

OKLAHOMA ENGINEERING CONFERENCE

JUNE 18-19, 2020

VIRTUAL EVENT

MEET OUR SPEAKERS

ASHLEY ALLINDER, P.E. is the Deputy Chief, Engineering and Construction (E&C) Division, Tulsa District, U.S. Army Corps of Engineers. Tulsa District is a full service district that owns and operates 38 dams and services 6 military installations and one Department of Energy plant. Ashley has over 20 years of experience with the Army Corps of Engineers and United States Air Force. Ashley is an active member of the Society of American Military Engineers, Tulsa Post. Ashley has a Bachelor's degree in Environmental Engineering from The University of Oklahoma and a Master's Degree in Business Administration from The Citadel. Ashley is a registered professional engineer.



DR. TIM BOWSER, P.E. is a registered, professional engineer with over thirty-five years of experience in food processing. He is a Professor of Food Process Engineering at the Oklahoma State University. His responsibilities include: technical assistance to entrepreneurs and food processors; research and development of food processing equipment and techniques; and the establishment of outreach programs in food engineering. His industrial experience includes positions at the Gerber Products Company (baby food) and Lockwood Greene Engineers (consulting), and co-owner of PetMech, LLC (pet food/product development and testing). He holds a Ph.D. in Agricultural Engineering from The University of Tennessee, and M.S. and B.S. degrees in Agricultural Engineering from Penn State.



GERALD P. BRUNKER, CPCU, ARM is Principal, RISKPRO Insurance Agency, LLC, Dallas, Texas where he has served since 1991. He is a graduate of the University of Wisconsin, Graduate School of Business, B.B.A and Master of Science with major concentration in the area of Risk Management and Insurance and Personnel Management and Industrial Relations. He is recognized by the Insurance Institute of America as an Associate in Risk Management. In addition, he has performed risk management consulting engagements for many industries and articles that have appeared in publications including



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Financial Executive, Risk Management Journal, Business Insurance, Southern Hospitals, The Practical Banker, Offshore and Compensational Review.

STEPHANIE BUCKINGHAM is part of Freese and Nichols' Organizational Development team. She is responsible for designing and delivering training for Freese and Nichols employees, clients and community members in the areas where they serve. Her training focuses on Communication, Presentation Skills, Personality Styles, Emotional Intelligence, and Ethics. Stephanie is a VitalSmarts certified Crucial Conversations and Crucial Accountability trainer. She also serves on the Association for Talent Development's (ATD) Program Advisory Council for their annual conference.



DARIAN L. BUTLER, P.E. is the Director of Engineering for the Oklahoma Turnpike Authority, working at the headquarters in Oklahoma City for the past 12 years. In his service to the Authority, he has held positions such as Pre-Construction Engineer, Construction Engineer, and Project Engineer. Prior to this, he worked for the Oklahoma Department of Transportation for 6 years, after completing the EIT program he worked permanently in the Bridge Division through 2007.

While in college, Darian worked for a private consulting firm and participated in multiple ODOT summer internships. This exposure to both state transportation agencies along with private consulting gives him a unique perspective in Oklahoma's Transportation Industry. Darian earned his Bachelor of Science in Civil Engineering from The University of Oklahoma and is a Registered Professional Engineer.

Micah Callough is the Technology Director for AEC sector based at Esri in Denver, Colorado. He has a background in technology delivery based on his long career in the Architecture, Environment and Construction (AEC) space. For the last eighteen years he has worked for a leading AEC firm across their Water, Infrastructure, Environment, Buildings and Global Digital Solutions (IT) business lines. Throughout this period, he has served as a GIS professional, a management consultant, project manager, a department manager, a technical leader, a technical sales leader, product manager, scrum master and a global IT director. His passion is transforming businesses using technology as a catalyst. When he is not at work, he is probably driving his van to his next outdoor adventure.



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GREG CONDER, P.E. is the owner of Conder Business Solutions LLC, a business consulting firm offering creative solutions that make sense. He holds a B.S. degree in Industrial Engineering and Management from Oklahoma State University. Greg has over 30 years of experience in product, service and business development.



He and his wife live in the Tulsa area. They have 3 daughters that are grown AND have moved out of the house. Greg enjoys outdoor activities like working in the yard, jogging and hiking.

MICHAEL COUCH GISP, CFM serves as the Department Manager for the GIS Division of Meshek and Associates. He is a GISCI certified GIS Professional (GISP) and a Certified Floodplain Manager (CFM) in the state of Oklahoma. His experience in GIS covers the full gamut of GIS development including field collection, data conversion and analysis, and online map data portals. He has contributed to the hazard mitigation plan for the City of Tulsa, performed FEMA benefit cost analyses for the City of Kingfisher, and performed impervious area stormwater fee analyses for several cities in Oklahoma. In 2019 he served as the GIS lead for Meshek's assistance to the City of Tulsa and other entities in the May 2019 flood event.

