

CONNECTIONS

DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING

Buch New Chair of CEE Department

Neeraj Buch is the new chairperson of the Department of Civil and Environmental Engineering.

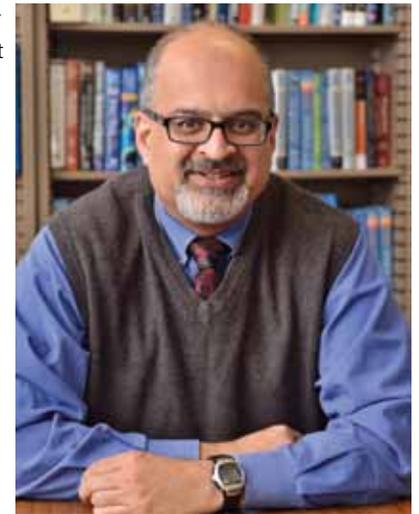
Buch, who joined MSU in January 1996 after receiving his PhD from Texas A&M University, has been serving as acting chairperson for the department for the past year, and previously served as director of the college's freshman engineering and residential programs—now known as the CoRe (Cornerstone and Residential) Experience. He received his master's degree from the University of Michigan in 1988 and his bachelor's degree from Sardar Patel University—India in 1986.

His research interests are design, evaluation, and rehabilitation of concrete pavements. His work includes performance analysis of pavements design using concrete, recyclables, composites, and other materials.

Buch is a fellow of the American Concrete Institute, a member of several professional organizations including the American Society of Engineering Education and the Transportation Research Board, and currently serves as associate editor of the *ASCE Journal of Transportation Engineering*. He is the recipient of numerous teaching and research awards.

"The department is well positioned to become preeminent in research while maintaining a high-quality undergraduate program, and strong, visible international programs," says Buch. He plans to strengthen the department's research core while developing research in new areas, such as sustainable civil infrastructure systems, water systems, and urban systems.

At the same time, he hopes to strengthen undergraduate and graduate programs and grow the study abroad program in Turkey and possibly other countries. "The study abroad program has the potential to



Neeraj Buch

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2012 CEE Distinguished Alumni Award

Sandra L. Woods (BS '76) received the 2012 Civil and Environmental Engineering Distinguished Alumni Award at the annual College of Engineering Alumni Awards Banquet in May. The award, first presented in 2003, recognizes graduates of the department who are leaders in their profession; contributors to the department, college, or the university; and community leaders whose actions reflect favorably on Michigan State University.

Woods was the dean of engineering at Colorado State University (CSU) at the time she received the award. This summer she was named dean of the College of Engineering at

Oregon State University. She had served as dean of engineering at Colorado State University since 2006, and was interim dean for one year prior to that.

During her tenure as dean, CSU's College of Engineering research expenditures increased from \$50.1 million in FY '06 to \$63.9 million in FY '11. The number of PhD graduates rose 48 percent since the 2005/06 academic year. The college has secured \$66 million to construct a new 122,000-square-foot engineering building, and will also break ground on an \$18 million addition to their Engines and Energy Conversion Laboratory this year.



CEE Emeritus Professor Mackenzie L. Davis presented Sandra Woods with the CEE Distinguished Alumni Award at the 2012 ceremony.

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from the Chair

NEERAJ BUCH

For the spring 2012 newsletter I authored this message as the “interim” chairperson of the Civil and Environmental Engineering Department. I am happy to report that as a result of a national search I was selected as the permanent chairperson of the department effective August 1, 2012. Being the chairperson is an awesome responsibility and I would like to thank the faculty, staff, and students of the department for placing their confidence in me to lead the department forward over the next five years.

The ABET visitors will be on campus early October to evaluate the newly established bachelor of science program in environmental engineering. The preparations for the visit are in full swing and I would like to thank in advance the members of the professional advisory board for taking time out of their busy schedules to meet with the ABET evaluators.

In May the department celebrated the 10th anniversary of the Civil Infrastructure Laboratory

(CIL). The CIL is a dedicated facility for materials, pavement, and structural engineering research with diverse space and equipment for micro-, meso- and macro (large)-scale testing, and associated office space for faculty, staff, and students. CEE alumni, faculty, students and staff attended the festivities and the social hour provided an opportunity to reminisce and talk about what all can be accomplished in the laboratory over the next 10 years.

