, in her first MTU production, and original music by fine arts department chair **Milton Olsson**.

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

Teaching award finalists

Continued from page 3

students say they appreciate the fact that I treat them with respect. I don't preach down to them. My attitude is, they are paying tuition, I'll give them whatever I can, respect their questions, and help them as much as I can."

Associate Professor **ASHOK AMBARDAR** (electrical engineering) came to the University in 1976. He teaches electrical engineering circuits, signals and systems, and digital signal processing.

What's his secret for good teaching? "I think having a good rapport with the young students, always trying to have a fresh outlook each time you go out there," he said. Even after twenty years? "I must like my job."

As the author of a textbook, Ambardar says he's learned the importance of making sure that, in class, he covers the right concepts in the right detail. And he still keeps his courses fresh. "Make sure you do it differently each time," he advises. "I never stick to the same lesson plan, and it seems to work."

Associate Professor **JOHN DAAVETTILA** (technology) came to Michigan Tech in 1978. He teaches civil engineering technology courses on strength of materials, structural design, contracts and specs, construction estimating, and concrete testing.

Daavettila makes an effort to be accessible, in class and out. "It helps to have an informal relationship with students, and I try to have a relaxed atmosphere in the classes," he said. "I try to be comfortable, friendly, and I don't look down on the students."

In his office, he maintains an open-door policy. "I enjoy it when the students stop by to chat, not only about class but anything else that's going on in their lives, such as making a decision about their careers," Daavettila said, adding, "The only problem is that sometimes you don't have time to do that as much as you would like."

Professor **WILLIAM BULLEIT** (civil and environmental engineering) came to MTU in 1981 and teaches a variety of courses in structural engineering.

To be a good teacher, he says, "you've got to care that they learn, and care about them. And remember what it was like when you didn't understand things."

To keep his classes interesting, Bulleit injects humor as much as he can. "There are certain things you can do that may or may not have anything to do with the material," he said. "And I try to involve the students where possible and make them stay awake, where possible. Life is too serious to be taken seriously."

The Distinguished Teaching Award finalists are selected based on nominations submitted by faculty, students, and alumni. The Distinguished Teaching Award Committee will choose the award winners based in part on student evaluations to be conducted by Omicron Delta Kappa. Committee members and the groups they represent are **Ted Bornhorst**, faculty; **Gordon Erdelean**, USG; **David Randall**, ODK; **William Predebon**, University Senate; **Darcy Way**, Alumni Association; **Christie Wells**, GSC; and **Bill Kennedy**, Center for Teaching, Learning, and Faculty Development. Provost **Fred Dobney** also serves on the committee.

Researchers/contractors: CBD now on the Web

The Commerce Business Daily (CBD) database is now available online via GPO Access through CBDNet.

Research Services Director **Anita Quinn** encourages researchers, faculty, and anyone else interested in competing for federal contracts to check out the CBD Web site.

"The CBD lists notices of proposed government procurement actions and other procurement information. It a great source to look for government funding. Having access on the World Wide Web allows anyone to do their own searches for official, active notices," she said.

The CBD lists contract awards, sales of government property, and other procurement information. Each notice appears in the print CBD only once. Notices stay active in the CBD database online via GPO Access for fifteen days and are then moved to an archived database. Each notice is available as an ASCII text file. The database is updated continuously.

The database can be reached directly through CBDNet on the World Wide Web at the following URL: <http://cbdnnet.access.gpo.gov>

You can also connect to GPO Access via Telnet. The address is swais.access.gpo.gov Type guest (lower case) at the login prompt (no password is required). You will be using SWAIS. File transfers are by Internet e-mail or screen capture.

Talk Jan. 30 on semiconductor etching

John Weaver will give a talk, STM Characterization of Surface Processing: Semiconductor Etching," on Thursday, January 30, at 4:00 p.m. in Fisher 139.

Weaver is professor and head of the Electronic Materials Group at the University of Minnesota's Department of Chemical Engineering and Materials Science.

His visit is sponsored by the Solids and Electronic Solids Research Group, the Department of Physics, and the Society of Physics Students. For more information, contact John aszczak at 487-2255 or at aszczak@mtu.edu

Faculty: LabVIEW training offered in May

A five-day workshop on the programming language LabVIEW will be held Monday–Friday, May 26–30, 9:00 a.m.–1:00 p.m.

The workshop is free to all MTU faculty and will be led by Associate Professor **Nam Kim** (chemical engineering).

LabVIEW is a unique programming language that simplifies computer automation applications for scientists and engineers. It allows for block diagram programming to support lab research and industrial control, as well as data acquisition and analysis.

The workshop is sponsored in the interest of faculty development by the Center for Teaching, Learning, and Faculty Development. For more information or to register, call 487-2046.

GEM Center at Tech Tea Time

Promoting community awareness of water resources

submitted by University Cultural Enrichment

What is the GEM Center? **Neil Hutzler**, director (and associate dean of the College of Engineering); **Kristine Bradoff**, coordinator; and **Joan Schumaker-Chadde**, education outreach specialist at the regional Groundwater Education in Michigan (GEM) Center, will be the guests at Tech Tea Time at 4:00 p.m. on Wednesday, January 22, in the Memorial Union Alumni Lounge.

