Fall 2018 Newsletter
**Graduate Degree Programs**
- Ph.D. in Fire and Emergency Management
- Master’s in Fire and Emergency Management
- Master’s in Fire Protection and Safety Engineering Technology

**Undergraduate Degree Programs**
- Bachelor’s in Construction Engineering Technology
- Bachelor’s in Electrical Engineering Technology
- Bachelor’s in Fire Protection and Safety Engineering Technology
- Bachelor’s in Mechanical Engineering Technology

For more details check our website [https://tech.okstate.edu](https://tech.okstate.edu) or contact us at

**Division of Engineering Technology**
College of Engineering Architecture and Technology
Oklahoma State University
570 Engineering North
Stillwater, OK 74078
Phone: 405-744-5638
Email: luann.bowman@okstate.edu
Message from the Division Head

The Division of Engineering Technology has persevered through numerous changes during the past three and a half years. After many years of semi-independent operation of the four programs, we began division-wide faculty and staff meetings in fall 2015 and increased cooperation among the programs in various ways, which led to a restructuring of the division. Staff members who used to work for separate programs now work together as a team to support the entire division. We moved to the fifth floor of Engineering North in May 2017. The faculty and staff enjoy the newly renovated space and the ease of interaction it facilitates, though the downsizing of office space required some adjustments. On July 1, 2018, we welcomed the Fire and Emergency Management Program, which moved from the College of Arts and Sciences into the College of Engineering, Architecture and Technology – specifically to the Division of Engineering Technology. The overarching goal is to continue enhancing the coordination and collaboration of the five programs.

From students’ point of view, probably the biggest change is the elevated academic standards. Both GENT 2323 Statics and GENT 3323 Strength of Materials have been becoming more rigorous during the last few semesters. Spring 2019 is the last semester GENT 2323 will be offered, and it will be replaced by ENSC 2113. The last offering of GENT 3323 will be in Fall 2019, and students will need to take ENSC 2143 beginning Spring 2020. The lowest-level math course counted for degree requirements will be MATH 2123/2144 Technical Calculus I or Calculus I, and future MET students will take calculus-based PHYS 2014 instead of algebra-based PHYS 1114. The more rigorous foundational courses will better prepare students to excel in their junior- and senior-level courses. EET and MET students will have a choice of pursuing a Mechatronics minor, which will significantly expand their career opportunities.

Industry Advisory Boards are crucial for us because serving the industry is a core value of Engineering Technology education. We appreciate the professionals who serve as Industry Board Members and provide invaluable advice and resources. In August 2018, representatives of our four IABs had a dialog with the college administration and also among themselves. Communication between the IABs will continue. Another important group we want to network with is Engineering Technology alumni. I hope this newsletter and the social media tools we are working on will help us get connected not only with our current students but also with future students, alumni, and industry partners.
Who is Who

Program Coordinators

Heather Yates, Ed.D., AC
Associate Professor and Program Coordinator
Construction Engineering Technology
517 Engineering North
405-744-8710
heather.yates@okstate.edu

Brian Norton, MS, PE
Associate Professor and Program Coordinator
Electrical Engineering Technology
557 Engineering North
405-744-7618
brian.norton@okstate.edu

Haley Murphy, Ph.D.
Assistant Professor and Program Coordinator
Fire and Emergency Management Program
570B Engineering North
405-744-9371
haley.c.murphy@okstate.edu

Virginia Charter, MS, PE
Assistant Professor and Program Coordinator
Fire Protection and Safety Engineering Technology
545 Engineering North
405-744-3237
virginia.charter@okstate.edu

Chulho Yang, Ph.D., PE
Professor and Program Coordinator
Mechanical Engineering Technology
570A Engineering North
405-744-3033
chulho.yang@okstate.edu
Division Highlights

We’ve Moved

Many alumni and employers have fond memories of Cordell South, others remember the taste of the water, and the men’s and women’s bathrooms being every other floor. Well, whether you have good or bad memories of Cordell South, they are just that, memories as the building has been demolished.

