



Bert Cooper Lab



SCHOOL OF CIVIL AND ENVIRONMENTAL ENGINEERING

DECEMBER 2017
NEWSLETTER

MESSAGE FROM DR. NORB DELATTE

It's been just over a year and a half since I took over as Head of the School of Civil and Environmental Engineering, and it's been an exciting time. In the rest of the newsletter, you can read about the many accomplishments of our faculty and students.

In May 2017, we brought back Link 214 of the Order of the Engineer and administered the Obligation to about two dozen graduating CEAT students. We plan to hold a ceremony every April or May for each year's graduating class going forward.

Our incoming and graduating classes in civil engineering continue to grow. Last year, we revised the Bachelor of Science in Civil Engineering curriculum to reduce it from 136 or 137 to 128 semester credit hours, which is approximately the national average. We hope that this will encourage more students to enroll in civil engineering, and in some cases graduate a semester early.

I am also proud to announce that CIVE had 28 students take the FE exam in spring 2017, which is twice as many as in spring 2016. 27 of them passed – that is a 96 % pass rate, compared to a 69 % national average, and 10 percentage points better than last year's 86 %. Congratulate our new OSU Engineering Interns on that awesome achievement!

Construction on the Endeavor Undergraduate Laboratory continues, and the building is almost fully enclosed. We expect to be teaching laboratory courses there as soon as the start of the fall 2018 semester. We already have strong hands on laboratory experiences in our program – our new building will make this even stronger. This will have some equipment we have not had access to before, such as a state of the art hydraulic flume. (continued on page 2)



MESSAGE FROM DR. DELATTE (continued from page 1)

One thing that I am particularly excited about is that, after decades in Engineering South, the School will be moving to a renovated second floor of Engineering North. We are still working on the plans, but it will probably resemble the renovated fourth floor for the School of Chemical Engineering. Those renovations were substantially enhanced by gifts from industry and alumni, and our floor renovation will offer these opportunities as well. There will be naming opportunities for conferences, offices, classrooms, and student spaces. Con-

tact me for details. The renovations will take the 2018-19 academic year, with a goal of moving in at the start of the fall 2019 semester.

We are planning to put together an event in conjunction with Homecoming 2018 to “say goodbye” to Civil Engineering in Engineering South. More details to come.

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Make plans now to join us for Homecoming in 2018 to say goodbye to Civil Engineering in Engineering South!

The Civil and Environmental Engineering Graduate Student Association hosted a tailgate at OSU’s Homecoming on October 14 on the south lawn of Engineering South. Everyone enjoyed the food, company and games. CEEGSA President, Hema Jayaseelan, would like to extend a special thanks to all CEEGSA volunteers, the Concrete Canoe Team, and especially, Dr. Julie Hartell and Dr. Greg Wilber for making the event a great success.

CEEGSA 2017 HOMECOMING EVENT





ENDEAVOR UNDERGRADUATE LABORATORY UNDER CONSTRUCTION

The ENDEAVOR is a new type of building that is laboratory, entrepreneurial development, and hands-on collaboration all in one.

The 72,000-square-foot ENDEAVOR facility will include state-of-the-art design that is reconfigurable so that it meets future educational needs. The structure is designed to be used as a teaching tool for architecture and energy utilization. It will support an estimated 84 courses with approximately 118 laboratory sections.

ENDEAVOR will help OSU address Oklahoma's shortage of engineers and technology professionals, who play a vital role in the state's growing economy. Engineering enrollment at OSU has doubled in the past decade, creating a critical need for modern laboratories that address the challenges of tomorrow and drive economic development in Oklahoma.

The facility will enhance academic outcomes through hands-on education, interdisciplinary and collaborative problem-solving and entrepreneurial innovation. Its goals were established by collaboration between industry leaders, faculty and students. These include creating a flagship facility for undergraduate programs; encouraging interaction and cross-pollination among all constituents; creating topic-specific laboratories; exhibiting and utilizing building systems as instructional tools; including an exposed steel structure, meters displaying energy and water usage, and color coding and labeling of utility systems.

The building will include areas designed to facilitate specific undergraduate, project-based learning. The chemical and environmental labs will be state-of-the-art facilities that support (continued on page 8)

96% PASS RATE

SPRING 2017

FE RESULTS

CIVE had 28 students take the FE exam in Spring 2017, which is twice as many as in Spring 2016. Twenty-seven passed, which is a 96% pass rate, compared to the national average of 69%, and 10 percentage points better than last year's 86%.

