

INSIDE THIS ISSUE:

<i>Awards Banquet</i>	2
<i>Student Honorees</i>	2
<i>Order of the Ring</i>	2
<i>Banquet Sponsors</i>	3
<i>ASCE Teams</i>	3
<i>IEEE Competition</i>	4
<i>FLATECH Award</i>	4
<i>FRP Competition</i>	4
<i>Botball Competition</i>	5
<i>UGS Award</i>	5
<i>Faculty Win Awards</i>	6
<i>Alumni Notes</i>	6
<i>NSF Grant</i>	7
<i>New Scholarships</i>	7
<i>Baja SAE</i>	8

Just the facts:

For Fall 2006

- Undergraduate student enrollment: 856
- Graduate student enrollment: 221
- Total Enrollment: 1,077
- Total Faculty: 45
- 208 undergraduate degrees were awarded in 2005-2006.
- 102 graduate degrees were awarded in 2005-2006.

MESSAGE FROM THE DEAN



Greetings from the School of Engineering. I am just about to complete my first year as the Dean of the School. During the first year we started a number of exciting projects, especially during spring and early summer of 2007, as you will see in this busy newsletter.

Our faculty won most prestigious teaching and scholar awards. Our students won several prizes and awards in collegiate contests. We held our inaugural School of Engineering Awards Banquet with the participation of more than 260 alumni, students, faculty, staff, advisory board members and friends of the School. I hope you all received and enjoyed reading the first Dean's Report that was mailed out to you in June.

We are very excited about the cooperative PhD program agreement signed with SIU

Carbondale. With this agreement, our students will be able to complete their doctoral studies entirely here on the SIUE campus. The program will kick off in fall 2007.

We are also very excited about the "dual diploma" program agreement signed with Istanbul Technical University (ITU), a premier institution in Turkey, for Industrial Engineering bachelor's degree. With this agreement, we will receive about 25 international students per year from ITU starting in fall 2009.

To complement our efforts in Industrial and Manufacturing engineering programs, we finalized a master's degree proposal to be submitted to the Illinois Board of Higher Education (IBHE). We are expecting to start the master's program in fall 2008.

We expanded our high school outreach with "regional botball," "high school outreach," and "future women engineering" programs, all held for the first time this spring and summer.

I hope you enjoy this issue of the "enⁿovation," in a cool place, and keep sending your news to be placed in the "Alumni Notes" section of the fall 2007 issue.

Sincerely,

Hasan Sevim
Dean

SUMMER IS FOR EXPLORING POSSIBILITIES

The School of Engineering hosted three exciting programs for high school students during the month of June.

The High School Outreach Program, June 6-8, 2007, attracted 13 young men from throughout the area. Similarly, the Future Women Engineers Program, June 10-15, 2007, enrolled 17 young women from as far as Wentzville and as close as Edwardsville. Students in the Engineering and Science

Program, held June 23-30, 2007, will likely reflect the same geographic distribution.

What they all share is a strong interest in math and science. What they will all gain is a better understanding of what engineers, computer scientists, and construction managers do—how they impact our lives.

Through a series of fun and challenging hands-on activities, participants will have a chance to discover how engineers design

And create many of the tools and technology people use every day, such as cell phones, power systems, bridges, and robots.

SIUE School of Engineering faculty facilitate most of the sessions. The Future Women Engineers and Engineering and Science Program participants also have the opportunity to go on field trips and hear guest

(See Summer Programs on Page 7.)

SCHOOL OF ENGINEERING AWARDS BANQUET A HUGE SUCCESS

More than 260 School administrators, faculty, staff, students, alumni and friends of the School of Engineering gathered in SIUE's Meridian Ballroom to celebrate and honor outstanding teachers, juniors, and seniors by department.

Brad Noble, associate professor of Electrical and Computer Engineering, was recognized as the Outstanding Teacher of the School and also recognized for winning the SIUE Teaching Excellence Award for 2006-07.

Professor of Civil Engineering, **Brad Cross** was recognized for having received earlier this year the prestigious 2006-07 SIU Paul Simon Outstanding Scholar Award. **Steve Klein**, instructor in the Department of Computer Science who received the 2006-07 Teaching Distinction Award was also recognized.

