



FOREST RESOURCES & ENVIRONMENTAL SCIENCE

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MichiganTech

Greetings from Houghton

Worst Camp Experiences

In our last issue, I gave you some of the pros and cons of sending this newsletter via email or continuing to mail it to you at your home or business. Judging from the responses I received to the pressing query, "To mail or email? Now that's a question," it was unanimous. "Keep mailing the newsletter!" you said. Although the sample method and results analysis were far from scientifically sound, there was not one dissenting vote. No one advocated for this newsletter to go electronic.

In fact, all the comments included some form of this phrase: "It's too easy to hit the delete key." Here are some of the other comments I received: "I like being able to take it with me and show it to other people," "A printed copy of the newsletter delivered to my home allows me to look at it at my leisure," and "Seeing it on my desk makes me smile."

With the results of this highly accurate survey, we will continue to mail you your copy and we will begin to post a copy to our website too. Check out new alumni comments about this topic and others at www.forest.mtu.edu/alumni.

We would love to hear from you. How about entering our next T-shirt contest? An alumnus suggested, "Worst Camp Experience." It's simple—send in your story of your worst camp experience and your T-shirt size. If your story makes the newsletter, you'll win a School of Forest Resources and Environmental Science T-Shirt or baseball hat, if you prefer. So send in your story and maybe I'll share mine...I think the statute of limitations has expired...

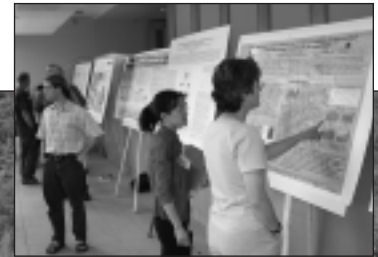
—Carrie Richards '84

North American Forest Biology Workshop—A big Success!

July in the Copper Country provided a great setting for more than 140 scientists to visit the Keweenaw for the eighteenth North American Forest Biology Workshop, hosted by the School of Forest Resources and Environmental Science and sponsored by the Society of American Foresters.

Meeting participants and contributors discussed the latest scientific research on forest management and ecology in a series of plenary sessions, oral presentations, contributed papers and poster sessions. Those in attendance also learned about the geomorphology and history of the Copper Country during a field trip to the Keweenaw Peninsula.

According to John King, assistant professor and chief organizer, "The workshop attracted a great audience because the school is so well positioned as a leader in forest science research on some of today's most pressing ecological issues. The wonderful contributions of our distinguished invited speakers and meeting participants made the meeting a great success." Many colleagues commented on how fortunate we are to have such world-class scientists and research infrastructure in the beautiful forested landscape of the Upper Peninsula. ■



MTU professor Dr. Larry Lankton explaining the history and utilization of wood products of the Cliff Mine, which operated from 1845 to 1895. Inset: Graduate student Lingli Liu explaining her PhD research to a visiting scientist.

Entomologist Tracks Emerald Ash Borer Invasion

If emerald ash borers had to come to the U.P. under their own power, the tree-killing insects might never make it north of Traverse City. However, since people are spreading them throughout the state, assistant professor and entomologist **Andrew Storer** has launched an effort to find out where they may be taking hold.

The iridescent green beetles, which are devastating the ash tree population in southeastern Michigan, aren't strong fliers and can't travel more than a couple of miles in their lifetime. Thus, a six-mile-wide ash-free zone surrounding infested areas is being planned in an attempt to quarantine the exotic pests, says Storer.

The beetles lay eggs on the bark, and their larvae tunnel underneath, eating the living portion of the bark and outer layer of wood. Eventually, the tree dies.

In Michigan, the borers have a chance to expand their range whenever anyone hauls infested firewood to an area that contains ash trees.

Storer cringes when he sees a pick-up truck load of wood traveling north from downstate. "Nothing good happens when you move firewood around," he says.

