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2010

## 2010 Civil and Environmental Engineering Department News

Department of Civil and Environmental Engineering, Michigan Technological University

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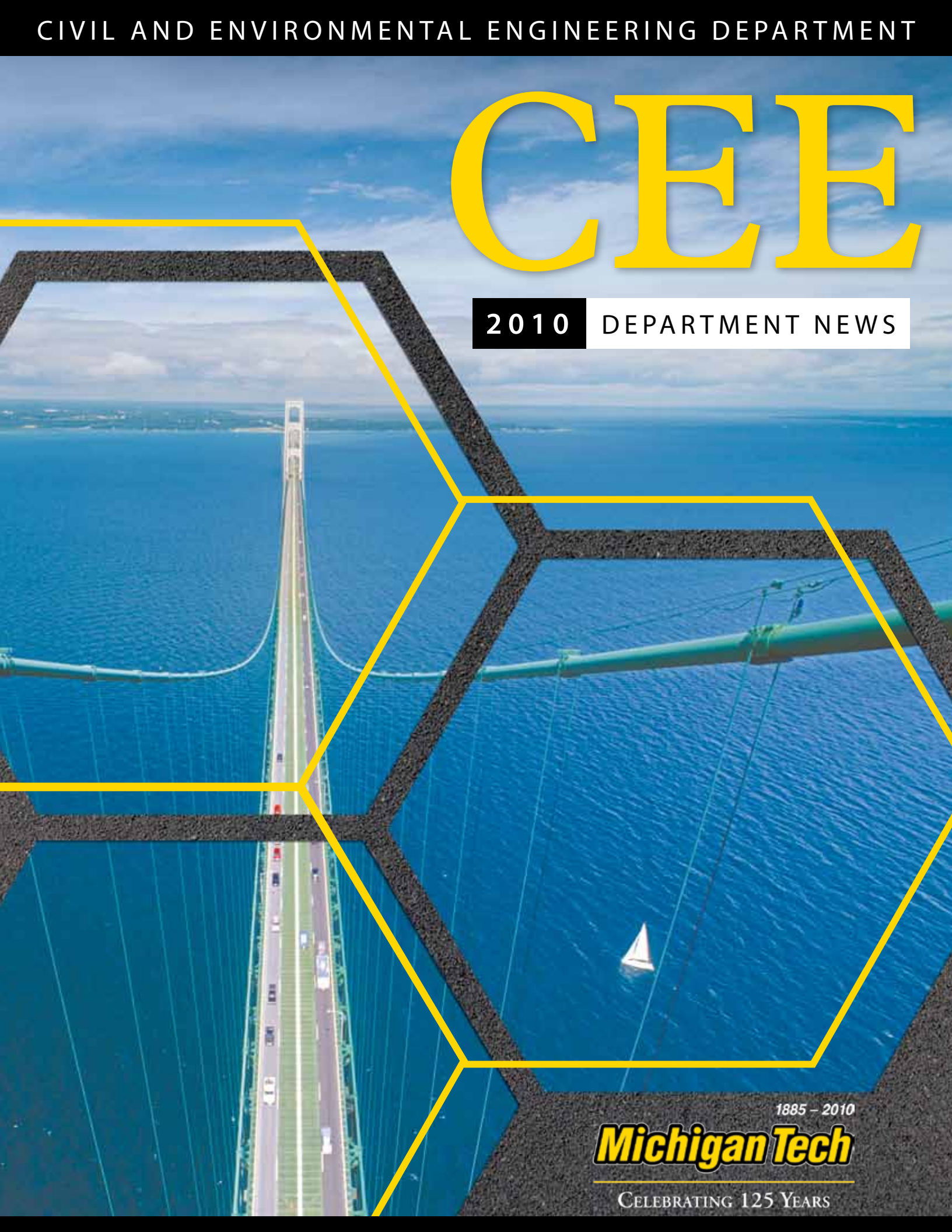


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# CEE

2010

DEPARTMENT NEWS



1885 - 2010

**Michigan Tech**

CELEBRATING 125 YEARS



Department Chair Dr. William Bulleit

## Table of Contents

- 04 New Faculty Strategic Hiring Initiative
- 06 Faculty Awards
- 07 Student Awards
- 08 Student Competitions
- 10 Academy of Civil and Environmental Engineers
- 13 CEE Donor Recognition
- 15 Department Information

### On the Cover

Spanning the Straits of Mackinac between Lake Michigan and Lake Huron, "the Mighty Mac" suspension bridge has connected the Lower and Upper peninsulas of Michigan since November 1, 1957. In 2010, ASCE has designated the bridge a National Historic Civil Engineering Landmark. The ceremony for this historic designation was August 12, 2010 at the bridge view park in St. Ignace.