Faculty receiving the School of Engineering Outstanding Teacher Awards included: **Mark Rossow**, professor of Civil Engineering and department chair; **Xudong Yu**,

associate professor of Computer Science; **Kerry Slattery**, assistant professor of Construction; **Luis Youn**, professor of Electrical and Computer Engineering; **H. Felix Lee**, professor of Industrial and Manufacturing Engineering; and **Majid Molki**, professor of Mechanical Engineering.

Alumna **M. Kay Guse**, who earned a bachelor of science in Industrial Engineering from SIUE in 1988 and a master of Engineering Management from Washington University in 1993, was the keynote speaker. Guse is engineering manager of the Analysis and Integration IPT for Global Strike Systems at The Boeing Company. She gave a thoughtful and sometimes humorous talk about "Engineering Responsibilities and Rewards."

Please see the student honorees listed below.



From l-r: Dean Hasan Sevim, Luis Youn, Brad Noble, Majid Molki, Xudong Yu, Mark Rossow, Kerry Slattery, and H. Felix Lee.

(SIUE Photo by Bill Brinson.)

STUDENTS RECOGNIZED AT ANNUAL AWARDS BANQUET

Garrett Fleming, Outstanding Junior, Civil Engineering
Malsie Graser, Outstanding Senior, Civil Engineering
Jennifer Koenig, Outstanding Junior, Computer Science
Stephen Bory, Outstanding Senior, Computer Science
Eric Tritsch, Outstanding Junior, Construction Management
Matt Lambert, Outstanding Senior, Construction Management
Richard Watson, Outstanding Junior, Electrical Engineering
Jeffrey Pitts, Outstanding Senior, Computer Engineering
Sara Atwell, Outstanding Junior, Manufacturing Engineering
Jenna Toennies, Outstanding Junior, Mechanical Engineering
Nicholas Rybak, Outstanding Senior, Mechanical Engineering

Graduating Chancellor's & President's Scholars

Ashley Ball, Chancellor's Scholar
Aaron Nebergall, President's Scholar
Kyle Masonell, President's Scholar
Timothy McCullough, President's Scholar

Outstanding Service Awards

Chad Komnick, JESC* President
Michael Ewersmann, JESC Vice-President
Danielle Jones, JESC Secretary
Suzanne Shaffer, JESC Treasurer

*Joint Engineering Student Council



(SIUE Photo by Bill Brinson.)

Recipients of student awards and Dean Sevim (R).

TWENTY PARTICIPATE IN ORDER OF THE RING CEREMONY

For the second year, the SIUE Engineering Community gathered for the Order of the Ring Ceremony, held as part of the Awards Banquet this year. Twenty students, faculty, and alumni publicly accepted the "Obligation of the Engineer."

The Obligation is a formal statement recognizing that "the primary purpose of engineering is service to the public and all members of the engineering profession share a common bond."

Inductees included: **Jason Anderson**, **Robert A. Cherveney**, **Andrew J. Deters**, **Seth W. Elliott**, **Michael Ewersmann**, **John P. Gee**, **Malsie Graser**, **Marty Hamm**, **Mark Hanselman**, **Joseph Hemphill**, **Scott Hoffman**, **Luke D. Hohulin**, **Danielle Jones**, **Andrew Kaufman**, **Kenzie Meyer**, **Curtis Lee Moore**, **Shane Oertwig**, **Kevin Olson**, **Leah Smith**, and **Jacob Van Roekel**.

THANK YOU TO OUR ANNUAL AWARDS BANQUET SPONSORS

The following generous people and institutions helped make the School of Engineering's Annual Awards Banquet successful by sponsoring one or more students or participating in the Silent Auction. They have our deep appreciation:

Oktay Alkin, Professor & Chair, Electrical & Computer Engineering; **Raghupathy Bollini**, Emeritus Professor, Electrical Engineering; **Tom Buchheit**, President, BRIC Partnership, LLC, **Byron Ehlmann**, Professor, Computer Science; **George Engel**, Associate Professor, Electrical & Computer Engineering; **Tom Foster**, Associate Professor, Physics; **Arjun Godhwani**, Emeritus Professor, Electrical & Computer Engineering; **Keqin Gu**, Professor & Chair, Mechanical Engineering; **Mei Huang**; **S. Cem Karacal**, Professor & Chair, Industrial & Manufacturing Engineering; **H. Felix Lee**, Professor, Industrial & Manufacturing Engineering; **LeAnne Lochhaas**; **Roger W. Loesche**, Vice President of Finance & Administration, Kozeny-Wagner, Inc.; **Scott W. Miller**, Chief Engineer, MiTek Industries, Inc.;