Last May we moved to our new home on the 5th Floor of Engineering North. The space is new and beautiful! All DET faculties are housed on the same floor. Please come see our new home when you are on campus.

Fire and Emergency Management Program Joins DET

The Fire and Emergency Management Program (FEMP), one of the oldest programs in the nation, is now in the Division of Engineering Technology. The FEMP program moved from the Department of Political Science to DET due to its existing strong relationship with the FPST program.

The program was established in 1996 as a Master of Arts specialization in Fire and Emergency Management within political science. In 1999, the degree changed to the Master of Science in Fire and Emergency Management Administration. The curriculum includes public policy, strategic administration and organizational management, human dimensions of disaster, leadership, and terrorism.

In 2009, the Doctor of Philosophy in Fire and Emergency Management was instituted. The Ph.D. degree is designed to produce proficient and active research scholars. It emphasizes preparing talented individuals for faculty careers at major research-oriented academic institutions, but also welcomes applicants whose career interests may lean to non-academic settings.

DET welcomes all FEMP faculty: Dr. Dave Neal (top right), Dr. Haley Murphy (center), Dr. Tristan Wu (bottom left), and Dr. Ray Chang (bottom right).
Division Highlights

**CMT is Now CET**

Construction Management Technology will now be known as Construction Engineering Technology. The shift comes as a result of changes in the ABET accreditation process and will allow the program to continue its accreditation through the Engineering Technology Accreditation Commission of ABET and still allow graduates to pursue their FE and PE licensures.

The decision to change the name of the program was not taken lightly, as many students, faculty, alumni and employers identify with the CMT acronym. However, after feedback from many constituencies was solicited, the overwhelming majority agreed that the new name better aligned with the engineering technology program requirements and sets us apart from other universities who offer more business related degrees. The current student body as a whole is excited and sees the name change as an upgrade. As the saying goes, “a rose by any other name smells just as sweet.”

**ABET Roundup**

DET was visited by a team from ABET on October 7-9, 2018 as part of the ongoing accreditation process for CET, EET, FPST, and MET academic degree programs. The ABET Team Chair and Program Evaluators met with the respective program coordinators, faculty, students, alumni, and IAB board members. A great deal of effort was put into preparation for the visit and the visit itself. This accreditation process will finalize next summer with a final report from ABET. Thank you for all who contributed to this important process!

**ENDEAVOR: The New Lab**

The new interdisciplinary lab building ENDEAVOR was inaugurated Sept. 22, 2018 and dedicated to the College of Engineering, Architecture and Technology. The 72,000-square-foot building boasts state-of-the-art technology in a largely glass environment with a design that provides an immersive learning experience inviting collaboration and cross pollination among disciplines.

The primary objective of ENDEAVOR is to expand instruction beyond the classroom and increase undergraduate laboratory and exploratory time for interdisciplinary, hands-on and industry-aligned learning. ENDEAVOR will transform the landscape of research, innovation and design, and is the only one of its kind in the United States.
Division Highlights

DET Interdisciplinary Senior Design

DET is heading towards interdisciplinary senior design courses. This fall, EET, MET and FPST students teamed up to build autonomous cars which can navigate at a fast speed around a course by avoiding obstacles on its way. The car can also shoot a projectile towards a target autonomously. This is the first large scale interdisciplinary project by the division. The FPST students are working to make the event safe. All teams will participate in SpeedFest 2019 which is an aerospace contest hosted by the School of Mechanical and Aerospace Engineering. One of the teams also plans to present their design at National Instrument’s NI Week 2019 in Austin, Texas. “We are expecting some exciting head to head racing,” said Dr. Aaron Alexander, instructor for MET senior design courses. For more information please visit the website http://speedfest.okstate.edu/.

New Minor in Mechatronics

Keeping pace with the recent technological development and industry 4.0, DET is gearing up to offer its new minor program in mechatronics. This is an initiative mandated by the plan of a graduate program in mechatronics. Both EET and MET students can opt for the minor. EET students need to complete 18 hours of mechatronics related course work whereas MET students need 21 hours. Two new courses, Fundamental of Mechatronics and Mechatronics System Design, are introduced to provide experience with modern industrial automation and control process. “I believe the minor program will improve the career profile of both EET and MET students,” said Dr. Young Chang, DET Head.