Photo by Robert de Jonge  
www.robertdejonge.com

## Message From the Chair

Hello again from the CEE Department. This newsletter is the second one since I became Chair, and we have a bit more than a year of news to report.

As most of you probably know, we lost Dr. Richard Honrath last Spring in a kayaking accident on the Silver River. His memorial is described in the newsletter. Mr. Ed Haltenhoff was recently posthumously inducted into the Construction Hall of Fame.

Our Concrete Canoe team, which many of you helped sponsor, was first, by a significant margin, in the regional competition and came in fourth in the national competition at San Luis Obispo, CA. Congratulations to all involved, and thanks to all of you who helped fund the team.

Each year we give out a number of student awards and scholarships, some of which we describe here. We also profile faculty who have received awards. Last summer we inducted six new members into the Academy of Civil and Environmental Engineers, bringing the total membership in the Academy to 99 alumni. We will have the next induction ceremony in August of 2011. A few members of our Academy are profiled: Burd Hikes for a posthumous donation to the Department, Helm Wilden for the PCI Medal of Honor, and Tom Healy for a fish, a big fish.

We also thank all our donors since the last newsletter. The Department funds important activities with the use of alumni donations. Among the activities that are funded in part by donations are student competitions, undergraduate scholarships, graduate fellowships, the Student Success Center (a place for students to gather to help each other study and learn about civil and environmental engineering), International Senior Design, and some of our maintenance and repair of teaching and research equipment. So, enjoy this newsletter, and I will report back to you in the next newsletter sooner than a year from now. Thanks for your interest and support of the Department of Civil and Environmental Engineering at Michigan Tech.

William M. Bulleit  
Department Chair  
wbullei@mtu.edu

## Haltenhoff Inducted to Michigan Construction Hall of Fame



The late Charles Edwin "Ed" Haltenhoff was inducted to the Michigan Construction Hall of Fame in July 2009. Ed was a faculty member in the Civil and Environmental Engineering Department from 1980-1996. Prior to joining the Michigan Tech faculty he had a long career in the construction industry with Elzinga & Volkers. He made major contributions to the construction of the Mackinac Bridge and later was a Midwest leader for the development of the CM project delivery system.



## Dr. Richard E. Honrath Memorial, 1961—2009



Dr. Richard Honrath, a member of the Civil and Environmental Engineering faculty since 1992, died in April 2009 in a tragic kayak accident. Richard came to Michigan Tech after completing his Ph.D. at the University of Alaska Fairbanks. In the seventeen years that he spent at Michigan Tech, he built an Atmospheric Sciences program that received international recognition. He did ground breaking work in his field on the understanding of intercontinental pollutant transport by establishing an Atmospheric Sciences observatory on the remote Pico Mountain in the Azores. He also did important work on understanding the photochemical production of atmospheric nitrogen oxides at a research site in Greenland. His work in the Azores and Greenland earned him the Michigan Tech Research Award in 2006. Richard also dedicated his time to the education and mentoring of students and worked to establish Michigan Tech's atmospheric sciences doctoral program.

Outside his professional life, Richard was an avid outdoorsman spending time hiking, Nordic skiing, biking, and whitewater kayaking. His death is a tragedy for his family, students, friends, and colleagues. He is survived by his wife, Lori, son Ramey, and daughter Prabha.

To honor Richard and to support his vision of scholarship, a memorial fund has been established. This fund will be used to support the annual Richard E. Honrath Memorial Lecture. Lecturers will be internationally recognized scholars in the arena of Atmospheric Sciences who will interact substantially with graduate students during their visit. Donations may be made to the Richard E. Honrath Memorial Fund through the Michigan Tech Fund website: <http://www.mtu.edu/giving/>.



## New Faculty



### Jennifer Becker

Dr. Jennifer Becker joined the Civil and Environmental Engineering faculty as an Associate Professor in January, 2010. Her area of research and teaching interests focus on biological treatment processes in environmental engineering. Specifically, her research interests include: the biodegradation, microbial ecology, and bioremediation of chlorinated organic groundwater contaminants; bioenergy production using microbial processes; and the recovery and reuse of agricultural, municipal, and industrial waste products. Dr. Becker will teach classes in the area of environmental engineering including water and wastewater treatment and biological treatment processes.

Dr. Becker has a Ph.D. in environmental engineering from Northwestern University and environmental engineering degrees from Michigan Tech and the University of Illinois at Urbana. She was previously an Associate Professor at the University of Maryland and is the recipient of several national awards including: the Presidential Early Career Award for Scientists and Engineers (PECASE); National Science Foundation CAREER Award; Water Environment Federation (WEF) Robert A. Canham Award; and the Association of Environmental Engineering and Science Professors (AEESP)/Montgomery Watson Harza Master's Thesis Award (both as an advisor and as a student). Dr. Becker has been the Principal Investigator on nearly \$1 Million of sponsored research, and her peer-reviewed papers have been published in *Environmental Science & Technology*, *Applied and Environmental Engineering*, *Biotechnology and Bioengineering*, and other scientific and engineering journals. Dr. Becker is a member of the American Society for Engineering Education, American Society for Microbiology, Association of Environmental Engineering and Science Professors, and WEF. Currently she serves as the Chair of the Awards Committee for AEESP.



