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Civil Engineering Department
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CIVIL ECHOES

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

Dr. Mark O. Federle Career Achievement Award 2005



Mark & Michelle Federle

Mark is an excellent example of a Rose-Hulman alumnus who has achieved major success in his professional career. After graduating from Rose-Hulman Mark went on to earn an MS and PhD in Construction Engineering and Management from The University of Michigan. While enrolled in graduate school Mark also worked for several Michigan contractors gaining valuable professional experience.

Upon completing his PhD Mark took a teaching/research position with Iowa State University rising to the rank of Associate Professor of Construction Engineering (with Tenure) and Professor-in-Charge of the Construction Curriculum. During his academic tenure Mark won numerous teaching awards all the while conducting research and providing consulting expertise to the construction industry.

Mark left Iowa State in 1999 to take a position with the Weitz Company as Director of Information Technology. Currently he is the Chief Information Officer and Vice President of the Weitz Company, a major US contractor.

Mark has continued to actively maintain a close relation with Rose-Hulman Institute of Technology. He has been a class agent since his graduation. He is an extremely active and valuable member of the Civil Engineering Board of Advisors, providing significant input into the design and evaluation of the Rose-Hulman Civil Engineering program. Mark has provided valuable review of a number of our senior design projects. He also has helped a number of Rose-Hulman students obtain summer internships in the construction industry and has directed our graduates to construction engineering employment opportunities.

Dr. Mark O. Federle is an excellent example of a successful Rose-Hulman graduate and a great role model for our students.

Mark Your Calendar

October 1, 2005—Homecoming Reception for Civil Alumni hosted by the CE Department

November 30, 2005—CE Board of Advisors Meeting

Chairman's Perspective

We have come to the end of another school year, and in many ways it has been a terrific one from my perspective. In fact, I was talking to a student last Friday and said, "Ah, the last day of classes - the second best day of the year." He looked puzzled, and finally said, "And the best day of the year is the last day of exams, right?" to which I responded, "No, the best day of the year is the first day of classes." Now I am not saying that all our students have this perspective, nor even the civil engineering faculty members. But it was a particularly good group of seniors and we will miss them.

What made these seniors so enjoyable to teach and mentor? That is easy to answer. They were hard-working and enthusiastic. The seven senior design projects they completed were collectively the best that I have received in my 17 years at Rose. And best of all, complaints and whining were minimal. (Keep in mind that some whining is a mandatory part of being a student.)

These seniors were also largely responsible for winning the coveted Ridgeway Award for having the best student chapter of ASCE in the country. I was surprised when we recently received the announcement, not because I underestimated the talents and accomplishments of this group of seniors, but because we had no clue that we were in the running for the award. You will recall that we last won the Ridgeway in 1998, the year after Cecil Lobo died. On behalf of the Civil Engineering faculty and staff, I want to congratulate the senior class of 2005 for this great accomplishment. I also want to thank Dr. Kevin Sutterer for his leadership as faculty advisor and Dr. Jim McKinney as practitioner advisor.

Civil Engineering Department News

- Two senior design projects were performed for the City of Greencastle (Glen Morrow, Class of 1991), a stormwater quality enhancement project and a fire training tower design.
- A new structures faculty member will be joining us in the fall of 2005. The addition of Dr. John Aidoo will push us up to a historical high of seven faculty members. (We will have an article about Dr. Aidoo in the next CE Echoes.)
- One of our more confident seniors (Jonathon Hawkins) applied for the faculty position in structures at Rose. We considered his application with all seriousness, for a very short time, and then let him down gently.
- The freshmen design field trip was to St. Louis, where we visited the airport expansion project, the new Busch Stadium, and the Eads Bridge. We want to thank David Maxwell (Class of 1991) for helping to organize the trip.
- One senior group designed the Covered Bridge Gateway Trail, an 18.5 mile shared use path, from north Terre Haute to Rockville. The project is a hot topic among bike clubs and state transportation money has already been offered for its implementation.
- Once again, all of our CE students sat for the FE exam this spring. Of course there is a big difference between sitting for the exam and passing the exam. Good luck!!
- A paper and presentation by Dr. Jim Hanson was good enough to win the 2005 ASCE Daniel V. Terrell Competition for younger members in District 9.
- Dr. Kevin Sutterer won the Outstanding Geotechnical Engineering Educator Award (Midwest Region) for 2005. The award was presented in Milwaukee in May.
- Chris Bauer (Class of 2002) set up and funded the annual Terry Bauer Construction Management Award. It is given to a rising junior or senior based on scholarship, a career interest in construction management, and an essay.