This has been a banner year for our alumni. Our alumni have received distinguished alumni awards, elevated to positions of leadership at the state, national, and international levels, and received recognition for their contributions from professional engineering societies. I invite you to read about these accolades in the Alumni Connections section of the newsletter.

CEE junior Caroline Williams was recently awarded the Mackinac Scholarship, which was named in honor of Michigan’s No. 1 civil engineering project of the 20th Century by the ASCE Michigan Section; senior CEE student Michael Krcmarik is the 2012 recipient of the James B. Sorenson memorial pavement preservation scholarship, presented by the National Center for Pavement Preservation (NCPPE); and environmental engineering freshman Kathleen Haynes is one of three incoming freshmen who have been

selected to receive Von Ehr Scholarships for the 2012-13 academic year.

The CEE department’s study abroad program in Turkey is growing and continues to get rave reviews from students who participate. This summer 15 students from MSU were involved in the program.

The CEE department will continue to build on its strengths in the areas of water management, environmental security, sustainability, and human and ecosystem health. Efforts are underway to complement the existing expertise in the structural engineering, mechanics and materials group by adding faculty in the areas of materials synthesis and characterization, and computational simulation. These complementary areas of expertise will increase capabilities and competitiveness in the realization of complex materials solutions across engineering disciplines, with the most prominent opportunities in the fields of energy, sustainability, and biomedical engineering.

In closing, I am honored to serve as the chairperson of the department and would like to thank all those who have made the transition from interim chair to permanent chair seamless. As always, I urge you to stay connected with your alma mater! 🌱

New Chair

(continued from page 1)

provide life-changing experiences for participating students and give them a competitive edge in the marketplace.”

Buch realizes that the department will need ongoing funding to sustain its goals. “My experiences with fundraising and development with the CoRe initiative will be useful in approaching and accomplishing this work.”

Buch is optimistic about the opportunities for the department in the years ahead. “I was energized during my tenure as interim chair and see the possibilities of what can be accomplished by our department.” 🌱

CEE Professional Advisory Board

The CEE Professional Advisory Board is a volunteer group of business and engineering professionals. The vision of the board is to deliver value through experience to the students, faculty, and alumni of the department.

The current board members include:

Joseph Alberts, principal engineer, FK Engineering, Shelby Township, Mich. Alberts is the current chair of the advisory board.

Ronald W. Brenke, executive director, American Council of Engineering Companies – Michigan, Lansing, Mich. Brenke is the vice-chair and secretary.

Laura Aylsworth-Bonzelet, branch manager, URS Corporation, Traverse City, Mich.

Daniel G. Fredendall, executive vice president, Orchard, Hiltz & McCliment, Inc., Livonia, Mich.

Stephanie Luster-Teasley, associate professor, Environmental and Water Resources, College of

Engineering, North Carolina A&T State University, Greensboro, N.C.

Timothy D. McNamara, principal and senior vice president, Fishbeck, Thompson, Carr & Huber, Inc., Grand Rapids, Mich.

Thomas Nelson, major projects engineer, Federal Highway Administration, Innovative Program Delivery Office, Washington, D.C.

Scott Stowitts, senior project manager, Walbridge, Detroit, Mich.

Joellen Thompson, water system manager, Grand Rapids Water System, City of Grand Rapids, Grand Rapids, Mich.

Steven J. Vandette, city engineer, Troy, Mich.

Mark Van Port Fleet, director, Bureau of Development, Michigan Department of Transportation, Lansing, Mich. 🌱

Alumni Award (continued from page 1)

In addition, annual gifts to the college have increased from \$5.5 million in FY '06, to more than \$25 million in FY '11. FY '12 gifts exceed \$50 million.

As a result of her work as dean, she received the General Palmer Award from the Colorado Section of the American Council of Engineering Companies (ACEC) in 2010 in recognition of "outstanding contributions to engineering in the state of Colorado."

After obtaining her bachelor's degree in civil engineering from MSU in 1976, Woods worked for Johnson and Anderson, Inc., in Pontiac, Mich.; at Giffels Associates, Inc., in Southfield, Mich.; and at Olympic Associates, Inc., in Seattle, Wash. She earned her master's (1980) and doctorate (1985) degrees in civil engineering from the University of Washington.

