



2015 ENGINEERING DEAN'S REPORT

siue.edu/engineering

SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE
SCHOOL OF ENGINEERING



MESSAGE FROM THE DEAN

When I began as dean in 2006, we set a goal of making the School an engineering center for the region. As this is my farewell message following my December 31 retirement, I share the following accomplishments indicating our success:

- Enrollment increased by nearly 70 percent
- The average math ACT score of the freshmen cohort is almost 29
- Our programs are first-choice programs to a majority of students
- Our graduates are highly sought after in the industry
- Our faculty members produce, on average, three scholarly publications each per year

To obtain these results, we initiated a number of projects:

- A cooperative doctoral program with SIU Carbondale
- A master's program in industrial engineering
- A dual-diploma program in industrial engineering with Istanbul Technical University
- Several 2 + 2 programs with community colleges
- A 32,000-square-foot building extension and substantial renovation of the original building

Several projects remain which will further the School's reputation as the engineering center for the region:

- A baccalaureate program in mechatronics and robotics engineering will start fall 2016
- A master's program in biomedical engineering is planned to start spring 2017
- Construction of a 14,000-square-foot Student Design Center is planned to begin fall 2016

Construction of the \$5.75 million Student Design Center has been delayed due to insufficient contributions. We still need to raise \$1.35 million.

I have volunteered to help the School campaign for the Student Design Center. You may soon hear from a few dedicated alumni who have also volunteered for this noble cause. As your outgoing dean, I appeal to each of you to claim ownership of your School by generously and compassionately contributing toward the Center.

Our students deserve a place to safely work on their projects. Despite having to work in cramped labs or even outside, students have created numerous innovative senior design projects and represented the School proudly in collegiate contests. Imagine what they will accomplish when we provide them the level of facilities other schools provide their students!

SIUE is a special place that has captured my heart. The School of Engineering students are first class, both academically and personally. I am proud to have been their dean.

As I have always said, with our distinguished faculty, staff, alumni and friends, and with the culture we have instilled, the best for this School is yet to come.

With gratitude,

Hasan Sevin, PhD
Dean, Retired

About SIUE

Beautifully situated on 2,660 acres, SIUE is a public university offering a broad choice of degrees and programs, ranging from liberal arts to professional studies. Undergraduate and graduate degrees are offered in the arts, sciences, business, education, health, human behavior, engineering and nursing. The Schools of Dental Medicine and Pharmacy award doctor's first-professional degrees in dental medicine (DMD) and pharmacy (PharmD). More than 14,000 students choose SIUE for its enlightening programs, engaging faculty and convenient location, just 25 minutes from St. Louis.

MESSAGE FROM THE INTERIM DEAN

As we look back on the past year, we cannot help but also look ahead due to the tremendous momentum within the School of Engineering. Students, faculty, staff and alumni continue to push the boundaries of who we are in the engineering community, lifting us to new heights.

We are immensely grateful for Dr. Sevim's leadership and dedication to our School. While our leadership is changing, the future direction of the School will remain the same.

You will note in the pages ahead how our students are helping us maintain our forward momentum through their academic endeavors, collegiate competitions and personal pursuits. We will continue to provide them with the best education in order to keep pace with rapidly-changing technology and be ahead of the curve in their future professions.

Our faculty members' dedication to innovation and discovery is evident in every aspect of their work. While they excel as individual teachers and scholars, we are most impressed with their work as a team to bring students an even brighter future.

Our alumni are blazing trails for current and future students to follow and build upon. We owe our outstanding reputation to them and are thankful for the numerous ways they strengthen the educational experiences for our students.

We are grateful for the multitude of friends, donors, partners and businesses that enrich the educational opportunities in our School. The investment these individuals and businesses make in our students is invaluable and indicates the confidence they bestow upon us.

I am proud to serve as interim dean during this time of rapid growth and exciting endeavors, not only for our School but for the engineering discipline as a whole. I invite you to remain closely tied to the School as we discover the frontiers ahead together.

Best wishes,



Cem Karacal, PhD
Interim Dean and Professor

ENGINEERING DEGREES

The SIUE School of Engineering offers a comprehensive collection of professionally accredited engineering programs:

Civil Engineering – BS, MS
Computer Engineering – BS, Minor
Computer Science – BA, BS, MS, Minor
Construction Management – BS, Minor
Electrical Engineering – BS, MS, Minor
Industrial Engineering – BS, MS, Minor
Mechanical Engineering – BS, MS, Minor
Mechatronics and Robotics Engineering – BS
Engineering Science – PhD (*collaborative program with SIU Carbondale*)



School of Engineering Vision

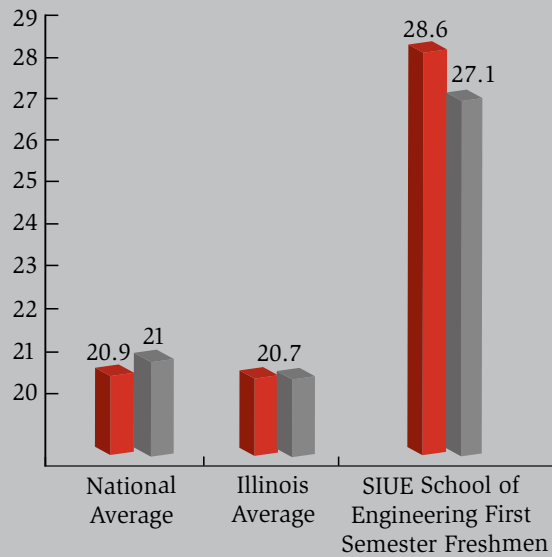
The vision of the SIUE School of Engineering is to be a partnership of faculty, students, staff, alumni and other professionals who work together to provide the highest quality education and maintain innovative resources that support the technical growth and economic development of the region.

