

The background of the cover is a dark, starry night sky with a large, vibrant aurora borealis in shades of green and blue. In the foreground, the dark silhouettes of several evergreen trees are visible against the glowing light of the aurora.

Northern
HORIZONS

FALL 2001

THE MAGAZINE FOR ALUMNI AND FRIENDS OF NORTHERN MICHIGAN UNIVERSITY

RESEARCH AND
DISCOVERY

What's all the excitement about?

I don't remember much about the science courses I've taken over the years. Not so much because the passage of time has dimmed their memory, but rather because I've found that sometimes it's best to block out the more painful memories of youth. Science courses did more than intimidate me — they outright frightened me. The compounds of chemistry danced around my mind like Japanese alphabet soup. Images (not to mention the smell) of frogs and fetal pigs were enough to make me swear off biology. And then of course there was physics. I dreaded physics most of all. Not only was physics science, but it combined my second weakest subject — math.

And yet, of all the courses I have blocked out of my mind or simply forgotten, there is one particular day in my high school physics class that does stick out in my memory. At the beginning of class, my teacher handed each lab team a small, metal ball and an empty tin can. A ramp had been placed on each lab table. The assignment was to calculate where to place the tin can on the floor so when we rolled the ball down the ramp and off the table, it would land inside the can.

What a cool thing to be able to figure out, I thought. How unfortunate that I wouldn't be among those to do it. While it's not in my nature to simply give up on a particular task, I was prepared to make an exception for this assignment. My lab partner was absent that day, and I knew I couldn't complete the assignment without help. I didn't know where to begin, so, simply put, I didn't. Let the Fs fall where they may.

Unfortunately, my physics teacher didn't share my fatalistic view. When class was over, he called me to his desk and told me that I would be staying after school to complete the assignment. End of discussion.

I grudgingly reported for my after-school punishment, and my teacher explained how to perform the experiment one more time. I tried to proclaim my ignorance, but he simply said, "You *can* do this." And — much to my surprise — I did. I had done that very cool thing — the metal ball had dropped squarely into the tin can.

On October 5, Northern officially dedicated the Seaborg Science Complex, which is named for two science visionaries — Luther S. West and Glenn T. Seaborg. No doubt that it's that same sense of excitement I experienced that afternoon — that moment of 'aha' — that motivated these men to pursue their own scientific endeavors and to promote the benefits and necessity of science and mathematics education. And if either man could see the Seaborg Science Complex today and hear about all of the projects going on inside, I'm sure they would be incredibly proud.

Horizons

Volume 91, No. 1
Fall 2001

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PEDERSON/ ALASKASTOCK.COM

Horizons, the magazine for alumni and friends of Northern Michigan University, is published three times a year by the Communications and Alumni divisions of NMU.

Funding is provided by NMU, the NMU Alumni Association, alumni, and friends. Subscriptions are available at \$15 per year, \$7.50 for NMU retirees. Views expressed are not necessarily those of the NMU Alumni Association.

Northern Michigan University is an AA/EO institution.

POSTMASTER: Send address changes to *Horizons*, Office of Communications and Marketing, Northern Michigan University, 1401 Presque Isle Avenue, Marquette, Michigan 49855. Third-class postage paid at Midland, Michigan 48642.



Northern
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Northern HORIZONS

FOR ALUMNI AND FRIENDS OF NORTHERN MICHIGAN UNIVERSITY
FALL 2001 • VOLUME 91 • NUMBER 1

FEATURES



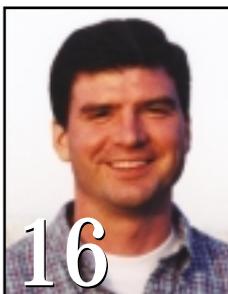
Breaking ground

After more than two years of construction and renovation, NMU science and mathematics departments have a new home in the Seaborg Science Complex. Read about just a few of the exciting research projects going on inside Northern's newest learning facility.



What's happening up there?

Northern's research on the Aurora Borealis may have uncovered something unexpected leaving researchers with more questions than they had when they started.



Bay Area biotech

Marc Knepper '96 MA has explored the bounds of biotechnology and its application in pharmaceutical development. Now this Bay Area researcher is putting those drugs to the test by monitoring human clinical trials.

DEPARTMENTS

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Horizons is wired

You can now read *Horizons* as you're clicking around the NMU Web site. That's right. *Horizons* is now on the World Wide Web.

Just click on the *Horizons* link on the Alumni Association Web site at www.nmu.edu/alumni.

You'll find the most current issue as well as back issues of Northern Michigan University's magazine for alumni and friends. Plus, you can submit a Keeping Track item or send a letter to the editor directly from the Web site.

Of course you can still mail your comments and letters to the editor. Send your letters to *Horizons* editor, Northern Michigan University, 1401 Presque Isle Avenue, Marquette, Michigan 49855.

Alumni listings now include all degrees earned

We've made a change to the way we list alumni in *Horizons*. In addition to graduation year, we now also include all diplomas and degrees earned by our alumni. Previously, we only indicated a degree for master's recipients.

Alumni who attended Northern but did not receive a degree or diploma will be listed by the last year they attended the university.

Here's a guide to our diploma and degree abbreviations:

Cert: Certificate

LC: Lifetime Certificate

AA: Associate of Arts

AS: Associate of Science

BA: Bachelor of Arts

BS: Bachelor of Science

BFA: Bachelor of Fine Arts

BSN: Bachelor of Science in Nursing

MA: Master of Arts

MS: Master of Science

MFA: Master of Fine Arts

MPA: Master of Public Administration

Responding to tragedy

NMU students, faculty, and staff reach out to help after terrorist attacks



NMU students, faculty, and staff joined Marquette area community members in donating blood at the U.P. Regional Blood Center at Marquette General Hospital following the terrorist attacks.

The NMU community responded in a number of ways to the Sept. 11 terrorist attacks against the United States. The university canceled classes effective at 1 p.m. the day of the tragedies. Many students, faculty, and staff stood in line for more than two hours to donate blood at the U.P. Regional Blood Center at Marquette General Hospital. That same evening, the university hosted seven informal gatherings across campus to discuss the day's events. Each was staffed by representatives from student services, the counseling center, and campus ministries.

ASNMU distributed yellow lapel ribbons — a symbol of peace — to those wishing to show their support. The organization also encouraged students to tie ribbons on trees located on the University Center lawn.

Air travel restrictions imposed immediately after the crisis postponed a campus visit by Andre Dubus III, author of *House of Sand and Fog*.

Dubus was scheduled to give a public reading in Forest Roberts Theatre.

The College of Arts and Sciences organized a Sept. 13 forum called "Coping with Terrorist Attacks: Campus Perspectives." NMU faculty talked about the events from their diverse areas of expertise. Participants included Sheila Burns, psychology; Chuck Ganzert, communication and performance studies; James Green, philosophy; Robert Kulisheck, political science; Greg Warchol, criminal justice; Gene Whitehouse, history; and ASNMU president Nathan Leach.

The Wildcat marching band, directed by Stephen Grugin, put on a patriotic half-time show at the Sept. 15 football game against Hillsdale College. The band featured such pieces as *Battle Hymn of the Republic*, *God Bless the USA*, and *God Bless America*, among others. The NMU University Choir, under the direction of Floyd Slotterback, and NMU's ROTC also participated.

Window on the universe

Seaborg Center helps bring NASA program to area students and teachers

Northern Michigan University's Seaborg Center for Teaching and Learning Science and Mathematics has opened a window to the universe for students in the Marquette-Alger school district. NASA accepted a proposal submitted by the Seaborg Center in conjunction with the Marquette-Alger Regional Educational Service Agency.

The district is one of three new sites in the nation selected to participate in the Window on the Universe program, sponsored by the Challenger Center for Space Science Education.

The two-year program uses the themes of human space flight and the space sciences as the interdisciplinary means to inspire entire communities. It includes a Window on the Universe week each year, during which the Challenger Center will send a national team of NASA space science researchers and engineers to the region.

The researchers will present several community-wide, interactive field trips designed for family learning. Children and families will be able to participate in activities related to space science and learn about current research at NASA. The NASA team will also visit local classrooms to interact with students at all levels.

Challenger Center curriculum specialists will present educator workshops on innovative teaching methods for space science to area teachers. The center will provide educational modules that include the science education content to be delivered during Window on the Universe week. It will continue to make available teaching materials that can be used even after the formal two-year program is over.

The Seaborg Center will coordinate the program with an advisory committee that represents area schools and other interests. They will develop and promote educational programs throughout the two years.

"We will include a space science theme in our ongoing College for Kids program," said Peggy House, director of the Seaborg Center. "We will work with the advisory committee to develop space-science activities for local schools. We are fortunate to have a NASA Regional Educators' Resource Center at the Seaborg Center. Through the ERC, we can provide teachers with numerous educational materials to enhance their programs."

Local organizations such as Shiras Planetarium, the U.P. Children's Museum, and the Marquette Astronomical Society, have indicated their intent to weave the space science themes into their ongoing programming as well.

NMU faculty will serve on the advisory committee and incorporate appropriate aspects of the program into NMU courses and public events. The university may also use its teleconferencing capabilities to bring programs to campus and make programming available to participants in the U.P.

"We believe Window on the Universe brings unique opportunities to people in remote, rural areas," House added. "Children don't always recognize the impact of science and mathematics in their daily lives. This program can help bring science much closer to area students."

The Window on the Universe program is funded by NASA's Human Exploration and Development of Space Enterprise and Office of Space Science.

Tuition task force comes to NMU to hear from students

A task force of seven Michigan legislators visited NMU's campus on Sept. 8 to hear testimony by students and residents on the recent rise in tuition at Michigan's public universities.

The House Democratic Task Force on Higher Education Affordability was formed to investigate factors related to the affordability of the state's college education. The group planned to visit public hearings at seven different Michigan universities.

According to a press release by the task force, tuition has increased by 52 percent over the last 10 years in Michigan. In 1998, the Government Accounting Office estimated that more than half of graduating students accrued more than \$19,000 in financial debt.

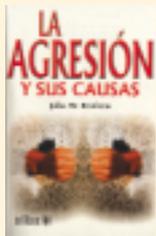
"It is frustrating for students when we return to our university each academic year only to see the price of our education continue to climb," said Nathan Leach, ASNMU president, while addressing the task force.

Leach stressed that rising tuition rates force many students to find jobs to pay their bills.

"We encourage students to become involved with at least one or two organizations while attending NMU," Leach said. "However, this is a difficult task when time is limited as students find themselves working to pay for higher tuition tabs."

Some issues that the task force is exploring are textbook sales tax exemption, student debt, university funding, tuition increases, the future of the tuition tax credit, and the 2001-2002 higher education budget.

La Agresión y sus Causas



Editorial Trillas, 2001

**John Renfrew,
Psychology**

La Agresión y sus Causas (Aggression and its Causes) is a translation of a work published by Oxford University Press in

1997, which describes biological, psychological, and social contributions to aggression and the means to control it. This translation by Trillas, a large publisher with international distribution, has made Renfrew's book accessible to readers in Latin America and Spain.

Cognition, Communication, and Romantic Relationships



Lawrence Erlbaum Associates, 2001

**James Cantrill,
Communication and Performance Studies**

Co-written by James Cantrill and James Honeycutt of

Louisiana State University, this book focuses on the role of memory, communication, and social cognition in the development of romantic relationships. The authors review developmental models of communication, examine criticisms of these models, and explore the stages through which relationships escalate and deteriorate.

Cold



Harmony/Shaye Areheart Books, 2001

**John Smolens,
English**

John Smolens uses the frigid backdrop of Michigan's Upper Peninsula as the setting for an examination of six lives wrecked by fate, betrayal and tragedy.

William Martin, author of *Back Bay*, *Cape Cod*, and *Citizen Washington* said, "Cold will grab you on the first page, when you see a cold stranger out in the snow. Before long, it will be under your collar and traveling down your spine as one fascinating character after another emerges from the snow...."

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College updates

College of Arts and Sciences

Geography to offer GIS certification

Geographic Information Science is a growing field. During its August meeting, the NMU Board of Control approved a new certificate program in GIS certification.

GIS certification ensures that only qualified individuals enter the profession. The geography department's certification program is designed to enhance students' opportunities for professional placement or graduate school admission, and to broaden the department's services to the community.

NMU professor convenes 'French Table'



Nell Kupper

Language professor Nell Kupper is giving students an opportunity to apply their French language skills in a social, stress-free environment.