An environmental engineer, she specializes in the bioremediation and biotransformation of environmental contaminants. She was awarded an NSF Presidential Young Investigator Award in 1985 for her work related to the biotransformation of chlorinated phenolic compounds in anaerobic environments.

Over the years, Woods taught a variety of courses at Colorado State and Oregon State Universities and in 1998 was awarded the College of Engineering Loyd Carter Award for Outstanding and Inspirational Teaching by Oregon State University. She has held numerous administrative positions. She served as interim dean of Distance and Continuing Education at Oregon State University, as head of CSU's Department of Civil Engineering, and as interim vice provost for special projects and interim vice provost for faculty affairs at CSU. She has led CSU's Graduate School, Office of International Programs, and Division of Distance and Continuing Education. In addition, Woods has served on a number of committees and advisory boards at university, college, and departmental levels.

Woods and her husband, Richard Williams, reside in Fort Collins, Colorado. They have two sons, Eric and Ross Williams. Eric is a junior at Colorado

State University, majoring in health promotion, and Ross is a sophomore at Bradley University, majoring in history and teacher education. 🌟

Oregon State University Names Woods New Dean of College of Engineering

Sandra Woods, a former Oregon State University environmental engineer who has led the engineering program at Colorado State University for the past seven years, was named dean of the university's College of Engineering in July.

Woods replaced Ron Adams, who stepped down as dean to lead a new initiative at Oregon State on industry relations as executive associate vice president for research.

Before going to Colorado State to head up the College of Engineering, Woods was on the engineering faculty at Oregon State, where she also helped launch the university's distance and continuing education programs.

"Sandra Woods is an experienced and visionary leader who directed Colorado State's engineering program through an impressive period of growth in enrollment, research, and impact," says Sabah Randhawa, Oregon State's provost and executive vice president. "She also has led numerous initiatives with distance learning and graduate education and she has been an advocate for women pursuing engineering as a career. We're delighted to bring her back to our campus."

As dean of Oregon State's College of Engineering, Woods took over the leadership of a college with an annual budget of \$73 million, a total of 253 faculty and staff, and more than 5,200 students.

Faculty Connections



Curricular Service-Learning and Civic Engagement Award

Professor **Susan Masten** is one of the recipients of the MSU Curricular Service-Learning and Civic Engagement Awards. She was nominated for the honor by Satish Udpa, dean of the College of Engineering, and Thomas Wolff, associate dean of the college. The awards are given in each college to faculty members or academic specialists who have demonstrated innovative and/or sustained efforts in academic, curricular service learning, and civic engagement.

Masten was the leading force in developing the bachelor of science degree in environmental engineering, which had its first graduate in December 2011. She is

well known for her research on the in-situ use of gaseous ozone to oxidize residual contaminants in saturated soils using ozone sparging and in unsaturated soils using soil venting. Her research involves the use of chemical oxidants for the remediation of soils, water, and leachates contaminated with hazardous organic chemicals. Masten has been working extensively to develop water treatment technologies that are more effective and suitable for use in decentralized water treatment systems. She also is evaluating water treatment technologies for developing countries, and is looking at improving ceramic water purifiers for pathogen removal.

The award was presented November 9 at the MSU Kellogg Center. 🌟

Alumni Connections

Jeff Cockfield (BS '87) has joined the Traverse City office of McKim & Creed as a senior project manager. During the past 20 years Cockfield has been involved in numerous regional projects, including multiple utility projects with the city of Frankfort, wastewater system improvements for the village of Onekama, Master Plan study for the city of Traverse City Clinch Park Marina, Wuerfel Stadium baseball facility, multiple utility design projects for the Grand Traverse Resort and Spa, Glen's Landfill, and the Kemp Marina for the city of Sault Ste. Marie.



Patrick Droze (BS '05) is the winner of the 2012 American Society of Civil Engineers (ASCE) Young Civil Engineer Award. He was honored by both the Michigan and Southeastern Michigan sections of ASCE.

Beating out candidates from across the Great Lakes State, Droze received the state awards in May. The awards, given annually, recognize engineers under the age of 35 for significant achievement based on professional contributions and service to the community.