ABOUT THE SCHOOL OF ENGINEERING

Increasingly high enrollment, rising academic qualifications of applicants, and a nearly 100 percent placement of graduates in the engineering fields are clear testimonies to the quality of engineering education at SIUE. Since 1982, the School has prepared students to meet the growing needs in our region and nation for more engineers, computer scientists and construction managers. Fueling the prosperity of our region, the School has graduated more than 7,000 engineering professionals. More than 60 percent of our graduates have taken positions in the St. Louis metro area.

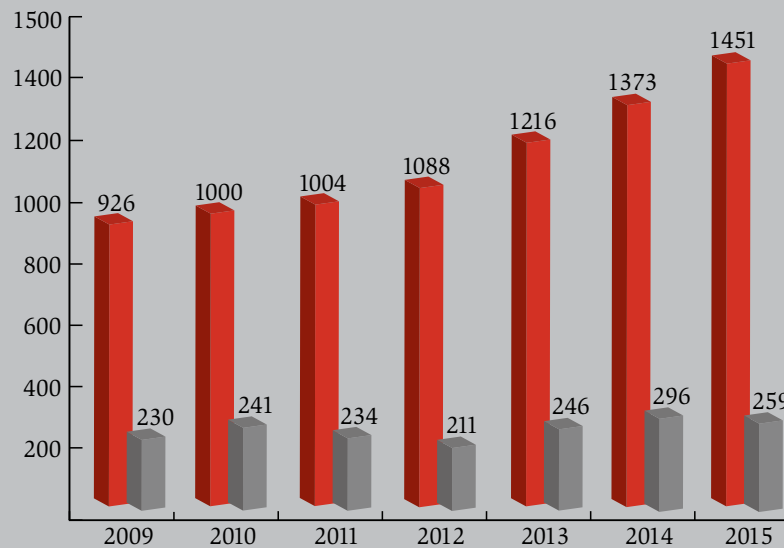
2015 ACT Scores

■ ACT Math ■ ACT Composite



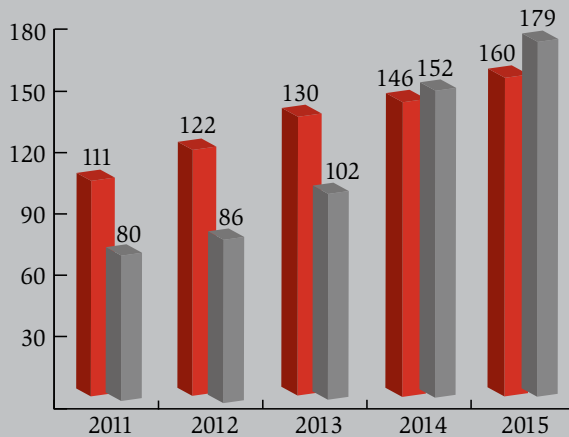
Record Enrollment

■ Undergraduate ■ Graduate



Minority and Female Undergraduate Enrollment

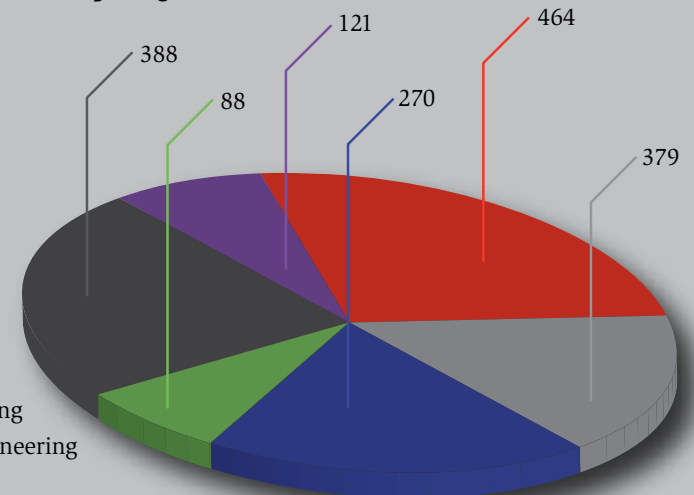
■ Female ■ Minority



Undergraduate and Graduate Enrollment by Program

Program	Undergraduate	Graduate
Computer Science	342	37
Civil Engineering	204	66
Construction	88	0
Electrical and Computer Engineering	309	79
Industrial and Manufacturing Engineering	100	21
Mechanical Engineering	408	56