Kupper has organized a weekly activity she calls "The French Table." The casual gathering at an off-campus cafe is designed to simulate a real-life conversational situation.

"Students have to struggle for words and explain their way around words they do not know," she said. "It is easy to see they enjoy this struggle. This social yet demanding environment also leads them to feel the study of French comes from their own initiative, not the property of a professor who spoon-feeds it to them in class."

Participants speak French exclusively. Kupper said beginners can benefit by simply listening in and focusing on grammar and vocabulary they know.

Language professor Carol Strauss has established a similar program called "Stammtisch" for German language speakers and students.

College of Professional Studies

School of Nursing names new associate dean and director

Kerri Schuiling has been named associate dean of nursing and director of the School of Nursing. She previously served as associate director of the school.

Schuiling received the Kitty Ernst award this year from the American College of Nurse Midwives. It is the second-highest honor the college bestows on one of its members. The award is presented to a midwife who, within a decade of graduation, has made major contributions to women's health and the midwifery profession.

Prior to coming to NMU, she was the acting director of education for the community-based Nurse Midwifery Education Program — the first at-distance program of its kind in the country. Schuiling is certified as both a nurse midwife and women's health practitioner.

She has been on the faculty of both nursing and midwifery programs and has more than 25 years experience in teaching and advanced nurse practice. Schuiling also has been active in presenting and publishing her perinatal care research.

Schuiling is a doctoral candidate at the University of Michigan School of Nursing. She holds a master's degree from Wayne State University with a major in advanced maternity nursing.

She assumes the position of Betty Hill, who will return to the nursing faculty after a fall sabbatical.

Sociology and Social Work establish research lab

The sociology and social work department has established a Social Science Survey Research Lab. Computers in the lab run software that help teach students how to design and conduct surveys, optically scan survey data, conduct computer-assisted telephone interviews and conduct statistical analyses on the results. Students use the equipment to conduct public opinion polls and needs assessment surveys. Department Head Ira Hutchison hopes that once additional resources are acquired, the department can help community agencies with their research needs.

Clinical laboratory science unveils museum display

The clinical laboratory science department unveiled a museum display of vintage clinical laboratory equipment at the Seaborg Science Complex grand opening on October 5. The equipment dates back to the 1920s and 30s and includes such items as colorimeters, spectrophotometers, pH meters, water baths, procedure manuals, and glassware, as well as an auto-analyzer, a cell counter, a hemoglobinometer, and an early centrifuge and microscope.

Contributors to the display include Clinical Systems Inc. of Monroe, Louisiana; Marquette University; Star Veaser from St. Francis Hospital; and Carol Evans from Memorial Medical Center in Ashland, Wisconsin.

"The clinical laboratory has been revolutionized by technological advances in a very short time," said Lucille Contois, director of the

Clinical Laboratory Sciences department. "Experiencing a visual display of this transformation in a new, state-of-the-art science complex was a dramatic event."

College of Technology and Applied Sciences

College names new associate dean as part of reorganization plan



William Rigby

departments of industrial technology and electronics.

Rigby's new appointment is part of a reorganization plan unfolding in the Jacobetti Center.

"We decided to move to a dean/associate dean model rather than put the emphasis on the department structure and corresponding department heads," said Mark Curtis, dean of the College of Technology and Applied Sciences. "It's very similar to the move made several years ago by the College of Business."

In the future, he added, the curriculum and other business of the college will revolve around the following eight disciplines: industrial technology, electronics, construction and facilities, cosmetology, hospitality management/culinary arts, training and technical education, automotive, and aviation.

"This new focus on disciplines will allow the college to act more as a single unit," Curtis said.

William Rigby has been appointed associate dean of NMU's College of Technology and Applied Sciences. He previously served as the head of the

Walker L. Cisler College of Business

College advances in accreditation process

Recently, the Walker L. Cisler College of Business filed its self study with the Association to Advance Collegiate Schools of Business-International, the primary accrediting body for college and university business programs.

The self study is one component of the five-year candidacy process.

"The completion of the self study marked a major accomplishment in the candidacy process and in the history of the college," said Dean Jim Scheiner.

The self study reported on the college's mission and objective; its efforts for improvement; faculty composition and development; curriculum content and evaluation; instructional resources and responsibilities; and student and intellectual contributions.

The report will be evaluated by the peer review team, followed by the team's campus visit in February. The team will then file its report and recommendation with the AACSB business accreditation committee, which makes the determination of accreditation. A decision from the committee is expected in April.

Scheiner said that the peer review team will meet with NMU faculty, students, administrators, the college's advisory council, and area business leaders as well as visit classes and review documents that support the self study.

"Accreditation of our college puts the stamp of approval that prospective students and faculty members as well as employers look for as verification that our programs are innovative, effective, and of the highest quality," Scheiner said.

Breaking

Science and mathematics
get a new (and improved)
home at NMU



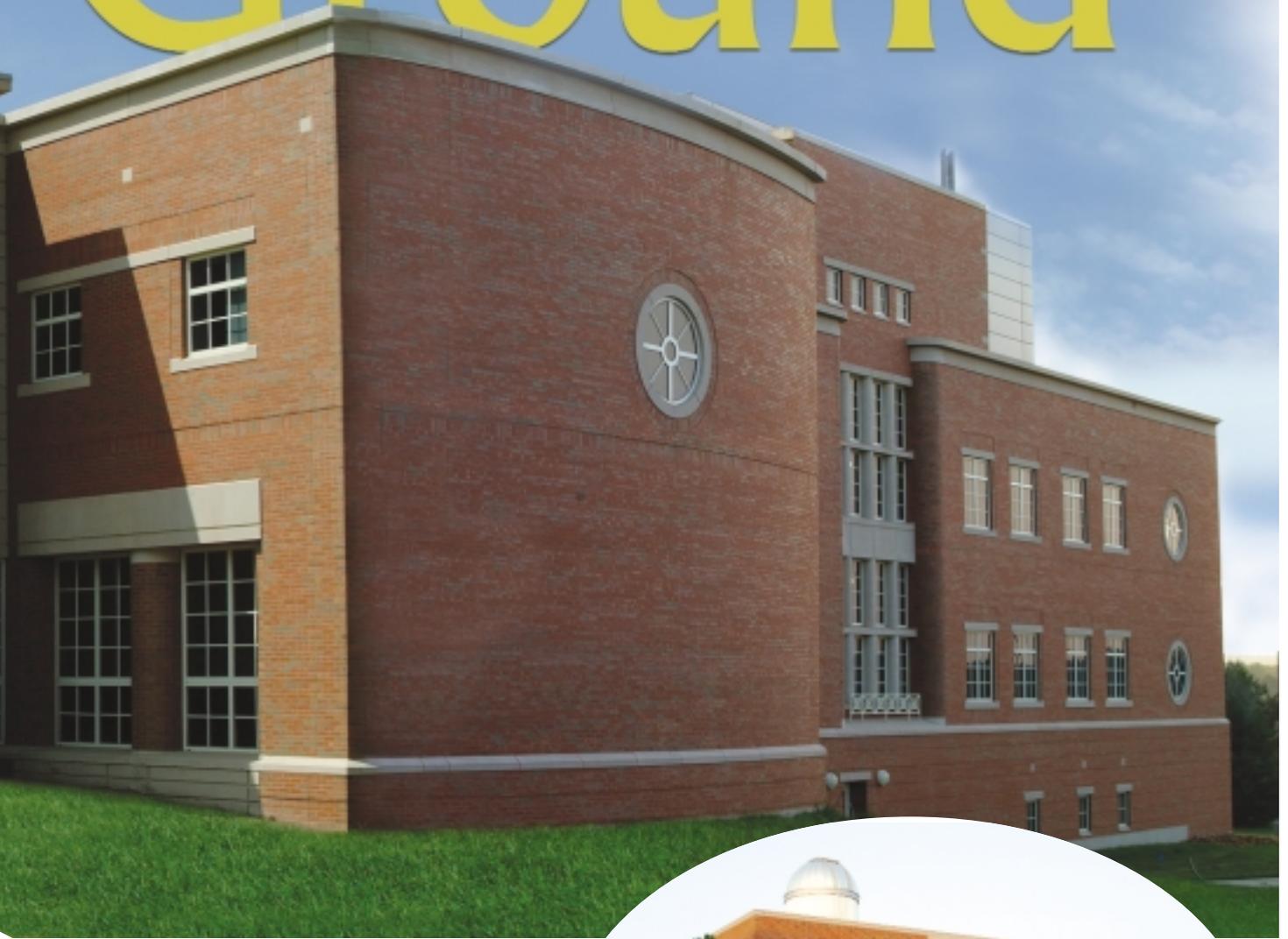
Atrium of New Science.

Profiles by CINDY PAAVOLA '84 BA,
BRANDIE SHEETS, and KRISTI EVANS

Thirty-five years ago, Northern dedicated a new science building in honor of science scholar and biology department head Luther S. West. Sixteen years ago, Nobel laureate and Ishpeming native Glenn T. Seaborg lent his name to the newly established NMU center for improving the quality of elementary and secondary science and mathematics education. On October 5, both men — and their vision — were honored at the dedication of a new science complex.

The Seaborg Science Complex is comprised of two buildings: the New Science Facility and the renovated Luther S. West Science building. The complex features the best instructional equipment and technology and houses all science and mathematics departments under one roof: biology, chemistry, geogra-

Ground



The New Science Facility from the Academic Mall.

phy, and mathematics and computer science reside in New Science; physics, nursing, practical nursing, and The Glenn T. Seaborg Center for Teaching and Learning Science and Mathematics are housed in West Science.

While the complex represents the largest brick and mortar project in the university's history, it represents more than that. It embodies a vision shared by its two namesakes. These men believed that through the excitement of learning, we can motivate and encourage students in their pursuit of higher education, research, and discovery.



West Science greenhouse.

Photos by
Kim Marsh '80 BS
and Bill Sampson.

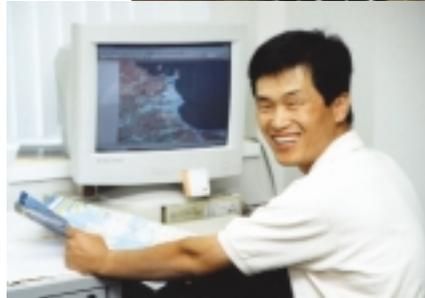
The Glenn T. Seaborg Center for Teaching and Learning Science and Mathematics

The mission of The Glenn T. Seaborg Center for Teaching and Learning Science and Mathematics is to enrich the knowledge and understanding of the general public in the areas of science and mathematics — particularly that of students and teachers from preschool through college. It is one of 25 designated mathematics/science centers in the state of Michigan and maintains a resource facility that includes publications, activity kits, and videos that teachers, students, and faculty may borrow for use in a classroom. It is also a regional NASA Educator Resource Center.

The Center strives to reflect the spirit and warmth of Glenn T. Seaborg, who epitomized the quest for science knowledge as a way of life. It reflects his belief that, in today's world, each citizen must have a solid understanding of and appreciation for scientific concepts and the technology to use them for the betterment of humankind.

The Seaborg Center has a unique opportunity to use its location and background to demonstrate that persons from diverse geographic regions can excel in science and mathematics and can contribute to the scientific future of our country and the world.

Entrance to Seaborg Center and walkway to Jamrich Hall.



JEONG-CHANG SEONG — GEOGRAPHY

Northern geography professor Jeong-Chang Seong helps his students see the world from different views — literally. They look at it from satellite images, aerial photos, 3-D maps, interactive and animated maps, and . . . well . . . any kind of map that can be computerized.

In fact, Seong, who serves as director of NMU's geographical information systems (GIS) certificate programs, has dynamic news for people who still have road maps from the 1970s stuffed in their car glove compartments: The U.S. Geological Survey is in the process of digitizing every United States map it manages, putting them on-line, and updating them almost in real-time.

"The goal of this is to have no map of any part of the country that is more than 30 days old," said Seong. "For instance, say a road is re-routed because of construction of a building somewhere — a map showing those changes will be available to the public within days of the building going up and the road being re-routed."



EUGENE WICKENHEISER — CHEMISTRY

Department Head Eugene Wickenheiser and other chemistry professors are using technology and the new facilities within the Seaborg Science Complex to help students become better prepared for a job after their college education.

Instead of collecting data points by hand, students are using new computer software loaded onto their NMU issued laptop computers to collect data.

“The computer can collect thousands of data entries in an hour,” Wickenheiser said. “If students were to collect the data by hand, they could only collect a fraction of that. By collecting more information, students can perform more accurate experiments.”