Droze is a design and project engineer for the

regional architecture, engineering, and planning firm Orchard, Hiltz & McCliment, Inc. (OHM). During college, Droze served as president of the ASCE Student Chapter and was the recipient of the Conrad Service Award in 2005.

He has designed water, sewer, and roadway improvement projects for municipalities across Michigan and Ohio. He specializes in storm water management projects where he has conducted several hydraulic studies as well as designs for drainage improvements, erosion control, and stream bank stabilization.

"Pat's been with us since his internship," says Kent Early, OHM's municipal services director. "It's been a pleasure to watch him become the professional he is today. He's a bright, talented engineer with limitless potential."

Tom Hufnagel (BS '91), a 20-year Illinois Department of Transportation (IDOT) veteran, was named Statewide Engineer of the Year for his outstanding contributions at the agency. He also received the District 3 Engineer of the Year Award.

Hufnagel is the design and planning engineer in the Bureau of Operations for IDOT District 3, which includes several counties in northeastern Illinois. He secured federal funding for regional improvements, which included building a network

of dynamic message boards and constructing security architecture for the Interstate 39 Abraham Lincoln Bridge over the Illinois River with homeland security funding.

Joseph Hummer (BS '83, MS '85) is the newly appointed chair of the Department of Civil and Environmental Engineering in the College of Engineering at Wayne State University.

Most recently Hummer was a professor in the Department of Civil, Construction and Environmental Engineering at North Carolina State University, where he researched and taught traffic operations, highway design, and highway safety for the past 20 years.

He has published more than 80 journal articles from more than 50 funded research projects. His research has resulted in the appearance of new material in the *Highway Capacity Manual* (a core reference in the field) and federal government approvals of fluorescent warning signs at pedestrian walkways. He is an international leader in the development and testing of unconventional intersection and interchange designs.

Hummer was elected a fellow of the American Society of Civil Engineers (ASCE) in 2008. He has been chair of the Institute of Transportation Engineers Educator's Council and an editor for the

An International Graduate Looks Back



The CEE department was pleased to hear from **Shunsuke Sakurai** (PhD '66), now professor emeritus of Kobe University and Hiroshima Institute of Technology in Japan.

Sakurai started his graduate studies at MSU 50 years ago as a Fulbright exchange student from Japan. His thesis was related to high-level radioactive waste disposal in rock salt. His thesis adviser was the late Shosei Serata, a longtime professor in the department. "I learned a lot about applied mechanics, particularly rock mechanics, during my studies at MSU," says Sakurai via e-mail.

That beginning at MSU was a major force in his long career. Sakurai returned to Japan after obtaining his PhD and joined Kobe University as an assistant professor of structural mechanics in the civil engineering department. He became a full professor at Kobe in 1974. Sakurai continued with research in the area of rock mechanics and was involved in various rock mechanics projects not only in Japan, but also in other countries.

Because of his work with the International Society of Rock Mechanics (ISRM), Sakurai became an ISRM Fellow, part of a group of eight who were the first fellows of the society. He officially retired from Kobe University in 1999, but continued with many activities including four years as the president of Hiroshima Institute of Technology in Hiroshima, Japan. In 2003 he went back to Kobe University and worked as president

of the Construction Engineering Research Institute Foundation. In 2011 he was awarded what Sakurai says is his "greatest honor;" he was the recipient of the Order of the Sacred Treasure from the Japanese emperor for his long-term contributions to research and education in the rock mechanics community.

"More than 45 years have passed since I graduated from MSU, and I am pleased to say that I was able to contribute to the further development of rock mechanics," says Sakurai, "I am confident that my successful contributions are surely due to my excellent education received at MSU. I would like to thank Dr. Serata, my guidance committee members, and all other professors who taught me, for their kind guidance. My thanks are also due to friends in East Lansing who supported me during my stay." 🌸

ASCE *Journal of Transportation Engineering*. He is currently on the *Journal of Transportation Safety and Security* editorial board.

William (Bill) Kussro (BS '91, MS '92), a civil and structural engineering manager at Giffels, LLC / IBI Group in the Southfield, Mich., office, has been named 2012 Structural Engineer of the Year by the Structural Engineers Association of Michigan. The award is presented to a structural engineer who has been practicing for more than 12 years, in recognition of outstanding achievements in structural engineering, mentoring younger engineers, and contributions to improve the quality of life for the general public.