### Eric Seagren

Dr. Eric Seagren joined the Civil and Environmental Engineering faculty as an Associate Professor in January, 2010. His area of expertise is environmental biotechnology, with specific research interests including; in situ bioremediation of contaminated subsurface environments, monitoring and evaluation of the performance of biological treatment processes, development of in situ biological treatment systems for urban storm water runoff, innovative reuse of waste materials, and in situ improvement of soils properties via microbially-mediated processes. He will teach classes in the area of environmental engineering, water and wastewater treatment, and biological treatment processes.

Dr. Seagren was previously an Associate Professor at the University of Maryland. He has a baccalaureate degree in civil engineering from the University of Nebraska-Lincoln, an MS degree in Sanitary Engineering from Iowa State University, and a Ph.D. in Environmental Engineering from the University of Illinois at Urbana-Champaign. Dr. Seagren has been involved as a principal or co-principal investigator in environmental engineering projects funded by over \$1.1M, including a National Science Foundation CAREER Award in 2001, and has authored or co-authored one book, 5 book chapters, 20 peer reviewed journal articles, and 33 presentations at professional meetings. He is a member of five professional societies (American Society of Civil Engineers, American Society for Engineering Education, American Society for Microbiology, Association of Environmental Engineering and Science Professors, and the Water Environment Federation), and was previously an Associate Editor for the *Journal of Environmental Engineering* (2000-2004).



### **R. Andrew Swartz**

Dr. R. Andrew Swartz joined the Civil and Environmental faculty as an Assistant Professor in January, 2010. His area of teaching interest is structural engineering including: undergraduate-level structural analysis and design courses, as well as graduate-level structural dynamics courses.

His research is focused in the area of smart structural technologies for wireless monitoring of civil infrastructure systems. He has developed a wireless monitoring system for data collection, embedded data interrogation, active sensing, and control. The result of these efforts is the Narada wireless sensing system which is a wireless sensing system developed specifically for dense installation in civil structures. To date, Narada has been field validated for data collection, embedded system identification, and structural health monitoring on bridges in the U.S., Taiwan, and Korea, in addition to wind turbines in Germany.

Dr. Swartz recently completed his Ph.D. in civil engineering from the University of Michigan. He has a baccalaureate degree in civil engineering from the Michigan Tech, and MS degrees in electrical and civil engineering from the University of Michigan. He has received numerous awards including: Graham Environmental Sustainability Institute (GESI) Fellow (2008), Best student paper award: SPIE 11th International Symposium on Nondestructive Evaluation for Health Monitoring and Diagnostics (2006), and Dare-to-Dream Entrepreneurship Opportunity Grant (2006). He has published a book chapter, eight technical and peer reviewed papers, and numerous conference proceedings in his academic career.

## **Strategic Faculty Hiring Initiative**

*SFHI faculty hires are intended to cut across academic disciplines to focus on a research theme. The search for faculty specializing in sustainability was conducted during the 2008-09 Academic year. One of those new hires has a partial appointment with the Civil and Environmental Engineering Department.*



### **Shiliang Wu**

Shiliang Wu, joined Michigan Tech in 2009 as an Assistant Professor with a joint appointment in the Departments of Geological and Mining Engineering and Sciences and Civil and Environmental Engineering. Dr. Wu completed his Ph.D. at Harvard University in Atmospheric Chemistry and was one of the first faculty members hired in the cross disciplinary sustainability initiative. His research focuses on atmospheric chemistry, air quality and global environmental change. Since joining Michigan Tech, he has been awarded a US Environmental Protection Agency (EPA) Early Career Award, receiving \$299,596 from the EPA to investigate the effects of changing land use and land cover on atmospheric chemistry and air quality. He is also co-investigator with a team of Michigan Tech researchers who received \$452,000 last fall to study the impact of climate change on wildfires and the resulting impact on human health. He has recently been named a winner of the 2010 Ralph E. Powe Junior Faculty Enhancement Award given annually by Oak Ridge Associated Universities (ORAU) in Oak Ridge, Tennessee.



## Faculty Awards



Dr. David Hand

### Rudolph Hering Medal

The Rudolph Hering Medal was instituted in 1924 by the American Society of Civil Engineers, in honor of Rudolph Hering, past Vice President of the Society. The award is made annually by ASCE to the author or authors of the paper which contains the most valuable contribution to the increase in knowledge in, and to the advancement of, the environmental branch of the engineering profession.