To determine how far the beetles have spread, Storer is leading a USDA Forest Service-funded program to set up trap trees throughout lower Michigan. ■

Message from the Dean



Peg Gale '77

Dear alumni and friends—As we move into a new academic year, the School of Forest Resources and Environmental Sciences (SFRES), along with Michigan Tech, is on the threshold of some very exciting times. The faculty, staff, and students accomplished many things in the past year:

- ▶ We have added a degree in Wildlife Ecology and Management. This new degree expands our offering of Forestry and Applied Ecology & Environmental Sciences (AEES) to three undergraduate degrees.
- ▶ We have added four “spin-off” Masters degree programs: Master of Forestry, Master of Science in Forest Ecology and Management, Master of Science in Applied Ecology, and Master of Science in Forest Molecular Genetics and Biotechnology. These four degrees expand our offerings (MS in Forestry, PhD in Forest Science, and PhD in Forest Molecular Genetics and Biotechnology) to seven graduate degrees.
- ▶ We have added a new faculty member and graduated 33 students with BS degrees (15 in Forestry and 17 in AEES), 11 MS students, and 2 PhD students. At least 90 percent of these graduates have found jobs and are beginning their career path.
- ▶ We have achieved significant levels in our research and scholarly efforts with research expenditures exceeding \$6 million in the past year and more than 75 new publications.



Members of the Class of 1954 met for dinner and some storytelling during reunion events in August (left to right) Ken Holmes, Walter Cook, Gunther Frankenstein and Jack Lockwood

- ▶ We increased our undergraduate enrollment from 117 students in fall 2003 to 132 students this fall 2004; we also increased our graduate enrollment from 83 students in fall 2003 to 86 students in fall 2004.
- ▶ We continue to offer an exceptionally, high-quality educational experience to our students. Our students

are our pride! The efforts we put into improving the courses we offer, how they are taught, and how we integrate this knowledge into the excitement for their professions is continually evaluated.

We are setting new goals, aspiring to achieve more than the past year, making new connections with alumni and friends, and reconnecting with alumni and friends of the school whom we haven't seen or heard from in a while. This past summer we celebrated the anniversary of the donation of the Ford Forestry Center to the school and Michigan Tech from the Ford Motor Company; it was a wonderful event honoring past individuals connected to the Center and to the school.

At the celebration, **Roger Rogge**, past manager of the Center, reminded us of the history of the Center and the Upper Peninsula. It was a joy to hear Henry Ford's vision of a self-sustaining community revolving around forests and how other individuals connected to the school carried on this vision.

We also honored the graduating class of 1954 and had a chance to meet some of the wonderful individuals from this class. They had many stories about their time at Tech and about their careers and adventures, not always in the forestry profession. (See picture at left.)

When I hear these accounts, I am often reminded of what Helen Keller said, “Life is either a daring adventure, or nothing.” I think you all are living this adventure and we are truly committed to providing our students with this daring adventure, not only in their education but also in the creation of a view toward the future that embellishes the richness of their educational experience and what their degree can accomplish for them.

We have a large adventuresome family—thanks for being part of this family. If you want to know more about what we are doing here at the school please visit our website at www.forest.mtu.edu and if you want to share your adventures email me (mrgale@mtu.edu) or call me (906-487-2352); I would love to hear from you. I wish you all the best for the coming year. ■

Underground Lab to Reveal the Secret Life of Trees

By this time next year, the USDA Forest Service Forest Science Lab at Michigan Tech will have dug two long tunnels into the nearby woods, providing a mole's-eye view of this underground world.

“The vision will be analogous to an ocean-going vessel,” said **Alex Friend**, project leader at the North Central Research Station. “We can study below-ground processes in situ, where they happen, in as natural an environment as possible.”

The eight-foot tunnels, each 75 feet long, will be dotted with a mosaic of windows pressed against the surrounding soil. “You will be able to take a window off and watch what happens,” Friend said. “The facility gives you the ability to study the roots of big trees, which is hard to do from the surface without significant disturbance.”

The tunnels will be among a tiny number of such facilities worldwide, said Professor **Kurt Pregitzer**, whose research focuses on underground processes. “And the fact that it's right on campus and connected to the forest service building will enable easy access at all times of the year,” he said. “You'll be able to walk out of the building and into the soil in the middle of winter.”

Pregitzer called the new facility “a great development for our campus. This is a very cool opportunity, and it will really distinguish us.” ■

Underwater Robot Explores Lake Superior and Isle Royale National Park



The Isle Royale Institute (IRI), a partnership between the National Park Service (NPS), Michigan Technological University and University of Minnesota-Duluth, has started underwater research involving a small robot. The Institute's new research effort involves a small robot referred to as a Remotely Operated Vehicle or ROV.

