

Inside this issue:

Dean's Message	1
Upcoming Events	1
ABET Accreditation	2
Alumni Hall of Fame	2
School of Engineering now on Facebook	2
New Faculty	3
Student Teams Perform Community Service	4
Design-Build Team Places at Regional Competition	4
Student Attends Shuttle Launch	4
Second Class of Dual Diploma Students Arrive	5
Alumni Notes	5
Alumna Receives "Top 30 Under 30" Award	6

Message from the Dean



Greetings from the School of Engineering.

I am very pleased to report to you that all the undergraduate programs in the School of Engineering are re-accredited. A team of reviewers from Accreditation Board of Engineering and Technology (ABET) visited the campus in October 2008 to evaluate the quality of our programs. The final report on the good news was sent to the University in September 2009.

In fall 2009, we recruited seven outstanding assistant professors: two in computer science, two in mechanical engineering, two in construction, and one in industrial engineering. In January 2010, we added two more exceptional assistant professors to the Department of Construc-

tion. With the most recent hires, the School filled all the vacant faculty positions in each of the departments. The new and existing faculty have already started generating synergy for the benefit of our students in the areas of teaching, research, and service.

I am proud to announce that Kay Guse and Jim Heinz, two distinguished engineering alumni, have been inducted in the Alumni Hall of Fame. Kay Guse, Director of Policies, Procedures and Processes for Engineering, Operations and Technology at the Boeing Company, graduated with a B.S. in industrial engineering in 1988. James Heinz, Executive Vice President of WPCS International, graduated with a B.S. degree in 1983 in construction management. We congratulate these two outstanding individuals and thank them for their continuous support of and dedicated services to the School.

The dual-diploma program we initiated in 2007 with the industrial engineering program of the Istanbul Technical University (ITU) is in full swing. In Fall 2009, we received 19 well-prepared sophomores from ITU. They have immersed them-

selves in to the new environment from the very first day of the semester and brought a new flare in the classrooms. We are preparing to receive 30 sophomores and four seniors next fall through this cooperative program.

The School of Engineering continues to graduate successful and esteemed alumni. Recently, Melissa Glauber, a 2003 mechanical engineering graduate, was awarded the prestigious "Top 30 Under 30" Award from the St. Louis Business Journal. Melissa is a dedicated friend to the School and to SIUE, serving as a Board Member of the Alumni Association.

Our efforts to develop and maintain an effective communication network with our alumni and friends has proven to be a great success. Please keep sending us the exciting events happening in your lives and careers.

Finally, I extend a warm invitation to all you to attend our Annual Awards Banquet on Thursday, February 18th. Like last year, it is sure to be a fantastic evening.

Hasan Sevim, Dean

Upcoming Events

**February 18, 2010:**  
Annual Awards Banquet  
([www.siue.edu/ENGINEER/banquet](http://www.siue.edu/ENGINEER/banquet))

**March 20, 2010:**  
Engineering Open House  
([www.siue.edu/engineering/openhouse.shtml](http://www.siue.edu/engineering/openhouse.shtml))

**April 21, 2010:**  
Senior Assignment Showcase

**April 4, 2010:** Honors Day

## Undergraduate Engineering Degrees Reaccredited



All of the bachelor degree programs in the School of Engineering were reaccredited recently by the Engineering Accreditation Commission (EAC) of the Accreditation Board of Engineering and Technology

(ABET) Inc., by ABET's Computing Accreditation Commission (CAC) and by the American Council for Construction Education (ACCE).

The EAC's reaccreditation covered degree programs in civil, electrical, computer, industrial, manufacturing and mechanical engineering. The CAC reaccredited the School's computer science program, while the School's construction management program is reaccredited by the ACCE.

ABET is the recognized accreditor of college and university programs in applied science, computing, engineering, and technology. ABET accreditation demonstrates a program's commitment to providing its students with a quality education.