Majid Molki, Professor, Mechanical Engineering; **Brad Noble**, Associate Professor, Electrical & Computer Engineering; **Rich Oller**, President, Oller Engineering, Inc.; **Bruce P. Schopp**, Structural Engineer, Oates Associates; **Paul Seaburg**, Emeritus Dean, SIUE School of Engineering; **John L. Sedlacek**; **Hasan Sevim**, Dean, SIUE School of Engineering; **Richard Smith**, Engineering Manager, Fabritech, Inc.; **Scott Smith**, Professor, Electrical & Computer Engineering; **Tongele Tongele**, Assistant Professor, Mechanical Engineering; **Jacob Van Roekel**, Associate Dean, SIUE School of Engineering; **Erica Wade**, Industrial Engineering Supervisor, UPS; **Richard and Melody Watson**, **Bernard Waxman**, Emeritus Professor, Computer Science; **Xiaojun Yan**, Professor, Mechanical Engineering; **Xudong Yu**, Associate Professor, Computer Science; **Civil Engineering Department**, **Computer Science Department**; and **Oller Engineering, Inc.**

At the Awards Banquet, a silent auction made available photographs donated by Emeritus Professor Bernard Waxman. Proceeds helped defray the cost of the banquet.

SIUE ASCE STUDENT CHAPTER COMPETES AT 2007 REGIONAL CONFERENCE

The SIUE School of Engineering's 2007 American Society of Civil Engineers Student Chapter Concrete Canoe Team did very well in April at the Mid Continent Regional Conference at the University of Kansas in Lawrence, Kansas. The team, which was competing for the fourth consecutive year, came within a few strokes of capturing first place. They received second place overall in the Concrete Canoe Competition.

The SIUE team won first place in Oral Presentation and Design Paper and second place in Final Product and Paddling. **Michael Ewersmann** and **Chad Kornick**, who both graduated this spring, headed up the canoe team.



The Canoe Team takes 2nd place Overall.

Also at the regional competition, the School of Engineering's 2007 ASCE Steel Bridge Team, competing for the thirteenth consecutive year, earned first place in the Lightness category. Incoming seniors **Rob Heer** and **Jake Gonterman** led the steel bridge team.

Brent Vaughn of the civil engineering department served as the faculty adviser for both teams. "Our students work very hard to make their teams as successful as they are. The Civil Engineering faculty and staff continue to support the achievements of the ASCE student chapter members."



Steel Bridge team earns first in Lightness Category at the ASCE Regional Conference.

"Our students work very hard to make their teams as successful as they are."

—**Brent Vaughn**
Civil Engineering
Faculty Adviser

TEAM OF FOUR STUDENTS SUCCESSFULLY NAVIGATE IEEE REGION 5 ROBOTICS COMPETITION

The SIUE School of Engineering participated in the Institute for Electrical and Electronics Engineers (IEEE) Region 5 Robotics Competition in Fayetteville, Arkansas, on April 20-22, 2007. The team of four students consisted of two electrical and computer engineering students, **Tim McCullough** and **Ben Spiller**, and two computer science students, **Phillip Kilnefelter** and **Britlan Oates**.

The SIUE Robotics team took fifth place among 28 teams in the competition. The competition involved designing, building, and programming an autonomous robot representing a space ship to navigate a "solar system" arena.

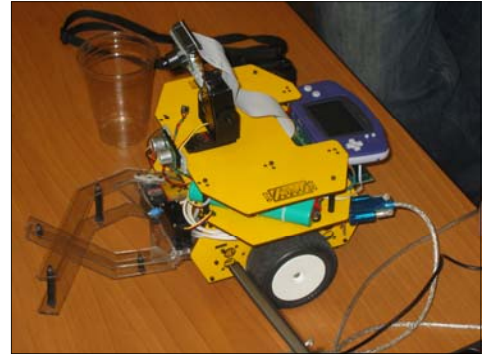
The robot was sent directions and commands as to where it was to go and

what tasks it had to accomplish. Each entrant had three minutes in which to complete its turn.