The new chemistry facilities give students the room and equipment necessary to use their computers when conducting experiments.

“What we are using now is a better match to what students can expect to encounter in the industry,” said Wickenheiser.

The new software plots data points in graphs as the information is collected. So now, instead of spending time collecting data, students are able to focus on what is happening and interpret the data as it is collected.

LUCILLE CONTOIS — CLINICAL LABORATORY SCIENCE

“Who is doing your medical lab work or that of someone you love?” asked Lucille Contois, director of Northern’s clinical laboratory science program. “Does it matter to you if hospital labs are severely understaffed? Of course it does!”

According to Contois, hospitals around the United States cannot fill 20 percent of their laboratory positions due

to a lack of qualified job candidates.

Northern’s clinical laboratory science program is addressing that need by offering bachelor’s degrees for diagnostic genetics, clinical lab scientist, clinical lab science in microbiology, cytotechnologist, histotechnologist, science technologist, and clinical system analyst; associate degrees for clinical lab technician, histotechnician, and science technician; and certificates for clinical assistant and phlebotomy.

The programs combine three main areas of study: biology, chemistry, and clinical laboratory science. Some baccalaureate students

also have the opportunity to do a six-month internship at the world-renowned Mayo Clinic in Rochester, Minnesota.

“The partnership with Mayo Clinic provides the type of hands-on laboratory experience that will make our students qualified to work in any lab in the world following graduation,” said Contois.

“But the partnership has also been important to Mayo Clinic because it, too, has a critical need for lab technicians,” she added. “The people at Mayo have said they are impressed with the work ethic and strong educational foundation of Northern students.”

JACKIE BIRD — BIOLOGY

When the large animals she was working with as a veterinarian started to physically get the best of her, Jackie Bird turned her interest to something smaller — studying parasites.

“As a veterinarian in a large animal practice, I became very intrigued by the questions of parasite control,” said Bird, an NMU biology professor.

Two and a half years ago, one of Bird’s students got her involved in a study of the tick that carries spirochete, the bacteria that causes Lyme disease. Today, she and professors Ned Walker of Michigan State University and Mark Wilson of the University of Michigan, and their collective group of student assistants are trying to answer the question of how, or if, ecology plays a role in where populations of this tick can be found.

“We’re looking for something that will answer why a tick is found in a particular area, but not in another,” said Bird.

Bird said she and her students are out in the field looking for ticks every week between May and September.



West Science from the Academic Mall.



DAVE LUCAS — PHYSICS

Whether it is researching particles and fields theory with Neil Russell or creating lenses that mimic the gravity that bends light around planets with Mark Jacobs, students in the physics department are sure to be exposed to faculty research projects on a daily basis.

According to Department Head Dave Lucas, each physics professor is involved in a research project, and almost all of them have at least one student taking part. For example, students working with Jacobs on his research of gravitational effects on light help make lenses, record data, and assist in many other ways.

“If students want to be involved, chances are we can find something for them to do whether they are physics majors or minors or not,” Lucas said.

The department also strives to get students excited about physics at an early age by doing demonstrations at area elementary and middle schools.

RON SUNDELL — ENVIRONMENTAL SCIENCE

The environmental science program has a new research facility at its disposal, but it's not housed in the Seaborg Science Complex — or anywhere on Northern's campus. It's located at Marquette's upper harbor near Presque Isle Park. The program has obtained a research vessel to assist in ecological studies on Lake Superior and the near-shore environment.

Ron Sundell, director of the program, developed a long-term lease agreement between NMU and the boat's owner, Argonne National Laboratory near Chicago.

NMU will use the 26-foot vessel for faculty research and for faculty-supervised graduate and directed study projects. The university is working with the Central Lake Superior Watershed Partnership to examine aquatic flora and fauna habitats along the 14 rivers that flow from Marquette County into Lake Superior.

Sundell has forged two other cooperative agreements. NMU provided a location outside New Science for the National Weather Service to erect a 10-meter tower as the official reporting station for Marquette.

The university will also develop a native plants study area with guidance from the U.S. Forest Service. Student interns will assist the USFS in gathering native plant seeds for habitat restoration projects.

“These relationships give students hands-on experience that will prove beneficial as they pursue graduate school or employment,” Sundell said.



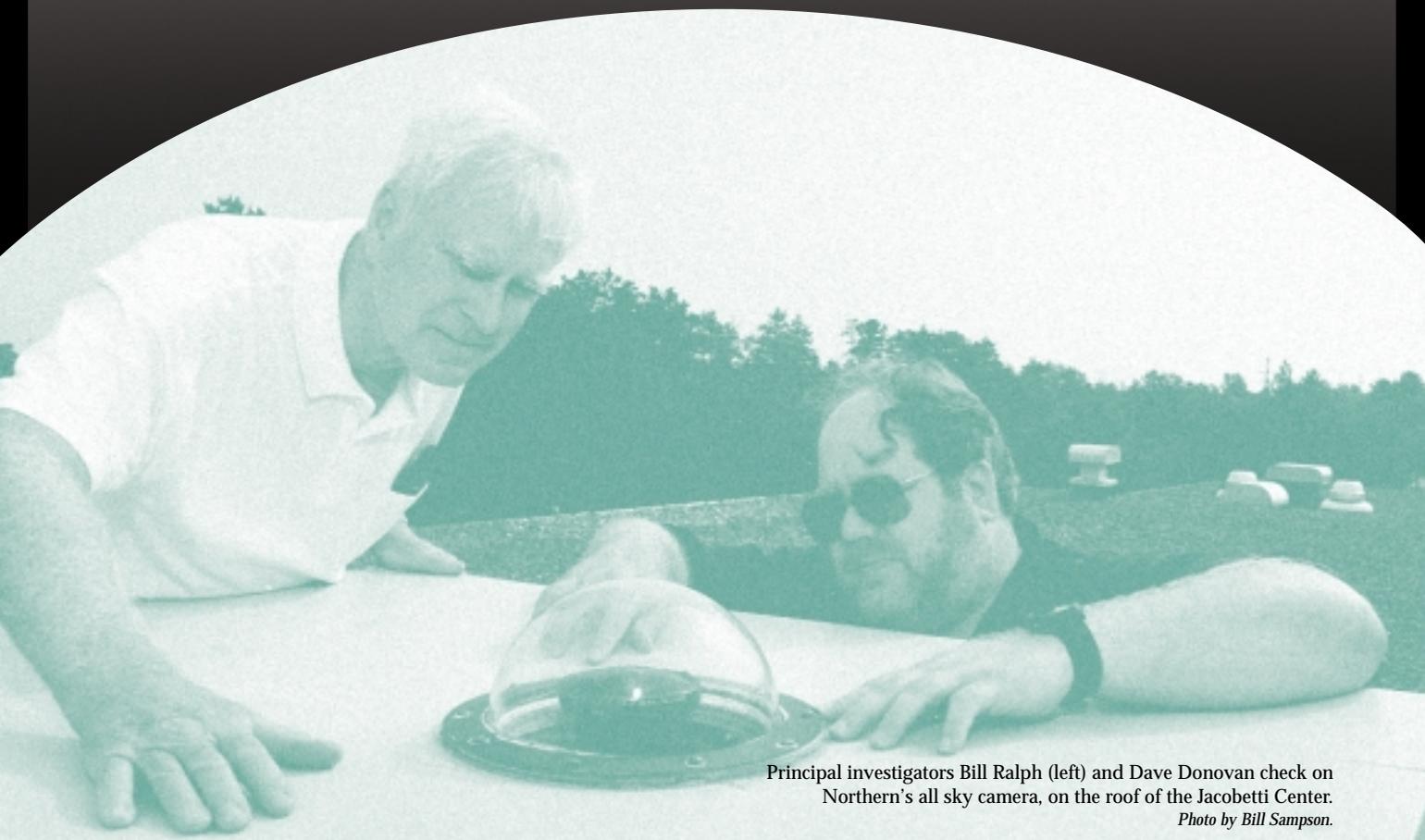
What's happening up there?

Unlocking the secrets of the aurora borealis

BY KAREN WALLINGFORD

The ends of the land and sea are bound by an immense abyss, over which a narrow and dangerous pathway leads to the heavenly regions. The sky is a great dome of hard material arched over the Earth. There is a hole in it through which the spirits pass to the true heavens. Only the spirits of those who have died a voluntary or violent death, and the raven, have been over this pathway. The spirits who live there light their torches to guide the feet of new arrivals. This is the light of the aurora.

Ernest W. Hawkes, *The Labrador Eskimo*



Principal investigators Bill Ralph (left) and Dave Donovan check on Northern's all sky camera, on the roof of the Jacobetti Center.

Photo by Bill Sampson.

The eerie and mysterious beauty of the northern lights have fascinated people for centuries.

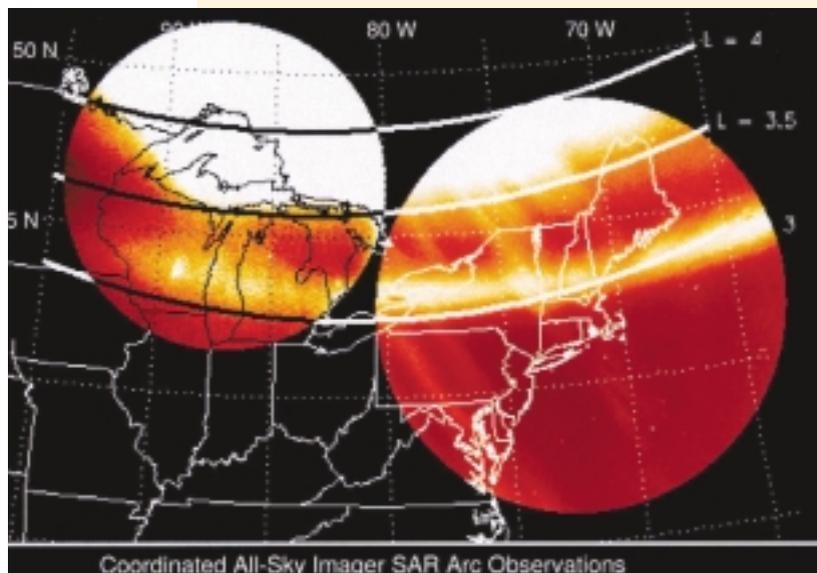
Explanations for this fleeting phenomenon are as varied as the cultures that attempt to explain them. In ancient China, the aurora was believed to predict forthcoming births. The Mandan Indians of North Dakota, on the other hand, believed the northern lights were fires over which the great medicine men and warriors of northern nations simmered their dead enemies. Other theories about the aurora have a more scientific flair.

“I think the most entertaining explanation is that it’s sunlight reflecting off the polar ice caps,” said NMU Physics Professor, Dave Donovan.

Donovan can tell you all about the northern lights. As he delves into a super-charged explanation of the upper atmosphere and how auroras form, his enthusiasm is unmistakable. He talks quickly and emphatically as if he had been doing this for his entire career. But he hasn’t. In fact, Donovan is relatively new to this area of research.

When he joined the physics department in 1992, Donovan’s research focused on phase transition in metals. In particular, Donovan looked at what are known as shape memory alloys — alloys that remember and pop back into their original shape regardless of how they are deformed.

Now along with NMU Physics Professor emeritus, Bill Ralph, and Michael Kelley from Cornell University, Donovan is a principal investigator on a research grant project funded through the National Science Foundation. The purpose of the grant is to study aurora-related phenomena using an all-sky camera, which has been installed on the NMU campus. In addition to Cornell, NMU is collaborating with Boston University, the U.S. Air Force Research Labs, and MIT Haystack Observatories Incoherent Radar Scattering Group.



This image shows stable auroral red arcs as recorded by Northern’s all-sky camera on the left and Boston University’s all-sky camera on the right.

The pictures the all-sky camera takes of the aurora, however, are not what you’d expect to see. In fact, the pictures it takes cannot be seen by the human eye alone. It looks through filters and takes a horizon-to-horizon picture of the sky using an extremely long exposure.

“Our eyes refresh at roughly a sixtieth of a second,” Donovan said. “We can let this camera collect light for up to two hundred seconds. A lot more becomes apparent when you let

the camera collect light for that long.”

Kelley, who has been researching the aurora for nearly 30 years, approached Bill Ralph with the idea of installing an all-sky imager on Northern’s campus in 1994. Kelley has all-sky imagers installed in other parts of the country and felt that Northern’s location would be ideal for an additional camera. Not only is it in a location where there hadn’t been an imager before, Northern’s camera overlaps with an all-sky imager run by Boston University at the Millstone Hill Research Facility in Westford, Mass.