- Computer Science
- Civil Engineering
- Construction
- Electrical and Computer Engineering
- Industrial and Manufacturing Engineering
- Mechanical Engineering





RESEARCH FRONTIERS

Mark Grinter, PLS

Assistant Professor, Construction

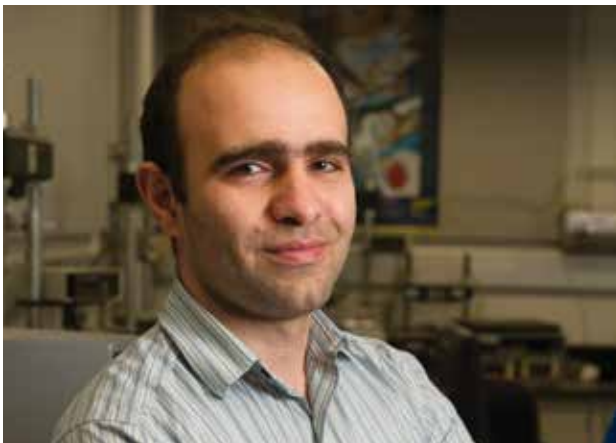
Mark Grinter and three other School of Engineering faculty members continue investigating permanent storm water best-management practices applicable to transportation infrastructure. Grinter's research focuses on applying novel techniques for solving capital and maintenance cost problems. In another project, Grinter used computer laboratory exercises performed by SIUE civil engineering, construction management, and land surveying students to comparatively evaluate traditional and alternative document templates for composing real estate boundary descriptions. The research result, published in the current issue of Surveying and Land Information Science (SaLIS) supports adopting alternative document templates to increase real estate transaction productivity.



Ryan Fries, PhD, PE

Associate Professor, Civil Engineering

Dr. Fries recently completed research that helped guide the Illinois Department of Transportation (IDOT) on how to come into compliance with a federal regulation on real-time traveler information. With more accurate information from IDOT, travelers can make better choices about how to travel, which routes to take and when to leave. He is currently working with Dr. Yan Qi, assistant professor of civil engineering, to develop guidelines related to pedestrian crosswalks for IDOT. This project aims to improve pedestrian safety by encouraging more consistent implementation of effective pedestrian safety treatments at specific crosswalk locations. Their research will focus on crosswalk locations where traffic is not controlled by stop signs or traffic lights.



Abdolreza Osouli, PhD, PE

Assistant Professor, Civil Engineering

Dr. Osouli's research interests are rock and soil characterization, safe underground excavation and tunneling, and geostructures' performance under seismic loading. Currently, Osouli is developing methodologies to identify the erosion potential of levee soils during overtopping in high flood seasons or hurricanes, a novel rock support design to avoid the failure of rocks in underground excavations or tunneling, updated methodologies for estimating seismic earth pressures on geostructures such as retaining walls and levee floodwalls based on centrifuge model tests, and quality aggregates for base and sub-base in highway applications. The outcomes of this research would allow a performance-based engineering design and result in sustainable infrastructure. His work has been disseminated in many publications and has been recognized by experts in the field.

BEYOND BORDERS: STUDENTS TRAVEL TO GUATEMALA

SIUE's Engineers Without Borders (EWB) chapter is on a mission to build a sustainable water distribution system and provide access to clean drinking water in the remote village of Virginia in Guatemala. The group made a second trip over winter break to assess the viability of digging a well deep enough to accommodate the village's needs.

"The community does not have running water," explained Caleb Mau, project manager and civil engineering senior from Bonfield, Ill. "The community has six wells, only one of which retains water during the dry season. Residents have to walk a mile to wash their clothes, bathe and get drinking water from small, contaminated streams."

Civil engineering students Alejandro Alvarez, a senior from Chicago; Julian Chastain, a senior from O'Fallon, Ill.; Sarah Lepp a junior from Waterloo, Ill.; and Mau conducted extensive water testing and surveying during the assessment trip.

"I love this organization. You get real-world experience with your major and actually see what a difference you can make for a community."

Chloe Huelsmann, Junior, Civil Engineering, Alton, Ill.

Along with providing a much-needed community resource, the project is exposing future engineers to the project management aspect of the industry.

Professional environmental and water resources engineer Allen Oertel served as a professional mentor for the trip. "It is vital for students to be able to interact with practicing professionals outside of academia to get a different perspective on what awaits them after graduation," Oertel said. "The ability to be flexible and adaptive is one of the greatest skills they can learn, no matter where they go to work."

This is the chapter's second international project. Four years ago, students built a bridge culvert in Honduras. Group members also volunteer regularly on local Habitat for Humanity projects.



FORECASTING THE FUTURE OF CONSTRUCTION

As a former project manager in the construction industry, Mark Grinter, assistant professor in the Department of Construction, has had to face the challenges of placing concrete under inclement weather conditions. Grinter used this industrial experience as inspiration to develop a free, web-based application that tracks weather patterns and humidity levels to avoid surface cracking from plastic concrete shrinkage. He partnered with fellow Department of Construction Assistant Professor, Dr. Anne Werner, as well as senior computer science students Bryan Allen of Mascoutah, Ill.; Daniel Grote of Pittsfield, Ill.; and Zachary Smith of Mount Olive, Ill.