The SIUE team's autonomous robot navigated an 8 foot by 8 foot arena, searching for cans of a specified color and would then deliver the cans to specially marked regions of the same color. In third place after the first round of the finals, the team finished in fifth place out of a field of 28 teams.

SIUE has participated in this competition for over ten years. **Dr. George Engel**, professor in electrical and computer engineering, and **Dr. Jerry Weinberg**, professor in computer science were the faculty advisers. Congratulations to the students

who participated this year and turned in such an outstanding performance!



This "space ship" took fifth place out of 28 teams at the IEEE Region 5 Robotics Competition.

CONSTRUCTION PROFESSOR RECEIVES FIATECH AWARD

Christopher B. Gordon, assistant professor of Construction in the School of Engineering, recently was awarded the Celebration of Engineering and Technology Innovation (CETI) Outstanding Mind Award from Fully Integrated and Automated TECHNOlogy (FIATECH).

Gordon was recognized at the CETI Awards Gala in Washington, D.C., in April. FIATECH is a non-profit consortium that sponsors and conducts research development and demonstration of fully integrated and automated project processes to improve the effectiveness of capital facilities construction.

The Outstanding Mind category recognizes the contributions of graduate students in their research. Gordon was nominated for his doctoral work in

developing computational approaches to support decisions about a full range of inspection approaches that may be implemented on construction sites. Gordon's entry was titled, "Computational approach to support decisions about the full range of possible inspection approaches."

Gordon earned a doctorate in civil and environmental engineering at Carnegie Mellon University and joined the faculty of SIUE in January of this year. At SIUE, Gordon teaches courses in computer applications in construction, construction management, and construction methods and materials.

"The construction industry is beginning to benefit from an influx of emerging sensor technologies on construction sites, particularly for construction inspection" Gordon explained.



Dr. Gordon won the Outstanding Mind Award.

CONSTRUCTION MANAGEMENT STUDENTS WIN ACI FRP COMPETITION

The team of **Oliver Coulson** and **Suzanne Shaffer**, students in Construction Management, placed first in the Highest Ultimate Load-to-Weight Ratio category of the American Concrete Institute Fiber Reinforced Polymer (FRP) competition held in Atlanta, Georgia, on April 22, 2007. Over 20 teams from universities around the world participated in the competition.

The students constructed a "beam" using FRP rebar and lightweight concrete arranged in a truss or support device

configuration. The rebar is a composite material made from glass fiber in a vinyl ester matrix. A carbon fiber/epoxy composite grid was also used to reinforce the concrete in regions where tension cracks may appear. The team performed many design repetitions prior to the competition to increase the effectiveness of the structure. Another team of construction students placed first in this category when the last competition was held in 2005. **Dr. Kerry Slattery** was the faculty adviser for the team.



Construction students Coulson and Shaffer's winning truss.

SIUE SCHOOL OF ENGINEERING HOSTS REGIONAL BOTBALL COMPETITION

An Edwardsville grade school took first place overall in the recent 2007 Greater St. Louis Regional Botball Tournament conducted at Southern Illinois University Edwardsville and sponsored by the SIUE School of Engineering.

In addition to the overall win among a total of 11 teams with more than 150 middle and high school students from Missouri and Illinois, the team from St. Mary's Catholic Grade School in Edwardsville took first place in the double elimination portion of the competition.

Meanwhile, the Edwardsville High School team came in third overall and the team from Liberty Middle School, also in Edwardsville, won third in the seeding round.

"This is the second year in a row that the St. Mary's team won their regional," said **Jerry Weinberg**, associate professor of computer science at SIUE and coordinator of the event. St. Mary's entry featured a two-robot combination. One robot successfully "saved" houses by collecting them and placing umbrella roofs on top. The second robot scooped up "lava" from the volcano and deposited it on their opponent's side.