According to ABET, Accreditation is a volun-

tary, peer-review process that requires programs to undergo comprehensive periodic evaluations. The evaluations focus on program curricula, faculty, facilities, institutional support as well as other important areas.

One of the key elements of accreditation is the requirement that programs continuously improve the quality of education provided. According to the School of Engineering Dean, Dr. Hasan Sevim, "Our programs have been continuously accredited since their inception. This is simply a testimony to the quality of our curricula and the distinction of our faculty and staff. Students, parents and employers can be sure that the engineering education provided at SIUE is of the highest quality."

## Alumni Hall of Fame Inductees

The Alumni Hall of Fame honors SIUE alumni who have made exceptional contributions in their chosen field, in their communities and at SIUE. Each University unit honors up to two alumni every year. This year, Mary (Kay) Guse and James Heinz were the alumni honored by the School of Engineering.



Kay Guse

Kay Guse is the Director of Policies, Procedures and Processes for Engineering, Operations and Technology (EO&T) at Boeing. She leads the development and deployment of a common process strategy for all EO&T functions

and operating groups across the corporation. Kay is the Boeing Executive Focal for SIUE and serves on the School of Engineering Advisory Board. She is active in mentoring engineering and other employees at Boeing, and is a frequent speaker on engineering and science education and opportunities at area K-12 schools. Kay graduated from SIUE in 1988 with a B.S. in Industrial Engineering and from Washington University with a Masters of Engineering Management in 1993.

James (Jim) Heinz began his career managing construction projects for K&S Associates, Inc. and St. Louis based general contractor Kozeny-Wagner, Inc. In 1993, he founded Heinz Corporation with a vision to provide construction and engineering services to the growing wireless industry. Heinz Corporation was recognized as St. Louis'

12th fastest growing privately held company by the St. Louis Business Journal, and received the 2001 St. Louis Regional Technology Fast 50 Award. After 9-11, Jim led the company to specialize in consulting and engineering for public safety communications for several high profile New York City Projects. In 2004 Heinz Corporation was acquired by WPCS International, Inc. where Jim now serves as Executive Vice President overseeing four U.S. operation centers. James graduated from SIUE in 1983 with a BS in Construction.



Jim Heinz

## School of Engineering Now on Facebook

The SIUE School of Engineering now has a Facebook page! We have over 240 fans, and are gaining new friends each day.

The page serves as a networking site for our current students and alumni, faculty and staff, and our industry friends.

Fans of the site can log onto the page and get updates on School of Engineering events, student groups, scholarships and reminders for important School of Engineering and SIUE academic deadlines. All friends of the School of Engineering are encouraged to join us on Facebook.



<http://www.facebook.com/SIUE.ENGINEER>

## Nine New Faculty Join the School of Engineering

The School of Engineering hired nine new faculty in the 2009-2010 Academic Year. Please join us as we welcome them to the School.



Gary Mayer

Dr. Mayer joined the Department of Computer Science as an assistant professor. He holds a Ph.D. degree in Computer Science from Arizona State University, an M.S. in Computer Science from SIUE, and a B.S. in Mechanical Engineering from Worcester Polytechnic Institute. He teaches courses in simulation and software engineering and brings almost ten years experience as an active duty US Air Force officer.



Andreas Stefik

Andreas Stefik received degrees in music (B.A.) and computer science (B.S.) from Central Washington University, eventually completing both masters and Ph.D. degrees in computer science from Washington State University. Andreas is now teaching as an assistant professor in the Department of Computer Science. His primary research interests are in the areas of program comprehension and computer programming languages, including the creation of technology that facilitates those with visual disabilities to create computer software.



Marcello Azambuja

Dr. Marcelo Azambuja joined the Department of Construction as an assistant professor. He received a B.S. and an M.S. in Civil Engineering from Universidade Federal do Rio Grande do Sul, Brazil and holds a Ph.D. in Civil Engineering from the University of Texas at Austin in 2000. He conducts research and teaches courses on lean construction, planning and estimating, and supply chain management.