SPRING 2017

PE RESULTS

Sixteen OSU graduates attempted the PE exam, and 11 passed. Are you a new OSU PE? If so, let us know so we can put it in the next newsletter.

JOIN US ON LINKED IN

Join the other 153 faculty, students, alumni, and friends on the OSU School of Civil and Environmental Engineering LinkedIn group
<https://www.linkedin.com/groups/12013094>

CIVE ADVISORY BOARD



Picture Top to Bottom:

Jon Nelson, Brian Orr, Brad Mirth, Jenny Sallee, Tom Graham, Paul Green, Tom Ratzki, Tim Oberlender, Fred Campana, Kevin Koerner, Ed Stokes, and Norb Delatte.

Many thanks to the members of the Civil and Environmental Engineering Advisory Board who spent two days this past fall meeting with faculty and staff to provide guidance to enhance and improve all aspects of the school's program. The CIVE Advisory Board is a group of practicing professional engineers that constitute a vital link between civil and environmental engineering education and civil and environmental engineering practice. They provide advice that enables the School to better perform its role of preparing students for the practice of engineering and serve to disseminate among practitioners a clear and objective understanding of the manner in which the School is attempting to fulfill this role.

Faculty and staff would especially like to thank Ali Frazel and Ed Stokes for their service on the Board; and welcome Shawnita Sterett, Mike Abbas and Sarah Kellert as new members.

ORDER OF THE ENGINEER CEREMONY



Link 214 is back! Congratulations to the twenty-two CIVE students who were inducted into the Order of the Engineer on May 12, 2017. The Order of the Engineer was initiated in the United States to foster a spirit of pride and responsibility in the engineering profession. The goal is to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer.

CHRIS WAITE AWARDED CEAT DEAN'S OUTSTANDING SENIOR AWARD AND ST. PATRICK'S AWARD

Congratulations to Chris Waite for receiving the 2017 CEAT Dean's Outstanding Senior Award and the 2017 St. Patrick's Award! The Dean's Outstanding Senior Award was established to recognize outstanding members of the CEAT student body; the Saint Patrick's Award is a special recognition awarded each year by CEAT's Student Council honoring the top five graduating students for their accomplishments in the areas of leadership, academics, and contributions to Oklahoma State University, CEAT, and the community.



Dr. Norb Delatte and Chris Waite

CIVE WELCOMES DR. GOURANGA BANIK

CIVE welcomes its newest faculty member, Gouranga Banik. Dr. Banik received his B.S. and M.S. in Civil Engineering from Bangladesh University of Engineering and Technology (BUET); his M.Sc. in Management and Implementation of Development Projects (MIDP) from the University of Manchester; and his Ph.D. in Civil Engineering from Iowa State University. He comes to CIVE with 19 years of academic experience and 10 years of industry experience. His research interests include Sustainability and Resiliency of Infrastructure Systems; Project Costs, Safety and Risk Analysis; International Construction; Treatment Systems; and Engineering and Technology Education.



Dr. Gouranga Banik

DR. TYLER LEY SELECTED FOR PRESTIGIOUS MARLIN J. KNUTSON AWARD FOR TECHNICAL ACHIEVEMENT



Dr. Tyler Ley

At a ceremony at ACPA's 54th Annual meeting in San Diego on November 30, 2017, Dr. Tyler Ley was awarded the prestigious Marlin J. Knutson Award for Technical Achievement for 2017.

This award is presented annually to an individual or organization that has made significant contributions to the development and implementation of innovative technical approaches in design or construction of concrete pavements.

In a relatively short period, Dr. Tyler has made quite an impact on the concrete pavement industry through his enthusiastic approach to learning, researching, teaching and innovating. His efforts have created practical new tests and products that have led to patent applications and on-going adoption by industry. Dr. Ley's Super Air Meter is an outstanding innovation and a technical achievement worthy of the Marlin J. Knuson Award for Technical Achievement.

Congratulations to Dr. Ley on receiving this prestigious award!

