COLLEGE OF
ENGINEERING, ARCHITECTURE
AND TECHNOLOGY

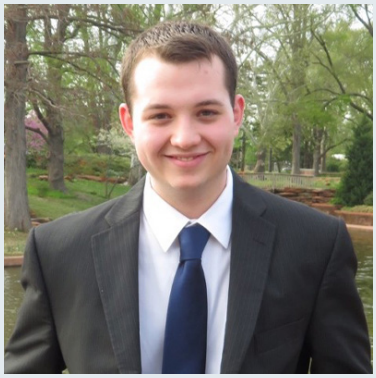
CEAT HIGHLIGHTS

May 2021

Academics

OSU teams win at Love's Entrepreneur's Cup

CEAT student awarded SMART Scholarship



Oklahoma State University extends agreement with Southwest Jiaotong University in China

Academics

Two CEAT students selected to receive Walt Kolb Studies Scholarships

Oklahoma State University announces scholar society members

OSU celebrates classes of 2021 and 2020 with historic commencement

Announcements

CEAT recognizes faculty and staff for their years of service

35 Years of Service

Daleene Caldwell

30 Years of Service

Young Chang

David Tree

25 Years of Service

Diane Compton

20 Years of Service

Bennett Brock

Janice French

Brandy Mays

Bryan West

15 Years of Service

Imad Abouzahr

Linda Brewer

Teddy Combs

Nathan Cragun

Tieming Liu

Floyd Luinstra

Daqing Piao

Michael Rabens

Yokolanda Speight

James Stine Jr.

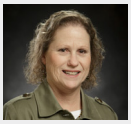
Robert Taylor

10 Years of Service

Michael Challis

Jillian Conaghan

Andrea Haken-Hughes



Paula Kendrick

Chelsea Schafer

Gary Don Thacker

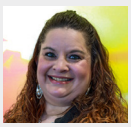
THANK YOU ALL FOR YOUR SERVICE TO CEAT!

5 Years of Service

He Bai

Austin Buchanan

Misty Daniels

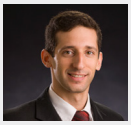


Tobi Harris

Do Young Kim

Seok-Jhin Kim

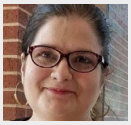
Michael Melancon



Ehsan Moallem

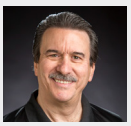
Kelly Naas

Kristie Newby



Lucy Newlin

Omer San



Steven Sawyer

Mohamed Soliman

Jeffrey Young

Farzad Yousefian

Announcements

CEAT recognizes these outstanding faculty and staff for their accomplishments

CEAT Excellent Faculty Award

Kurt Rouser

Dr. Kurt Rouser is an Assistant Professor in the School of Mechanical and Aerospace Engineering. Rouser is a gifted teacher, who strives for excellence in the classroom. He has never had a student evaluation below the 90th percentile, and this is attributed to the contagious enthusiasm he brings to his course materials.

Rouser's research is innovative, relevant and firmly connected to the Oklahoma aerospace industry. Impressed with Rouser's expertise, Pratt and Whitney signed a $500,000 Master Services Agreement to engage OSU faculty in solving some of their most difficult problems related to engine maintenance. Rouser and his students also developed innovative and cost-effective solutions for Kratos, a defense and security solutions company. Rouser was recently asked to share authorship of AIAA's best-selling aerospace propulsion textbook.

Rouser revived the dormant Tau Beta Pi engineering honor society on campus and propelled the OSU Rocketry Club to back-to-back Argonia cup victories. He mentors multiple capstone design teams, supports CEAT Scholars interviews, seminars and faculty searches. His service to MAE and CEAT is exceptional.

CEAT Excellent Teacher Award

Jay Yowell

Professor Jay Yowell is an Assistant Professor in the School of Architecture. Yowell's students view him as an effective teacher and communicator who explains complex issues simply and clearly. He is kind, approachable and likable and reads his students well. His experience as a practicing architect comes into the classroom effortlessly as he lectures about the complex topics of building materials and their application, and the topics of sustainability and the moral issues associated with the practice of architecture. He firmly believes in the role of the architect as a steward of the environment and invents new research projects for his courses to further the student's understanding of environmental issues.