JORGE DELUCCA has been working for OSHA for 16 years, as a bilingual (Spanish)



Industrial Hygienist at the OSHA Dallas Area Office and currently at the Oklahoma City Area Office where he is the Compliance Assistance Specialist and Voluntary Protection Program Coordinator. He did a 20-year career in the US Air Force, most of it as a Bioenvironmental Engineer. After he retired, he worked as Environmental, Safety and Health Engineer in private industry. He was an adjunct instructor of Environmental Science and Ethics at the University of Phoenix, Oklahoma City Campus before he joined OSHA. He has a Bachelor's degree in

Chemical Engineering from the University of Puerto Rico, a Master of Science in Environmental Management from the University of Oklahoma and a Master of Arts in Business Administration from Webster University. He is the author of the book *A Few Great Scientists: From Alfred Nobel to Carl Sagan*.

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JOE ECHELLE, P.E. is the Assistant Executive Director for Maintenance, Engineering, and Construction of the Oklahoma Turnpike Authority. He began his career with the Oklahoma Department of Transportation as an engineer in training in 2001 then a draftsman, a construction surveyor, the Resident Engineer in Stillwater and subsequently advanced to be the Construction Engineer for ODOT's Division 4. He was instrumental in the construction of the Interstate 40 Crosstown project in Oklahoma City along with the deconstruction and bridge beam recycling project of the old crosstown expressway bridge. In 2016 Echelle began work at the Oklahoma Turnpike Authority as the Director of Construction to manage the Turnpike Authority's annual capital improvement construction projects and the Driving Forward Turnpike Improvement Program.



Echelle earned a bachelor's degree in Civil Engineering from Oklahoma State University in 2005 and is a registered Professional Engineer. In 2010 he completed his graduate degree at OSU and received a Master of Business Administration. He has received several awards for highway construction and design from the American Concrete Paving Association and the Asphalt Paving Association. He is a member of the Governors Highway Construction Materials Technician Certification Board, the International Bridge, Tunnel and Turnpike Association as well as an adjunct faculty member at Oklahoma State University teaching surveying to Civil Engineering and Construction Management majors. He resides in Stroud, Oklahoma with his wife Lacey, son Grant, and daughter Taryn.

TIM GATZ was appointed Secretary of Transportation by Gov. Kevin Stitt in early 2019 and the Oklahoma Transportation Commission named him Oklahoma Department of Transportation Executive Director, effective April 1, 2019.



Prior to that appointment, Gatz was named the Executive Director of the Oklahoma Turnpike Authority in 2016 and previously served more than two decades at the Oklahoma Department of Transportation. Gatz started his career at ODOT as a Drafting Technician in 1990. Then in 1992, he became the Enhancements Program Coordinator and moved up to Special Projects Manager in 1997. In 2000, he became Division Manager of the Project Management Division where he was instrumental in the development of ODOT's Eight-year Construction Work Plan.

Gatz was promoted to the Senior Staff position of Director of Capital Programs and Information Management in 2006 and led the department's coordination with county governments to develop and deliver the County Improvements for Roads and Bridges

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Program which provides dedicated funds for high-priority county transportation projects statewide. He served as Deputy Director from 2013 until his appointment to OTA in 2016.

Gatz earned a bachelor's degree in landscape architecture from Oklahoma State University in 1989 and is a registered professional landscape architect. He has received several honors including the Oklahoma Good Roads & Transportation Association's Bill Skeith Stewardship Award, the Governor's Public Service Award and the Federal Highway Administration's Partners In Quality Award. He is a member of the American Association of State Highway and Transportation Officials, the International Bridge, Tunnel and Turnpike Association and the American Society of Landscape Architects.

ADRIANNE COVINGTON GRAHAM specializes in community engagement, advocacy, program development, strategic planning, and program implementation in her role as the Executive Director of the Oklahoma Engineering Foundation (OEF). Adrienne is a graduate of the University of Oklahoma where she earned a BA in Administrative Leadership and a Master's of Human Relations with an emphasis in Organizational Development. Additionally, Adrienne holds professional certifications in Organizational Training & Development, Leadership Management, and is a graduate of Leadership Oklahoma City, Class 33.