“Alone, BU sees a certain part of the sky,” Donovan said.

“With the addition of our camera, we now see almost twice as much of the sky.”

Northern’s camera is adding optical data to an existing array of data collected by other all-sky imagers around the country. NMU’s data will eventually be joined with data from the other cameras and com-

pared against data taken by other instruments such as satellite data taken by the Air Force and radar data taken by MIT. Together the data should provide a more complete picture of what is going on in the upper atmosphere.

“What’s going on in the upper atmosphere is not well understood at this point, so we are trying to find out what’s happening up there,” Donovan said. “When we see light, it’s an indication of plasma densities. We’re look-

ing at why these plasmas take the shape they do, why they move the way they do, how often they move, and how they are evolving.”

Adding to this body of research has far-reaching implications — affecting such modern conveniences as cellular phones, pagers, digital television, and airline travel.

“Right now, the U.S. economy is extremely near-space dependent,” Donovan said. “Most of our satellites are just above or partially in our atmosphere. All of this is very interconnected with the sun. If the sun does something energetic, all of these things are affected. We need to know this.”

Donovan was brought in on the project in the grant stage in 1996, after Ralph decided to retire. Ralph remains an active member of the research team, but the university needed an active faculty member to help with the research and manage the grant. While aurora research is quite a departure from Donovan’s area of expertise, his background as an experimentalist — coupled with his experience using complex computer equipment — made him an ideal addition to the project.

In 1998, the camera was installed on the roof of West Science, and Donovan and Ralph spent the next year learning how to operate it and make the proper adjustments in order to get good, usable data. However, they weren’t getting good results from the first pictures they took. When the West Science renovation began, the camera was moved to the roof of the Jacobetti Center, and they soon discovered that the lights outside of West Science had been effectively washing out the night sky, making it very difficult to capture any aurora activity.

“Now it’s a much better view. We can see the stars and the Milky Way.

We’re not planning to move back.”

Donovan and Ralph are now skilled all-sky photographers, but the process of data gathering is slow and limited by a number of external conditions. While the auroral rings are always present, it’s too bright to see them during the day, so data gathering is restricted to night. And because one of the goals of the research is to expand on the images captured by the BU camera, Donovan looks for nights when images can be captured both in Marquette and in Boston.

“Getting usable data isn’t as easy as simply taking pictures on a clear night,” he said. “The night sky needs to be clear both here and in Boston. Not as easy as it might sound.”

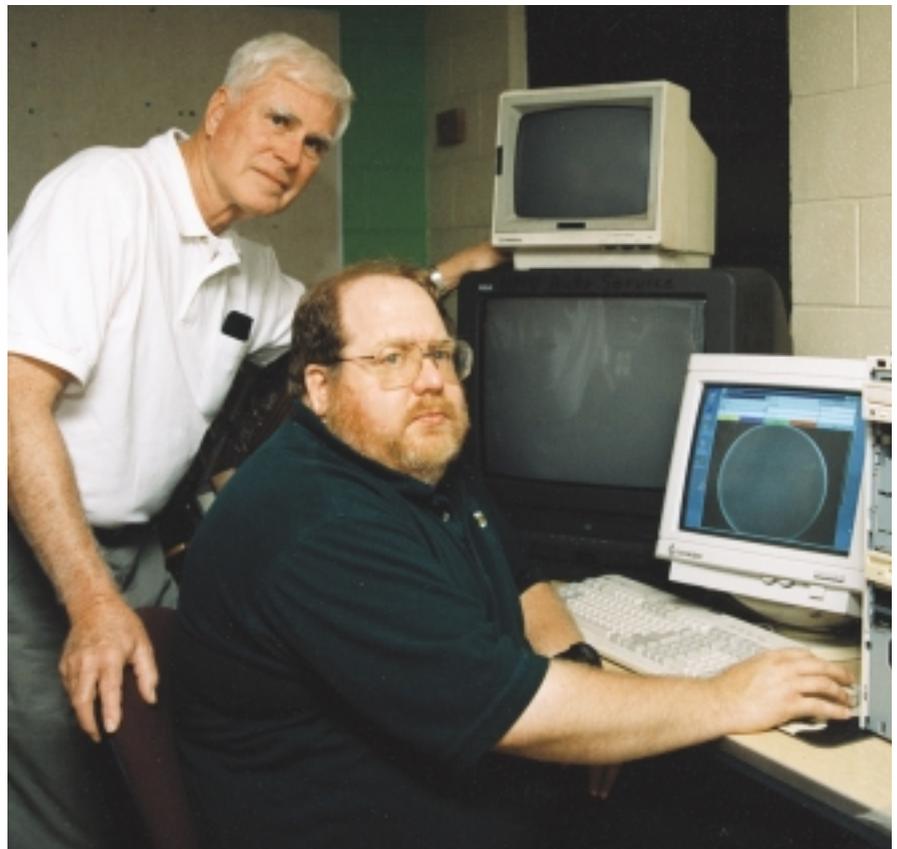
In addition, there are two weeks a

month when Donovan cannot run the camera because the moon is in the sky and it’s too bright to capture images. And then there’s the weather.

“Earlier this year we went through two straight weeks of clouds,” Donovan said. “On March 31, the world saw a huge aurora. It went as far south as Richmond, Virginia, and San Diego, California, but we didn’t see a bit of it here.”

Adding to these limiting factors is the variability of the aurora. Often-times, the activity simply isn’t worth recording. Although data gathering is slow, Donovan does not seem fazed by the pace of the research.

“You can’t predict when you’re going to get results. This kind of research isn’t like other research. You



While both Bill Ralph and Dave Donovan have the capability of operating the camera from their homes, this control room in the Jacobetti Center allows them to see the images much more quickly.

have to wait for things to happen.”

Nor does he seem fazed by the fact that he may not see definitive results during his career. According to Donovan, it isn't uncommon for researchers to reanalyze data as much as thirty years old and uncover new findings. He is more concerned with collecting good data. And now is the best time to do it.

“We're trying to get as much data as we can right now because the sun is in solar max — the eleven year sun spot cycle — which increases the amount of aurora activity. In two to three years, the sun will quiet down some, and there will not be as much aurora,” Donovan said.

Once solar max is over, Donovan and crew will be able to spend more time analyzing the data while they wait for sun spot activity to pick up again.

After roughly a year and a half of taking images, Donovan and Ralph now have enough good data sets to begin joining it with data from BU's camera and the Air Force's satellites. Although they don't currently have any nights in common with MIT, they continue to look for nights when conditions will be favorable in both locations so they can begin additional collaborations.

“We have some preliminary results,” Donovan said. “We have some more questions, and now we have to start refining things. We have to start doing some more data analysis.”

One of the questions raised by their preliminary analysis resulted when they began joining data with Boston. They saw something unexpected involving a phenomenon called stable auroral red arcs, or SAR Arcs, and Donovan is currently focusing data analysis on this occurrence.

“It has always been believed that these arcs form in the main aurora

Donovan is currently focusing his data analysis on what are called stable auroral red arcs.

“It has always been believed that these arcs form in the main aurora and drift south, but they do so horizon to horizon. We may have some evidence here that they don't.”

and drift south, but they do so horizon to horizon. We may have some evidence here that they don't.”

Donovan uses images captured from both locations to illustrate the discovery. There are two nights in which Northern's and Boston's camera have both clearly imaged an SAR Arc, but on a third night, Northern's camera imaged an SAR Arc, while Boston's did not.

“Here's a day where we join up. The interesting thing is we see this arc and they [BU] don't. And no one is exactly sure why. So right now, this is one of the key questions we're looking at. What's going on with these arcs? How are they forming? Why do we see them sometimes and BU doesn't?”

Although Donovan admits that this could simply be an instance of losing part of the image due to varying resolutions between the two cameras, he is not willing to dismiss it as a mere fluke. And neither is Kelley.

“Mike Kelley at Cornell thinks if we look hard enough, we might actually see some structure — you know wiggles and things that are reproducible,” he said.

Donovan would like to see the University of Calgary join the project because they have a camera that overlaps Northern's western edge, adding yet another piece to what has become quite a puzzle. He went on sabbatical last semester to continue building collaborations with other universities and research institutions.

He likes the project because it has been productive and because the grant has allowed for a good deal of student involvement. Donovan has taken four students to academic conferences, where they have been able to meet aurora researchers from all over the world.

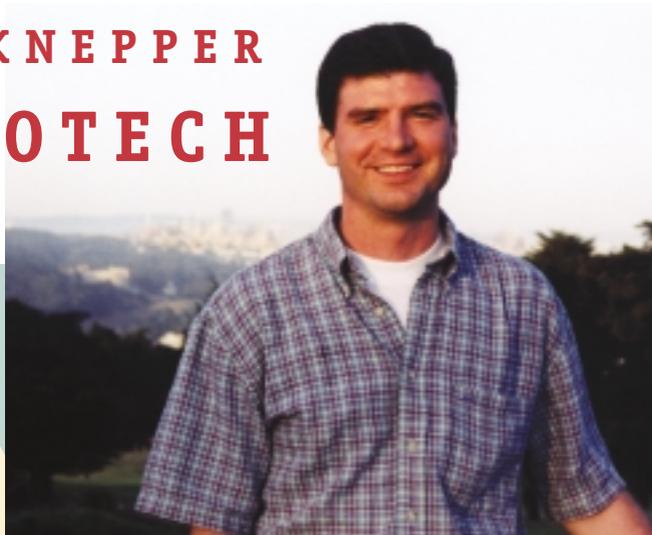
While the grant will end next spring, Donovan said he sees this project going on long after the grant runs out. In fact, he hopes to be able to get additional instrumentation to enhance Northern's research capabilities.

“The camera doesn't go away. As we take more pictures and see more things, the picture becomes clearer. The results we have now may totally reverse in ten years depending on the data. Who knows.” ■

MARC KNEPPER

BAY AREA BIOTECH

By KRISTI EVANS



How does one simplify the concept of recombinant DNA — the core of modern biotechnology — for a writer who once scorched her bangs over a Bunsen burner in a botched high school experiment? **Marc Knepper '96 MA** faced this daunting challenge during a recent interview at a Starbucks in San Francisco.

“The technology takes chromosomes from the bacteria ...,” he began. An anxious nosedive into the froth of my latte did little to disguise my clueless expression. Knepper opted for a visual aid. He picked up a crumpled drinking straw wrapper from the table, smoothed out the accordion-like folds, and formed it into a ring. “Imagine having a circle of DNA and taking a scissors to slice it open. Then you insert other DNA of your choice and attach it together.” In other words, functioning lengths of DNA can be cut from one organism and pasted into the cells of another organism. Cut and paste. That’s better.

Had he realized I was a Wisconsin native, Knepper might also have mentioned that biotechnology, in its earlier forms, was at the root of cheese making and beer brewing. It’s

not a revolutionary concept. The term reportedly was coined in 1919 to reflect all lines of work that made products from raw materials with the aid of living organisms. With the advent of gene splicing and recombinant DNA techniques about 25 years ago, its applications expanded to other commercial — and sometimes controversial — areas. Biotechnology is used in agriculture, pharmaceutical development, food processing, bioremediation, and energy production.

Knepper has established a career in biopharmaceuticals, an industry that spawned after a key event at the University of California at San Francisco. In 1978, a researcher constructed a synthetic version of the human insulin gene and inserted it into the *Escherichia coli* (E-coli) bacterium. “Up to that point, they had to slaughter pigs and purify their insulin before giving it to diabetics,” Knepper said. “With DNA technology, you can take the human insulin gene, put it in the bacteria and the bacteria will make it for you. No pigs required.”

As a research associate for two San Francisco biotech companies — Onyx Pharmaceuticals and Advanced Medicine — Knepper carried out in-vitro experiments. These cell-based

assays were designed to show whether drug compounds demonstrated the desired effects.

At Onyx, he worked with Bayer Corp. to develop a small-molecule drug for certain types of cancer cells. “The standard treatments for cancer have been radiation therapy and chemotherapy, which is like using a shotgun to get a fly off your nose. You may kill the fly, but you also kill a lot of normal cells, and that makes patients sick. Therapeutics developed with the small-molecule approach actively target the tumor cells and destroy them, but leave normal cells alone. It’s exciting, and I think we’ve only scratched the surface in this area.”

Knepper enjoyed the cutting-edge nature of his field, but knew he couldn’t be a research associate forever. In July, he accepted a position with SuperGen, also based in the Bay area. Rather than perform test tube experiments in a lab, he monitors human clinical trials of pharmaceuticals in the field.