Terry Bauer Construction Management Award

This award is presented in honor of Terry Bauer, father of Christopher Bauer, RHIT CE Class of 2001. Nearing graduation Chris was uncertain about his professional interests and what career choice to make. He ended up interviewing many companies which eventually lead him to choose the field of Construction Management and construction leadership. Subsequent to his graduation Chris has experienced a very exciting career as a construction manager. He would like to encourage Rose Civil Engineering students to consider Construction Management as a highly desirable career opportunity through this award.

The criteria for the award includes the following:

1. Sophomore or Junior Civil Engineering Student
2. Career Interest in Construction Management
3. Short essay (1-2 pages) detailing interest in Construction Management

2005 Winner

Kevin M. Hanson

Junior

Laconia, Indiana

Kevin accepted an internship with Gilbert Southern Corporation for the summer of 2004. During the summer Kevin worked on two of their jobs near Fort Lauderdale, Florida. His first assignment was an \$8 million pump station rehabilitation project in the Everglades. The pump station is one of many used to control water flow throughout the Everglades. Gilbert Southern was rehabilitating four pumps that were twelve feet in diameter, replacing pump gearboxes, upgrading electrical equipment, installing new indoor and outdoor gantry cranes, and hardening the building exterior to meet hurricane codes. Kevin also worked on a second project—a \$3 million toll plaza lane-widening project. Work included the addition of one lane to an existing toll plaza and the construction of an access road to an existing parking lot on site.

Asphalt Pavement Association of Indiana—APAI Research and Education Foundation Scholarship

Andrea Mailloux - Senior

Andrea received a Governor's Summer Internship with INDOT Crawfordsville District for 2002 and 2003. During the summer of 2002 she was assigned to inspect a number of HMA paving projects while during the summer of 2003 she worked in the Terre Haute sub-District Materials and Tests lab. During the summer of 2004 Andrea worked for Smallwood Nurseries in Williams-town, Vermont, gaining experience in landscaping design and maintenance, as well as knowledge on the business dealings between contractor and subcontractor and the bidding process for subcontracted jobs.

Kevin Hanson - Junior

Prior to his freshman year Kevin worked for the Harrison County (Indiana) Engineer's Office performing a variety of county road engineering function. During the summer of 2004 Kevin had an internship with Gilbert Southern Corporation in Ft Lauderdale Florida where he was involved in quantity take-offs, bidding, scheduling and HMA pavement construction.

Where Are Those Graduating CE's Working

Andrew Bolyard—USAF, Seymour-Johnson AFB, NC
Martin Brenny—Kimley-Horn & Associates, Jacksonville, FL
Daniel Conley—undecided
Eric Diehl—USAF, Scott AFB, IL
Elisha Dodd—INDOT-GED, Indianapolis, IN
Lance Gassert—Turner Construction, Tampa, FL
Ty Gremaux—Kimley-Horn & Associates, Sarasota, FL
Philip Griffith—Walsh Construction, Chicago, IL
Jonathan Hawkins—United Forming, Atlanta, GA
Laura Hemming—American Consulting Engineers, Terre Haute, IN
David Honan—MS Consultants, Indianapolis, IN
Cory Howell—Kimley-Horn & Associates, Memphis, TN
Jonathan Keim—Hannum, Wagle & Cline, Terre Haute, IN
Jason Lange—Purdue University (Civil Engr.), West Lafayette, IN
Andrew Mailloux—Joseph A. Schudt & Associates, Frankfort, IL
Travis McKittrick—Hensel Phelps Construction Co., San Diego, CA
Andrew Mullis—Gilbert Southern, Ft. Myers, FL
Eric Munchel—GRW, Inc., Indianapolis, IN
James Pirnia—Notre Dame Univ. (Civil Engr.), South Bend, IN
Jeffery Poole—GRW, Inc., Indianapolis, IN
Aaron Roberts—Graduate School (Civil Engr.)
Shawn Smith—Kimley-Horn & Associates, Virginia Beach, VA
Michael Thompson—Civil Designs LLP, Indianapolis, IN
Scott Tourville—American Consulting Engineers, Columbus, OH
Andrew Twarek—Ruby & Associates, Farmington Hill, MI
Todd Wallace—Civil Designs LLP, Indianapolis, IN
Carrie Wiley—undecided
Michelle Woodward—Univ. of Tennessee (Veterinarian School), Knoxville, TN

KEEP IN TOUCH

We are always interested in how our alumni are doing. Let us know about you! Keep in touch by e-mailing us at kathy.nicoson@rose-hulman.edu with your current contact information and what you are doing.

Alumni Spotlight

Randal J. Braker, P.E. (1981) has been named the Outstanding Engineer in Government for 2004 by the Tennessee Society of Professional Engineers. He is the General Manager of The Duck River Utility Commission.