Kussro joined Giffels, LLC / IBI Group in 1995 and was promoted to manager of the structural and civil engineering department in 2005. As department manager, he is responsible for a group of 30 structural engineers, civil engineers, and CAD designers. He is also directly involved in marketing, project estimating, staffing, manpower projections, and other management-related efforts within IBI Group. He holds professional civil and structural engineering licenses in 49 states as well as the District of Columbia and Province of British Columbia.



Paul Markel (BS '80) has joined RS&H as a senior transportation engineer in the Orlando, Fla., office. Markel has more than 30 years of experience in transportation design and

management, including projects for the Florida Department of Transportation, Orlando-Orange County Expressway Authority, and other public and private clients. He is a registered professional engineer in Florida and a member of the American Society of Highway Engineers. RS&H is one of the nation's leading facilities and infrastructure consulting firms; they have 33 offices nationwide.

Chaopeng Shen (PhD, CEE, '09) has been named an assistant professor of water resources engineering at Penn State University. Shen's research areas include large-scale hydrology, computational hydrology, land surface processes, water-carbon-nutrient interactions, and high-performance computing.

His adviser at MSU for his PhD was CEE associate professor Phanikumar Mantha; his

dissertation was "A Process-Based, Distributed Hydrologic Model and its Application to a Michigan Watershed." Prior to joining the Penn state faculty, Shen was a postdoctoral fellow in the Computational Research Division at the U.S. Department of Energy Lawrence Berkeley National Laboratory in Berkeley, Calif.

Gene L. Stygles (BS '82) of Medina, Ohio, was recently appointed as chief of the Facilities Division in the Facilities and Test Directorate at NASA's Glenn Research Center.

In this new position, Stygles will manage 150 employees who provide planning, engineering, and project management for facilities design and construction projects as well as the maintenance, operations, and overall management of institutional systems. He brings a wealth of experience to this position with more than 28 years of NASA experience in facility program/project management and construction implementation. Stygles is a registered professional engineer in Ohio.

His experience in large programs includes work on the Advanced Solid Rocket Motor Program, the National Wind Tunnel Complex, and the Facility Relocation Program associated with the Cleveland Hopkins International Airport's expansion. Assignments include detail opportunities as test engineer at the 8- by 6-foot Supersonic Wind Tunnel and as manager of the Construction of Facilities Program at NASA Headquarters in Washington.



Keith Swaffer (BS '77, MS '79) is the 2012-13 president of the American Council of Engineering Companies of Michigan (ACEC/M). Swaffer has been with NTH Consultants, LTD, in Detroit, for more than 33 years and

currently serves as the chairman of the board.

Swaffer has been an active participant in ACEC committees on both the state and national levels, and has served on the board as well as being a longtime member of the legislative committee. He is the chairman of the ACEC Retirement Trust. He has also served on several committees and held leadership roles with the Michigan Society of Professional Engineers and the Michigan State University College of Engineering.

James K. Wight (BS '69, MS '70) has been elected president of the American Concrete Institute (ACI) for 2012-13.

Wight, the F.E. Richart, Jr. Collegiate Professor of Civil and Environmental Engineering at the University of Michigan, is well known for his work in earthquake-resistant design of concrete structures. His most recent research has concentrated on the use of high-performance fiber-reinforced concrete composites for earthquake-resistant design of critical members in concrete structures. He has been involved with post-earthquake damage studies following earthquakes in Mexico, Chile, Armenia, Egypt, California, Japan, and India.

Wight has been an active ACI member since 1973 and was named a fellow of the institute in 1984. He is the immediate past chair of the Structural Concrete Building Code Committee 318. ACI has previously honored him with several other awards. He has also received distinguished alumnus awards from the civil and environmental engineering departments of Michigan State University and the University of Illinois.

Fishbeck, Thompson, Carr & Huber, Inc. has announced numerous promotions for staff who have graduated from MSU. They include:

- **Leigh Merrill** (BS '07) has joined FTC&H's Farmington Hills office. Most recently, Merrill has been involved in the bridge design team for the South Carolina Department of Transportation.