Anne Werner

Dr. Anne Werner joined the School of Engineering in Fall 2009 as an assistant professor in the Department of Construction. She holds a Ph.D. and M.S. in Civil Engineering from the University of Illinois at Urbana-Champaign, a M.E. in Ocean Engineering from Texas A&M University, and a B.S. in Civil Engineering from the University of Missouri-Rolla (now Missouri S&T). Dr. Werner has over 15 years of experience working in engineering and construction with the Federal Government. Her teaching and research areas focus on construction materials and construction leadership, teamwork and communication skills.



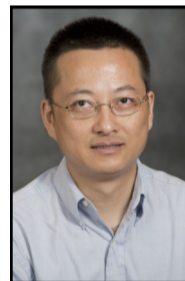
Jie Gong

Dr. Gong joined the School of Engineering on January 1, 2010 as an assistant professor in the Department of Construction. He holds a Ph.D. in Civil Engineering from the University of Texas and an M.S. in Civil Engineering from Texas Tech University. Dr. Gong's areas of interest are in the field of information, sensing and computing systems for construction and infrastructure systems.



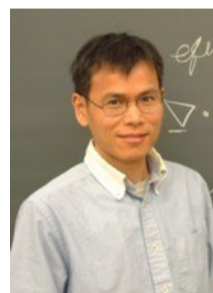
Mark Grinter

Mark Grinter joined the Department of Construction January 1, 2010 as an assistant professor. He holds an M.S. in Civil Engineering from SIUE and has a B.A. in Biology and a B.S. in Environmental Planning from Western Washington University. Mr. Grinter is a Licensed Professional Land Surveyor in Missouri and Illinois and was the Assistant Vice President for the Korte Company before joining SIUE.



Xin Chen

Dr. Xin Chen joined the School of Engineering in Fall 2009 as an assistant professor in the Department of Industrial and Manufacturing Engineering. He received his M.S. and Ph.D. degrees in Industrial Engineering from Purdue University in 2005 and 2009, respectively. His research and teaching focus on optimization, supply chains, information systems, decision science, and complex network theory.



Ke Li

Dr. Li joined the Department of Mechanical Engineering in spring 2010 as an assistant professor. He holds a Ph.D. in Mechanical Engineering from Michigan Technological University, an MS from National University of Singapore and an M.S. in Mechanical Engineering from South China University of Technology. Dr. Lee was a Senior Engineer at Schlumberger Technology Center before joining the School.



Fengxia Wang

Dr. Wang joined the School of Engineering as an assistant professor in the Department of Mechanical Engineering. She holds a Ph.D. in Mechanical Engineering from Purdue University and an M.S. and B.S. from Beijing Institute of Machinery. Her research focuses on nonlinear vibrations and flexible multi-body dynamics. Dr. Wang was employed as a Senior Research Engineer in the Virtual Product Development Technology Division of Caterpillar before joining the School of Engineering.

## SIUE Student Teams Participate in Community Activities

The **SIUE Constructor's Club** recently built a 40- foot by 40- foot playground for the Village of Summerfield. The club members contributed almost 300 hours to the project and saved the Village an estimated \$10,000 with their hard work.



SIUE Constructor's Club

Members from the student chapter of the **American Society of Civil Engineers (ASCE)** helped with Habitat for Humanity in Collinsville on Saturday November 7th. The students participated in framing the exterior and interior portions of the house.



ASCE at Habitat for Humanity

The SIUE **Mini Baja** and **Formula Car** teams participated in the City of Edwardsville's Halloween Parade. The team members drove their decorated cars through the parade route while answering questions and handing out Halloween treats.