Yowell has distinguished himself as an expert on the topic of Biomimicry, a timely research issue that involves the study of natural structural patterns and how they can be applied to create robust and natural solutions to the problems facing architects today. He invented a new course on the topic, "Biomimicry and Architecture." Yowell also successfully secured an OSU Research Grant in Humanities, Art, and Design to research the topic of Myco-Masonry, where he creates building bricks by using mushrooms and other organic materials. A fifth-year studio architecture team sought his advice on the topic, and used what they learned from him to garner a finalist designation in an international student design competition for urban space furniture.

Yowell currently serves on the Lecture Series, Architecture Building and Scholarship and Awards committees-all of which heavily focus on the student experience. In addition, he serves as the advisor for three different student organizations: Freedom by Design, the Construction Specialists Institute and the Sustainability, Energy, and Resources Collaborative.

Jeffrey Callicoat

Dr. Jeffrey Callicoat is an Adjunct Professor and instructs the foundational interdisciplinary first- and second-year courses in CEAT. He teaches multiple sections of two of these courses each semester, that usually consists of a combined enrollment of 300 students per semester. Callicoat has transformed these courses into something that inspires students and prepares them for success in future courses in other departments.

Callicoat is an excellent lecturer. He is organized, personable and available to student's and he is typically ranked among the top 2 or 3 in student evaluation scores among all thirteen sections of the CEAT foundational courses.

In addition to the foundational courses he teaches, Callicoat also taught a special section to students from Southwest Jiaotong University in Chengdu, China for three semesters as part of a joint program with CEAT's Fire Protection and Safety Engineering Technology program. He helped lauch the program's first year by traveling to China for a week to interact with the students face-to-face and has since, interfaced in an online learning environment.

Callicoat has co-taught courses in the School of Mechanical and Aerospace Engineering and has mentored students as an advisor for student organizations.

CEAT Outstanding Performance Award

Kimberly Anderson

Kimberly Anderson is the Administrative Support Assistant for the School of Civil and Environmental Engineering and is the first person you meet when walking into CIVE's main office. Her positive attitude and dedication to customer service make it a welcoming place for students, faculty, staff and other visitors.

Anderson was instrumental in making CIVE's move from Engineering South to Engineering North last year smooth. It was no small task to arrange for the movement of the department's historical records that date back to 1939 and are stored in boxes, files and other formats. She also coordinated the move of each faculty member's office. In addition to the move, Anderson was pivotal in coordinating the ribbon cutting and grand opening of CIVE's new floor in Engineering North.

Over the past year, Anderson has helped lead the department's response to the pandemic. She has stepped up to keep the department functioning during this difficult time, and has taken a strong interest in keeping the 2nd floor of Engineering North clean and safe.

Although CIVE already considers Anderson an effective leader, she is always seeking out opportunities to improve herself. She has participated in the university's Advanced Leadership Development Program and serves on the Staff Advisory Council.

Charlotte Fore

Dr. Charlotte Fore is the Manager of the School of Mechanical and Aerospace Engineering's Research and Graduate Programs. She manages one of the largest and fastest growing research programs in CEAT. Fore's depth of experience in Department of Defense contract regulations has proven invaluable to MAE with regards to research.

Fore is also the graduate advisor for the largest graduate program in CEAT. She advises 130 graduate students and knows each one by name. Fore assists in writing her student's offer letters, manages their plans of study, recommends development plans, puts together their teaching assistant and research assistant assignments each semester and above all makes them feel at home in MAE.

Fore initiated a welcoming event for MAE graduate students where the 360˚Critical Skills for Career Success professional development program was discussed, and since that time there has been a significant increase in MAE graduate student participation in the program. In addition, Fore pulled out all of the stops to support CEAT's Graduate Student Recruitment Event. Working with college staff to make the event a success, she personally recruited more student attendees than anyone else for not only MAE but three different departments.

Fore serves on the Slate Advisory Board for the Graduate College, where she has been an early adopter of new technologies to aid in the identification, recruitment and retention of high-quality graduate students and provides feedback that will allow the Graduate College to continue to develop the platform to support these efforts within MAE and beyond. Fore has grown the MAE graduate student body by 18% and doctoral students by 28%, the highest levels in over five years.