PAUL GREEN, P.E. is an FNI Principal and Senior Transportation Engineer and Project Manager in the Freese and Nichols Oklahoma City office. He has 36+ years of experience and has been with Freese and Nichols for 3 years. Paul has a Bachelor of Science Degree in Civil Engineering from Oklahoma State University. He was with the Oklahoma Department of Transportation for 33 years retiring as Director of Operations. He is the President of OSPE and serves on the OSU Civil/Environmental Advisory Board, as well as the ODOT Memorial Foundation Board. He is a well-respected and trusted leader within Freese and Nichols and the Oklahoma t



KATHY HART is the Executive director of the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors. She began working for the Board in 1990, and in 1994 was named its Executive Director. Kathy is a graduate of Oklahoma State University in Business Administration. For the past 20 years, Kathy has also been active nationally, serving on numerous national committees within NCEES.



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MANDY JOHNSTON, P.E. is currently the Director of Engineering & Site Operations at the Phillips 66 Research Center in Bartlesville, Oklahoma. Prior to assuming this role in 2018, she held a number of positions that include chemical plant operations, plant commissioning and start-up, research program coordination, operational management, project controls, and conceptual engineering for Phillips Chemical Company, Conoco, ConocoPhillips, and now Phillips 66.



Mandy received a Bachelor of Science degree in Chemical Engineering from Oklahoma State University in 1997 then obtained her Professional Engineer license in the State of Oklahoma in 2003. She has served on the Board of Trustees for Oklahoma Engineering Foundation, is a member of the Bartlesville Chapter of American Institute of Chemical Engineers, volunteers for National Chemistry Week through the Northern Oklahoma Chapter of American Chemical Society, and serves as an Elder on the Session of her church. She lives in Bartlesville, Oklahoma with her husband and two children, ages 9 and 6.

DR. TYLER LEY has more than 20 years of experience in the fields of structural and concrete materials engineering. During this time he has worked as an engineer with a design consultant, construction contractor, government agency, and as a professor. This practical experience has made him a better teacher and researcher.



He is very active in the American Concrete Institute where he is a voting member of the Concrete Durability, Material Science, Concrete Proportioning, and Sustainability Technical committees. In addition, he serves on the executive committee of the National Concrete Consortium, a group made up of DOT engineers from 35 different states. He also served as the president of the American Ceramics Society Cements Division in 2016. He has a passion for creating innovative learning content. His websites are visited by over 50,000 people per year and his education content on YouTube has been watched over 2.5 million times.”

NICOLE MCGAVOCK is a meteorologist and the Service Hydrologist for the National



Weather Service Forecast Office in Tulsa, which serves eastern Oklahoma and northwest Arkansas. Nicole is responsible for leading the hydrologic functions of the Tulsa Weather Forecast Office, which includes mitigating loss of life and property damages caused by floods and drought, conducting the necessary preparation activities for provision and timely use of accurate forecasts and warnings, and making hydrometeorological data and information available for use by emergency management and water resource offices, NWS River Forecast Centers, and private sector hydrologists.

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CHARLES PENLAND, P.E. is a Senior Principal and the Director of Civil Engineering Services for Walter P Moore overseeing civil engineering and water resources engineering for the 700+ person international firm. A graduate of Colorado State University, Mr. Penland is a registered Professional Engineer in Texas and Illinois. As an adjunct professor at Rice University, Mr. Penland is the instructor for the Civil Engineering and Environmental Engineering Department's senior design class. He has been involved with the SSPEED Center at Rice University since 2009 looking into providing protection from Hurricanes for the Galveston Bay area.



BRUCE A. PITTS, P.L.S. is a licensed land surveyor and is presently serving as Director of Enforcement for the State Board of Licensure for Professional Engineers and Land Surveyors. Prior to his present engagement with the State, Mr. Pitts practiced land surveying and land subdivision design with emphasis on land title surveys and boundary analysis and boundary dispute resolution since 1976. He received his B.S. degree in Engineering Technology from Oklahoma State University. He was on the land surveying faculty of OSU-OKC for over 30 years. Mr. Pitts is a past president of the Oklahoma Society of Land Surveyors, and an associate member of the Oklahoma Land Title Association. He is an emeritus member of the State Board of Licensure for Professional Engineers and Land Surveyors and the National Council of Examiners for Engineering and Surveying (NCEES). He has served on the NCEES Law Enforcement Committee and Mobility Task Force.



PAT RESTREPO is an Account Executive for the AEC sector based at Esri in Denver, Colorado. Pat has experience working with a large variety of AEC firms across the United States to help realize the value of technology for their business. Pat has worked with many engineering firms to adopt new technology and drive digital initiatives having spent the past 4 years working at Bentley Systems, including a couple years covering Oklahoma AEC commercial accounts. Pat is an avid Philadelphia sports fan who enjoys getting out into the Rocky Mountains as often as possible with his 1.5 year old Australian Shepherd, Finn.