EOS Global Academia Program

The Mechanical Engineering Technology program has won a competition to teach the EOS Global Academia Program.

Out of the over 400 universities subscribed to the new EOS Global Academia Program, 10 were drawn at the Sintratec Kit lottery at Formnext 2017, an international exhibition and conference on the next generation of manufacturing and technologies. “It will be a breakthrough for OSU to be able to expose our students and entrepreneurial community to the Sintratec technology,” said Dr. Paul Tikalsky, CEAT Dean.
Division Highlights

Congratulations on Promotion and Tenure

DET congratulates MET and FPST faculty Dr. Chulho Yang (left), Dr. Aaron Alexander (second), Dr. Bryan Hoskins (third), and Dr. Hitesh Vora (right) for promotion and reappoint. Dr. Yang is promoted to Full Professor, Dr. Alexander and Dr. Hoskins are promoted to Associate Professor with tenure, and Dr. Vora is reappointed as an Assistant Professor.

Welcome New Faculty and Staff

DET welcomed three new faculty members in fall 2018.

Dr. Ilchung Park (left) will teach in the area of Heat Transfer and Thermodynamics. Dr. Jeeyeon Hahn (center) and Dr. Dhyaia Kafagy (right) are visiting Assistant Professors. They will strengthen the core area of MET curriculum in Machine Elements, Technical Drawing and Basic CAD, Thermodynamics, and Applied Fluid Mechanics.

DET welcomes Luann Bowman as the new administrative associate. Luann started working for Oklahoma State University in Oct. 2011. She lives in Stillwater and has been a loyal and true cowboy fan since 1975. Luann lives on a farm outside of town and enjoys hunting, fishing and being outdoors. Her family graduated from OSU and she is very excited that she will be following in their footsteps in December 2018. Luann worked for scholarships/financial aid for seven years and accepted this position in August 2018 working for the Division of Engineering Technology and is very excited to be a part of the team.
Division Highlights

DET welcomes Rebecca Anthony. She is the new academic advisor for undergraduate students. She joined the Division in June 2018. As DET’s senior academic advisor, Ms. Anthony comes to us with a rich background in educational leadership and school administration. Being a mother of three, she is an active member of the Stillwater community, and volunteers at numerous local and state wide charitable events. In her spare time, she enjoys watching OSU sports, traveling and spending time with her family and friends. Although Rebecca has lived many places across the U.S., she is so thankful to be back in Stillwater! She will always and forever be a Cowgirl at heart!

Faculty & Staff Spotlight

Awards and Honors

Dr. Chulho Yang was invited to give a keynote speech at the International Symposium on Precision Engineering and Sustainable Manufacturing (PRESM) 2018, Sapporo, Japan this past July. He spoke on adaptive stiffness material for use in soft-skeletal robotic systems, which was conducted in collaboration with DET head Dr. Young Chang.

Dr. Yang and his collaborators also received a "Best Poster Award" from the same conference. The poster was on his recent research results on “The influence of crowd velocity distribution and exit angle change for FIS effects on psychological discrete element method.”

Dr. Yang was also invited as a guest speaker at ASME-Central Oklahoma Section Professional Seminar Series. His talk was on the “Development of unique auxetic structures for improved performance in shock absorption and dissipation” at the Oklahoma Engineering Center, May 24, 2018.

MET faculty, Dr. Hitesh D. Vora, was appointed as the Director for the Oklahoma State University Industrial Assessment Center (IAC). IAC is funded by the U.S. Department of Energy (DOE) through the Office of Energy Efficiency and Renewable Energy via the Advanced Manufacturing Office. Since 1976, the IAC has helped American manufacturers save energy, reduce costs and increase productivity during an era of energy supply volatility and rising prices.