During the competition, teams scrambled to prepare their "island" in the path of a nearby rumbling "volcano." Robots were programmed to harvest pineapples, compost leaves, place rooftops on houses, and clear away lava (game elements made of small pompons and PVC pipe).



Above: two members of St. Mary's winning team, Chris Haas and Ashlin Grover, both sixth graders. (Photo by SIUE Engineering professor Bernard Waxman.)



Two students contemplate how to improve their robot's design to perform better in the competition. (Photo by SIUE Engineering professor Bernard Waxman.)

"The final match between St. Mary's and Hazelwood (MO) West High School was close as both had similar strategies for saving houses," Weinberg pointed out. "In a bold move, Hazelwood added a second robot to block St. Mary's lava collecting robot. Unfortunately it took a bad turn and was unable to complete its goal." Autonomous robots designed and built by 11 teams from middle and high schools in Illinois and Missouri competed head-to-head in the tournament.

"In addition to designing and building robots, teams also had to document their design, strategy and progress," Weinberg said. "The documentation scores were added to the competition scores to determine the overall winner." The first place winner of the documentation award went to Columbia (IL) High School.

Next year's event will be bigger with close to 20 schools participating. It is tentatively scheduled for April 16, 2008.

For more information contact Jerry Weinberg, (618) 650-2368.

SIUE INDUSTRIAL AND MANUFACTURING STUDENTS CAPTURE UGS AWARD

A project from SIUE, "Application of 3D modeling technology to Lego industries," by two Industrial and Manufacturing Engineering juniors at SIUE, **Terry Goble** and **Brian Graham** recently won a \$1,500 award at the UGS (Unigraphics Solutions) Connection Americas 2007 Users Conference. The conference was held in Long Beach, California, April 23-27, 2007, and was attended by over 2,100 people from 27 different countries.

UGS invited three qualified college student projects using Unigraphics software to the conference for presentations and awards.

Using UGS 3D modeling technology, the students were able to create a 3D model for a sample Lego product "Star Wars B-Wing" and show its usage for

Lego Design/Manufacturing Industries. The SIUE project was chosen as the best one.



Dr. Lee accepts the award for Goble and Graham.

ALUMNI NOTES

Tanveer Rao, '80 Civil Engineering, is a construction executive with a focus on water and waste water treatment plants design and construction. He was recently named a Professional Associate in his field of expertise by HDR Engineering Inc. Rao, his wife and five year old son live in Huntington Beach, CA, though his work takes him nationwide.

Charlie Hornsey, '89 BS Math, '91 BS Industrial Engineering, has accepted the position of Assistant Brewmaster for Anheuser-Busch at the Baldwinsville Brewery, New York. He joined Anheuser-Busch in 1999 and has held positions of increasing responsibility in the St. Louis and Williamsburg breweries as well as Corporate Brewing. Prior to the move, he was an Assistant Brewmaster at the Williamsburg brewery.

See alumni Notes on page 6.

THREE AWARD WINNING ENGINEERING FACULTY

Colleagues and students alike agree that Civil Engineering Professor **Brad Cross** is an excellent example of a teacher-scholar, one who collaborates well and also tries to include students in his research whenever possible.



These qualities, along with the research that Cross has done in structural design, earthquake engineering, and computer methods of analysis and design, have resulted in being chosen as recipient of SIUE's 2007 Paul Simon Outstanding Scholar Award, announced recently by **Stephen Hansen**, associate provost for research and dean of the Graduate School.

The Simon Award is presented annually to an SIUE faculty member in recognition of the role of research and creative activities in achieving excellence in teaching. The award confirms SIUE's belief that an individual must be a good scholar to be a good teacher. The Simon Award is sponsored by the Graduate School and presented by the SIUE Graduate faculty.

With the University since 1992, Cross is also chair of the American Society of Civil Engineers (ASCE) National Committee for Student Involvement, which was newly created in 2006.

An informal style and a teaching philosophy that encourages students to think through problems led to **Brad Noble** receiving the 2007 Teaching Excellence Award at SIUE. It is the most prestigious teaching award a faculty member can receive at SIUE.



An associate professor of Electrical and Computer Engineering, Noble received a \$2,000 prize as part of the recognition. He was among 10 nominees for the distinction considered by the Teaching Excellence Award Committee.