Chelsea Wooldridge

Chelsea Wooldridge is an Administrative Assistant, Building and Office Manager for the School of Architecture. Wooldridge is the direct assistant of the Head of the School of Architecture and the point person for all departmental operations.

Wooldridge is responsible for all HR actions, including payroll, departmental purchasing and budgeting, faculty and student travel, alumni relations events, grant and contract funding issues, student scholarship awards, building maintenance issues, the training and supervision of other office staff and student workers and other general office operations for ARCH. The quantity and breadth of issues she tackles is amazing, and everything she touches is always professionally prepared.

Wooldridge makes sure that every person who enters her office, whether faculty, staff or student, receives her full attention and truly feels their needs are being given full consideration. She anticipates problems and handles issues with tact and confidentiality. During the altering of operations due to the pandemic, Wooldridge assisted in developing a means to deliver all of ARCH's services to students online, and when it was time to return to in-person courses she assisted in adapting the facility so that students and faculty would feel safe returning.

Wooldridge also assists the Head of ARCH with alumni exchanges that are critical to the school's fundraising abilities and interacts with donors and is considered an asset to ARCH.

CEAT Excellent Scholar Award

Mohamed Soliman

Dr. Mohamed Soliman is an Assistant Professor in the School of Civil and Environmental Engineering. Soliman consistently received high ratings and favorable comments on student surveys, and has worked hard to develop new courses and modify existing courses. The elective and graduate courses that he teaches have high enrollments.

He has done an excellent job mentoring graduate students, having graduated three Civil Engineering Master's students, and he is currently mentoring two. CIVE students have been particularly eager to work with him to continue their graduate studies under his supervision. Soliman is a graduate of the American Society of Civil Engineers Excellence in Civil Engineering Education program.

Soliman's research and scholarship are among the most productive in CIVE and CEAT. He has 13 awarded research projects, and his research expenditures for fiscal year 20 rank him second in CIVE and 11th in CEAT. He has collaborated on proposals with many different scholars across CEAT and he has had research sponsored by the Office of Naval Research, the National Science Foundation, the American Institute of Steel Construction, the Oklahoma Center for the Advancement of Science and Technology and the Oklahoma Department of Transportation. He has 25 peer reviewed journal publications and has published 8 book chapters. He received 2nd Place in the 2019 OSU President's Cup for Creative Interdisciplinarity.

In addition to his teaching and research, Soliman has an exemplary record of service. He led CIVE's efforts during the CEAT 2019 Graduate Recruitment Event and help organize Oklahoma Transportation Research Days. He has also served on many technical committees including the American Society of Civil Engineers, the American Institute of Steel Construction and the Transportation Research Board of the National Academies of Sciences, Engineering and Medicine.

CEAT Outstanding Academic Advisor Award

Lori Carroll

Lori Carroll serves as an academic advisor for the School of Architecture and embodies what it means to provide excellence in her support of students in both ARCH and CEAT. Carroll is the sole advisor for approximately 325 students in both architecture degree programs.

Carroll advises students through all five years in the ARCH program, and takes time to get to know the students and help them navigate through any number of issues that they may encounter. Carroll engages with CEAT Student Services in a way that provides new avenues of partnership and additional support for architecture students.

Carroll has completed the Master of Counseling program at Kansas State University and these advanced studies have provided her with the foundation to see problems others may overlook, and to find new ways to reach students. Her history working for the Bursar's office adds a layer of depth to her understanding of student financial aid issues and she efficiently prepares students for their graduation checks with her understanding of OSU policy and procedures.

Carroll serves on several ARCH departmental committees including, the curriculum committee, the scholarships/awards committee, the marketing/recruiting committee and the diversity, equity and inclusion committee, to add insight to matters that involve students.

Her instinctive, motherly, attitude, her wonderful sense of humor and her readiness to help others truly makes Carroll an asset to the School of Architecture and its students.

Dean's Leadership Excellence Award

Jordan Blackburn

Jordan Blackburn serves as CEAT's first Coordinator of Retention and is responsible for overseeing multiple high-profile, highly successful programs, including the CEAT Summer Bridge Program, the CEAT Parker Hall Living and Learning Program, the PEATE student mentoring program, the CEAT Mentor Program, CEAT Tutoring and the CEAT Freshman Diploma Program.