Dr. David Hand and Dr. Alex Mayer received the 2009 Rudolph Hering Medal for their paper, "Equilibrium versus Nonequilibrium Treatment Modeling in the Optimal Design of Pump-and-Treat Groundwater Remediation Systems", *Journal of Environmental Engineering*, August 2007.



Professor Alex Mayer

### Mayer Receives Distinguished Service Award

Professor Alex Mayer received the Michigan Tech 2009 Distinguished Service Award. Mayer was cited for forging collaborations that cross disciplinary boundaries, particularly in his quest to enhance teaching and research and to expand awareness of water-related issues.

His projects range from a study of the local Huron Creek watershed to a \$1 million National Science Foundation study of water as a material in the Great Lakes region.

His international outreach has extended to Mexico, Cuba

and Vietnam, and he has brought more Latino, Native American and female students to campus by appealing to their interest in water resources. One of his graduate students was chosen by the US State Department to meet with then-President George W. Bush because of his and Mayer's extraordinary efforts to solve water problems in northern Mexico.

"He is truly dedicated to raising awareness about problems of water quality and quantity in several regions throughout the world," wrote Agustin Robles Morua, a PhD student who came to Michigan Tech after graduating from the University of Sonora in Mexico. He credited Mayer for securing funding that allowed him to pursue a graduate degree here.

As the founding Director for the Center for Water and Society, Mayer has brought together students and faculty from several diverse units to address complex water resources problems. Mayer said it's essential to involve people from other fields in water-quality work. "I learned in Mexico that the technical part is easy," he said. More than developing an engineering solution to a problem, it's important to understand what people want and what laws and rules govern what they do. "You can build a wonderful sewage treatment plant," he said, "but if the community's priorities are elsewhere, it won't be maintained." Building those interdisciplinary coalitions can be challenging. "Pushing disciplines together is really hard," Mayer said. "You have to work to encourage people to respect each other."

### Howard E. Hill Outstanding Faculty of the Year Award



Dr. Devin Harris

Dr. Devin Harris was awarded the 2009 Howard E. Hill award for Outstanding Faculty of the Year by the students of the Civil and Environmental Engineering Department. Dr. Harris teaches classes in the area of structural engineering.

## Student Awards



Melanie Kueber

### 2009 Graduate Excellence Award

Melanie Kueber, a doctoral candidate in the Civil and Environmental Engineering Department, was recognized for her graduate excellence as the University Transportation Center Student of the Year. This award is presented at the annual Transportation Research Board meeting in Washington, D.C. in January. Ms. Kueber was also awarded the Danielle F. Ladwig award for graduate excellence. This award is made annually to a graduate level civil or environmental engineering student in recognition of outstanding achievement in academics, research, and service, in memory of our friend and colleague, Danielle F. Ladwig. This award is accompanied by the Pati Damoder and Soumitri Reddy \$1500 Graduate Fellowship.

### 2009 Graduate Teaching Assistant of the Year



Drew Walter

This award is voted on by the students of the Civil and Environmental Engineering Department and presented at the end of Spring semester.

### Asphalt Paving Association of Michigan (APAM)

Awarded three departmental students \$2000 scholarships. The awards were presented at the December 10 meeting in Lansing.

- Stephanie Pepin
- Tristram Hokenson
- Baron Colbert

### Dan's Excavating Scholarship Awarded

Amanda Malburg was awarded a \$2500 scholarship by Dan's Excavating of Shelby Township.



## Student Scholarships

Through the generous gifts of alumni and friends to various annual and endowed scholarships a number of departmental students are able to be supported for part of their tuition expense. The scholarships for 2009-10 are listed below:

### Katherine M Bosch Memorial

Katherine R. Waring  
David Froster  
Carolyn J. Lahti  
Eryk J. Anderson

### Martin and Evon Easling Engineering Scholarship

Seth D. Woolcott

### Charles Geoffrey Kellogg Endowed Scholarship

Mark J. Koivisto

### Frank Larson Endowed Scholarship

Hampton B. Waring

### A A Mathews Endowed Scholarship

Damian G. Wallner

### Amie L. Mathy Endowed Scholarship

Tyler W. Fincher  
Troy J. Mackey  
Timothy B. Nygard  
Joshua J. Steffek  
Steve B. Moilanen  
Anthony R. Oxley  
Brian S. Fabbri  
Bryan A. Swanson