“You have to be somewhat anal or detail-oriented to do this job because you have all of these FDA regulations and protocols to follow,” Knepper explained. “If Marquette

General Hospital was doing a trial, I would fly there to review the case reports for all patients involved and make sure they've been properly informed about the process. I would also make sure the site itself is in compliance with FDA regulations."

A similar process earlier this year led to FDA approval of Gleevec for chronic myelogenous leukemia. Knepper said nearly all CML patients who've taken the drug have improved or are in complete remission, with relatively few side effects.

Along with each major advance in biotechnology — from pharmaceuticals to modified foods to the human genome project — come the inevitable questions about the ethical and sociological implications of manipulating nature's course.

The hot-button topic of the moment is stem cell research. While it could hold the key to treatments and cures for a variety of diseases, some find it unsettling that the cells are drawn from excess embryos about to be discarded by fertility clinics.

They're even more concerned about reports that Virginia scientists created a human embryo for the sole purpose of harvesting stem cells.

"The line is very thin at times," Knepper said. "A character in the Jurassic Park movie said something like, 'You only thought about whether you can; you never thought about whether you should.' That's important. Some scientists see only fame and dollar signs with little regard for what it took to get there or what it will mean down the road. Others are in it for noble reasons like improving human health and the environment.

"I think it's worth developing pharmaceuticals for Alzheimer's and cancers, because I've seen their devastating effects. Is it important to find a cure for wrinkles? If we can clone human beings, does that mean we should? There are no easy answers. I thought biotechnology was a field I could make a difference in, especially because I realized there's potential for both good and bad."

Knepper has prior experience making a difference. While a graduate student at Northern, he successfully lobbied the Board of Control for a \$1,500 laminar flow hood. The equipment allows researchers to work with cells in a clean environment and reduces the risk of contaminating them with bacteria.

"There were some hospital administrators on the board and they were pretty surprised we didn't have one. It ended up getting funded, and I was able to get the necessary training that helped me land my first job."

Knepper describes his overall NMU experience as very positive. "It helped that I had a great advisor in John Rebers. Northern seems to attract professors who want to teach and do research on the side. At some major universities, teaching is just a front for the research and they rely heavily on GTAs. John is very dedicated to what he does and to his students. He's teaching for the right reasons." ■

The hot-button topic of the moment is stem cell research...

"I thought biotechnology was a field I could make a difference in, especially because I realized there's potential for both good and bad."



Alumni Association President's Notes

By SUSI DAHLKE '63 BS



NMU...Coming to a City Near You

In an effort to be more strategic regarding where we hold alumni gatherings, the Events Committee of the NMU Alumni Association Board of Directors met in May and came up with a list of cities with high alumni populations in which we will hold annual activities. Those places are Marquette County (August 1, 2002), Detroit (March 30, 2002), Chicago (TBD), and Tampa, Fla. (March 2002).

In addition, the following cities are targeted for an event sometime in the next three years: Dallas, Denver, Escanaba, Ft. Lauderdale, Grand Rapids, Green Bay, Madison, Milwaukee, Phoenix, San Francisco, Seattle, Traverse City, and Washington, D.C.

The Alumni Association sponsors Homecoming (October 5-6) as well as a number of volunteer-driven activities such as the hockey pre-game party near Ft. Myers, Fla., on

December 29, last year's Griffins hockey game in Grand Rapids, and this year's football pregame at Saginaw Valley on November 10. Thanks to all of the hard-working volunteers who make these events happen.

Watch for details on all these events in *Horizons* and on the Alumni Association Web site. If you would like to assist us in planning in one of the areas listed, or if you would like to plan an alumni get-together in your community, please contact the Alumni Association toll free at 1-877-GRAD NMU or by e-mail at alumni@nmu.edu.

Sweepstakes Update

Sweepstakes, the Alumni Association's annual membership drive, was a big success. My sincere thanks to those of you who are members! Your support enables us to host the alumni events in the cities mentioned above and to provide all alumni with *Horizons* magazine, in addition to offering many other services to NMU grads. All annual and lifetime members were eligible for the prize drawing associated with Sweepstakes.

Winners of this year's prizes were:

Carol Sarvello '64 BS

Art Carved NMU Gold Insignia Ring

William Jorns '62 BS, '64 MA

Season Hockey or Forest Roberts Theatre Tickets

Dave and Donna (Franz)

Schlemmer '83 MA

Shoreline Resort Weekend Package

Christine Johnston '64 BS, '69 MA

Longaberger Generosity Basket

Bill Bennett '67 BA, '74 MA

PEIF Annual Membership

Carrie Koepf '98 BS

Landmark Inn Weekend Getaway

Aggeliki Karampelas '75 BA

Starbucks Espresso Machine

Allen Salmi '92 BS

Lifetime Alumni Association Membership

Louis Schaut '72 BS

MSU Basketball Memorabilia

Don Stacks '71 BA

\$100 Gift Certificate for Alumni Association Merchandise

Sara '74 MA and Lowell Kafer

Paul Grant "Coming Home" Print

Trent Ferguson '99 BS

Panasonic DVD Player

Get Fit

New Alumni Association membership benefit

Not only does your Alumni Association membership keep you informed and connected, but now it is also keeping you fit. Starting this fall, members can take advantage of a new benefit. In cooperation with Recreational Facilities and Services, Alumni Association members will receive a discount on recreation memberships

to the Recreation and Sports Complex (the PEIF, Superior Dome and Berry Events Center) at NMU. Just show your Alumni Association member-

ship card when you purchase an annual recreation pass and you'll save up to \$60!

Compare the savings below:

Full Year Marquette Community Resident		Full Year Alumni Association Member	
1st adult	\$255	1st adult	\$210 (save \$45)
Spouse	\$165	Spouse	\$150 (save \$15)
Family rate	\$600	Family	\$540 (save \$60)

Alumni Awards

Four honored at Homecoming

Four alumni were recognized for their achievements at a special awards ceremony and reception on Friday evening, October 5 as part of Homecoming festivities.

Charlie Nickel '92 BS, '96 MA received the Outstanding Young Alumnus Award. Charlie works as a financial consultant for Merrill Lynch. He is active in the Green Bay community and his church, and he volunteers for local civic and charitable organizations. He has been a guest speaker in NMU classes and supports Northern athletic and theater programs. He is an enthusiastic outdoorsman and considers NMU his home away from home.

This year, **Tom Moilanen**, who attended Northern from 1963-1965, received the Alumni Service Award. Tom has supported the university in many ways, most significantly as a dedicated volunteer in the Detroit area. He was involved with annual alumni gatherings there for many years and participated in numerous golf outings to benefit Northern.

Two individuals received the Distinguished Alumni Award for their outstanding professional achievements. This is the first year that this honor was given at Homecoming. In previous years, it was bestowed at Mid-year Commencement.

Dr. Irma Hamilton '71 BA has been a teacher or administrator for 30 years. She has been nationally spotlighted for her achievements at Renaissance High School in Detroit, where she has served as principal since 1993. Dr. Hamilton was featured in *ACT* magazine for having the highest ACT scores of any predominately African American urban high school in the country.

William Keskey's '62 BS first job after graduation was teaching math and science in the Warren Consolidated School District. In 1964, he began a new career as a chemist for the Dow Chemical Company in Midland, Michigan. An expert in the field of emulsion polymers (latex), he developed commercial products used in such items as paint, paper coatings, ceiling tile, and composite flooring. He was issued 13 U.S. patents during his career. Now retired, Bill is an avid woodcarver, enjoys hunting, gardening, fishing, and traveling.

If you would like to nominate an individual for consideration for any of these awards, please contact the Alumni Association toll free at 1-877-GRAD-NMU or by e-mail at alumni@nmu.edu.



Charlie Nickel



Tom Moilanen



Irma Hamilton



William Keskey

LOST ALUMNI

You have helped us find dozens of alumni we have lost track of. How about trying your hand at this list?

Tina Ala '55 BS
Edgar W. Holmgren '55
Carl Vernon Erickson '58 BS
Joseph H. Dahlstrom '59 BS
James W. Gooch '66 MA
Ronald C. Cotton '67 BS
Catherine Ann Hoenig '69 BS
Roy F. Jacobson '69 BS
Bonnie Diane Budd '70 BS
Rane K. Thompson '97 BFA

Call toll free 1-877-GRAD-NMU or e-mail the alumni association at alumni@nmu.edu.

LIFETIME MEMBERS

We proudly welcome the newest lifetime members of the Alumni Association.

Kathryn Davis Messerich '79 BSN
Scott A. Markstrom '93 BS
Troy Huggett '92 BS
John M. Showalter Jr. '76 BS
Raymond '88 BS and Christine '90 BS Bowerson
Grant '96 BS & Heidi '94 BS Seaman
Gregory Rathje '95 BS
Peter '93 BS & Nikole '95 BS Drever III
Richard '88 BS '90 MS and Sue '90 BS Popp
Merry Jo Brandimore '73, BS '77 MA
Kathleen Stout '71 BS
Amy Wiljanen '91 BS
Gary Altobello '74 BS
Jon Rasmussen '80 BA
Charles Nickel '92 BS, '96 MA
John Frick '82 BS, '87 MA
Jeremiah Kelly '00 BS
David Mattson '72 BS
Lyman Echola '94 BS
Bill '97 BS & Lyn DeGroot Joseph '76 BS, MBA and Denise '77 BS, '83 MA Huss
Lora Bruder '74 BS
Jean '75 BS and Michael Horvath

Five inducted into Sports Hall of Fame

The National Football League, U.S. Marines Corps., high school coaches, teachers and school administrators, and the computer and manufacturing industries were all represented when Northern Michigan University inducted the Class of 2001 into its Sports Hall of Fame in September.

Former Wildcat football players **Stuart Betts '76 BS**, **Robert Stefanski '84 BS**, and **Jerry Woods '89 BS**; men's basketball player **Tim Bullock '65 BS**; and dual sport athlete (track and football) **Pierce Roberts '53 BS** were honored.

Betts and Woods are former NFL players. Betts, a native of Green Bay and a current resident of Seymour, Wis., was originally drafted by the New England Patriots and later signed with the Dallas Cowboys. Following his playing days, he began a 20-year career with the Marines as a naval aviator, Cobra pilot, and weapons instructor. He received numerous decorations during his career, including two Humanitarian Service Medals and two Navy Commendation Medals. The retired Lieutenant Colonel now teaches industrial technology at Seymour Community High School. As a Wildcat, Betts was a three-year letterman and most valuable player of the 1974 squad.

Woods, a native of Racine, Wis., and a current resident of Brooklyn Center, Minn., was drafted by the Detroit Lions and saw action there and with the Green Bay Packers. He also did stints in the World, Arena, and Canadian football leagues. At NMU, Woods was a two-time, first-team Kodak All-American and the 1986 MVP. He led the squad in punt, kickoff, and interception returns in 1986, '87, and '88. Woods still holds the Wildcat record for career kickoff return yards. Today, he is a mechanical designer at Cummins Inc. in Minneapolis.

Stefanski, a native of Grand Blanc, Mich., also had an illustrious football career

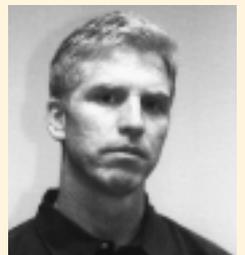
at Northern. The three-time letterman served as a captain of the 1984 squad. He led the 'Cats in pass receiving and touchdowns in 1983 and '84, and in scoring in '84. His NMU record of 22 career touchdowns still stands. In 1983, Stefanski was the first Academic All-America football player in Northern history to be elected to the first team. Stefanski completed his master's degree in engineering and law degree at the University of Michigan. A resident of Palo Alto, Calif., Stefanski is currently the executive vice president, general counsel, and corporate secretary for software company TIBCO Inc.

Roberts, a native of Calumet and current resident of Battle Creek, Mich., earned two letters on the gridiron and four as a member of the Wildcat track team. He co-captained the 1952 track squad. After graduation, he served in the military, then returned to Northern for a teaching certificate, during which time he worked with the football coaching staff as a graduate assistant. Later, he went on to earn a master's in biology from the University of Michigan. Roberts enjoyed a 26-year career as a teacher and coach at Battle Creek High School. He is a member of the Michigan High School Football Coaches Hall of Fame and in 1984 was named the Michigan Social Studies Teacher of the Year.