The ROV is able to explore to a depth of 500 feet. It has two TV cameras, lights, and a small arm. It weighs about 12 pounds and is controlled by a cable from the the surface, where it is operated from a boat or from shore. IRI is using its ROV to support a number of Michigan Tech researchers, involve the public in educational programs, and to foster a stronger understanding of our underwater resources at Isle Royale National Park and Lake Superior.

At Isle Royale this summer, the ROV was used to observe moose eating underwater. This effort resulted in very interesting video of the feeding habits of moose. Professor **Rolf Peterson** and IRI staff member **Brian Radjl** assisted with this project.

Shipwrecks, fish habitats, exotic and aquatic vegetation in Lake Superior, Lake Michigan, and a number of smaller lakes have also been studied. The ROV was used by NPS staff to study the

bottoms of two park boats. The public was able to view the bottom of Rock Harbor during an evening program on board the Ranger III.

Learn more about IRI's programs by visiting www.forest.mtu.edu/iri or for more detail on the ROV see the www.videoray.com web page. ■

What's new on our web:

Check out alumni postings at www.forest.mtu.edu/alumni/board
Join today!

Our Wildlife Ecology and Management program is a reality!
www.forest.mtu.edu/academics

A new batch of old photos is posted at www.forest.mtu.edu/oldphotos

Plant Biotech Research Center: Re-Certified and Remixed

The Biotechnology Research Center (BRC), formerly known as Plant Biotechnology Research Center (PBRC), has been re-certified for another five years. Professor **Chung-Jui Tsai** has been named the BRC director and reports to **Peg Gale**, dean of the school. The center's name change reflects its expanded faculty membership and is endorsed by five department chairs and three college/school deans, and approved by the VP for Research **David Reed**, Provost **Kent Wray**, and President **Glenn Mroz**.

Biotechnology is a fast-moving field and one of the four key areas identified in the Emerging Technologies and Research of the Michigan Tech Plan. Fundamental and applied research ranging from gene functions and plant/animal conservation to tree growth and adaptation, and biomedical material development, increasingly rely on interdisciplinary collaborations between biologists, chemists, mathematicians, computer scientists, and engineers. Many BRC members have already been engaged in such collaborations, and the new center is a natural development from such activities. Current BRC research projects are sponsored by all major federal agencies including DOE, EPA, NIH, NSF and USDA, totaling more than four million dollars.

BRC members:

Biology

Ramakrishna WusirikaAssistant Professor

Biomed

Seth W. DonahueAssistant Professor

Chemistry

Martin J. ThompsonAssistant Professor

Pushpalatha MurthyProfessor

FRES

Victor BusovAssistant Professor

Scott A. HardingResearch Assistant Professor

Chandrashekhar JoshiAssociate Professor

Chung-Jui TsaiAssociate Professor

Leah M. VucetichResearch Assistant Professor

Math

Huann-Sheng ChenAssociate Professor

Shuanglin ZhangAssociate Professor

MEEM

Tammy Haut DonahueAssistant Professor

Unstoppable Student!

To those he works with here in the School of Forest Resources and Environmental Science, Jrhau (pronounced Jur-how) is a well liked, soft-spoken, and hardworking graduate student. Underneath the amiable exterior of this Taiwanese native, however, is a tenacious fighter. Jrhau Lung began his PhD at Michigan Tech in the forest biotechnology program in 1997. That year, however, Jrhau, only 25, noticed a swelling of his lymph nodes. He saw a local doctor and, after being denied by his student insurance for proper coverage because his condition was considered pre-existing, he returned to Taiwan. The diagnosis was grim: Non-Hodgkin's lymphoma, a cancer of white blood cells. He began six months of chemotherapy while his patient and optimistic mother

cared for him, and everyone back in the school rooted for him. Soon afterwards, doctors declared him cured, and Jrhau began a slow but steady recovery, returning to Tech in 2001. His advisor, Chung-Jui Tsai, and formal visiting scholars of the school Drs. Cheng-Kuen Ho and Shu-Hwa Chang at the Taiwan Forestry Research Institute have collaborated to have Jrhau study, by coincidence, the anti-cancer drug taxol. He hopes to shed light on the metabolic pathway of this difficult-to-derive compound of the Yew tree. Jrhau says, "It meant a lot to me that everyone here [in FRES] encouraged me to finish school and has been so helpful the whole time." He will finish his PhD degree in the fall of 2004.