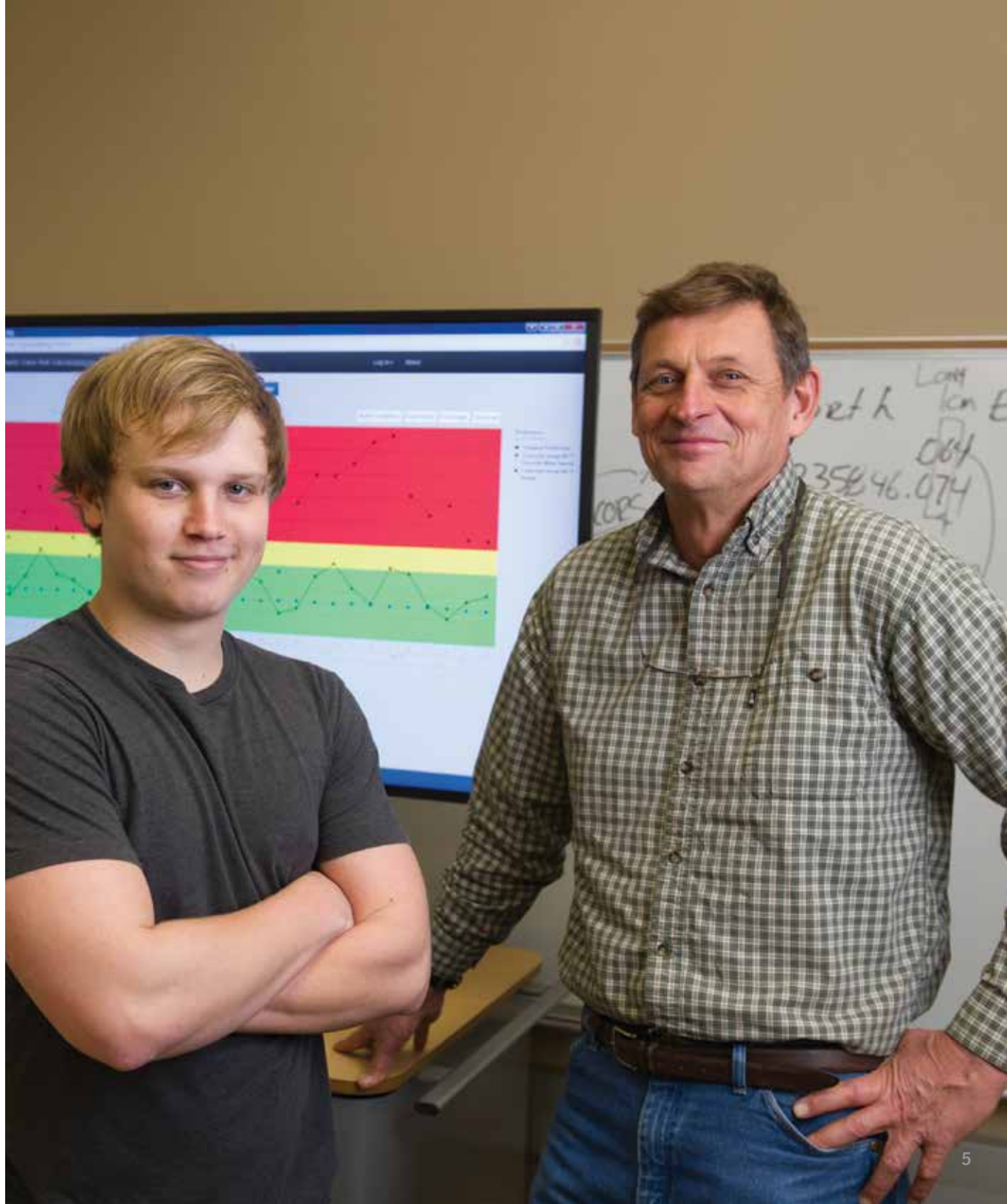
The application, called the Plastic Crack Risk Calculator, is the result of a two-semester-long senior assignment project for Allen, Grote and Smith.

“This was the first time any of us had been involved in the development of an application of this scale. It was exciting to take what we had learned in the classroom and apply it to a project.”

Daniel Grote, Senior, Computer Science, Pittsfield, Ill.

Now publicly available, the app has made an immediate impact on concrete constructors and the construction field as a whole. In fact, the group’s work gained recent recognition in the industry, being cited in publications such as the *Engineering News-Record* and *Concrete Construction*.

“We hope the app provides concrete contractors with another tool to ensure their customers get a quality, durable product that will last for decades, if not centuries,” Werner said.





ELEVATING EXPECTATIONS

Early in his freshman year, mechanical engineering student Alex Anderson of Galesburg, Ill., had the ambition to construct a weather balloon. “I thought it would be cool to photograph the curvature of the Earth with our School’s logo floating in near space,” said Anderson, who is now a junior.