The mission of IAC is to provide its clients with industrial assessments that will help them reduce energy and waste, and increase productivity while educating and training the next generation of energy, waste and productivity professionals. For more details visit IAC’s website at https://iac.okstate.edu/ or email Dr. Vora at hitesh.vora@okstate.edu.
NAMING OPPORTUNITIES

Type of donor recognition display to be developed jointly between donor and OSU Foundation.

Donations intended as naming gifts can be made as pledges (5-yrs max). The total value of a gift includes any company match received during the pledge period.

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<tr>
<th>DIVISION</th>
<th>PROGRAM</th>
<th>TECHNOLOGY FLOOR</th>
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<td>$25 million</td>
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CONFERENCE ROOMS

Executive Conference Room | $100,000
Student Conference Room | $25,000
Student/Faculty Conference Room (2) | $40,000 each

ADMINISTRATIVE OFFICE SPACES

Graduate and TA Office | $40,000
Division Head Office | $30,000
Student Advising | $25,000
Open Administrative Office Space | $40,000

UTILITARIAN SPACES

Faculty Work Room | $30,000

COMMON AREAS

Faculty Commons | $25,000
Student Commons | $75,000
Visitor/Reception Area | $40,000

FACULTY OFFICES

Faculty Offices (32) | $15,000 each

HOW TO

- Go to tech.okstate.edu
- Click the GIVE button
- Complete the secure, online form.
- Include instructions regarding use of your gift in the “Comments” field.

FOR MORE INFORMATION:

Bryce Killingsworth, assistant director of development, at bkillingsworth@OSUgiving.com or 405.385.5623.
Faculty & Staff Spotlight

Awards and Honors

Dr. Tristan Wu received the Outstanding Emerging Scholar Award at the 60th Western Social Science Association Conference in San Antonio, Texas. He presented his ongoing research on earthquakes in Oklahoma. Congratulations Dr. Wu!

Dr. Rachel Mosier was acknowledged in 2018 by the Associated Schools of Construction for the Region 5 Teaching Award, which then made her eligible for the International Excellence in Teaching Award, which she also won. The award is based on teaching philosophy, her own investment in attending educator conferences, and improvements in the classroom. Classroom improvements include grants received for iPads and monitors for use at the Construction Lab. Congratulations Dr. Mosier!

Program News

Fundamentals of Engineering (FE) Exam Results

DET congratulates all students who passed the FE exam in Spring 2018. The pass rate is 40 percent (4/10) for EET, 20 percent (6/30) for MET and 100 percent (1/1) for FPST students. In an effort to further increase the FE success rate of DET students, the FE preparation program is now integrated with the capstone courses and is a mandatory requirement for all MET and EET students. The Division targets a combined success rate of 50 percent in the coming academic year.

CET ASC Region 5 Student Competition

The Construction Engineering Technology program is geared up to compete in the regional ASC student competition in February of 2019. They are hoping to build on the successes of the Parallel Design Build Team (pictured) that won the Southwest Region of the Design-Build Institute of America, and the Honorable Mention of the International ASC Student Competition Team (article below). The February competition is comprised of 16 member universities throughout Texas, Oklahoma, Arkansas and Louisiana. Oklahoma State will send four teams this year to compete in the Commercial Building, Heavy Civil, Design Build and International Design Build categories. The event is sponsored by TEXO and three member companies: Brasfield & Gorrie, The Beck Group, and Archer Western.
**CET Industry Week**

The Advisory Board for Construction Engineering Technology (CMAB) sponsors the Construction Industry Week (CIW) each fall. This year's dates were Oct. 29 - Nov. 2. During CIW, CMAB industry representatives come to Stillwater and present on projects, technology and other noteworthy topics that their company is currently working on. The goal is to give students a “real world” look at the construction industry. CIW has sessions geared toward third and fourth year students and focuses on project specifics. While other presentations are more geared for first and second year CET students to give them a feel for the different careers in the construction industry. Dinner is provided for the students on selected nights and CMAB members present a short after-dinner program on more global issues in construction. This year, we had the Oklahoma AGC and a panel of Women Construction graduates. On Thursday, Nov. 1, 2018 there was a networking event that allowed CMAB members and CET students to informally connect. For more information, please contact Dr. Heather Yates, program coordinator, CET.