Jrhau Lung,
PhD candidate

Alumni Reunion Brings out the Best

Outstanding Alumnus

Each year the school selects one alumnus for the special recognition of Outstanding Alumnus. This year the award was presented during reunion weekend at the "Celebrate Alberta's Fiftieth" event at the Ford Forestry Center. Marty Jurgensen was given the honor of announcing that Carl Trettin (1976 and 1980) was named the school's 2004 recipient of the Outstanding



Carl Trettin comments on his experiences at the school as he accepts an award as the school's 2004 Outstanding Alumnus.

Alumnus Award. Carl, who received both a bachelor's and master's degree at the school, also worked as a soil scientist at the Ford Center establishing a soil research laboratory, which provided technical support and enhanced educational opportunities.

Since receiving his PhD from North Carolina State, Carl has continued his research, which is focused on soils and how they affect forestry practices or stressors, such as global change.

He is presently project leader of the USFS's Center for Forested Wetlands, whose mission focuses on the ecology and management of forested wetlands.

Carl, his wife Linnie, and their two sons live in Charleston, South Carolina.

"Chicks" Win Chili Challenge

Dean Peg Gale nabbed a higher honor during red-hot Alumni Reunion competition, earning the right to the title MTU Chili Dean.

Peg's "Chick" Pea Vegetarian Chili bested five other dean-led teams to win the first MTU Deans' Chili Challenge. The judges—everyone who showed up to eat chili—sampled six recipes prepared by MTU's Dean Teams and voted with their pocketbooks—one dollar, one vote. In all, \$400 was raised for school and department scholarships.



Dean Peg Gale was helped by Professor Chung-Jui Tsai during the Dean's Chili Challenge. These chicks can cook!

Other participants and their entries were:

- Ozark Road Kill Chili, from Scott Amos, dean of the School of Technology
- Chili con Deans, Les Cook, vice provost and dean of student affairs
- True No Bean Chili, Dave Maplethorpe, "dean" of the MUB
- Beyond the BS Chili, Marilyn Vogler, assistant dean of the Graduate School
- Wall Street Chili, Keith Lantz, dean of business and economics

Having emerged victorious, Peg gets to display the winner's plaque, which notes that "the bearer is entitled to bragging rights and all the glory that goes with this title." The winner also has earned the honor of hosting next year's challenge.

Celebrate Alberta's Fiftieth

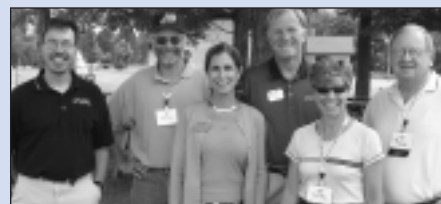
It was a perfect day of blue skies and sunshine to celebrate the fiftieth anniversary of the gift of the Ford Forestry Center and forest lands to the school back in 1954. Alumni, faculty, staff, and friends joined at the center in August to mark the occasion.

The keynote speaker for the day was **Roger Rogge**, the center's former manager. It was Roger's father, **Ted Rogge**, who was instrumental in supporting the idea for Ford Motor Company to donate the center, mill, and surrounding lands to MTU as a teaching facility. Ted envisioned the property as a great outdoor laboratory—back then and today! Ted Rogge was elected into the school's honor academy posthumously because of his vision.



Recipients hold their awards at the conclusion of the ceremonies in Alberta (left to right) **Carl Trettin**, **Steve Shetron**, **Roger Rogge** (holding his father's honor academy plaque), **Glenn Mroz** (holding the Rogge Conference Center plaque), **Jim Meteer**, **Mrs. Jim Johnson** (Jim was on Isle Royale!), and **Peg Gale**

The Ford Forestry Center sets our program apart from other universities. Peg Gale took the opportunity on this special day to acknowledge that fact. The conference facility at the center was named in honor of Ted and Roger Rogge, in recognition the Rogge family's contributions to the center, the school, and Michigan Tech.