Mini Baja Team

## SIUE Design-Build Team Takes 2nd Place

The SIUE Design Build competition team placed a close second at the Associated Schools of Construction (ASC) Great Lakes Regional Competition held October 21-24, 2009. The competition challenged student teams to design, schedule, estimate, write and present a proposal for an ambulatory

care facility within a 24 hour period. The team members, Ashtyn Doty, Garth Hand, Henry Fylstra, Mark Schaefer, Chris Lovellette and Casey Nell competed extraordinarily well against the top Construction Schools in the region.



Design-Build Team

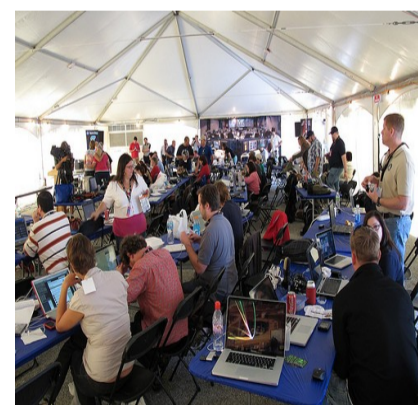
## Computer Science Student Visits NASA for Shuttle Launch and "Tweetup"

Mark Sands, a junior computer science major, was one of 100 people who attended the first ever National Aeronautics and Space Administration (NASA) "Tweetup" on November 16, 2009. The Tweetup, in conjunction to the second-to-last launch of the Space Shuttle Atlantis (STS-129) was set up by NASA as a coordinated social media experience using the networking and micro blogging site, Twitter. The event drew over 150,000 followers the day of the launch.

Mark and Pamela Gay, a physics research associate lecturer at SIUE, were fortunate

enough to secure a spot among the other avid NASA followers on Twitter, or "spacetweeps." The Tweetup attendees had the opportunity to listen to a number of speeches from NASA personnel, including one by the first Astronaut to "tweet" from space, Mike Massimino (@AstroMike.) NASA engineers addressed the attendees the day of the launch as well.

Mark appeared on SpaceFlightNow's video coverage of the event, NASA TV and was interviewed for an upcoming PBS documentary about his experiences.



"Spacetweeps" Blogging at NASA

Dual Diploma Students Arrive

The second class of Turkish students enrolled in the School of Engineering’s dual diploma program arrived in August of 2009 for their first semester at SIUE. The inaugural class consisted of just four students, whereas the current class is made up of 19.

The dual diploma program is a collaborative partnership with Istanbul Technical University (ITU) in which industrial engineering students spend their freshman and junior years at ITU and their sophomore and senior years at SIUE. The students receive degrees from both universities upon graduation.

The current class of students has thrived both academically and socially throughout their first semester at SIUE. The students are enjoying the beauty of the SIUE campus and the Midwest. They have been exploring the Saint Louis area and even took a trip to Chicago during the Thanksgiving break. The students are excelling in their classes, and one has even accepted a position as a student worker in the civil engineering department.

SIUE expects 30 new dual diploma students to the program next fall for their sophomore year in addition to the four who will return to finish their degrees for their senior year.



Dual Diploma Students

Alumni Notes

2000's

**Nathan Hart** (BS '06) has been promoted to Senior Project Engineer at the Tarlton Corporation.

**Jessica Huxman Lowe** (BS '09) is employed as a Structural EIT with David Mason and Associates.

**Seth Malcolm** (BS '09) received LEED Accredited Professional Certification in July of 2009. LEED accreditation recognizes professionals who have demonstrated a thorough understanding of green building practices and principles.

**Tyria Riley** (BS '02) is a Ph.D. candidate at Missouri University of Science and Technology. Tyria holds an M.S. in Systems Engineering from Missouri S & T and was awarded Six Sigma Black Belt honors by Villanova University. She is employed at The Boeing Company as an Electrical Subsystems Wiring & Integration Engineer. Tyria is also the St. Louis Section Chair of IEEE and is actively involved in the St. Louis chapter of NSBE.

**Andy Riva** (BS '09) received LEED Accredited Professional Certification in July 2009. LEED accreditation recognizes professionals who have demonstrated a thorough understanding of green building practices and principles.