Fellow classmates quickly joined him. The School of Engineering, Department of Chemistry within the College of Arts and Sciences, and local companies including Enclave Student Housing and Sherrill Associates Inc., also rose to the occasion, helping the team gather necessary tools and equipment. Additionally, the project included mentorship from professionals at the International

Space Station and the National Weather Service, as well as clearance for launch by the Federal Aviation Administration.

“I never realized that when you reach out to people, they reach right back to help you,” Anderson said. “It amazed us, and that’s one of the reasons why I can’t speak highly enough of SIUE.”

With that support, Anderson and fellow engineering juniors Jonah Gaffner of Greenville, Ill., and Amy Kurich of Brookfield, Ill., recently completed a third and successful flight. Equipped with two GoPro cameras, a GPS unit and an APRS tracker (radio), the balloon

captured breathtaking aerial images of the SIUE campus, the city of St. Louis and views from 20 miles above Earth – all while proudly displaying the University’s signature “e.” At the conclusion of the balloon’s successful flight, it landed about 45 miles from campus and had compiled approximately 10,000 photos and seven hours of video.

“The student team showed great dedication and determination by initiating and coordinating this project,” said Dr. Chris Gordon, associate dean of the School. “They overcame numerous constraints and obstacles as they refined their design. Their dedication and perseverance will be motivating for future engineers pursuing their own passions within the field.”

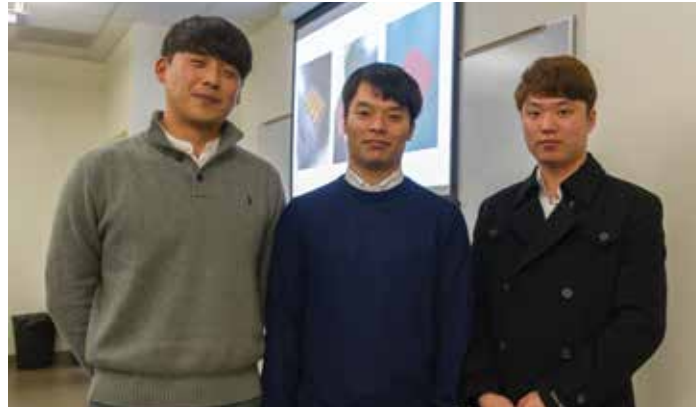
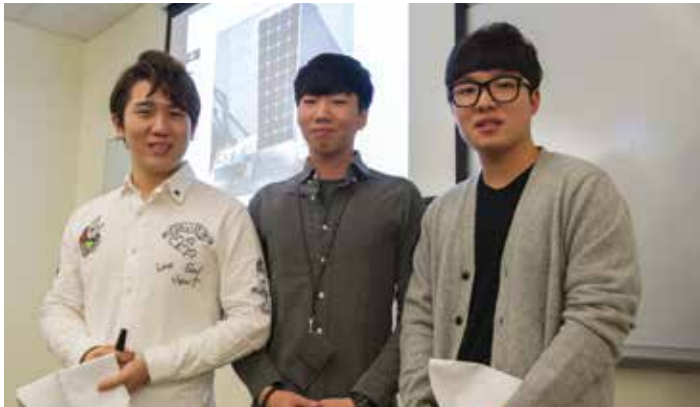
HOSTING INTERNATIONAL STUDIES

In December, the School of Engineering welcomed 14 students and two faculty guides to campus from Tongmyong University (TU) in Busan, South Korea. As part of a four-day trip, the Korean students were given a tour of St. Louis, participated in various campus activities and gave presentations on their recently completed design projects, some of which were done collaboratively with engineering students from SIUE.

The student exchange trip is one of the ways SIUE and TU strengthen ties. The schools also partner on a dual-diploma program, which offers South Korean students the opportunity to earn a degree from both universities. Additionally, the dual-diploma program provides for faculty exchange, summer programs and cooperative research.

“The visiting students are exposed to a different learning environment and culture,” said Dr. Soondo Kweon, assistant professor in the Department of Mechanical and Industrial Engineering. “They participated in various courses, saw SIUE students presenting their senior design projects, participated in activities in a regular classroom setting, visited the Environmental Resources Training Center and met with a student organization, which gave them opportunities to learn in different ways than they are used to.”

In August 2016, the School plans to offer SIUE students a two-week summer study abroad course at TU. The course will focus on design and structural analysis using three-dimensional modeling CAD software and commercial finite element analysis software.



“It has been a great time. This helps me gain cultural experience and work with people on an international basis.”
Lim Juno, Junior, Mechanical Engineering, Tongmyong University



STUDENT TEAMS SEEK SPACE

Amanda Fisher, Junior

Civil Engineering, Springfield, Ill. - Competition Chair, Geotechnical/GeoWall Team

“When I picture the new design center, I see a place where students are creating. I see a place filled with positive energy and a love of learning. I see passionate problem solving. I see a place where all of our design teams will build a community of support. A place where SIUE engineering students can proudly show what they have designed and created. I think that kind of environment will greatly improve the quality of projects that come out of SIUE.”