### Charles J. Mathy Sr. Endowed Scholarship

Evan C. Johnson

### Frank Monasa Endowed Scholarship

Sean M. Palo

### Moore & Bruggink Endowed Scholarship

Michael J. Urena

### Ernest Orchard Endowed Scholarship

Hans P. Haapala

### Joseph and Joellen Post Endowed Scholarship

Adam M. Wenneman

### Pati Damoder & Soumitri Reddy Scholarship

David Keleher

### Timothy E. Sandene Endowed Memorial Scholarship

Cory J. Niemela

### UP Road Builders Endowed Memorial

Michael A. Carpenter  
Ryan L. Patrick  
Megan R. Smith  
Kevin A. Roell

### Basil Vagin Endowed Scholarship

Eric B. Kisly



## Student Competitions

### Heavy Construction Competition – Great Lakes Region

A team of six Michigan Tech students placed second in the Associated Schools of Construction Great Lakes Region Student Competition, Heavy/Civil Division held in Downers Grove, IL. The team, comprised of members of the Pavement Design Construction and Materials Enterprise, were required to complete a construction proposal in 16 hours using only their knowledge and what they brought with them. The project proposal was for the construction of a highway intersection in Texas that was constructed by Kiewit Construction, Texas District. Members of the actual project and administration team were the judges. Dr. Kris Mattila was the team advisor and traveled to the competition with them. Team members included Derek Weichlein (Team Captain), Whitney Schoep, Nathan Comstock, Ryan Patrick, Steffanie Pepin and Ben Kohler.



### Building a Better Latrine

#### USEPA's P3: People, Prosperity, and the Planet Sustainability Design Competition

Dr. David Watkins, Associate Professor of Civil and Environmental Engineering, led a team of undergraduates as part of a two-semester senior design project on a study to improve ventilated pit toilets. With the help of funding from the USEPA, the six-member team constructed a full-size 'mock' pit toilet and installed high-tech meteorological and airflow measurement equipment to better understand the factors affecting ventilation. The team will use this data to validate a fluid dynamics simulation model of the toilet, which will allow them to quickly analyze various design alternatives. In addition, with the help of Peace Corps Master's International students overseas, survey data is being collected to better understand reasons why people prefer one type of sanitation technology over another. The goal of the project is to improve health in low-income communities by increasing access and use of basic sanitation technology. The project



Michigan Tech P3 Team at their campus test site

may provide secondary benefits in places like the U.P., by making the 'latrine experience' less offensive. The work will have immediate applications with Michigan Tech's continuing international outreach through Engineers Without Borders and the Peace Corps Master's International program.

The team received an honorable mention at the USEPA's P3: People, Prosperity, and the Planet Sustainability Design Competition in Washington, D.C. in April. Project

co-advisors are Kurt Paterson, Civil and Environmental Engineering, and Donna Michalek, Mechanical Engineering and Engineering Mechanics.

P3 Student Team Members:

- Craig Gossen (Mechanical)
- Krissy Guzak (Environmental)
- Cara Hanson (Environmental)
- Kim Landick (Environmental)
- Stefan Marek (Mechanical)
- Ashley Thode (Civil)

## Concrete Canoe Sweeps Regional— and takes 4th at the National Competition



The 2010 American Society of Civil Engineers North-Central Regional Competition was held March 26-28 at Western Michigan University, in Kalamazoo. The CEE Department had both a Steel Bridge and a Concrete Canoe team participating in the competition. Unfortunately, the Steel Bridge team was disqualified. However, the Concrete Canoe team paddled their way to a resounding victory.

The team took first place in three of the competitions four categories, paper, display and racing, and finished second in the presentation. In particular, the team shined in the racing – placing first in all the races, men’s sprint, women’s sprint, men’s endurance, women’s endurance

and coed sprint. The women’s team not only beat all of the other female entries in all races, they beat all the male teams in the endurance race (except Tech’s) as well.

The team co-captain, Jon Zalud credited practice for their performance. “In the fall, we were out on the Portage three times a week, and once the ice comes in, around Thanksgiving, we paddle around the pool in the SDC,” he said. All told, the team logged about 1,500 hours practicing in regular canoes before they put their concrete model in the water.

The team redesigned the hull to comply with the new ASCE rules requiring a standardized hull then had a manufacturer create a foam

plastic mold. The team began to line the mold with three thin layers of custom-made concrete sandwiched together with two layers of carbon fiber. This year the aggregate was composed of 100% recycled glass and ceramic spheres (the rules only required that 50 percent of the aggregate be recycled). After curing the three-eighths-inch-thick hull for a month, they spent 200 man hours sanding it smooth. The 20-foot canoe is 31 inches wide and weighs 160 pounds.

The team was advised by department alumnus, Bill Baxandall. “They are outstanding,” Baxandall commented. “They represented the University with first-class style at the competition. They are all a credit to Michigan Tech.”

Team leaders and directors are Ryan Hoensheid, senior co-captain; Jon Zalud, junior co-captain; Amanda Malburg, safety director; Lars Leemkuil, mix design; and Katie Zimmerman, aesthetics.

The regional victory qualified the team to attend the ASCE National Concrete Canoe Competition, held June 17-19 at California Polytechnic University, in San Luis Obispo. They pulled off a 4th place overall and though they didn’t win, the team agrees that “it has been a great ride”.