They'll describe a variety of school and community programs which they have established in the western U.P. to enhance awareness and protection of water quality and the environment. The GEM Center would also like to hear suggestions about other ways that MTU can share its resources with area schools and communities. Come to Tech Tea and brainstorm future projects!

The GEM Center assists with Earth Day activities, provides information and volunteer opportunities for faculty, staff, and student organizations, and, until recently, coordinated the campus recycling program. Improving conservation practices on Tech's campus is another possible focus for the center. The GEM Center trains MTU students to conduct classroom presentations on water, recycling, and other topics; developed adopt-a-stream programs at area schools; organizes water festivals; and conducts teacher training workshops.

Cager Club road trip to NMU Jan. 20

The MTU Cager Club invites all basketball fans to join us on a road trip to Northern Michigan University on Monday, January 20, to support the men's and women's basketball teams as they tangle with the Wildcats.

Vans will be leaving the SDC at 4:00 p.m. sharp. Cost for the trip, including tickets to the games, is \$15.

For further information or to sign up, contact Jim Gale at 487-2674, or Bill McKilligan at 487-2712.

POSITIONS AVAILABLE AT MTU

The following positions will be posted Friday, January 17, 1997, at 1:00 p.m. through noon, Friday, January 24, 1997, in the Human Resources Office.

- Wellness Coordinator—Human Resources
- Custodian—Memorial Union (VARIABLE SHIFTS; REGULAR, PART-TIME, EXTERNAL AFSCME POSTING)
- Research Assistant—Keweenaw Research Center
- Department Chair—Electrical Engineering
- Assistant Professor—Electrical Engineering
- Food Service Helper—Memorial Union (FULL-TIME, INTERNAL AFSCME POSTING ONLY)
- Baker—Dining Services (FULL-TIME, EXTERNAL AFSCME POSTING)
- Specialized Clerk—Advancement (FULL-TIME, INTERNAL AND EXTERNAL UAW POSTING)

University employees are reminded to apply in writing prior to noon, Friday, January 24, 1997, to be considered as internal candidates. Applicants from the recall pool will be given first consideration for non-bargaining-unit positions. 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.

The GEM Center plans further programs to improve science education in area schools and help communities develop programs such as wellhead protection, land stewardship, etc. Founded in 1991, Michigan Tech's GEM Center has provided information, educational programs, and technical expertise on water resources and solid- and hazardous-waste issues to area residents, schools and local decision makers.

The regional GEM Center at MTU is part of a network that includes four other regional centers located at state universities and more than three dozen local GEM projects.

The Marquette County GEM Center is spearheading the development of the Aquasaurus Exhibit at the Marquette Children's Museum, where children can flush themselves down the toilet and bubble to the surface in a nearby wetland.

Come to Tech Tea, contribute your ideas, and find out more about the future of campus recycling, county land-use planning efforts, and how you can get involved in some very worthwhile programs on campus, in schools, and in the community.

Tech Tea Time is coordinated by the University Cultural Enrichment Department and is free and open to all. For more information, call 487-2844.

Companies coming

Representatives from the following employers will be recruiting on campus next week. If you'd like to meet with any of them, contact the Career Center, 487-2313.

- Monday, January 20: Toyota
- Tuesday, January 21: Arthur Anderson, Bohning Co., Honeywell, James River (co-op), Surface Combustion, Toyota
- Wednesday, January 22: IBM, Kimberly-Clark, Surface Combustion
- Thursday, January 23: Archer Daniels Midland, Ford Motor Co., IBM, Kimberly-Clark
- Friday, January 24: Archer Daniels Midland

Calendar



January

- 17 Friday**
8:00 p.m.—Billy McLaughlin solo—Finnish American Heritage Center, Suomi College
- 18 Saturday**
1:00 p.m.—Women's basketball, Lake Superior State at MTU—SDC
3:00 p.m.—Men's basketball, Lake Superior State at MTU—SDC
8:00 p.m.—Billy McLaughlin Group—Fisher 135
- 20 Monday**
4:00 p.m.—Cager Club vans leave for NMU—SDC
- 22 Wednesday**
4:00 p.m.—Tech Tea Time on the GEM Center—Memorial Union Alumni Lounge
- 23 Thursday**
8:00 p.m.—*Macbeth*—Walker Theatre
- 24 Friday**
8:00 p.m.—*Macbeth*—Walker Theatre
- 25 Saturday**
8:00 p.m.—*Macbeth*—Walker Theatre

Proposals in progress

- Researchers, their proposals, and their potential sponsors are
- Noel Schulz** (electrical engineering), "Implementation of CES Algorithm for StormMan," Configured Energy Systems
 - Gary McGinnis, Douglas Gardner, and John Forsman** (IWR), "Mechanical and Physical Property Testing," Louisiana-Pacific
 - Peter Laks** (IWR), "IB, Thickness-Swell and Field Termite Evaluation of Simulated Timberstrand LSL Containing Griffin Products," Trus Joist MacMillan
 - Daniel Crowl** (chemical engineering), "Dow Corning Seed Project," Dow Corning
 - Laks and Marcia Pruner** (IWR), "Termite Tests of IP/Masonite Hardboard Siding," International Paper; "Field Test of Akzo Wood Preservatives" and "Soil Bed Test of Akzo Wood Preservatives," AKZO Nobel; "Extended Field Site Agreement," Trus Joist MacMillan