Alumni and friends gathered in August to celebrate Alberta's fiftieth. Left to right, **Jim Schmierer** (BS 1998, MS 2000), **Dave Reed** (VP Research), **Gail Mroz** (1986, BBA), **Glenn Mroz** (1974), **Beth Reed** (Mathematical Sciences), and former dean **Ed Frayer**.

Other tributes presented during the day, recognizing contributions made to the center, included naming three tracts of land in appreciation of **James Meteer**, **Stephen Shetron**, and **James Johnson** (1951). The school welcomed back **David Wilson** (1978), another collaborator and contributor to the center, who presented the awards.



Ford historian **Bob Kriepke** participated in the celebration of Alberta's fiftieth. He presented the Alberta Village Museum with a bust of Henry Ford. (See right)



A visitor to the museum, **Lauren Richards**, stands next to the bust of Henry Ford to give its size perspective. The bust was donated to the museum by the Ford Foundation.

Faculty Focus: Linda Nagel – Silviculturist

It may seem like a long way from the ponderosa pine forest of the west to the hardwood forests of the Great Lakes region, but for a silviculturist like Professor Linda Nagel, applying the best management techniques, regardless of the forest type, is all part of the job. Linda is also actively involved in the research of invasive exotic species and helping students meet their field practicum requirements.

Linda earned her Bachelor of Science degree in biology from South Dakota State University where she began her career as a plant physiology lab technician. She conducted a research project involving tree seedling response to enhanced ultraviolet-B radiation at Washington State University and earned a Master of Science degree in natural resource sciences. With an interest in big trees, Linda pursued a PhD in forestry at the University of Montana. There she studied productivity of even-aged and uneven-aged ponderosa pine forests in western Montana and central Oregon, with an emphasis on assessing impacts of various silvicultural techniques. Linda has been on the faculty in the School of Forest Resources and Environmental Science as a silviculturist since the fall of 2000.

Some of the research questions Linda Nagel is currently addressing involve long-term impacts of uneven-aged management in

northern hardwood forest systems. Northern hardwoods are the most widely distributed forest type across the Upper Peninsula of Michigan. Management of these forests typically involves periodic silvicultural treatments at relatively short intervals.

Assessing changes in plant species composition, stand structure, and overall productivity will help determine which silvicultural treatments are optimal to meet landowner objectives. "By quantifying changes in diameter distributions and species composition between cutting cycles, we can assess which treatments meet objectives, and which treatments might have deleterious effects short- and long-term," Nagel explained.

Some of this research is being conducted at the Ford Forestry Center, as well as on nearby state and commercial lands. Assessing land that has undergone a consistent type of silvicultural treatment for many years allows measurement of long-term sustainability from an ecological and productivity standpoint. Alternative forest management techniques are also being evaluated as potentially optimal silvicultural practices.

Another area of Nagel's research involves invasive species prevalent in both managed and unmanaged forest land in the northern Great Lakes region. She has begun looking at the impacts of forest management on the



Professor Linda Nagel

abundance of several species, as well as the impact certain invasives have on tree regeneration. Pennsylvania sedge, a native invasive plant species, has become a problem in some northern hardwood forests in Wisconsin. Linda is overseeing a series of silvicultural treatments (gap openings with various types of site preparation) implemented to promote tree regeneration while controlling the prevalence of the sedge.

Garlic mustard, another invasive plant species encroaching into the Upper Peninsula, has potential [Continued on page 6](#)

Awards and Recognitions

Assistant Professor **Robert Froese** has been granted the status of Registered Forester with the State of Michigan. Congratulations to Robert, Michigan Registered Forester #989!

Assistant Professor **Andrew Storer** was presented with The Graduate Student Mentor Award for his outstanding work helping graduate students in their personal, professional, and academic development. Storer sees his seven graduate students as vital to the success of an active research program. Andrew won the award at the university's awards banquet in September, which honored students, faculty, and staff for their outstanding achievements.

Research Excellence Fund Awards Announced

Ten projects have received a total of \$348,158 from the Research Excellence Fund, Vice President for Research **David Reed** announced.