**ACADEMY of Civil and Environmental Engineers Membership**

- Richard O. Anderson, P.E. '71
- F. William Baxandall, P.E. '59
- Ned W. Bechthold, Honorary Member
- Philip R. Belisle, P.E. '60
- Lee E. Bernson, P.E. '65
- William J. Bier, P.E. '50
- James R. Buck, Ph.D. '52, Deceased
- Debra A. Campbell, P.E. '76
- Gerald J. Caspary '43, Deceased
- Cletus L. Courchaine, P.E. '52
- Richard H. Crannell, P.E. '65
- Dale K. Deibel '73
- Paul J. DeKeyser '78
- George R. Ehlert, P.E. '77
- James T. Emerson '60
- John A. Fortier, P.E. '78
- Herbert L. Fluharty '65
- Paul B. Friar '50
- Phillip V. Frederickson, P.E. '60
- Peter J. Grant '68
- William J. Grenney, Ph.D. '59
- Russell A. Gronevelt, P.E. '68
- Herman Gundlach, Honorary Member, Deceased
- David P. Gustafson, Ph.D., P.E. '61
- Thomas M. Healy, P.E. '65
- George H. Hermanson '73
- Burd Hikes '49, Deceased
- Robert D. Hitch, P.E. '54, Deceased
- Donald L. Holley, PE. '53
- Thomas R. Irwin, P.E. '63
- James M. Jabara '50
- Harold S. Jensen, D.E. '52
- Christopher Kaempfer, P.E. '71
- Raymond C. Kestner '55
- Charles G. Kellogg '66
- John P. Klus, P.E., Ph.D. '57
- James L. Krause '51, Deceased
- Kristine M. Krause '76
- Ronald M. Krump '57
- William H. Leder, P.E. '68
- Paul R. Liimatta, P.E. '61
- Roger W. Liska, Ed.D., P.E. '65
- Robert J. Luther '61
- Richard H. Lyon '76
- C. Thomas Maki, P.E. '71
- Roland A. Mariucci '58
- John F. Marshall '68
- William F. Marshall '69
- Richard L. Masica, P.E. '58

## Academy of Civil and Environmental Engineers

*The twelfth Civil and Environmental Engineering ACADEMY induction was held on August 5, 2009. The ACADEMY was established in 1993 to recognize excellence and leadership in engineering and civic affairs of outstanding graduates and friends of the Civil and Environmental Engineering Department. Six alumni were honored bringing the ACADEMY membership to 98. For a complete list of members and biographies please visit our department web site: [www.cee.mtu.edu/alumni.html](http://www.cee.mtu.edu/alumni.html)*



Pictured left to right: R. Vriesman, F.W. Baxandall, C. T. Maki, J. Fortier, D. Sundberg, R. Pasquinelli

### F. William Baxandall, P.E. '59



Bill Baxandall completed his baccalaureate degree in civil engineering in 1959 and completed a master of science in civil engineering in May of 2010. His academic career was interrupted in 1955 by two years of service in the U.S. Army, Mountain and Cold Weather Training Command. Upon returning to Michigan Tech, he transferred from electrical engineering to his destiny in civil engineering. He worked for the US Forest Service as an engineer and spent the next

25 years in various positions. During the last 11 years of his time with the Forest Service, he was based in Juneau, Alaska serving as the Assistant Director of Engineering. Following his retirement in 1983, he started Baxandall Associates, a consulting engineering company in Juneau. Baxandall Associates, and later BRD Consultants, LLC, specialized in the design of small water and wastewater treatment systems and structural analysis and design.

### John A. Fortier, P.E. '78



John Fortier completed his baccalaureate degree in civil engineering in 1978. He is the President of Bacco Construction of Iron Mountain. Bacco Construction is a private company offering highway construction, concrete and asphalt paving, excavating, and site development services. Mr. Fortier joined Bacco following his graduation in 1978 and has served in his current role as President since 1997.



### C. Thomas Maki, P.E. '71



Tom Maki completed his baccalaureate degree in civil engineering in 1971. Following graduation, he joined the Michigan Department of Transportation and over the next 30 years advanced through the Resident Construction Engineer and District Engineer positions to the executive level as the Chief Operations Officer. In his role as COO, he was responsible for the Department's annual \$1.5 Billion Capital Improvement Program and for executing the Department's scheduling and budgetary goals through the 2500 employees in the Bureau of Highway Operations, Bureau of Highway Technical Services, and the Bureau of Planning. Mr. Maki has been using his program and project management expertise in the consulting engineering arena since his retirement from MDOT in 2002. Currently he is serving as Vice President of Aztec Engineering Group, Inc. of Phoenix, Arizona.