1990's

**Jeff Daiber** (BSE '92) is the Manager of Tendering at CH2M Hill in Atlanta Georgia.

**Matt Pfund** (BS '96) is a Project Manager at Tarlton Corporation. Matt and his wife, Kristen own Pfund Construction which focuses on residential projects. Matt and Kristen live in Edwardsville with their three children. Matt is the President of the Construction Alumni Association.

**Doug Sitton** (MSE '02) is the President of Sitton Construction Group. He registered as a Professional Engineer (PE) in Illinois and Missouri, and also a Professional Land Surveyor (PLS) in Illinois. He is a board member of the Regional Chamber and Growth Association (RCGA) of St. Louis, the Leadership Council of Southwestern Illinois in St. Louis Metro East as a past president and current Executive Committee Member, and the Belleville Area Chamber of Commerce as a past president.

**Stephanie Travis** (BS '95) is the Manager of Plant Operations at Alton Memorial Hospital. Stephanie recently received her MBA from Lindenwood University.

**Al Goepfert** (BS '97) is the Principal Transportation Engineer for Oates Associates. Al is responsible for the firm’s municipal street and storm sewer projects in Illinois.

1980's

**Mark Buettner** (BS '82) is the Director of Electrical and Controls for the Nestle Purina Company.

**Thomas Niedernhofer** (BSE '80) is the Urban Search and Rescue Program Manager of the South Pacific Division of the Army Corps of Engineers. Tom is married to **Shelley Wells Niedernhofer** (BSE '83) who is the Chief of Administration and Business Services for the San Francisco Maritime National Historic Park, United States National Park Service.

**Jim Roth** (BSE '87) is a Senior Vice President of Hurst-Rosche Engineers, Inc. Jim is married to Lisa and has two children, Ali and Jake. at University of Missouri Rolla

1970's

**Rich Oller** (BS '76) is the President and Owner of Oller Engineering in Lubbock, TX. Rich is a member of the School of Engineering Industrial Advisory Board.

**Brooks Brestal** (BSE '79) has joined Horner and Shifrin, Inc. as Senior Engineering Manager based out of the firm's O'Fallon, IL office. Brooks worked for the Illinois Department of Transportation (IDOT) for 30 years prior to coming to Horner and Shifrin.



SCHOOL OF ENGINEERING

Volume 4, Issue 1

Southern Illinois University Edwardsville  
School of Engineering  
Campus Box 1804  
Edwardsville, IL 62026

We're on the web:

[www.siu.edu/engineering/](http://www.siu.edu/engineering/)

*Educating tomorrow's engineers,  
computer scientists, and  
construction managers today.*

*The mission of the School of Engineering is to provide excellent innovative engineering, computer science, and construction education to citizens of Illinois, the greater St. Louis metropolitan area, and representatives of the global community. The School focuses on strong undergraduate education and graduate programs that serve the needs of full-time students and employed professionals. The faculty conduct basic and applied research and outreach activities in partnership with others that contribute to technological advancement in our fields.*

## School of Engineering Alum Wins "Top 30 Under 30" Award

Melissa Glauber, a 2003 mechanical engineering graduate, has been recognized by the St. Louis Business Journal as one of St. Louis' 30 Under 30 for 2009.

Melissa also holds a JD from the St. Louis University School of Law. Melissa is an attorney for Armstrong Teasdale and is a member of the firm's Intellectual Property practice group. She is a member of the Illinois and Missouri State Bar Associations and the U.S. Patent and Trademark Office. Melissa has dedicated much of her free time to SIUE and her community, serving on the Board of the SIUE Alumni Association and the Young Friends of Jazz St. Louis, and participating in the St. Louis Tax Assistance Program, Volunteer Lawyers and Accountants for the Arts and Young Friends of the St. Louis Art Museum.



Melissa Glauber