- **Kerri A. Miller** (BS '97) has been promoted to senior associate/vice president. Miller joined the firm in 2000 and became a licensed professional engineer in Michigan in 2004.

- **Kyle A. Patrick** (BS '02) has been promoted to senior engineer. He joined the company in 2002 and is involved with transportation design projects for MDOT and local agencies.

Serving clients for more than 55 years, FTC&H is a full-service civil engineering, environmental, architectural/engineering, and construction management firm with more than 300 employees. 🌱

In Memoriam

James Dykstra (BS CE '49), 86, of Port Huron, Mich., died April 10, 2012, after a brief illness.

Gerald L. Trout (BS CEE '56) age 83, died August 8, 2012.

To read complete obituaries, visit www.egr.msu.edu/alumni/class-notes-obits.

Student Connections

James B. Sorenson Scholarship



Senior CEE student **Michael Krcmarik** is the 2012 recipient of the James B. Sorenson memorial pavement preservation scholarship, presented by the National Center for Pavement Preservation (NCPPE).

Krcmarik, a National Civil Engineering Honor Society student who is currently completing his bachelor's degree, has been accepted into the pavement engineering graduate program at MSU.

He already has been able to draw on his experience, which includes working as a technician in the department's Advance Asphalt Characterization Lab, and as an engineering co-op student working to digitize county drain engineering plans. He has a bachelor's degree in crop and soil sciences, which he received in 2010.

The James P. Sorenson Memorial Pavement Preservation scholarship honors Sorenson, a leader and dedicated advocate in the field of pavement preservation. He was instrumental in the establishment of the National Center for Pavement Preservation at MSU.

2012-13 Von Ehr Scholars



Environmental engineering freshman **Kathleen Haynes** is one of three incoming freshmen who have been selected to receive Von Ehr Scholarships for the 2012-13

academic year.

A \$1 million endowed scholarship fund was established in 2006 by James R. Von Ehr II, a 1972 computer science graduate and successful entrepreneur who has long demonstrated his commitment to MSU and the college through service and philanthropy. The intent of the scholarships is "to provide financial assistance to outstanding undergraduate students who come from humble backgrounds, as I did," says Von Ehr.

Qualified prospective students—those scoring in the 90th percentile and above on national placement exams and who have a proven financial need—are invited to apply for the

scholarships, which are renewable for four years. Incoming freshman applicants are required to write a brief essay that describes their idea of the meaning of "free enterprise," "liberty," and "open world markets," and relate how these principles help to promote creativity and the transmission of technological benefits to different world cultures and society in general.

"I chose engineering because I have always been good at math and science, but mainly because I want to make an impact on the world and contribute," says Haynes, who is from Dimondale, Mich. "I believe engineering is a great way to do that. As a teenager growing up, I often saw the impact of past generations. I believe becoming an engineer is an important step for me to give back."

To her, the scholarship means that she can get more involved in community service and other projects. "When I think about how I am being supported, it encourages me to go out and find things I can do right now to help out," says Haynes. She hopes to get involved with the Anime Club, the Environmental Engineering Student Society, and MOSAIC.

Haynes currently is a member of the Society of Women Engineers, People Respecting the Individuality of Students at MSU (PRISM), and MSU's Women in Engineering program. She is part of the Honors College and a professorial assistant. Haynes is the daughter of Gary and Carla Haynes

The other two students receiving the scholarship are Carson Laurenz of Midland, Mich. (chemical engineering), and Kyle Swinkin of Livonia, Mich. (computer science and engineering).

Mackinac Scholarship



CEE junior **Caroline Williams** was recently awarded the Mackinac Scholarship, which was named in honor of Michigan's No. 1 civil engineering project of

the 20th century by the ASCE Michigan Section membership in December 1999. The Mackinac Scholarship is intended to recognize a premier civil engineering student from Michigan. The

award is presented annually and consists of a two-year grant of \$5,000 each year to students entering their junior year at an ABET-accredited civil engineering program. The award considers merit, personal initiative, and financial need, and encourages both participation in a student chapter of ASCE and contributions to the advancement of student engineering.