### Ronald J. Pasquinelli, P.E. '59



Ronald Pasquinelli completed his baccalaureate degree in civil engineering at Michigan Tech in 1959 and later earned a Master of Business Administration degree from Golden Gate University. In 1960 Mr. Pasquinelli was commissioned as an officer in the U.S. Navy Civil Engineering Corp. During his military service he was a project manager and company commander with U.S. Naval Construction Forces in the western Pacific. Ron has continued to be an active supporter of Michigan Tech over the years. In 1995 the Ronald J. and Marie B. Pasquinelli Educational Opportunity endowed scholarship fund was established; the scholarship will be funded through a planned gift in excess of \$1 million. In 1999 he was awarded the Michigan Tech Board of Control Silver Medal in recognition of personal accomplishment.

### Darryll L. Sundberg, P.E. '74



Darryll Sundberg earned two baccalaureate degrees at Michigan Tech, electrical engineering in 1971 and civil engineering in 1974. Following graduation, he joined Brumm Construction of Marquette as a Superintendent/Engineer. In 1979 he started his own engineering consulting business, Sundberg Engineering. The founding firm was soon incorporated as Sundberg, Carlson and Associates offering a wide variety of engineering, surveying, and architectural services. The company grew to have five offices in Michigan with over 120 employees. Sundberg, Carlson and Associates was sold in 2001 to STS Consultants, LTD, which is now AECOM. Mr. Sundberg is currently the President of Sundberg and Associates, Inc. of Marquette.

### Ronald R. Vriesman, P.E. '78



Ron Vriesman completed his baccalaureate degree in civil engineering at Michigan Tech in 1978 and his master's degree in environmental engineering at the University of Illinois (Urbana-Champaign) in 1980. Mr. Vriesman is currently a Partner in Environmental Resources Management, Inc. (ERM), a global environmental, health and safety consultancy headquartered in London, England. Mr. Vriesman has worked for ERM in Holland, Michigan for the past 26 years (prior to 1999 the company conducted business as Dell Engineering, Inc.) Prior to ERM, he spent 3 years as a research engineer with NCASI (a paper & pulp industry related environmental research and advocacy group) in Kalamazoo, Michigan.

### ACADEMY of Civil and Environmental Engineers Membership *continued*

David I. Matson '69  
Gerald J. McCarthy, P.E. '48  
Franklin D. Meyers, P.E. '57, Deceased  
Edward S. Neumann, Ph.D., P.E. '64  
Kenneth E. Noll, Ph.D., P.E. '59  
Melvin E. Orchard, P.E. '49  
John E. Paas, Jr., P.E. '41, Deceased  
Ronald J. Pasquinelli, P.E. '59  
Peter G. Perla, P.E., R.L.S. '38  
Warren B. Peterson '52  
Rob L. Petroelje, P.E. '74  
Linda D. Phillips, P.E., PMP '77  
David P. Post '56  
Joseph M. Post '50  
Damoder Pati Reddy, Ph.D., P.E. '62  
Delmar R. Rediger '58  
Thomas J. Rentenbach, D.E., P.E. '32, Deceased  
Brian C. Rheault, P.E. '82  
David T. Rowe, P.E. '51  
William E. Saul, Ph.D., P.E. '55  
Kenneth D. Seaton '51  
Robert F. Seaton '52  
Marvin L. Sorvala, P.E. '72  
Todd I. Stewart, Ph.D. '68  
Mark R. Stumpf, Ed.D., P.E. '65  
Darryll L. Sundberg, P.E. '74  
Richard G. Timmons, P.E. '69  
Robert M. Thompson, Honorary Member  
Donald F. Tomasini '54, Deceased  
James D. Townley, P.E. '71  
Frank C. Townsend, Ph.D., P.E. '62  
Clarence P. Ulstad, P.E. '50  
Paul D. Uttormark, Ph.D. '62  
Jerold B. Van Faasen, P.E. '34, Deceased  
Thomas Valent, P.E. '73  
John O. Vartan, P.E., R.L.S. '70, Deceased  
Louis C. Verrette '34, Deceased  
William C. Verrette '61  
Ronald R. Vriesman, P.E. '78  
Douglas M. Watson, P.E. '73  
Helmuth Wilden, P.E. '65  
Daniel White '69  
Richard D. Wilcox, P.E., P.S. '82  
George H. Williams, P.E. '52  
Steven E. Williams, P.E. '73  
Theodore C. Williams, P.E., D.E.E., Honorary Member  
William J. Winiarski, P.E., P.S. '73  
Norman D. Witteveen, P.E. '61, Deceased  
Robert C. Wylie, P.E., R.L.S. '47  
Philip C. Youngs, P.E. '57, Deceased

## Academy of Civil and Environmental Engineers

### Wilden Receives 2010 PCI Medal of Honor



Helm Wilden '65, a Michigan Tech Academy member, was awarded the 2010 PCI Medal of Honor on May

30, 2010 at the Precast/Prestressed Concrete Institute's 56th Awards Breakfast. The Medal of Honor is PCI's highest award, recognizing a member's outstanding service to the institute or contributions to the industry over a long period of time. Wilden has also been honored by PCI as a founding fellow (1994), Titan of the Industry (2004), and in 2007 won the Robert J. Lyman Award, recognizing the PCI Journal paper that offers the greatest contribution in the area of plant production, site erection, or general construction using precast and prestressed concrete.