Jared Charter, Senior

Computer Engineering, Bonfield, Ill. - Co-Chair, Robotics Team

“The design center will be a nice place to collaborate with some of the other engineering organizations. It will provide a place for us to work on and store our competition robots and contain the tools needed to work on our robot projects. The conference room will give us a good place to hold meetings.”



Andrew Boschert, Senior

Civil Engineering, Edwardsville, Ill. - Team Captain, ASCE Steel Bridge Team

“The addition of a design center means that our team would not have to spend part of our valuable design time looking for an open computer lab. The center will help the process and success of all of our projects by giving us a place where we know we can meet at any time to work on our designs without question, whether we meet as a team or individually. It will also give us a place where we can practice building our bridge. As a part of the competition, you have to build your bridge as quickly as possible; so the faster we are, the better our score.”



Preston Steffey, Senior

Electrical Engineering, Belleville, Ill. - Team Captain, Solar Car

We’ve been borrowing space from other teams, and we spend a lot more time than we should moving equipment and putting things away. When we have a space to work, we will be able to come in at different times to work on a project in between classes, then come back to work on it again. I think the addition of a design center will put more focus on activities such as solar car and other teams. Students will walk into the building, see these workshops and know where they’re located. It will be easier to get them involved.”

Student Design Center

The proposed, two-story, 14,000-square-foot Student Design Center in the School of Engineering will include two large work bays for competitive project teams and senior design projects, a rapid prototyping center and student design area, an “engineer’s alley” to showcase projects, outdoor amphitheater seating, conference room, research areas, and a second-floor terrace. This addition will make new project space available, provide more hands-on learning and collaborative opportunities for students, and allow for better safety monitoring of work areas. The design is near completion, and we are expected to break the ground in late summer. The School is currently engaged in a campaign to raise \$1.4 million of the total project budget of \$5.7 million in 16 months to finalize the construction.



ALUMNI PUSH FOR SUPPORT

Ryan Perryman, BS Construction Management '04

Vice President, L. Keeley Construction

“When built, the Student Design Center will have an immediate and lasting impact on engineering students. While I know this center will help increase their technical knowledge, I am most excited about the important collaboration, communication and relationship-building skills they will gain while working on projects. Alumni and friends should reflect on their experiences working on projects as a student and think about how those experiences shaped them personally and professionally. Hopefully those memories will inspire them to contribute to this campaign so that other students may build similar memories.”

Vicki LaRose, BS Civil Engineering '90

President, Civil Design Inc.

“SIUE has developed an awesome engineering program that develops quality engineers. I believe this project will promote the School of Engineering and generate interest for future engineers. Having a Student Design Center is important because a top-notch engineering school needs to have design competitions. In order to have students get involved in these designs, the School needs a place for them to develop the best design.”

Jonathan Fowler, BS Electrical Engineering '10

Chief Operating Officer, Fowler Management Services Inc.

“This design center will give more than extra space to build projects; it will improve the educational environment for the entire School of Engineering. Currently, our student groups do not have space to adequately work on their projects without intruding on other students. We need to make sure they have the space needed to work on their projects with little or no limitations. “We need a group effort to make this happen. We need local businesses that hire our students. We need alumni. We need people from the community to donate. Everyone with a sense of pride or connection, whether it is directly related to the School or just in a community, has a chance to contribute and make a difference.”

Aaron Detmer, BS Mechanical Engineering '03

Project Engineer, G&W Engineering

“I have seen the School of Engineering grow continuously since I graduated, not only by the sheer number of students, but also in the capability and programs offered. I see the Student Design Center as a major step to continue this growth. Alumni, students, faculty and anyone can help by promoting the importance of this endeavor and donating any amount.”



STUDENTS GAIN EDGE WITH DUAL DIPLOMA

Through a dual diploma program, the School of Engineering and Istanbul Technical University (ITU) provide Turkish students the opportunity to earn two diplomas while gaining international exposure. Students spend freshman and junior years at ITU, and sophomore and senior years at SIUE.

“There are many advantages from this program when it comes to finding a job in Turkey,” said Beril Keskinler, a sophomore studying industrial engineering. “Industrial engineering is popular there, so to make a difference in myself, I came here to improve my language and my perspective.”

Students with international exposure have a significant advantage in today’s global economy. The opportunity to spend two years studying in the United States through this collaboration provides students the chance to improve not only their English, but also to broaden their perspectives and enhance their social skills.

Deniz Ersan, a senior studying industrial engineering, is fulfilling a dream through the dual diploma program. “I had good choices for universities, and ITU is one of the best in Turkey,” Ersan said. “I knew all of that, but my biggest dream was to go to a school in America.”

Ersan recognizes how the program has benefited her, including piquing the interest in Toyota and Turkish Airlines, where she completed internships.

“In the interviews, when I added that I go to university at SIUE in the U.S., they looked at me with another perspective,” she said. “They take me seriously. They like my thinking style and my discipline.”

SIUE and ITU began offering the dual diploma program in 2007 with the first students arriving at SIUE in 2008. The partnership has produced 107 graduates, and 127 students are currently enrolled in the program.