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BRIAN TAYLOR, P.E. was named Chief Engineer of ODOT in March 2019. Taylor oversees all statewide engineering and operations activities. Taylor has 28 years of experience at ODOT and began his career in Southeastern Oklahoma's Division Two Antlers Residency in 1990. He moved up to Associate Engineer before becoming Division Two Traffic Engineer in 1996. From 2008 to 2013, Taylor served as Division Maintenance Engineer, which included oversight of nine southeastern Oklahoma counties. From 2013 to 2019, Taylor served as the Division Four Engineer. As the Division Engineer in the central region, he oversaw construction and maintenance of Logan, Payne, Kingfisher, Oklahoma, Canadian, Garfield, Noble, Grant and Kay counties which also includes the Oklahoma City metro. Taylor supervised the I-235/Off-Broadway project during this period along with several other accomplished projects.



CARA COWAN WATTS, PH.D. oversees drilling services which generally includes turn-key installation of slurry, cased, and other vertical piers for new foundations on bridges, substations, transmission lines, large residential homes, commercial and industrial buildings, plus tie backs, micropiles and other drilled holes. She manages a team of approximately 20 full-time and part-time employees as well as a fleet of commercial trucks and drill rigs, estimates and bids contracts, business development and strategy, controls job costs, monitors safety standards, oversees legal and accounting operations and human resources needs for their privately-owned small business. Tulsa Pier Drilling was created more than 20 years ago by Cara's husband, Doug Watts.



DR. DAVID WILLIAMS is Chief, Hydrology and Hydraulics Engineering Section, U.S. Army Corps of Engineers (USACE Tulsa District), where he oversees real-time flood forecasting, hydrologic and hydraulic studies, and floodplain management services. He has worked for USACE since 2007. Dr. Williams holds his undergraduate degree from the University of Tulsa and has completed graduate degrees at the University of Oklahoma and Oklahoma State University. In addition to his full-time position with USACE, he is an Adjunct Professor at Oklahoma State University. Dr. Williams is in his second term as a member (and immediate past chair) of the City of Tulsa Stormwater Drainage and Hazard Mitigation Advisory Board, and is a Diplomate Water Resources Engineer as designated by the American Academy of Water Resources Engineers.

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RICHARD WILLOUGHBY, P.E., F.NSPE IS A SENIOR DESIGN ENGINEER IN THE



Trencher and CUE Design Group at Ditch Witch. He is responsible for designing and developing a host of ground engaging attachments for ride-on trenchers and mini skid steer equipment. In addition to his duties at Ditch Witch, Richard serves as the Vice President of Education for the Oklahoma Society of Professional Engineers (OSPE). He also serves on committees for the National Society of Professional Engineers (NSPE) and the American Society of

Agricultural and Biological Engineers (ASABE). Richard is also active in the community by serving as a Cub Scout Den Leader and on the board of the Guthrie Little League Association. He resides in Guthrie with his wife Shellie and his son Andrew.

JAYMEE ZABIENSKI is a graduate student at Oklahoma State University



seeking a master's degree in Biosystems & Agricultural Engineering with emphasis in Food Processing Engineering studying under Dr. Bowser. She worked at QuikTrip Corporation for seven years throughout high school and began a position in quality control at the QTKitchens Tulsa facility upon graduating with a B.S. in Food Science from OSU in 2007. From there, Jaymee worked as a Sanitarian for the Tulsa Health Department performing inspections in restaurants and food processing establishments and teaching food handling and safety

classes for two years. In 2011, she began working in the quality control lab with the American Red Cross manufacturing platelet products and executing process and quality control systems for the various blood products manufactured in the Tulsa facility. During her tenure with the Red Cross, Jaymee was dispatched to labs in Portland, Atlanta and St. Louis to improve the processes, work flow, and efficiency rates within each. While working in the lab, she returned to school in January of 2017 to pursue a degree in engineering. After an additional 36 hours of undergraduate math and physics courses, she was able to begin the master's degree program with Dr. Bowser in Stillwater in January of 2019. Since beginning the program, Jaymee had the opportunity to work with USAID on a project in Jamaica consulting with local food processors on standards and requirements needed to export manufactured goods to the United States and other countries. She received a research assistantship to work with KiZE Concepts, Inc, a company specializing in manufacturing healthy energy bars without preservatives. During her time there, she has built a food safety program to become certified under two different auditing schemes, maintained and repaired food processing equipment, worked with research and development of new and existing products, as well as helped in building equipment for shelf life studies.