Mitch Reinoehl (1994) reports he is working for Johnson & Johnson in Somerville, New Jersey. He is responsible for the integration of new products coming from R&D as well as license and acquisition projects from their business development group into the J&J family. He works closely with surgeons, scientists, engineers and business people and interact regularly with both J&J and external company boards to make the integrations successful. Much of his work is overseas in the U.K., Switzerland, Germany, Denmark, Puerto Rico and Brazil. His work is very rewarding and has afforded him a world of experience he didn't know was out there when he graduated from RHIT.

R. Michael Meneghini, MD (1995) informed us that he is finishing his fellowship in Lower Extremity Adult Reconstruction (Hip and Knee Replacement) at Mayo Clinic in July. He will be starting his orthopedic surgery practice on August 22nd at the St. Vincent Center for Joint Replacement in Indianapolis and will be specializing in Primary and Revision Hip and Knee Replacement Surgery. He will be moving to Indy with his wife, Cindy, who is a family practice MD specializing in Women's Health, and their two children: Ethan (2 ½ years old) and Cecilia (10 months old).

Chad Leinart (1999) has a new addition to his family. Ally Kaitlyn Leinart was born on Saturday, March 12, 2005 at 12:07 pm and weighed 6 pounds 15 ounces and was 19 inches long. Congratulations to the new parents.

Sean Stoughton (1999) has accepted a position with AMEC as a cost and schedule on their Pogo Project near Delta Junction, AK. AMEC is the EPCM (Engineer, Procurement, and Construction Manager) for the construction of a new underground gold mine and mill.

Kelly Barney (2000) was selected as one of the runner-ups for the NSPE New Faces of Professional Engineering during National Engineer's Week. Check out the website: <http://www.nspe.org/awards/hp1-newfaces.asp>. Congratulations Kelly!

Andrew Gordon (2002) married Melinda Dant on January 8, 2005 in Indianapolis. He is currently employed with M.D. Wessler in Indy. Melinda graduated from Indiana State University and teaches kindergartner in Fishers, Indiana. Congratulations to Andrew and Melinda!

Joe Miller (2002) got married shortly after graduation and moved to Wyoming. In February of this year he completed his master's degree at the University of Wyoming. He is the staff engineer at a post and beam company in Grantham, NH.

Becci Richardson (2002) and her husband Bill recently welcomed a new addition to their family. Kristen Jade was born on April 10, 2005. They had a new home built in the past year and Becci has been keeping busy as a member of the "physical properties" team of their church—and have actually had the opportunity to use some civil engineering.

Walter Flood (2003) recently moved from Boulder, CO to Silverthorne, Co (at the base of a mountain and right near the ski areas). He is done with classes and working on his research for his Masters, which is on concrete shrinkage. He will be graduating in August. The CE Department at Rose has prepared graduates for a variety of professions, but Walt will represent the first "ski instructor" on the list.

Nicholas Harden (2003) recently asked Mary Wasilewski to marry him. (We are still waiting on her response.) She is pursuing a master's in landscape architecture at the University of Wisconsin, Madison. Nick is a structural engineer at RWP Engineering, a consulting firm in Savannah, Georgia.

Alumni Spotlight Continued

Josh Reed (2003) recently moved back to Indiana from California and is working with his dad in land development.

Sarah Bireley (2004) and **Drew Furry (2004)** are engaged. They are planning for a wedding sometime in April 2006. Congratulations Sarah and Drew!

Tabatha Doughty (2004) is engaged to Ricky Briones and is planning a wedding for June 18, 2005. They will be spending their honeymoon in the Bahamas. Congratulations Tabatha & Ricky.

ASCE Golf Tournament

The Cecil T. Lobo ASCE Student Chapter had another successful Habitat for Humanity Golf Tournament on Saturday, May 21. Twenty foursomes participated in the best ball scramble at Rea Park, featuring 16 hole sponsors. The event was held under perfect skies, and the wide fairways and open “rough” areas were a real asset to many of the duffers. Gross score first place and a check for \$200 went to the team of John Burgner, Cory Wright, Ryan Robinson, and Ryan Mitchell. Net score first place and \$200 went to Howard McLean, Kenny Barnes, Mark Shuld, and Ryan Harris. The tournament earned over \$1700 for Wabash Valley Habitat for Humanity. Thanks to the team of Pat Ludwig, Zach Johnson, and Elaine Lee-Price for organizing another great tournament!

Aging Gracefully



Front row (left to right) Keith Royer, Robert Houghtalen, Kathy Nicoson

Back row (left to right) Jim McKinney, Jim Hanson, Martin Thomas, Michael Robinson, Kevin Sutterer