“America’s education system disciplines me so much. The culture of working hard and having projects, exams and deadlines means you can’t miss anything.” Deniz Ersan, Senior, Industrial Engineering, Turkey



OPPORTUNITIES ABOUND FOR GRADUATE STUDENTS

The School of Engineering's graduate population is particularly rich in students from India. Regardless of academic interests, they find SIUE provides opportunities to participate in outstanding research with world-renowned researchers while accessing educational freedoms and professional networking opportunities.

"I enjoy aviation technology, specifically engines for aircrafts and the materials used in the engines," said Daniel Raja, a doctoral candidate studying engineering science who also holds a master's degree from SIUE. "My advisors are top-level researchers in that field. I read their papers when I was doing my undergraduate research and now have the opportunity to work directly with them."

"Before I chose SIUE, I was interested in knowing where research is happening, and I found my areas of interest aligning with the faculty of SIUE."

Daniel Raja, doctoral engineering science candidate

Originally from Hyderabad, India, Ravneet Kaur is a doctoral candidate studying electrical engineering and is grateful for the academic freedoms she has experienced at SIUE. "In India, they have a fixed curriculum for each major, and you are not allowed to change that plan of study. I was frustrated about that, because I wanted to explore multiple areas of engineering," she said.

"When I came here, I had the freedom to personalize

my curriculum. Now, I have been able to study a wide variety of topics, which made my studies highly gratifying."

Kaur also credits the support of her professors for her growth as a biomedical engineering researcher and academic. Through their mentorship, she has developed interests in control systems and image processing and aspires to become a college professor herself.

EXPANDING THE IMAGE OF ENGINEERS

Being from Brookfield, a suburb of Chicago, Amy Kurich has always been interested in skyscrapers. Now the School of Engineering student hopes to build one someday, an aspiration that may never have occurred were it not for a middle school drafting class.

“I loved what I was doing in class, and my teacher said I was good at it,” Kurich said. “I went home and told my parents I was going to be an engineer, and I haven’t changed my mind since. Now I’m a junior majoring in civil engineering.”

Grateful for the early exposure to engineering, Kurich shares her passion with other young girls, whether it is through STEM gifts to her nieces or helping host hundreds of girls for Introduce a Girl to Engineering (IGE) day. IGE is just one of the outreach efforts organized by the SIUE student chapter of Society of Women Engineers (SWE).

Kurich serves as president of SIUE’s chapter of SWE. The organization’s mission is to empower women to achieve their full potential in careers as engineers and

leaders, expand the image of the engineering profession as a positive force in improving the quality of life, and demonstrate the value of diversity.

“Women have different perspectives than men,” Kurich said. “We take different actions, find faults that men don’t, and think differently. To do the best work, it’s important to have as many diverse minds as possible.”



ENGAGING THE FUTURE

Each year, the School of Engineering hosts numerous events to engage pre-college youth in engineering activities, in an effort to ignite a spark for engineering or to foster their existing interests in the field. The School's most popular event is the SIUE Engineering Summer Camp, which introduces high school students to various engineering disciplines, as well as computer science and construction management.

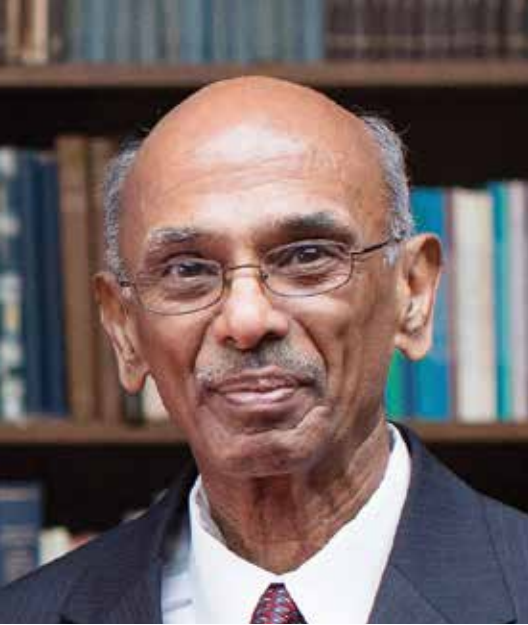
Attendees learn about these fields by participating in several hands-on laboratory experiments, design contests and field trips. Through group activities, camp attendees build relationships and gain a deeper understanding and passion for the field of engineering.

This summer, the School celebrated a new partnership with Phillips 66 Wood River Refinery. The company graciously sponsored scholarships, provided equipment, created additional camp activities, and provided professional opportunities for SIUE Summer Camp attendees. In addition, attendees were given a tour of the 2,200-acre refinery in Wood River, Ill.

"Students spoke with recently hired engineers and learned about their day-to-day responsibilities," said Dr. Chris Gordon, associate dean of the School. "It has been an excellent partnership."

The School believes that the camps have largely contributed to the influx of engineering students at SIUE. "In 2014, we had about 10 summer campers enroll at SIUE," Gordon said. "This year, 35 former campers applied to the University for the fall semester."