Williams is from Canton, Mich., and is the daughter of Marlene Turbett and Gary Williams. She originally chose civil engineering because she was interested in bridges. "I still love bridges, but now I am interested in structures as a whole," says Williams. "I recently realized that I love civil engineering because I love helping people. Nearly every sort of civil engineering project helps the public as a whole, and I hope to create structures that are more safe, efficient, and sustainable."

She is extremely proud and honored to receive this award. "Of all the awards I have won, this means the most and keeps me motivated to do well with the activities that I am involved in."

Williams is co-captain for the steel bridge team and also helps with the concrete canoe team. She is a member of the Student Engineering Council E-Board and serves as the board's representative for the Engineering Undergraduate Studies Committee. Williams also is a member of the student chapter of the Society of Women Engineers and has worked as an undergraduate researcher under CEE associate professor Rigoberto Burgueño.

International Corporate Tour

Sara Mozdrzech, a CEE senior, participated in an intensive two-week international tour held in May 2012. The tour gave 10 MSU College of Engineering and Eli Broad College of Business students a firsthand look at international corporations and the global marketplace. Stops on the International Corporate Tour (ICT) included BP (Sunbury, UK), Alcoa (Birmingham, UK), Whirlpool (Comerio, Italy), Alpine Convention (Bolzano-Bozen, Italy), Bosch Corporation (Stuttgart, Germany), Eaton Corporation (Rastatt, Germany), and Rampa (Hamburg, Germany).

Along with unique perspectives into their organizations, host employers engaged students in project simulations. Examples included "The



Five College of Engineering students participated in the first International Corporate Tour in May 2012.

Trading Game,” presented by BP in Sunbury, England; lunch on the factory floor at Rampa (an MSU alumni-owned engineering firm) that manufactures screws, inserts, and other fasteners; and problem solving with representatives of the Alpine Convention, which is an agreement between various countries for the protection and sustainable development of the Alpine Region.

“The students embraced the opportunity to understand other cultures both from a social perspective as well as a corporate perspective,” says Bernadette Friedrich, director of student engagement for the Center for Spartan Engineering.

“They saw companies that they are familiar with in an unfamiliar environment and learned that even large corporations have to prepare for and react to local culture while having a global presence.”

Mozdrzech says that the tour was finally her time to travel abroad. “I have experienced many important Spartan milestones and this was something that had always been on my list of things to do. Seeing company cultures outside the U.S. was an eye-opening experience and definitely something I want to consider as I apply for full-time jobs.”

Her favorite part of the tour was London,

England. “It is so iconic and an awesome lead-in to European culture. However, I really liked the tour because it was very fast paced. We saw so many places and companies in two weeks,” says Mozdrzech, who is from Macomb, Mich.; she is the daughter of Larry and Sue Mozdrzech.

Not only did the students, like Sara, benefit from the tour, which is in its first year, but several companies on the tour expressed an interest in working with the College of Engineering and Eli Broad College of Business to provide internship opportunities for MSU students, both domestically and internationally.

Participants were selected based on not having been abroad before; having a solid GPA (at least a 3.0); being involved in extracurricular activities; and balancing a work/school schedule. There were four other College of Engineering students on the tour in addition to Mozdrzech: Brittney Heatherington, mechanical engineering; Erin Hoffman, computer science engineering; Alexa Jones, biosystems engineering; and Angelica Minissale, electrical engineering.

The ICT was coordinated and led by the Center for Spartan Engineering and the Lear Career Center. 🌱

Study Abroad in Turkey

The CEE department’s study abroad program in Turkey is growing and continues to get rave reviews from students who participate. This summer 15 students from MSU were involved in the program.

“Going to Turkey was my first time overseas, and I had no clue what to expect, but being submerged in an unfamiliar culture for seven weeks was unbelievable,” says CEE junior Caroline Williams.

This is the second year for the program that is held at Anadolu University in Eskişehir, Turkey. Anadolu is a public university that is the fourth largest in the world by enrollment.