Like Roberts, Bullock was a stellar prep coach. The Marquette native and current resident of Sault Ste. Marie was the boys' basketball coach at Sault Ste. Marie High School for 27 years. He was named the Upper Peninsula Coach of the Year in 1983 and 1987, and the Class B State Coach of the Year in 1983. As a Wildcat, Bullock earned four hoops letters as a guard. In 1964-65, he was the team's co-captain. That team led the nation in scoring. Two of the NMU teams he played on won N.A.I.A. District 23 championship crowns. He played in 96 career games and scored 706 points.



Stuart Betts



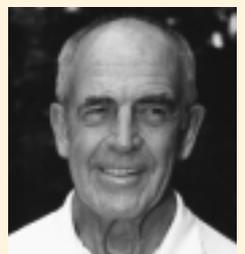
Robert Stefanski



Jerry Woods



Tim Bullock



Pierce Roberts

Alumni challenge

Northern alumni, you have been challenged...

To do what? Make a difference at NMU through *This Decisive Season: The Campaign for Northern Michigan University*.

Who has made the challenge? **David Haynes '72 BS** and **Janet (Soderberg) Haynes '68 BA, '72 BS; Gil Ziegler '60 BS; and Pat Lentell '72 BS**. These four have used creativity, humor, vision, and a little bit of competition to dream up two innovative campaign projects: the Baby Grand Scholarship and the NMU Alumni Association Endowment Fund.

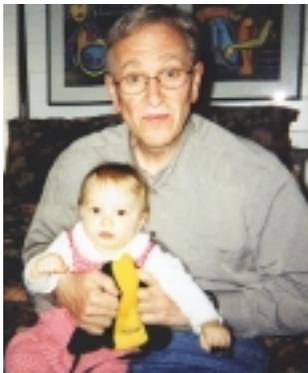
"Many of us owe so much to NMU," said Lentell. "I think it's an honor to help it grow and prosper."

The Baby Grand Scholarship

The scholarship does not have anything to do with playing a piano, according to Ziegler — although he added that it is possible the recipient may be a music major.

The Baby Grand is actually about "grandbabies," said Ziegler, former chair of the NMU Board of Control and president of Alken Ziegler Inc. of Kalkaska, Mich.

"Both my daughter and [David] Haynes' daughter were expecting babies around the same time. Leave it to the grandfathers to turn having babies into a contest, but jokingly we



David Haynes spends some quality time with his granddaughter, Eva.

bet that whichever one of us had the bigger grandchild would contribute \$1,000 to a scholarship," Ziegler said.

"Somewhere in all the joking we turned to each other and said, 'Hey, that's a great idea. Let's challenge all NMU alumni to honor their grandchildren by making a donation to a scholarship.'"

Currently five grandbabies — the Haynes' grandchild and Ziegler's four grandchildren — help each year to financially assist an NMU student who is a single parent with school-aged children or a non-traditional student with school-aged children.

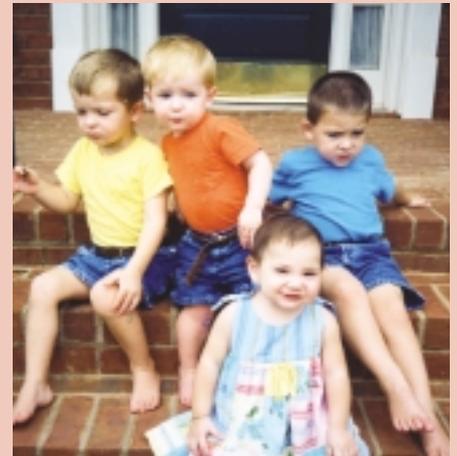
"We would love to see 100 alumni take up this challenge to both help a Northern student while doing a little grandparent bragging — two things that are sure to make a person feel good," said David Haynes, a partner with Public Affairs Associates, a governmental lobbying agency in Lansing. Janet is a probate judge in Kent County and a member of the NMU Development Board of Trustees.

Alumni Association Endowment Fund

Lentell was flying from Marquette to Chicago last September after attending his first meeting as a member of the NMU Alumni Association Board of Directors when he was hit with the idea for an Alumni Association Endowment.

The mission of such an endowment, said Lentell, is to help the Alumni Association enhance its programs and services to graduates and friends of NMU as well as current students.

"One of my goals as a board member is to help expand the awareness of



Gil Ziegler's grandchildren (clockwise from top left): Matthew James Robertson, Conner Ziegler Robertson, Hunter Patrick McHugh, and Emily Susan Michelle McHugh.

the quality of the school with all the people I have contact with," said Lentell, vice president of investments with Paine Webber in Sandwich, Mass.

According to Martha Van Der Kamp, executive director of the Alumni Association, funds from the endowment may be used for such things as new program development, alumni-student recruitment efforts, hosting alumni speakers on campus, chapter development, *Horizons* magazine enhancement, alumni career services, and other projects approved by the Alumni Association Board.

At its May meeting, the board challenged the attending members to make a contribution to the fund before they adjourned.

"That moment reminded us that if we each give a little, as a group, we can do a lot," Alumni Association President Susi Dahlke said as she reported the results of the collection, which came to a gift of \$2,035 from 15 board members.

If you are a Northern alumnus/alumna who wants to rise to either challenge, please contact the NMU development office through mail at 1401 Presque Isle, Marquette, MI 49855, by e-mail at devfund@nmu.edu, or by phone at 906-227-2676. You can also make an on-line gift to either project at www.nmu.edu/development.

Pre-1960s

“ *I do believe I am the oldest principal in the world. '85' – wow. All thanks to my education at Northern State Teacher's College.* ”

JOSEPH “JOE” KONWINSKI '37 BA

Joe Konwinski '37 BA of Lake Worth, Fla., was named honorary principal for a year at The Barton Elementary school. His Rotary Club adopted the school for five years, and Joe was a mentor for a first grade class.

Earl Messner '40 BS of Nokomis, Fla., received the Good Neighbor Award from the Lake Village Homeowners Association. He served as president twice and held many other board positions.

Melvin Holli '57 BS of River Forest, Ill., will have his biography appear in *Who's Who in America* in 2002.

Augustine Momiyama '58 BS, '60 MA of Tokyo, Japan, is a senior linguist at Defense Attaché, United States Embassy in Tokyo. He served as an Army social worker for 23 years, did a combat tour in Vietnam, and retired in 1985 as a lieutenant colonel. momiyama@hpo.net

Duane Vandenbusche '59 BS began his 40th year as a professor of history at Western State College in Gunnison, Colo., this fall. He coaches the men's and women's cross country teams, and last year both of his teams won the NCAA II championship.

Bruce Mihelich '63 BS and **Barbara (Carollo) Mihelich '62 BS** of La Mirada, Calif., are celebrating 25 years of owning their own business, Fuller Truck Accessories in Fullerton, Calif.

L.E. Ward '66 BA, '67 MA of Iron River published *The Land Within*, the fourth volume of his Collected Poem series.

Judy (White) Warner '67 BS, '70 MA of Marquette retired from teaching elemen-

tary school. She taught for two years in Lincoln Park and Taylor, two years in Monterrey, N.L. Mexico, and for 29 years in Marquette.

Barry Axelrod '69 BA of Deerfield, Ill., is president of the Illinois Mortgage Bankers Association. **Jay Johnson '65 BA** of Falls Church, Va., gave him the oath of office.

70s

Edward Langin '70 BS of Green Bay, Wis., was named teacher of the year at Luxemburg-Casco Middle School for the 1999-2000 school year. He is a technological education instructor at the middle school.

George Black '72 BS of Swartz Creek retired from 28 years of teaching the Title 1 program in Bellevue, Mich., where he was the reading/math coordinator.

William Karstenson Jr. '72 BA of Palatine, Ill., was ordained to the permanent Diaconate of the Catholic Church, serving the Arch Diocese of Chicago. He will be serving the parish of St. Thomas of Villanova, Palatine, Ill., for the next four years. He is president of Successful Planning Strategies. william_t_karstensonjr@yahoo.com

Tom Schwab '72 BS, '74 MA of Buffalo Grove, Ill., is the head swimming and diving coach at Wheeling High School. For the past eight years, he has coached and managed the Warren's girl softball league, which has grown from 180 to more than 500 girls. He also coached the 17-18 year-old fast pitch softball team, which went to the national Softball

World Series. He was an All-American in 1970 and 1971 on the NMU men's swimming team.

tscwab@dist214.k12.il.us

Randy Ford '73 BS of Saginaw is self-employed as a consultant. RFORD17@FORD.com

Nancy Lee Carlson '74 BS of Iverness, Ill., was elected to a four-year term with Illinois School District 15, which serves approximately 13,000 students in Iverness, Palatine, Rolling Meadows, and Hoffman Estates, Ill. She is self-employed as an attorney. nancyleecarlson@email.msn.com

Karl Salscheider '74 BS, '78 MA of Bemidji, Minn., was the 1999 Minnesota Association for Health, Physical Education, Recreation, and Dance health educator of the year. He was president of the organization in 2001. Last year, he was promoted to full professor at Bemidji State University.

Larry Inman '75 BS of Traverse City is the vice president of corporate banking at Huntington National Bank. He is also county commissioner for Grand Traverse County.

Tom Roy '75 BS of Marquette is co-president of Sweet and Salty, a cotton candy and popcorn vending business.

Jon Montney '77 BS of Seffner, Fla., retired from the United States Air Force in 1991 and went back to school for his master of business administration degree. He is currently an insurance specialist with USAA.

Frida Waara '77 BA of Marquette is co-owner of a video production company in Marquette. oncue@chartermi.net

Diane (Taccolini) Salko '78 BS of Fort Myers, Fla., is assistant principal at Villas Elementary South Zone Magnet in Lee County. DianeSa@lee.k12.fl.us

Gregg St. John '84 BS of Marquette was selected by the Marquette County Law Enforcement Administrators Association

“ On April 24, 2001, at 4 a.m., I reached the North Pole on skis as part of the first all-female expedition to the North Pole from Russia. ”

FRIDA WAARA '77 BA

as Marquette County Police Officer of the Year. He is a detective with the Marquette City Police Department.

Anthony Dallaguarda '79 BS of Iron Mountain is a probation/parole agent for the Department of Corrections in Iron Mountain.

Katherine (Davis) Miller '79 BS of Vadnais Heights, Minn., was promoted to vice president and corporate controller at Deluxe Corporation.
Kathy.miller@deluxe.com

80s

Marius “Gabe” DeGabriele '80 BS of Grand Junction, Colo., keynoted the National Conference on The Adult Learner in New Orleans, where he spoke about trends in the education of non-traditional students, the issues and obstacles they face, and how institutions are re-thinking their model of non-traditional education. He is assistant director of Admissions and Records at Mesa State College and president/executive director of the Association for Non-traditional Students in Higher Education.
gabe@mesastate.edu

Rico Tomasi '83 BS of Neenah, Wis., is director of engineering at Plexus NPI Plus in Appleton.

Cheryl (Niemi) Bradish '82 BS of Poway, Calif., received a doctorate in clinical psychology from the California School of Professional Psychology in San Diego. She currently is in private practice for independent, couples, and group psychotherapy in Escondido, Calif. She is the daughter of Dr. Alfred O. Niemi of Marquette, professor emeritus, and the late Shirley Niemi.

David Forsberg '82 BS of Lansing has launched Forsberg Golenda, a lobbying, public relations and political consulting company. David, a Marquette native, formerly worked as a print and broadcast journalist and then as a staff member of the Michigan House of Representatives. Dcforsberg@aol.com

Paul Bohjanen '85 BS of Woodbury, Minn., just completed his infectious diseases training at Duke University Medical Center. He is now certified in Internal Medicine and Infectious Diseases by the American Board of Internal Medicine. He is an assistant professor of microbiology and medicine at the University of Minnesota Academic Health Center, where he teaches medical and graduate students, performs research on the immune system, and takes care of patients with infectious diseases. Bohja001@umn.edu

Kirk McCrea '85 BS, '86 AT of Ann Arbor has a faculty research position in pediatric infectious diseases at the University of Michigan. kirkmccrea@hotmail.com

John Truitt '85 BS of Lake Forest, Ill., is a news cameraman for CBS in Chicago. His wife **Jennifer (Beswick) Truitt '85 BA** is the news director of WZZN-FM ABC radio in Chicago. She co-hosts the morning show with Kevin Matthews on FM 94.7. johtruitt@aol.com

Dennis Baldinelli '87 BS of Kingsford is a councilman for the City of Kingsford and a member of the Dickinson County reapportionment committee.

Eric Johnson '87 BS of Kennebunk, Maine, is a chemistry teacher at Kennebunk High School.