REGENTS DISTINGUISHED TEACHING AWARD GIVEN TO DR. ROBERT EMERSON



Dr. Robert Emerson

Robert Emerson is the recipient of the 2017 Regents Distinguished Teaching Award. Robert has shown unusually significant and meritorious achievement in the instruction of students for many years. His achievement is evidenced by his unusual effort devoted to ensuring the quality of the students' classroom learning experience. Congratulations Dr. Emerson on this well-deserved award!

DR. KELVIN WANG SERVES ON THE BOARD OF GOVERNORS FOR THE TRANSPORTATION AND DEVELOPMENT INSTITUTE OF ASCE

Kelvin C.P. Wang is a past president of the Transportation & Development Institute of ASCE and currently serves on the FY18 Board of Governors. The Transportation & Development Institute (T&DI) is a specialty membership organization focused on transportation and development professionals and the transportation and development industry. It is one of the American Society of Civil Engineer's nine specialty Institutes. T&DI combines the talents and perspectives of its members to promote professional excellence in all aspects of transportation engineering, urban planning and development.

Dr. Wang holds the Decker Dawson Chair at OSU. His area of expertise is automated data systems for pavement engineering and he has developed hardware sensor and software solutions for pavement distress survey. He has been active with ASCE since the 1990s. He has degrees from China's Jiaotong Universities and Arizona State University. He received the 2011 ASCE Masters medal for his contribution to transportation engineering.



Dr. Kelvin Wang

ENDEAVOR UNDERGRADUATE LABORATORY UNDER CONSTRUCTION (continued from page 3)

scaled-unit plant operations, allowing students to understand the design parameters of processing chemicals and industrial materials into usable products. The flow and thermodynamic lab will support hands-on experimentation of advanced fluid and heat transfer systems. ENDEAVOR will have mechanical and physical properties testing labs to allow students to characterize materials by physically testing the engineering properties. The electronics and communications labs will be a hands-on environment that allows students to put theory to practice and develop innovative devices that measure, evaluate and control electrical systems. Finally, ENDEAVOR will support a large Venture lab that will provide additive manufacturing (3D Printing), automated machine manufacturing, robotic control and coding for control systems.

The building will house 14 undergraduate research laboratories spread strategically throughout its three floors along with a lecture hall and student-project space. It will be at the corner of Hester Street and Athletic Avenue, bridging architecture, engineering, entrepreneurship, and industry interactions.

BRET ROBERTSON & KATELYN OQUIN WIN AMERICAN CONCRETE INSTITUTE FELLOWSHIP AWARDS

OSU Civil Engineering students, Bret Robertson and Katelyn Oquin, are recipients of the prestigious American Concrete Institute (ACI) Fellowship Awards.



Katelyn Oquin and Bret Robertson

Robertson, a graduate student from Inola, Oklahoma, and Oquin, Class of 2016 from Burneyville, Oklahoma, will each receive a \$7,000 stipend, an all-expense paid trip to the next two ACI conventions, assistance in finding an industry mentor and assistance in finding a summer internship.

“This is a great honor for Oklahoma State University and our students,” says Tyler Ley, Ph.D. and civil engineering professor. “It showcases the high quality of students we have here and it’s great that they’re recognized by such a prestigious group.”

Over 1,000 students apply for this award each year, and Robertson and Oquin are the first from OSU to receive it. There have only been two previous universities that have had two students win the ACI Fellowship in the same year.

CEAT OUTSTANDING STAFF AWARD GOES TO MARY MUTH

CIVE Student Services Coordinator, Mary Muth, was awarded the CEAT Outstanding Staff Award at a banquet held April 14 2017. Nominees for this award were evaluated on the quality and quantity of work, job knowledge, attitude, interaction with other people, self-improvement activities and results, and ability to work with minimal supervision. Congratulations Mary!



Mary Muth, Student Services Coordinator

STUDENTS PARTICIPATE IN HURRICANE HARVEY RELIEF EFFORT

In September, the OSU chapter of the American Society of Civil Engineers participated in a Hurricane Harvey relief effort initiated by the ASCE chapter at Lamar University in Beaumont, Texas. Through a couple of events at the college's Student Excellence Center and at the branch meeting in Oklahoma City, the students raised \$370 to purchase school supplies for K-12 schools in the Beaumont area.



Pictured L to R: Megan Buchanan, Rachel Horsman and Brittany Davis, officers for the OSU Student Chapter of ASCE

CONGRATULATIONS CLASS OF 2017!!!!



CONTRIBUTION FORM

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School of Civil and Environmental Engineering
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