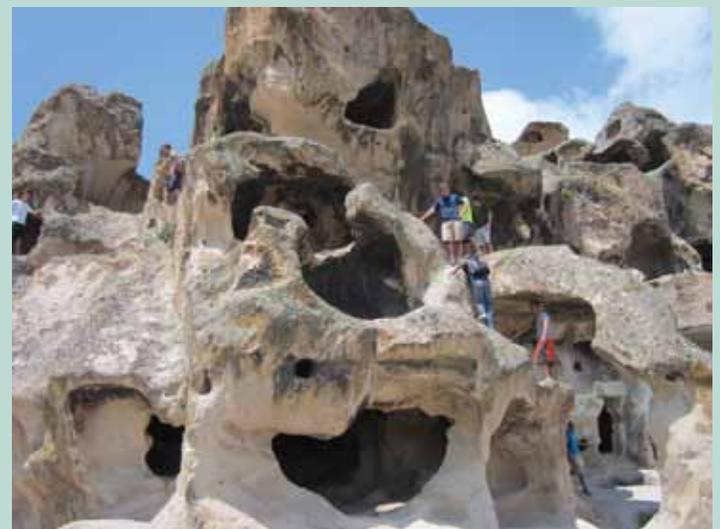
“Anadolu is a great opportunity for MSU and a study abroad program” says CEE assistant professor M. Emin Kutay, who leads the program. “The university has experience with study abroad programs with many European countries and has a staff specifically dedicated to study abroad.” In addition, the price of \$6,500 including tuition, transportation, accommodations, most meals, and planned excursions is very reasonable compared to other study abroad programs.”

Williams enjoyed Eskişehir, the city where the university is located. “It was fun being in Eskişehir because it is pretty much a student city, and our classmates and their friends were a ton of fun. Our leader Mehmet Erturk was extremely helpful to us because he coordinated all of the trips away from the university and helped us get around the city whenever needed.”

The group also visited Olympos in the southern part of Turkey, the Turkish capital Ankara, and Cappadocia, an area with interesting rock formations.

Other students on the Study Abroad in Turkey program, in addition to Williams, included Noor Aqel, Alex Blehm, Ryan Khodl, Jacob Kleinhenz, Chris Kowalski, Mike Krcmarik, James Maier, Sean Marti, Ryan McQuigg, Matt Owens, Qianqian Pan, Luke Prudhomme, Ross Simons, and Vince Tomczak.

A similar study abroad program is planned for 2013. More information on the program is available at <http://tinyurl.com/7mteeyt>. 🌱



Cappadocia provided interesting rock formations for climbing when the study abroad students took a break from their studies.

KEEPING IN TOUCH

NAME _____

STREET ADDRESS _____

CITY / STATE / ZIP _____ IS THIS A NEW ADDRESS? YES NO

OFFICE TELEPHONE _____ HOME TELEPHONE _____

E-MAIL _____

GRADUATION YEAR _____ DEGREE _____

CURRENT OCCUPATION _____

EMPLOYER _____ LOCATION _____

News of recent accomplishments, awards, or promotions (Use separate sheet if needed):

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GIFT INFORMATION

I/we wish to make a gift/pledge in the amount of \$ _____ designated for: _____

My/our total gift will be paid as indicated:

- Check payable to "Michigan State University"
- Credit card charge to: MasterCard Visa Discover AmEx

CARD NUMBER _____ EXP. DATE _____

NAME AS IT APPEARS ON CARD _____

SIGNATURE _____

A pledge of the following duration (maximum 5 years): _____

Enclosed is my first payment of \$ _____

Please send pledge reminders: Annually Quarterly Semiannually

beginning: _____ MONTH _____ YEAR

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Civil Infrastructure Lab Anniversary

The Civil Infrastructure Lab celebrated its 10th anniversary in May. Dedicated on May 9, 2002, the 10,000-square-foot facility, located southeast of the MSU campus at 2851 Jolly Road, features a deep, highly reinforced concrete floor and high-bay space for testing massive and/or tall structural components. Previously, researchers used a converted classroom as their lab space.

MSU researchers have used the lab to address pressing needs within Michigan and across the nation, including:

- Repair and rehabilitation of deteriorating roads and bridges.
- Development of stronger and more durable materials and pavements.

Rigoberto Burgueño, CEE associate professor, is the director of the Civil Infrastructure Laboratory. He was hired in 2000 to develop a program in innovative materials and structural engineering and to assist in the development of the lab. 🌟



CEE associate professor Rigoberto Burgueño (second from left) explains features of the Civil Infrastructure Laboratory during the anniversary celebration.