Wilden founded H. Wilden and Associates, Inc. in 1978 as a one-person precast/prestressed concrete engineering and drafting operation. The company grew steadily to become one of the leading specialty engineering consultants in the industry. In 2005, Wilden founded his current company, Wilden Enterprises Inc. in Hilton Head, South Carolina.

he also served on the Department of Civil and Environmental Engineering Professional Advisory Committee and was elected to the Academy in 1993. The memorial funds will be used for student and departmental projects and initiatives.

### Burd Hikes Memorial Fund Established



The Burd Hikes CEE Memorial Fund was established in July of 2009 through a generous gift of \$50,000 from the

Hikes estate. Burd Hikes '49, retired as president of Lakeside Equipment Corporation in 1991. Hikes had been recognized for his active support of Michigan Tech with the Board of Control Silver Medal Award (1975)



### Catch of a Lifetime

Tom Healy, Academy member and retired President of Grand Rapids based Owen-Ames-Kimball Co., is pictured holding a 41 pound brown trout which broke the state record by a wide margin and is a potential world record. Tom made his once-in-a-lifetime catch on September 9, 2009 on the Manistee River.



## 2009 Academy Induction—Portage Lake Cruise

A beautiful morning and gourmet breakfast was enjoyed by Academy members and guests aboard the Keweenaw Star on a Portage Lake cruise. The boat trip has become a regular event on the morning following the Academy induction.



**Above:** Phil '60 and Sylvia Frederickson

**Left:** Dan '69 and Mary Beth White

**Right:** Linda Phillips '77 with Leonor Dominguez Ortiz, a guest visiting from Bolivia



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Dr. Bill Bulleit

### Faculty

Theresa M. Ahlborn  
Bernie D. Alkire  
Martin T. Auer  
C. Robert Baillod \*  
Brian D. Barkdoll  
Jennifer Becker  
William M. Bulleit  
Qingli Dai  
George R. Dewey  
Paul V. Doskey  
Mike Drewyor  
Veronica Griffis  
David Hand  
Devin Harris  
Jacob Hiller  
Ralph J. Hodek  
Neil Hutzler  
Pasi Lautala  
William Leder  
Yue Li  
Kris G. Mattila  
Alex S. Mayer  
Amlan Mukherjee  
Kurt Paterson

Judith Perlinger  
L. Bogue Sandberg \*

Eric Seagren  
William J. Sproule  
R. Andrew Swartz  
Noel Urban  
Stanley J. Vitton  
David Watkins  
Wu, Shiliang  
Zhanping You  
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### Department & Research Staff/Faculty

Kimberly Besonen, Secretary  
Amanda Cadwell - Office and Account Assist.  
Rob Fritz - Technical Lab Coordinator  
Thomas Gemignani - Comp. Support Spec. II  
Jeff Hilss, Computer User Support Specialist  
David L. Perram - Rsrch Engr./Scientist II  
Julie Z. Ross - Undergrad Academic Advisor  
Shelle Sandell - Tech. Com./Budget Coord.  
Christopher Wojick - Senior Rsrch Engineer

### Michigan Tech Transportation Institute

Larry Sutter - Professor and Director

### University Transportation Center (MiSTI)

Lawrence Sutter - Director  
Elizabeth Hoy - Assistant Director

### Center for Structural Durability

Tess Ahlborn - Director

### Transportation Materials Research Group

Stanley Vitton - Director  
Karl Peterson - Research Assistant Professor  
James Vivian III - Program Manager

### Tribal Technical Assistance Program (TTAP)

Bernard Alkire - Director  
Amanda Abramson - Secretary  
Scott Bershing - Editor  
John Velat - Manager

### Center for Science and Environmental Outreach

Neil Hutzler - Director  
Joan Schumaker-Chadde - Ed Prog. Coord  
Lloyd Wescoat - Ed. Prog. Assistant

### Civil & Environmental Engineering Professional Advisory Committee

*Richard Anderson, P.E.  
SOMAT Engineering, Inc.*

*Thomas Blust, P.E.  
Oakland County Road Commission*

*Rhett Gronewelt, P.E.  
Orchard, Hiltz & McCliment, Inc.*

*Mark O. Lentz, P.E.  
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*Steve Tomaszewski  
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*Amy Trahey, P.E.  
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*Paul Wade, P.E.  
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