This year's awards were given in three categories: Infrastructure Enhancement, Seed Awards, and Mentoring Grants. Two of the awards, which are given based on the recommendations of two university committees, were awarded to faculty of the School of Forest Resources and Environmental Science.

"A Proposal to Enhance the Capability to Evaluate Wood Quality in Standing Timber and Logs"; PI: **Margaret Gale**; CoPIs **John Erickson** and **John Forsman**; \$15,300 was given as an Infrastructure Enhancement

Award. The Infrastructure Enhancement Awards generally fund equipment, laboratory facilities, and the administrative support structure to expand a unit's research capability.

A Seed Award was given to: "Role of Micro-RNAs in Woody Plant Development"; PI: **Victor Busov**; \$49,722. Seed Awards provide untenured faculty with resources to develop an externally supported research program.

Recent Funding

Associate Professor **Ann Maclean** has received a \$114,498 grant from the National Science Foundation for "BE/MUSES: Renewable Energy from Forest Resources: Investigating the Complex Interrelated Issues Associated with Generating Automotive Fuels from Lignocellulosic Biomass."

Assistant Professor **John S. King** received a \$450,000 research grant from the United States Department of Agriculture, Cooperative State Research, Education and Extension Service for his project, "Forest Ecophysiological Responses Will Influence Regional Water Supplies Due to Altered Atmospheric Conditions in the Near Future."

Assistant Professor **Victor Busov** will receive \$430,000 from the USDA Cooperative State Research, Education and Extension Service for a three-year project, "Efficiency of Activation Tagging for Functional Gene Discovery in Populus."

Research Assistant Professor **Kimberley Brosofske** received \$50,041 from the United

States Department of Agriculture, Forest Service, North Central Research Station for "Assessing Fire Risk in the Mark Twain National Forest."

Research Assistant Professor **Sari Saunders** will receive \$25,981 on a four-year project, "Identifying and Prioritizing Communities at Risk in Cooperation with State Foresters in Michigan and Wisconsin Using the Montreal Criteria and Indicators as an Organizing Framework," from the USDA Forest Service, Southern Research Station.

Research Assistant Professor **Kimberley Brosofske** received a \$734,988 three-year cooperative agreement from the United States Department of Agriculture, Forest Service, and Eastern Regional Office for research titled "Quantifying Historical and Modern Vegetation and Disturbance Regimes for National Forests in Seven Midwestern States."

Assistant Research Scientist **John Forsman** has received \$2,500 from the Regents of the University of Minnesota, Duluth, for his project, "Demonstration of an In-Place Transverse Vibration Technique to Assess Long-Term Performance of a New Timber Bridge."

Research Engineer/Scientist **John Erickson** has received a \$28,000, two-year research grant from USDA Forest Service Northeastern Area State and Private Forestry for his proposal, "Demonstrate the Use of Red Pine and Eastern Hemlock in a Stress-Laminated Bridge."

Nagel... (cont. from pg 5)

impacts on forest regeneration. A study testing the effects of vegetation control treatments, including herbicides and fire, on garlic mustard abundance is being tested in the eastern Upper Peninsula. Another study looking at controlling glossy buckthorn, an aggressive exotic woody species along many waterways, has also been implemented in the eastern Upper Peninsula. Glossy buckthorn out-competes other important

woody plants like alder and willow, potentially impacting wildlife habitat. "The intention of these studies is to better understand the ecology and dynamics of targeted invasive species that have overtaken many sites," Nagel said. "We also want to test the efficacy of management techniques in controlling these undesirable species, while promoting native vegetation."

Linda also coordinates and teaches at the junior-level Integrated Field Practicum

(IFP—formerly known as summer/fall camp) conducted every fall at the Ford Forestry Center in Alberta. The curriculum integrates the courses taught, field assignments, and field trips involving a variety of landowners across the Upper Peninsula. This year there is an equal number of forestry and applied ecology & environmental science majors attending IFP. While at MTU, Linda has also conducted several professional silviculture training courses held through SFRES. ■

Development, Outreach and Recruiting Never Say Goodbye

November 15 is my last day on the job for the School of Forest Resources and Environmental Science. The school hopes to have my replacement in place by the time you read this announcement.