Noble says that because engineering students tend to challenge new ideas and closely study ideas presented, an instructor must earn a student's respect.

"In light of these observations, teaching engineering students takes on its own unique challenges," Noble said. "In order to more effectively reach these students, I use the following set of principles ... as a guide in my classrooms:

- Work the hard problems in class,
- Build on their (students) intuition
- Relate the material to their everyday life as much as possible.

Steve Klein, an instructor in the Department of Computer Science was one of three instructors receiving a Teaching Distinction Award.



In choosing Klein for a Teaching Distinction Award, the Teaching Excellence Award Committee noted rapport with students and an engaging style as a reason to recognize the instructor. The committee said, "It was felt that (Steve) is truly dedicated to teaching, and he enjoys his role in the classroom."

Klein, who teaches primarily undergraduates, has the difficult job of teaching in the same class students who will go on to take advanced programming classes and those who have never programmed and never will. He says, "I take neophytes and turn them into novices. In other words, I get them ready to learn the really tough stuff. I try and prepare students for the more challenging information without making them feel overwhelmed by it."

In his own words, Klein is "a regular guy who knows some technical things."

ALUMNI NOTES (CONTINUED FROM PAGE 5)

Todd Rehg, '93 Civil Engineering, is currently working as the Assistant Director of Public Works for the City of Kirkwood, MO.

Gina (Foster) Prevett, '95 BS, '96 MS Electrical Engineering, and her husband welcomed a son into their home. James (Jimmy) Tyler Prevett was born August 10, 2006 at 3 lbs, 13.3 oz. He now weighs almost 17 lbs and is taking his first steps.

Kyle S. Loyd, '99 BS Civil Engineering, is currently employed by the Greenstreak Group in St. Louis as a Senior Sales Engineer. His market focus is in products for the petrochemical/industrial hazardous chemical containment market. Kyle says the 180 degree move into sales was the right move for him. He has traveled to jobsites in China, Panama, and Costa Rica. He and his wife Joanie now live in Fenton, MO. Kyle says his experiences at SIUE have proved invaluable in all of his life experiences.

Nauman Mustafa, '00 MS Electrical Engineering, works as a Technical Leader and Network Consulting Engineer in Cisco Advance Services Group, advising major Cisco customers in setting up their Voice/Video Network. He resides in San Jose, CA, with his wife Tehreem and 3 year old daughter Alizah.

Cathleen (Kennedy) Gotsch, '01 BS '02 MS Electrical Engineering, is an Engineering Specialist at DRS Sustainment Systems in St. Louis, MO. She has worked in the Automatic Test Equipment department since August 2002. Cathleen and her husband **Jason Gotsch, '04 BS Mass Communications**, whom she married in September 2005, now live in Bridgeton, MO.

Ryan Perryman, '04 Construction Management, was recently promoted to

Project Manager at S.M. Wilson & Co. He is currently managing various projects at the Anheuser-Busch St. Louis Brewery.

Muhammed Asif Tak, '04 Civil Engineering, currently works as Project Engineer at EA Engineering in Baltimore, MD.

Clint Woods, '04 BS Civil Engineering, now lives in St. Louis, MO, and works for Parsons Water & Infrastructure in Chesterfield, MO.

CORRECTION:

Ramesh Kumar Regmi '06 MS Civil Engineering, works as a Civil Engineer at Juneau Associates, Inc., P.C. in Edwardsville, IL, for the design and estimate of road networks and sewers as well as subdivision land development. He and his wife Sova, son Saahil, and daughter Salina live in Maryville, IL.

SUMMER PROGRAMS (CONTINUED FROM PAGE 1)

speakers talk about different engineering disciplines in the workplace and specific careers.

A young woman, Sarah Arnac from St. Charles said, "I always liked math and science. Now I know I want to be an Engineer."

Two young women from the Charter Construction School in St. Louis laughed and watched as they each took turns racing their *Hovercraft* projects. "It's been a good experience. I've learned a lot about how many different kinds of engineering there are. Now I just have to decide which one I want to do."



Camp instructor Dennis O'Connor helps Sarah Arnac with her hovercraft before the final competition. Arnac's hovercraft finished first.