Under her leadership freshman-to-sophomore retention has been above 90% and 96% of the Summer Bridge participants returned for their sophomore year. Last year, the Summer Bridge program increased by 50%. In addition, 89.7% of CEAT students living in Parker Hall returned for their sophomore year.

Blackburn has been at the helm of retention during a time of extreme success, even while dealing with the effects of the COVID-19 pandemic. She consistently displays a high degree of responsibility, integrity and hard work for student's success and the success of the college.

Announcements

CEAT recognizes these outstanding CEAT teams for their accomplishments

CEAT Outstanding Team Achievement Award

CEAT ENDEAVOR

Congratulations to the CEAT ENDEAVOR staff on receiving this Outstanding Team Achievement award in recognition of your efforts for the College of Engineering, Architecture and Technology during the COVID-19 pandemic.

The CEAT ENDEAVOR staff worked to develop new protocols to be able to safely conduct hands-on labs in ENDEAVOR during the pandemic. ENDEAVOR also hosted two "COVID Pilot Project Classrooms" which significantly increased the capacity of the classrooms and was critical to CEAT being able to deliver in-person courses in Fall 2020.

ENDEAVOR
College of Engineering, Architecture and Technology

CEAT Outstanding Team Achievement Award

CEAT Facilities

Congratulations to the CEAT Facilities Management staff on receiving this Outstanding Team Achievement award in recognition of your efforts for the College of Engineering, Architecture and Technology during the COVID-19 pandemic.

CEAT Facilities Management worked closely with the Associate Dean of Academic Affairs to reconfigure all CEAT classrooms and student spaces for social distancing. This team also created new classroom spaces in ENDEAVOR, Engineering South, and the Scott-Parker-Wentz first floor cafeteria. With approval from OSU, five "COVID Pilot Project Classrooms" were designed, fabricated and installed in Engineering North, ENDEAVOR and Scott-Parker-Wentz which significantly increased the capacity of these classrooms and was critical to CEAT being able to conduct in-person classes in Fall 2020.

In addition, the CEAT Facilities Management staff researched equipment and processes that would keep classrooms safe, and ordered all needed COVID related protective supplies.

CEAT Outstanding Team Achievement Award

CEAT Incident Management

Congratulations to the CEAT Incident Management Team on receiving this Outstanding Team Achievement award in recognition of your efforts for the College of Engineering, Architecture and Technology during the COVID-19 pandemic.

This group was established to and responsible for creating and planning the operational procedures as well as the coordination and oversight of those procedures related to all aspects and all of the effects of the COVID-19 pandemic on CEAT.

CEAT Outstanding Team Achievement Award

CEAT IT

Congratulations to the CEAT IT staff on receiving this Outstanding Team Achievement award in recognition of your efforts for the College of Engineering, Architecture and Technology during the COVID-19 pandemic.

CEAT IT has provided outstanding and ongoing support for faculty, staff and students during this unprecedented time where technology has been incredibly important to course delivery.

INFORMATION TECHNOLOGY SERVICES
College of Engineering, Architecture and Technology

CEAT Outstanding Team Achievement Award

CEAT Online Learning

Congratulations to the CEAT Online Learning staff on receiving this Outstanding Team Achievement award in recognition of your efforts for the College of Engineering, Architecture and Technology during the COVID-19 pandemic.

When OSU made the decision to move courses online for the remainder of the Spring 2020 semester, CEAT Online Learning rose to the occasion and quickly developed strategies, training and support for a new online environment. When OSU returned to in-person courses in the Fall 2020 semester, CEAT Online played a major role in selecting and installing the equipment needed to livestream, record and post course content.

ONLINE LEARNING
College of Engineering, Architecture and Technology

CEAT Outstanding Team Achievement Award

CEAT North Campus Labs

Congratulations to the CEAT North Campus Labs staff on receiving this Outstanding Team Achievement award in recognition of your efforts for the College of Engineering, Architecture and Technology during the COVID-19 pandemic.

The CEAT North Campus Labs staff worked to design and fabricate a plexi-screen prototype system, which could be assembled quickly and efficiently, when the idea to add additional classroom capacity by using plexi-screens was adopted by OSU. When dealing with the plexi shortage, they used all of CEAT's contacts so that it could be obtained.