James Orth '87 BS of Lapeer has been a

volunteer firefighter for the City of Lapeer for ten years and a Michigan State Certified Fire Fighting instructor for eight years. He currently is vice president of the Tuscola County Fire Instructors Association. He also teaches in Huron and Lapeer counties. He and his wife **Colleen (Davis) Orth '90 AB** have one child named Gregory.

Michael Schopieray '88 BS of Columbus, Ohio, recently accepted the position of associate director of housing and residence life at NMU.

Bradley Miller '89 BS of Rochester, Minn., continues his fellowship in pediatric endocrinology at Mayo Clinic. He and his wife **Linda (Martin) Miller '89 BS** are proud parents of a daughter, Rebecca Anne, born April 20, 2001. Their oldest daughter Amanda is now four years old. millerbradnlinda@aol.com

Douglas Montgomery '89 BS of Dorr oversees country music radio stations in the Midwest for Clear Channel Communications in Grand Rapids. Dougmontgomery@clearchannel.com

Jim Snitgen '89 BS, '94 MS of Green Bay, Wis., is the water resources team leader for the Oneida Tribe of Indians near Green Bay. Before settling into that position, he worked as a fisheries biologist in the private sector in the Upper Peninsula, a regulatory biologist for the State of Florida, an invertebrate taxonomist identifying bugs for the EPA, and a researcher at the Lake Superior Research Institute at UW-Superior. He lives in Green Bay with his wife Kelly and their children Jacob, 5, and Autumn, 4 months.

90s

Sharon (Fousek) Kramer '92 BS of Elkridge, Md., is busy selling textbooks to colleges as a sales manager for H.M. Rowe in Baltimore. Her greatest love is being a volunteer coordinator for an organization called Project Liners. She makes sure security blankets get to ill children.

Keeping Track

Justin Bassett '93 BS of Harbor Springs is marketing director of Walstrom Marine in Harbor Springs. He enjoys the beautiful Northern Michigan outdoors and likes to dirtbike, race sailboats, snow ski, ski race, and play hockey.

Stewart Cogswell '93 BS of Porterfield, Wis., is a fishery biologist for the U.S. Fish and Wildlife Service in Green Bay. He provides technical assistance to five Native American tribes in Northeast Wisconsin.

Kris (Petrin) Feko '93 BS, '98 MA and **Dan Feko '94 BS** of Berkley had a son, Nickolas Matthew, on April 17, 2001, at Beaumont Hospital in Royal Oak.

Barbara Porter '93 BA of Los Angeles, Calif., is an actor living in Los Angeles using the stage name Porter Kelly. (Barbara Porter was already taken in the Screen Actors Guild.) She has appeared in two national commercials since moving to Los Angeles a year and a half ago from Chicago. porterkelly@hotmail.com

Stephen Toy '93 BS and his wife **Emily (Conley) Toy '97 BA** of Kingsford have both been hired to teach English and social studies at the American Community Schools of Athens, Greece. stoy@edmail.com and emilyspring@hotmail.com

Kelly Hess '94 BS of Chicago, Ill., is director of marketing at SFX Motor Sports in Aurora. The company produces and promotes motor sport events in more than 150 markets in the United States and Canada each year including Monster Jam, Supercross, Arenacross and road racing, and dirt track.

Ryan O'Rourke '94 BS of Auburn Hills is sales marketing manager for ECP Hardware in Troy. rorourke@ecph.com

Heather (Newburg) Ferguson '95 MA of Sault Ste. Marie is learning center director/coordinator of university studies at Lake Superior State University. hferguson@gw.lssu.edu

Sharon (Togstad) Minton '95 BS of

Grand Forks, N.D., was commissioned as second lieutenant with the United States Air Force and is stationed at Grand Forks Air Force Base, N.D. She is a personnel officer and was promoted to first lieutenant in July. ssminton00@aol.com

Pauline Schuette '95 BS, '98 MS of Green Bay, Wis., is a fishery biologist for the U.S. Fish and Wildlife Service at the Green Bay Fishery Resources Office. She is involved in lake trout restoration in the Great Lakes.

Christine Witt '95 BS of Rochester is a marketing communications specialist.

Erica (Ehlers) Griffin '96 BS of Franksville, Wis., graduated from Michigan State University College of Human Medicine and is now a family practice resident at Racine Family Practice.

Bonnie Krupa '97 BS of Muncie, Ind., is a residence hall director at Ball State University.

Rick Samson '98 BS of Lancaster, Ohio, is a project engineer with Precision Air in Delaware, Ohio.

Trent Ferguson '99 BS of National City is vice president of Entrecon Inc. in East Tawas. Sales@entrecon.com

Debra Harsila '99 MPA of Menominee was promoted to director of human resources at Lloyd Flanders Industries. She also oversees human resources at her company's Arkansas plant.

Barbara (Frechette) Neuens '99 BS of Vulcan works in quality control for Cable Constructors Inc. dneuens2@norwaymi.com

Joshua Riley '99 BS of Kenosha, Wis., completed 22 weeks of training at the Wisconsin State Patrol Academy and is assigned to the Kenosha Safety and Weight Enforcement Facilities. He is married to the former **Ruth LaLoggia '00 BS**. coachriley@hotmail.com

Wendy (Gibson) Rautio '99 BS of Ishpeming is the financial manager of the Upper Peninsula Association of

Rural Health Services, at their corporate office located in Marquette.

00s

Nathaniel Alwin '00 BS of Vulcan is a systems engineer at International Paper in Quinnesec.

Lisa Duma '00 BS of Grand Haven is a customer service representative with Scott Group Custom Carpets in Grand Rapids.

Jodie Filpus '00 BS of Fargo, N.D., is working on her master's degree. She is a residence hall director at North Dakota State University.

Ruth (LaLoggia) Riley '00 BS of Kenosha, Wis., is a foster care recruiter for Community Impact Programs in Kenosha. Her husband is **Joshua Riley '99 BS**. Laloggjariley@yahoo.com

Deaths

Ina Norrback '22 BS, Sept. 2000, Dollar Bay.

Kate (Jeffery) Nebel '26 LC, March 24, 2001, Marquette.

Hely Carter '29, June 19, 2001, Centerville, Ohio.

Lillian (Morrison) Henderson '31 LC, April 22, 2001, Sault Ste. Marie.

Ingrid (Kranz) Kilpela '31 LC, Feb. 5, 2001, Newberry.

William Savola '32 LC, '33 BS, Nov. 2, 2000, Marquette.

Carl Erickson '33 BA, April 19, 2001, West Bloomfield.

Dorothy Harrison '33 BS, Aug. 23, 2000, Arvada, Colo.

Lois Olson '34 BS, Jan. 13, 2000, Marquette.

Raymond Nadeau '36 AB, April 14, 2001, Maitland, Fla.

Claudia (Swanson) Nugent '38 BS, May 9, 2001, Ludington.

Joseph Poisson '40 BS, Nov. 30, 2000, Sault Ste. Marie.

A Master of Materials Science

STEVE CHUM '74 MS

When **Steve Chum '74 MS** got off the plane in Marquette, Michigan, to attend NMU in 1972, the hot, humid landscape he grew up knowing in Hong Kong had been replaced by something much different.

"When I boarded the plane in Hong Kong, the temperature was 73 degrees," Chum said. After a diversion to Green Bay and two landing attempts in Marquette, his plane finally touched down. He had arrived in the middle of a U.P. whiteout. The temperature was 40 below zero.

"It was the first time I was ever on an airplane," he said. "Needless to say, it was really stressful."

Chum's journey to NMU had begun much earlier — in the late 1960s. He was in high school, and he realized he wanted to be a chemist. At the time, Asia was still an economically depressed region, and job prospects were limited. Later, while he was attending Hong Kong Baptist College, he heard on a local newscast that Dow Chemical was building a new plant in Hong Kong.

"At that time my goal was to work for that kind of company as technician. All I wanted was a stable income and a stable life. So I asked myself, 'how can I get a stable life?'"

The answer involved attending graduate school in America, but the Test of English as a Foreign Language (TOEFL) stood in Chum's way. He needed to earn a 500 on the test but could only muster a 480. He applied to several graduate schools in the United States, but none were willing to admit him because of his test score. None, that is, except Northern.

"No school in America would accept me," said Chum. "Except NMU. Professor Jacobs [then chair of NMU's chemistry department] took a chance on me when no one else would."

The chemistry department was not disappointed by the chance they took on Chum. In fact, Chum far exceeded any expectations, proving through hard work and quick learning that graduate school was where he belonged.

Professor Jerome Roth, Chum's advisor, said, "He was one of those students who only needed to be told what to do once — a very rare breed. He did a lot of work for me for his master's degree, more than is usual."

His work at NMU allowed him to go on to Oregon



State University to continue his research and earn his doctorate. Chum eventually secured a job with Dow Chemical, the same company that had originally inspired his journey to Northern.

Today, he is one of Dow's leading research chemists. His work involves studying the properties of materials, which at Dow means plastics. Because plastics are made from oil, there has been a push to pro-

duce them using less oil. Chum and his colleagues work to understand the molecular structure of plastic so they can develop stronger, thinner plastics. For example, ten years ago garbage bags were 3 mils thick, while today they can be made .8 mils thick — a material's savings of seventy percent.

Chum was also recently appointed a research fellow at Dow — an honor that has been awarded to fewer than ten of Dow's 50,000 employees. As a fellow, Chum spends much of his time on the road, visiting customers and other Dow locations. One of his objectives as a fellow is to help develop the next generation of employees at Dow.

After twenty-one years of hard work for Dow, there are no longer questions about TOEFL scores — only accolades heaped upon one of the preeminent chemists working in the field of materials science. Among many other honors, Chum received the Outstanding Scientific Achievement award from the American Chemical Society as well as the U.S. National Inventor of the Year Award, and he was named to the 50 U.S. R&D Stars by *US Industry Week* magazine.

While Chum is happy with all of the accomplishments he has achieved in his career, the accomplishment he is most proud of is his family.

He and his wife, Isabella — whom he met and married while at NMU — have two daughters, ages 19 and 21.

Chum also gives a lot of credit for what he has accomplished in his career to NMU. He credits Roth with teaching him the chemistry that has allowed him to succeed in the materials science field. To show his appreciation, Chum established a fellowship with Roth in 1994, which gives more than three thousand dollars each year to support a graduate student assistantship in chemistry over the summer.

"Without NMU, I wouldn't be where I am today. I will always be in debt to this university for taking a chance on me."

—Karen Wallingford

Health Care on the Move

GAYLENE BARNUM '77 BSN

For Navy and Marine Corps to be successful, medical professionals must be available to address casualty situations. On battle fronts, Navy hospital corpsmen provide immediate medical response, but when sick or wounded personnel require more skilled medical care, a well-staffed hospital is a necessity.

While most hospitals are housed in buildings, the military hospital that **Gaylene Barnum '77 BSN** helps to run is a mobile tent hospital that can be set up in one day.

Navy Cmdr. Barnum is a naval reservist with Naval Reserve Fleet Hospital Great Lakes, Ill. The fleet hospital is made up of 25 medical units throughout the Midwest.

Recently Barnum and nearly 250 personnel from the medical units participated in "Kernel Blitz," the Navy's biennial, amphibious exercise, where they treated mock casualties in an amphibious assault environment.

"For this particular exercise, I served as staff nurse," Barnum said. "I was the night team leader in the specialty treatment unit, an ambulatory clinic that treats 'walking wounded,' many of whom can be treated and returned to duty. We specialize in ophthalmology, orthopedics, and we also handle the staff 'sick call.'"

Earlier this year, fleet hospital personnel and members of three Navy construction battalion units worked hand-in-hand to set up a 500-bed hospital at Marine Corps Base Camp Pendleton, Calif. — approximately 45 miles north of San Diego. The hospital included surgical wards, a pharmacy, and emergency rooms, which provided a realistic training environment for fleet hospital doctors, dentists, nurses, hospital corpsmen, and dental



technicians.

"Exercises like this attempt to simulate the environment we would work in if we were mobilized to provide medical support during times of war or other international conflicts," Barnum said.

In addition to exercising the skills of fleet hospital personnel, Kernel Blitz afforded sailors on board ships of the U.S. 3rd Fleet of Marines of the 1st Marine Expeditionary Brigade to practice Marine expeditionary, brigade-sized operations. Exercises of this nature are considered among the most complex of naval maneuvers, and the United States is the only nation currently capable of maintaining brigade-level amphibious assault capabilities.

With this in mind, Barnum understands the vital role that she and other fleet hospital personnel play in the Navy's level of operational readiness.