**CET International Construction Competition**

Early in 2018, the OSU Construction Program made a commitment among the faculty to support a partnership with the University of Salford in Manchester, England. Two students, Sarah Sargent and Carson Lile, from the OSU CET program joined two students, Sam James and Jack Mitchell, from the University of Salford to form an international team. In November, the team competed in the Associated Schools of Construction Region 8 International Student Competition in Prague, Czech Republic. The competition was held at the Czech Technical University and sponsored by Swietelsky, Pannatoni, and Plan Grid. The students had seven hours to solve various challenges associated with building a new Czech-Austrian high school located in the valley of the Vltava River in the city district called Modrany in Prague. Students had to produce an estimate, schedule, and site layout, along with reviewing the contract and choosing to accept or decline the conditions. Also, specific issues arose with waterproofing below the water table and crane usage on a tight jobsite. The OSU-Salford Team received accolades on their review of the contract and ended up with Honorable Mention from the judges. The OSU-Salford team will come together again in February 2019 to compete in the Region 5 International Design Build Competition in Dallas, Texas.
Program News

**FPST Industry Networking Social**

On Sept. 17, 2018 the Fire Protection and Safety Engineering Technology students, in conjunction with the American Society of Safety Professionals and the Society for Fire Protection Engineers, held an industry networking social with prospective employers visiting Stillwater for the CEAT Career Fair. Nineteen employers and approximately 60 students gathered on the fifth floor of engineering north for a “speed networking” round robin.

Students were able to spend time with employers from companies such as Phillips 66, Lyondell Basell, RedLine Fire Protection, Jenson Hughes and Liberty Mutual Insurance, among others, to learn more about internship, and full-time opportunities in preparation for the Career Fair the following day. “This is the second year we have held this event which also showcases our fifth floor offices,” said assistant professor Virginia Charter, FPST Program Coordinator. “The students really enjoyed the time they spend with the employers, many of whom are alumni from our program. We continue to receive very positive feedback from our industry partners and prospective employers about this event.”

**Third 2018 NASTT South Central Trenchless Technology Conference**

On Sept. 25-26, the 2018 Oklahoma/Texas Trenchless Technology Conference provided opportunities to advance the science and practice of trenchless technology in Oklahoma and Texas by promoting and conducting training and education through seminars, short courses and filed demonstrations. Dr. Jonghoon Kim (Technical Program Chair), NASTT and OSU Professional Development worked together to set up this conference. There were 50 attendees including municipalities, engineers, contractors, educators and students in Oklahoma and Texas and 10 presentations which include the topics of HDD, CIPP, Pipe Bursting, RCP rehabilitation, etc. There were also six vendors, Hammerhead, Perma-Liner Industries, Ditch Witch/ Subsite, Tulsa Rig Iron, Akkerman and Underground Solution/InstiFuorm Technologies, that showed field demonstration and provided complimentary meals, snacks and coffee during the conference. Three scholarships were awarded to qualified undergraduate and graduate students to help them pursue career in trenchless technology. Tanner Fialkowski, junior in Construction Engineering Technology at OSU, was awarded a $1,500 scholarship at the conference.
Program News

International Conference on Mechatronics and Robotics

The first International Mechatronics Conference and Workshop will be held from Oct. 23-25, 2019 at the Wes Watkins Center, Oklahoma State University, Stillwater, Okla., USA. The conference and workshop is motivated by the demand for the next generation of a multi-disciplinary workforce.

The purpose of this conference is to bring together academic professionals and industry in mechatronics, robotics and other electromechanical/electrohydraulic disciplines to provide the participants an opportunity to stay updated with the incredible, dynamic growth in the field of mechatronics. Keynotes from academia and specialized industry professionals, technical sessions, and post-conference workshops are designed to benefit a wide range of participants including educators teaching mechatronics, robotics, dynamics, and control courses, graduate and undergraduate students seeking academic careers in mechatronics and robotics, and industry professionals desiring to shape the future workforce.

The conference will provide an excellent opportunity for the participants to develop relationships with peers from academia and industry, and network with product distributors and manufacturers. For more information, visit the website https://mech.ceatpd.okstate.edu/.