For the last six years, I have worked with friends and alums of Michigan Tech to raise funding to support the University, the students, and programs in the School of Forest Resources and Environmental Science.

Development. I have had some successes, and always wanted just a little more, but I am satisfied with what I accomplished. It has been a very interesting period in my life, meeting many of our graduates and working with many of you to complete a gift of support to the University and our students. I would not

have predicted thirty years ago that this would be one of my careers in life.

During the last year and a half, I have also worked to bring students to our school. **Recruitment.** That part of my job has been especially gratifying. Think back to when you were 16 or 17 and starting to look for something to do with the rest of your life. At that point, the options seemed limitless, and the choice to make was daunting. My role has been to confirm interest, advise, and finally convey the excitement that comes with an education in the natural resource field. I have repeatedly seen the look of relief that parents and their children acquire after coming to campus, visiting the school, and leaving with the knowledge that Michigan Tech is the place for them.

Development and recruitment are critical to

the continued success of the school, and both need to be kept in the forefront. It's important to aggressively maintain our presence—it's how Michigan Tech emerges from the crowd. The University's physical separation from the rest of the world presents one unique challenge that makes efforts at ongoing fund raising and student recruitment a job that will never cease.

The students are the key to everything. We are all students at some point in life. It is our students who will ultimately work with our natural resource issues in coming generations. They truly deserve the support that we can provide. They are also the future alumni, like you, who will support the school and its programs in upcoming years. It has been an enjoyable six years. I am sure that I will see many of you in the years to come. Thanks to all of you. Chris.

Faculty Publications

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Class Notes

New Alumni

Congratulations to these 2004 graduates.

Adrienne Blausner, Master of Forestry. Coursework option. (Orr)

Sarah Brodeur-Campbell, 2004. Insect Herbivory on Low-Lignin Transgenic Aspen. MS (J. Vucetich)

Andrea Durham, 2004. Social Network Analysis of Women, Resources, and Community in Angia, Ecuador. MS/Peace Corps. (Orr)

Jennifer Eikenberry, 2004. Chronic Nitrate-Addition Alters Northern Hardwood Root and Leaf Litter Chemistry. MS. (K. Pregitzer)

Angela Johansen, 2004. Ammonium and Nitrate Uptake by Populus tremuloides in an Elevated Carbon Dioxide and Ozone-Atmosphere. MS. (A. Friend)

Michael J. Jones, 2004. Evaluation of Honduran Forestry Cooperatives: Five Case Studies. MS/Peace Corps. (Orr)

Sara Keinath, 2004. Environmental Education and Perceptions in Eastern Nepal: Analysis of Student Drawings. MS/Peace Corps. (Orr)

Jordan Marshall, 2004. Biological Control and Ecological Impacts of Spotted Knapweed (*Centaurea maculosa*) in the Upper Peninsula of Michigan. MS (Storer)

Joseph Schwartz, 2004. Stand Dynamics and Silvicultural Recommendations for Uneven-Aged Northern Hardwoods in Upper Michigan. MS (Nagel)

Jennifer Taylor, 2004. Wetland Development and Genetic Diversity of *Sarracenia purpurea* L. (pitcher plant) in the Western Lake Superior Basin. MS. (M. Gale)

Greetings Alumni!

The Forestry Club is happy to offer you some new Michigan Tech Forestry apparel. We've expanded the choices to meet your needs. We now offer a navy/tan embroidered polo (\$20)—great for conferences and other casual events. Light green T-shirts (\$12) with "Michigan Tech Forestry" in distressed letters are available as well as navy blue hoodies (\$30), and embroidered baseball caps (\$16). We offer a variety of sizes with delivery available for an extra fee. These items

are available for a limited time and are not available in the university store. For ordering information, please contact Erin Taylor at emtaylor@mtu.edu.

Alumni and Friends Sightings

During the North American Forest Biology Workshop, **Eunice Padley**, a former scientist with the school, stopped in to say hello. Eunice is a Forest Ecologist/Silviculturist with the Wisconsin DNR Division of Forestry in Madison. **David (Arthur) Sampson** (1982) also stopped in. David is with Virginia Tech's Department of Forestry.



Norm Remington

www.forest.mtu.edu/alumni/board



Scott Torreano

He was in town to hear REU student presentations.