"We provide medical care for Navy and Marine Corps personnel, as well as support for other U.S. military personnel and oftentimes allied troops," said Barnum, a 16-year Navy veteran.

In addition to participants from the United States, personnel representing Canada, Great Britain, and Australia contributed to the success of Kernel Blitz. Overall, more than 15,000 personnel, manning 25 ships, 75 aircraft, and various ground facilities, received training that may one day provide valuable insights to tackling real-world events such as those experienced in Kosovo, Haiti, and during the Gulf War.

—Story courtesy of U.S. Navy Public Affairs

Photo by Sarah Womack

Clyde Bucklin '41 BA Feb. 28, 2001,
Marquette.

Margaret (Kepler) Genore '42 BS, April
21, 2001, Marquette.

Bonnie (Porter) Rogers '43 BS, Feb. 4,
2001, Sault Ste. Marie.

Zita (Liberatae) Wright '44 BS, April 4,
2001, DeCatur.

Wallace McNeil '49 BS, July 11, 2000,
Sun City West, Ariz.

Jack Laird '50 BA, May 14, 2001, Oak
Lawn, Ill.

John McCabe '50 BS, Oct. 3, 2000,
Marquette.

James Webber '50 BS, July 14, 2000,
Ontonagon.

Bernard Brawley '51 BS, March 7, 2001,
Escanaba.

Shirley (Dailey) Lammi '51 BA, March
7, 2001, Chatham.

Howard Steward II '52 BS, '67 MA,
May 22, 2001, Shingleton.

Robert Robichaud '57 BS, March 3,
2001, Tucson, Ariz.

Emma (Dorow) Raboin '58 BS, June 4,
2001, Daggett.

Alice (Ikola) Simonen '60 BS, Feb. 11,
2001, Munising.

C. Arthur Hietala '62 BA, March 10,
2001, Chassell.

Ronald Clements '63 BS, March 4, Iron
Mountain.

Violet (Nordgren) Strohl '64 BS, Feb.
15, 2001, Daggett.

Lauri Maki Sr. '65 MA, March 5, 2001,
Wakefield.

William McClutchey '65 BS, Feb. 10,
2001, Petoskey.

Major Michael Johnson '67 BA, '68 MA,
Feb. 15, 2001, Cadillac.

Marilyn (Johnson) DeRocher '68 BS,
Feb. 2, 2001, Manistique.

Sherlyn Fleming '70 BS, Feb. 7, 2001,
Detroit.

Wildcat Wedding

In the last issue of Horizons, we asked you to send us your marriage proposal stories. Here is Jean (Ross) Guzowski's '79 BS story:

Four years ago this September, my siblings and I gave a 50th wedding anniversary party for my parents. It was held in Iron River, as they had recently retired and moved back to the U.P.

Many people whom I hadn't seen in years were attending the party. As I mingled and reintroduced myself to those who had not seen me since I was a child, I was approached by a couple sitting near the head table. The lady looked familiar, but I was not sure who they were. She introduced herself and began to ask me a few questions about my life. She knew that I had lived in Madison, Wisconsin, for a number of years and casually mentioned their son had just moved to the area.

I was polite, and said "that's nice." She then asked if I could give him a call sometime, as he didn't know anyone in the area except for the people he worked with. Being the "old fashioned" girl I am, I gave her my business card and said, "why don't you have him call me." I did not know who this person was.

Two months later, I received an e-mail with an introduction from John and an invitation to attend his company Christmas party. At first I thought, no way, but upon reflection, I thought, why not — it would be a good way to meet someone new. What would be the worst that could happen?

I e-mailed him and said we should meet for coffee beforehand (he didn't know who I was either). We met at a local coffee-bagel shop the Saturday before the party and agreed to meet back there the next Saturday to leave for the party.

We attended the party as a "first date." (That's another story!)

We started seeing each other from that point on. It was like we had always known each other. Our ties to the Upper Peninsula and the Iron River area gave us a foundation for conversation and friendship.

On December 3, 2000, John Guzowski asked me to marry him at the same coffee shop where we first met. He didn't get down on one knee, but he remembered it was the first place we met. I think I cried in my cappuccino!

We were married on June 2, 2001, in Iron River, Michigan, our home town.

Not only was his mother the "matchmaker," but the reason she was at my parents party is because she was an attendant in my mother and father's wedding. I had looked at that picture hundreds of times — I knew she looked familiar. Now she is my mother-in-law. Only one fly in the ointment, though. John is a Michigan Tech grad. Oh well!

Would you like to share your marriage proposal story with us? If so, send your story, along with a wedding photo and we might include it in a future issue of Horizons. Send your submission to Horizons editor, Northern Michigan University, 1401 Presque Isle Avenue, Marquette, Michigan 49855, or e-mail to horizons@nmu.edu. Submissions may be edited for space and clarity.



Keeping Track

Diane Fugiel '70 BS, Port Huron.

Anita Pitzer '71 MA, Nov. 18, 2000, Mehlville, Mo.

James Iger '73 BS, Dec. 6, 2000, Springfield, Mo.

Edwin Hill '75 BS, Marquette.

Jeanine (Nordman) Petschke '75 MA, Feb. 12, 2001, Quinnesec.

Coleen (McCrellias) DeSpelder '76 BS, May 17, 2001, Bellaire.

Rodney 'Rod' Koehler '80 BS, April 10, 2001, Appleton.

Mary Ann Zenti '81 BS, '85 BSN, Oct. 3, 2000, Marquette.

Greg Schenk '83 BS, Commerce Township.

John Shafer '83 BS, April 10, 2001, Marquette.

Daren Alli '85 BS, May 23, 2001, Oakland County.

Cory Wanic '96 Cert., Bark River.

Blair Swanson '97 BS, June 25, 2001, Chattanooga, Tenn.

Friends

Lemi "Micky" Drake, April 1, 2001, employee in the Food Service Department at NMU.

Alyce Gadomski, March 21, 2001, Ishpeming, was an accountant book-keeper at NMU.

Dave Goldsmith, July 17, 2001, Marquette, professor in the English department and host of WNMU-TV's *High School Bowl*.

Delphine Selma Lolita Johnson, June 4, 2001, Marquette, banquet supervisor at NMU for 25 years.

Barbara Kalbfleisch, March 10, 2001, Marquette, employee in the Food Service Department.

Marriages

Cheryl Lisa Schultz '87 BS to Mark Slupecki.

David Poirier '89 BFA to Leanne Riis.

Yvonne Kytola '90 Voc. to Allan Barry.

Chuck Whelpley '90 BS to Debbie Corcoran.

Carrie Hane '93 BA to Bill Dennison.

Robert Morin Jr. '93 BS to Wendy Jamula '95 BS.

Lori Cochart '95 BS to Christopher Waara.

Heather Newburg '95 MA to Jason Ferguson.

Robin Pawley '95 BS to Del Ingalls.

Scott Ayotte '96 AT, '99 BS to Laura Carlyon '00 BSN.

Erica Ehlers '96 BS to Andrew Griffin.

Tammy Senatori '96 BS to Chad Peterson.

Sara Creech '97 AB to William Lautner.

Crystal Magnuson '97 Cert. to Bradley MacLachlan.

Thomas Passinault '97 AS to Lisa Galesk.

Kathleen Amsbury '98 BS to Tony Beck '00 BS.

Angela Luokkala '99 AB to Anthony Vidlund.

Joshua Riley '99 BS to Ruth LaLoggia '00 BS.

Kris Kranz '01 BS to Rebecca Weber.

Julia Marsh '01 BS to John Hoving.

Moving? Promoted? Change Careers? Personal Updates? Exciting News?
TELL US SO WE CAN PUT IT IN 'KEEPING TRACK'
(and update our records)

Stay in touch with your alma mater! Tell us what's new in your life. (Attach a separate page if you have a lot to say or don't want to write this small.) Include a recent photo if you have one — we may be able to use it in *Horizons*.

Name: _____
Last First M.I. Maiden

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Year of Graduation: _____ **Major:** _____

Home Phone: _____

Business Name: _____

Business Phone: _____

Occupation: _____

Business Address: _____

City/State/Zip: _____

E-mail address: _____

Send to Alumni Office, Northern Michigan University, 1401 Presque Isle Avenue, Marquette, MI 49855, e-mail to horizons@nmu.edu, or send via NMU's WWW page: www.nmu.edu/alumni.

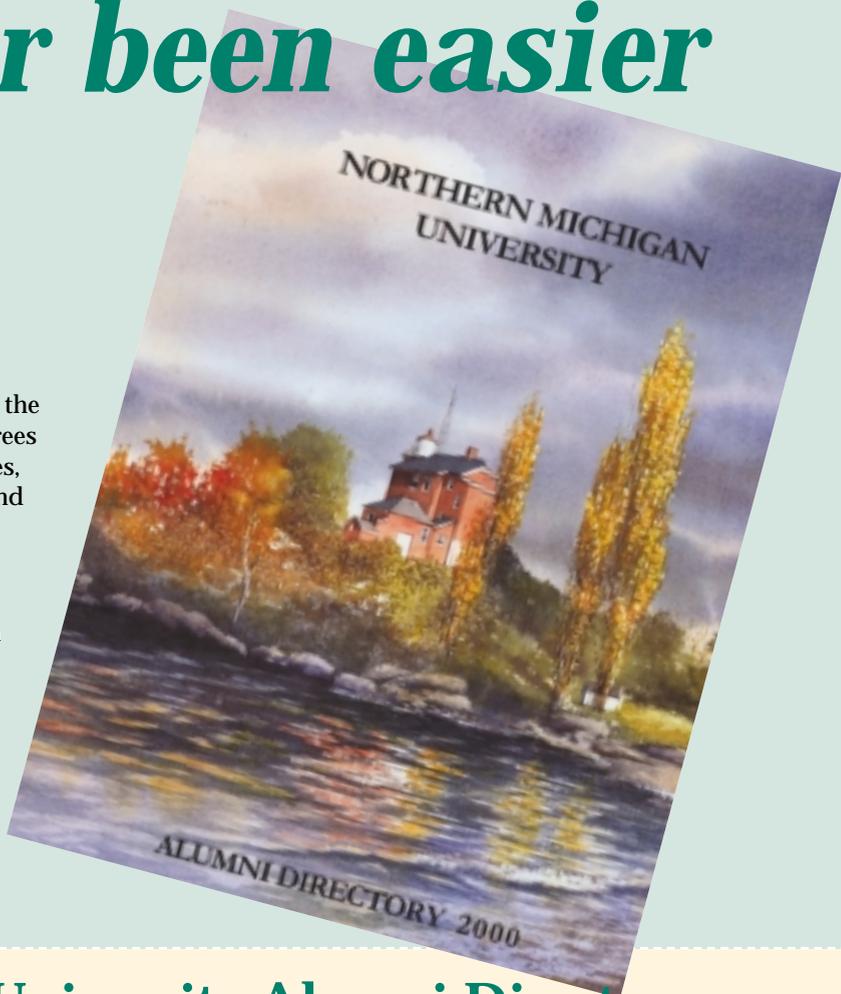
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Why we're members of the NMU Alumni Association.

**Paul Stieber '94 BA, '96 MA, Sierra McLeod Bishop '98 BS,
Dave Bonsall '73 BA, Greg Rathje '95 BA,
and Wayne Rodriguez '00 BA**

Staying connected through Alumni Association membership.



This summer, the Student Leader Fellowship program had a reunion to celebrate its tenth anniversary. During their celebration, we asked alumni of the program why they are members of the NMU Alumni Association. Here's what they had to say:

"Membership is just the easiest way to say thank you and to support Northern."

—Paul Stieber '94 BA, '96 MA.

"It's great to hear what's going on and keep up with what friends are doing."

—Sierra McLeod Bishop '98 BS

"I maintain my membership because I met some great people and made some wonderful friendships during my years as a student at Northern. Being in the Alumni Association helps me to keep up with

what's going in their lives. Since becoming a staff member, I've had the privilege of working with hundreds of students. Again, the Alumni Association keeps me informed of developments in their lives and careers. And being a member is one small way of supporting a university that has been very good to me."

—Dave Bonsall '73 BS

"Joining the NMU Alumni Association allows me to remain a part of Northern's family. I cherish my time at NMU and I want to stay connected. A lifetime membership in the Association is the perfect way for me!"

—Greg Rathje '95 BA

"It's a nice way to stay in touch after recently graduating and a good way to keep from losing touch with what's going on at Northern."

—Wayne Rodriguez '00 BA