PROFESSORS RECEIVE \$150,000 NSF GRANT

Jerry Weinberg and William Yu, associate professors of computer science at the School of Engineering, in partnership with Kim Wheeler and Robin Knight of RoadNarrows LLC, have received a \$150,000 grant from the National Science Foundation to create a "Brain Pack" for walking robots.

Since 1999, Weinberg, chair of the Department of Computer Science, and Yu have been instrumental in bringing middle school, high school, and college students together from throughout the region to study robotics and

participate in robotics competitions.

The NSF grant, "General Robot Controller for Legged Mobile Robots with Integrated Open Source Software," will help develop a computer backpack or "Brain Pack" for two-, four-, and six-legged robots for teaching science, technology, engineering, and math (STEM) courses. "The Brain Pack will provide an easy to program computer controller that connects sensors, such as foot touch sensors, to give a robot the 'sense' of walking and a color camera to give the robot 'eyesight,'" Weinberg said.

"Because of their multidisciplinary nature, the study of robotics in the classroom has become a valuable tool for the practical, hands-on application of concepts in various STEM topics at the K-12 and undergraduate educational levels," said Weinberg.

The partnership between SIUE and RoadNarrows is key to the successful development of the Brain Pack innovation. The educators at SIUE have considerable experience in developing curricula and software for using robots in the classroom, and RoadNarrows has similarly considerable experience in engineering and marketing robot hardware for educators.

THREE NEW SCHOLARSHIPS FOR ENGINEERING STUDENTS

Three new scholarships were established this year for engineering students. Alumnus **Paul J. Galeski** created the **MAVERICK Technologies LLC Scholarship In Engineering** to help students from Columbia and Belleville East High schools come to the SIUE School of Engineering.

Columbia, Illinois, is where Galeski lives and where the world headquarters of the company he founded, MAVERICK Technologies is located. Galeski graduated from Belleville East High School. The \$5,000 in scholarships benefits freshman students who are interested in electrical or manufacturing engineering.

Holland Construction Services has given \$2,000 to establish scholarships to help

attract academically qualified freshman students to the Construction Management Program. The scholarship will be awarded annually to students from this area pursuing a degree in Construction Management.

The third new scholarship, the **Nori Sushi Restaurant Scholarship**, is open to computer science students and is intended to help students with financial need. The owner of Nori Sushi Restaurant, **Chong Kuk Kim** attended classes at SIUE in computer science.

Check out the School of Engineering's Giving Opportunities page at www.siu.edu/ENGINEER/eng_giving_greetings.html

We're on the web:
www.siue.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.

MECHANICAL ENGINEERING STUDENTS COMPETE IN THE 2007 BAJA SAE ROCHESTER WORLD CHALLENGE

Competing against 141 teams in Rochester, New York on June 6-10, 2007, Cougar Baja placed 100 Overall out of 141 registered teams for the Society of Automotive Engineers (SAE) Baja Rochester World Challenge. Each team of students is required to plan, design, fund, build, test, and race a reduced scale off-road vehicle.

University teams from all over the world compete in static events, including Design, Cost, and Presentation, and in dynamic events including Acceleration, Endurance, Hill Climb, Land Maneuverability, Suspension and Traction.

Cougar Baja finished the Dynamic Event in 89th place out of 141 teams. The team's best event was the Endurance race where Cougar Baja outlasted 52 more experienced teams to earn 81st place.

The team was comprised of approximately a dozen now seniors. **Miles Musick** was Co-Captain and Business Manager, while **Justin Schnitker** was Co-Captain and Fabrication Manager. Musick is from Lincoln, Illinois, and Schnitker from Okawville, Illinois. Other team members included **Ethan Mikesell**, **Ben Mueth**, **Donald Owens**, **Ross Vickroy**, **Steve Ziebka**, **Mat Siemens**, and **Nick Boeing**.



Team members discuss last minute details at the competition.

According to Musick, "The highlights for the six attending members were the opportunity to grow as a team as well as to learn from experienced teams."

Much was learned from this year's experience, and plans are already being made for next year's vehicle.

Dr. Tongele Tongele, assistant professor in mechanical engineering, is the team's faculty adviser. Find more information at www.engineer.siue.edu/cougarbaja.