CET Alumni Meet

In 2018, the CET faculty met with alumni in Addison, Texas during their annual Associated Schools of Construction Region 5 faculty retreat. John Kim, Lantz Holtzhower and Mark Pruitt met with approximately ten alumni in attendance. This year an announcement was made through Facebook to invite a larger group of alumni to meet up for dinner with faculty.

CET IAB Meet

The Construction Management Advisory Board (CMAB) met on Sept. 27, 2018 at the OSU student union. The Construction Management Society (CMS) student group is seen here providing an update on the group’s activities. CMAB is instrumental in providing career opportunities for CET students. CMAB also sponsors the industry week event which is a yearly event and occurs in the fall semesters.
Student Activities

Construction Management Society Student Group

Construction Management Society (CMS) works all semester planning and coordinating monthly meetings for the Construction Engineering Technology student body. CMS kicked off the school year with a pizza party and info session. At the meeting, Officers introduced themselves, students mingled, and the program’s name change was discussed and how it would affect CMS going forward. October was busy as well. CMS invited a speaker who works in the industry to share his experiences and knowledge. CMS coordinated its first tailgate at the Oct. 6th football game versus Texas Tech. Manhattan Construction was kind enough to sponsor the tailgate and students, faculty and Manhattan employees had a blast. CMS Officers worked for two months planning for CET’s Industry Week. Industry Week is a weeklong event in which students are exposed to multiple different aspects of the construction industry. Students hear from more than 20 individual speakers, tour job sites around campus, and have the opportunity to attend an industry focused career fair. CMS will end fall semester with its final meeting, a Christmas party at Fuzzy’s.

New officers will begin their term in January and will quickly begin planning meetings for the Spring 2019 semester. As well as meeting planning, officers will also plan the annual golf tournament hosted in April. The golf tournament is CMS’ largest fundraiser and helps fund meeting dinners and Safety Spanish Curriculum for all CET graduating seniors.

EET IEEE-T Student Chapter

The Electrical Engineering Technology IEEE-T student chapter kicked off its first meeting of the fall semester on Sept. 4, 2018 with a pizza party. IEEE-T vice-president Sterling Qualkenbush introduced the officers and went over the schedule for future events for the semester. IEEE-T student body invited Andrea Haken from career services to help students prepare for the upcoming career fair. The student chapter is active in inviting representatives from local industries to share their experiences with the students. IEEE-T organized two talks and are planning to host an intra-year student competitions. In spring 2019, IEEE-T is planning a paintball game with the MET ASME student organization.
## DET Faculty and Staff

### Faculty

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<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Office</th>
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<tbody>
<tr>
<td>Imad Abouzahr, Ph.D., PE</td>
<td>Associate Professor, EET</td>
<td>FPSET</td>
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<tr>
<td>Rob Agnew, MS, CIH, CSP</td>
<td>Assistant Professor, FPSET</td>
<td>MET</td>
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<tr>
<td>Aaron Alexander, Ph.D.</td>
<td>Associate Professor, MET</td>
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<td>Ray Chang, Ph.D.</td>
<td>Assistant Professor, FEMP</td>
<td>Det</td>
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<td>Young Chang, Ph.D., PE, CFPS</td>
<td>Professor and Head, DET</td>
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<td>Virginia Charter, MS, PE</td>
<td>Assistant Professor, FPSET</td>
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<tr>
<td>Laura Emerson, MS</td>
<td>Teaching Associate, MET</td>
<td>FPSET</td>
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<tr>
<td>Lantz Holtzhower, Ph.D., CBC, LEED GA</td>
<td>Assistant Professor, CET</td>
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<tr>
<td>Bryan Hoskins, Ph.D., PE</td>
<td>Associate Professor, FPSET</td>
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<td>Jonghoon Kim, Ph.D.</td>
<td>Assistant Professor, CET</td>
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<tr>
<td>Ed Kirtley</td>
<td>Adjunct Assistant Professor and Assistant Dean, FPSET</td>
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<tr>
<td>Warren Lewis, MS</td>
<td>Associate Professor, MET</td>
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<tr>
<td>Floyd Luinstra, PE</td>
<td>Lab Manager and Adjunct Faculty, FPSET</td>
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<tr>
<td>Rachel Mosier, Ph.D., PE</td>
<td>Assistant Professor, CET</td>
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<td>Haley Murphy, Ph.D.</td>
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<td>Dave Neal, Ph.D.</td>
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<td>Brian Norton, MS, PE</td>
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<td>Ellis Nuckolls, MS, PE</td>
<td>Assistant Professor, EET</td>
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<td>Haejun Park, Ph.D.</td>
<td>Assistant Professor, FPSET</td>
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<td>Mark Pruitt, MS, M.Arch, RA, NCARB</td>
<td>Professor, CET</td>
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<td>Avimanyu Sahoo, Ph.D.</td>
<td>Assistant Professor, EET</td>
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<td>Leslie Stockel, MS, CSP</td>
<td>Clinical Assistant Professor, FPSET</td>
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<td>Hitesh Vora, Ph.D.</td>
<td>Assistant Professor, MET</td>
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<td>Qingsheng Wang, Ph.D., PE, CSP</td>
<td>Dale F. Janes Endowed Professor, Associate Professor, FPSET</td>
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<td>Tristan Wu, Ph.D.</td>
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# DET Faculty and Staff