1974

Larry Hoffman, an employee of the Oregon Department of Forestry, collapsed and died in June while taking the wildfires Pack Test in Oregon. Larry was described by a co-worker as someone who will be remembered as a conscientious, hard-working professional who always went the extra mile to safeguard the forest resource. Larry was 51 and is survived by his wife Karen and daughter Teri. A link to the news article can be found at www.forest.mtu.edu/alumni.

Michael Burye passed away in June after a nine-month battle with brain cancer. Mike was a 24-year veteran Air Traffic Controller working at Lansing Capital City Airport. He

enjoyed restoring automobiles, running 5/10k races, landscaping, and volunteering for St. Luke's Lutheran Church in Haslet, Michigan. His wife of 26 years, Karen, son Ted, parents, and other relatives, survive him.

Pete Cattellino, who is the coordinator of biomedical engineering internships at Michigan Tech, posted a message to the alumni bulletin board asking whether the alumni newsletter should stay in its current print version or be converted to an electronic version. Read Pete's posting (and add your own) at www.forest.mtu.edu/alumni/board. We appreciate your comments, Pete!

1977

John Hirschfeld joined the Connecticut Department of Environmental Protection's remediation program in 1993, doing mostly site discovery and assessment of hazardous waste disposal sites. He has done work on naturally occurring levels of heavy metals in soils and is working on mercury-contaminated soils and sediments as related to historic hat industries. Additionally, John has been involved in groundwater remediation projects including oxygen-enhanced bioremediation of methyl tertiary-butyl ether (MTBE) and has looked at similar approaches for chlorinated hydrocarbons (solvents), which break down in reduced environs. John is a certified professional soil scientist and proud to be an MTU forest ecology and soil alumnus. Read more at www.forest.mtu.edu/alumni

1979

Jan Beveridge, who is with Lockheed Martin Aeronautics in Fort Worth, Texas, sent an email opting for the alumni newsletter to stay in its current print version (not converted to email). Read Jan's entire message and greeting at www.forest.mtu.edu/alumni. Thanks for the input, Jan!

1981

Jill Schultz (MS 92, BS 93 EEN) is working in the Rocky Mountains as the health safety & environmental engineer for Baker Hughes, an oil and gas-servicing company for corporations such as Shell and BP. Jill supports three divisions located in the

Rocky Mountain Region. Jill says, "I travel the prettiest areas of the U.S.—the seven states of the Rockies! I am enjoying the fabulous skiing, golfing, camping, and white-water rafting."

1982

Nicholas Bell died in a cycling accident in Keweenaw County on Friday, July 23, 2004. He received a BS degree in forestry from Michigan Tech in 1982 and went on to study English literature at Michigan State University where he earned a teaching certificate. For the past five years, he had been an English teacher at American International School in Budapest, Hungary. Nick and wife, Theresa, lived with their son, Will, in an historic building in Central Mine. An avid and accomplished athlete, Nick was on a training ride for the Copperman Triathlon when he was struck by a vehicle on U.S. 41.

1988

Steve Hoffer (MS 1990) was ordained a deacon on June 29, 2004. He wishes to thank you all for the prayers and support that you have given him. It has been an exciting four years. Steve looks forward to his ordination to the priesthood in 2005.

1996

Jennifer Maziasz (MS 1997) started a new job in July as a land management specialist with the Chequamegon-Nicolet National Forest in the Washburn Ranger District.

2000

Dan Bergert (MS) lives in Unalaska, Alaska and works as a vessel agent for Alaska Vessel Agents. On his first day on the job, he went out with the tug boaters for the company and landed a 40-pound halibut!

Jeff and Kerry (Kosnak) Ploetz (MS—Peace Corps Bulgaria) have a son! Jack Wilder was born on August 23, 2004. All are doing well. At birth, Jack weighed 6 pounds 13 ounces and was 18.5 inches long. Jeff is still with DevTech Systems on contract with USAD's E&E Bureau, supporting their environmental compliance work and doing some AutoCAD design work on the side. Kerry is taking the year off to spend time with Jack.

Publications...(cont.)

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Calendar of Events

Mid-Year Commencement	December 11, 2004
Winter Carnival	February 9-13, 2005
Spring Commencement.....	May 7, 2005