EMERITUS PROFESSOR INVESTS IN FUTURE OF STUDENTS

For 26 years, Dr. Raghupathy Bollini taught electrical and computer engineering in the School of Engineering. Bollini retired as the chair of the Department of Electrical and Computer Engineering in 1999 and maintains his commitment to helping the University reach greater heights. As such, he established the Raghupathy and Salarani Bollini Endowed Scholarship.

Bollini's gift will ensure scholarships for computer or electrical engineering students with preference given to those with financial need and first generation college students. Bollini hopes the scholarship, which is open to continuing students with a 3.0 GPA or higher, will help deserving students to achieve their goals.

By giving an endowed scholarship, the Bollinis have established a permanent asset from which engineering students can receive support. The gift is invested for growth, the revenue of which then provides annual scholarships on a continual basis.

"The School of Engineering gave me the financial security and freedom to achieve everything in my life, and this is the least I could do to repay," Bollini said. "SIUE is a great educational institution, and I am proud to have taught there and been a part of its impressive growth."



STUDENT SCHOLAR CLIMBS TOWARD SUCCESS

A self-described class clown who wasn't the best at sports, Ollie Langhorst left those days behind after high school. He went on to serve in the United State Marine Corps and gain experience in the workforce, and each of these experiences helped shape the drive for excellence the senior mechanical engineering major from St. Louis exhibits today.

"When I was younger, nobody would have picked me to be on their team," Langhorst said. "I've made it one of my goals to build a reputation for being a quality student and someone my peers can go to for help. I want to be a first-draft pick."

His work and dedication within the School of Engineering set him apart as a candidate for The Boeing Company Scholarship. To fulfill the application requirements, Langhorst submitted his resume and an essay on his career objectives. Langhorst identified his short-, mid- and long-term career goals, and wrote about the career objectives he refers to as his moral compass.

"I wrote about my aim to work for companies that have a strong record of safety, quality, growth, diversity and corporate ethics," Langhorst said. "I also spoke about what's driving me. I'm a non-traditional student, and my wife and family have made sacrifices to support me while I go to school. I have a desire and sense of duty to repay that to them."

"Receiving The Boeing Company Scholarship shows to me that the hard work and sacrifices I've had to make haven't gone unnoticed. It shows me that the faculty is paying attention to the people who are working hard and taking note of that."

"Having a plan and a moral compass is great, but without that drive you won't hit your goals." Ollie Langhorst, Senior, Mechanical Engineering, St. Louis



Dr. Daryl Beetner Inducted into Alumni Hall of Fame

This fall, the School of Engineering inducted Dr. Daryl Beetner, BS Electrical Engineering '90, into the SIUE Alumni Hall of Fame. While attending SIUE, Beetner was a Presidential Scholar, a fellow of the Undergraduate Research Academy and a recipient of the SIUE Foundation Academic Excellence Award.

Upon graduation, he received a four-year graduate fellowship from Washington University in St. Louis, where he obtained a master's and doctorate in electrical engineering in '94 and '97, respectively. He joined the faculty of electrical and computer engineering at the Missouri University of Science and Technology in 1998 and is now chair of the department.

"I got more at SIUE than I would have at a bigger school," Beetner said. "I had one-on-one experience with faculty, had more hands-on learning experiences, got to do undergraduate research, was an assistant in a teaching lab and, as a junior, got a job in St. Louis where I was able to learn how to be an engineer while still taking classes."

Beetner said he was surprised at being inducted into the Alumni Hall of Fame. "I know there are a lot of phenomenal people out there to choose between, and somehow they selected me," he said. "I'm honored to have been selected."

SCHOOL OF ENGINEERING INDUSTRIAL AND PROFESSIONAL ADVISORY COUNCILS (IPAC)

Civil Engineering

Jeffrey Abel, BS '91 · Illinois Department of Transportation
Garry Aronberg · Lochmueller Group
Geri Boyer, BS '91 · Kaskaskia Engineering Group, LLC
Tom Cissell, BS '97, MS '04 · Oates Associates Inc.
Pat Judge, BS '96 · Gonzalez Companies LLC
Charles Juneau · Juneau Associates, Inc.
Vicki LaRose, BS '90 · Civil Design, Inc.
Scott Miller, BS '96 · MiTek Industries
Ted Nemsky, BS '85 · Illinois Department of Transportation
Ruofei Sun · Cannon Design

Computer Science

Charles Beatte, BS '95 · NJVC, LLC
Jayson Bentley, BS '95 · Monsanto
Jeff Croxell, MS '09
Tyler Downs · CareOtter
Hal Gentry, BS '82 · Capital Innovators
Michael Katich · ESS Data Recovery, Inc.
Gary Kochan, BS '77, BS '88 · Enterprise Holdings
J. R. Maxfield · Enterprise Holdings
Paul Scheibal, MS '90 · Laclède Gas Co.
John Spyers · Perficient
Ebony Williams · AT&T

Construction Management

David Antognoli · Goldenberg Heller & Antognoli, P.C.
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Architect's rendering of the North side of the Student Design Center.



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