## Staff

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Rebecca Anthony</td>
<td>Senior Academic Advisor</td>
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<tr>
<td>Curtis Bolin</td>
<td>IT Specialist</td>
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<tr>
<td>Luann Bowman</td>
<td>Administrative Associate</td>
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<tr>
<td>Linda Brewer</td>
<td>Administrative Support Specialist</td>
</tr>
<tr>
<td>Sharon Robinson</td>
<td>Administrative Support Specialist</td>
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***EET – Electrical Engineering Technology  
MET- Mechanical Engineering Technology  
CET- Construction Engineering Technology  
FPSET – Fire Protection and Safety Engineering Technology  
FEMP – Fire and Emergency Management Program

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## Follow Us on Social Media

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Oklahoma State University School of Fire Protection and Safety  
Oklahoma State University-Construction Management Technology  
Oklahoma State University MET Graduates
General Information

- Unique degree program covering both fire & explosion protection
- Natural extension of the current fire protection and safety undergraduate program
- Designed towards both new graduates and working professionals
- Offered either online as a distance education student or as a resident on campus
- Both thesis and non-thesis options are available

Financial Support

The program enjoys strong support from alumni, friends and industry. Numerous research projects are carried out with the support from industry and federal grants. Financial support is available through graduate teaching or research assistantships. Students from outside of Oklahoma supported by assistantship will receive an out-of-state tuition-waiver.

Admission Requirement

Graduate student applicants must have a B.S. in engineering or engineering technology from an ABET accredited (or equivalent) program or a related science program. International applicants must submit results of the TOEFL (minimum 79) or the IELTS (minimum 6.5) examination.

Application Deadlines

- Fall semester, May 15
- Spring semester, October 15
- Summer semester, February 15

Required Documents

- Official online OSU Graduate College Application
- Official transcripts from all institutions
- Statement of purpose or biographical statement
- Three professional letters of recommendation
- Current resume or curriculum vitae

Contact

Virginia Charter, MS, PE
Assistant Professor and Program Coordinator
Fire Protection and Safety Engineering Technology
545 Engineering North
405-744-3237
virginia.charter@okstate.edu

Core Courses

- FSEP 5013 Research Methods
- FSEP 5023 or IEM 5603 Project Management
- FSEP 5033 Risk Analysis
- FSEP 5113 Fire and Explosion Hazard Recognition
- FSEP 5133 Principles of Industrial and Process Safety
- FSEP 5143 Structural Design for Fire and Life Safety
Division of Engineering Technology

College of Engineering Architecture and Technology
Oklahoma State University
570 Engineering North
Stillwater, OK 74078
Phone: 405-744-5638
Email: luann.bowman@okstate.edu