

IMPACT

The official magazine of the College of Engineering, Architecture and Technology

Featured article:
EDWARD SHREVE

2019



Hall of Fame and Lohmann

Brian Price

Brian Price grew up in Duncan, Oklahoma, and attended OSU's College of Engineering, Architecture and Technology, where he received his bachelor's and master's degrees in chemical engineering.

Price began his industrial career with ARCO Oil &

Gas, working his way up in process and gas plant engineering to become manager of process engineering and manager of projects. During his time at ARCO, Price was responsible for the design and operation of a pilot plant to develop a new carbon dioxide separation technique using cryogenic fractionation, which was subsequently applied in numerous installations. He was also involved in the design of many cryogenic facilities such as the first nitrogen rejection unit project designed to handle variable composition gas, one of the largest separation units for N₂ injection, and numerous natural gas liquids (NGL) recovery units. After moving to manager of projects, Price was involved in onshore and offshore oil and gas development. His projects included the installation of a cryogenic NGL recovering unit on an offshore platform and the first tripod drilling and production platform in water more than 50 feet deep.

Price joined Black & Veatch in 1991 as technology manager for gas processing and NGL recovery and later became liquid natural gas (LNG) technology manager. He developed and patented PRICO® LNG production technology for Black & Veatch, which became the basis of a business unit focused in this area. While vice president of LNG, he oversaw the development of more than 30 LNG plants using the patented technology. These plants included 21 plants in China, which can produce over 9 million gallons per day of clean LNG fuel for vehicles and industry applications. The most recent new application of the PRICO® technology is for floating liquefied natural gas (FLNG). Two recent projects included the world's first LNG production barge and the first successful project to add LNG production onto an existing LNG tanker. These projects are the first of dozens of FLNG systems.

Price has 43 years of industry experience, has worked on more than 40 NGL and LNG projects, is a holder of five U.S. patents and five international patents and has authored 65 technical papers. He has served on the editorial review board of the Gas Processors Association for the past 30 years and as the chair member of the editorial review board for the past 20 years. He serves as editor of three sections of the Gas Processors Suppliers Association Engineering Data Book, volunteering his time and efforts to ensure that engineers have the most up-to-date and accurate information about the measurement, storage and refrigeration, and processing of gases.

For his work, Price has received numerous awards including the Lifetime Achievement Award from the Gas Processors Association in 2016. The Lifetime Achievement Award recognizes individuals whose exceptional career efforts and achievements have provided lasting benefits to the Gas Processors Association Midstream and the midstream industry.

Edward Shreve

Edward Shreve was born and raised in Oklahoma City. Shreve joined the United States Navy in 1953, serving as an electronics technician. While in the Navy, he found that he had a strong interest and aptitude for electronics. This led to his decision to pursue a degree in electrical engineering.

After his military service, Shreve earned his bachelor's degree from the University of Oklahoma and his master's degree from New Mexico State University. Shreve decided to return to his home state to pursue his doctorate in electrical engineering from Oklahoma State University. After graduation, he accepted a senior engineering position for Control Data Corporation in Bloomington, Minnesota. Soon realizing how much he truly loved Oklahoma, Shreve decided to return home where he accepted a faculty position at OSU as an associate professor in the College of Engineering, Architecture and Technology.

During his tenure as a professor, Shreve noticed that a large number of engineering graduates would leave Oklahoma for employment opportunities in other states. This inspired him to create a model for a Stillwater-based engineering business that would provide OSU engineering graduates opportunities for challenging and rewarding careers in Oklahoma. Working with his friend and colleague Lloyd Salsman and his wife, Peggy Shreve, he co-founded Frontier Engineering Inc. in October 1973.

Known today as Frontier Electronics Systems Corporation, the company is a thriving engineering business that designs and manufactures world-class electronic products for the aerospace and defense industries.

Shreve served on various OSU industry advisory boards, including serving as the chairman of OSU's Laser Development and Applications Center Advisory Board. He served three-plus Oklahoma governor-appointed terms on the Oklahoma Science, Technology, Research and Development Board, which is the governing board for the Oklahoma Center for the Advancement of Science and Technology. He authored nine comprehensive technical publications and directly contributed to the development of four patents. Working with OSU, Stillwater city government and CareerTech as a member of the Oklahoma Technology and Research Park board of directors, Shreve was directly involved in developing a research park where collaboration between industry and university researchers is the basis of the park's identity.

Hall of Fame

Ali Fazel

Ali Fazel grew up in Tehran, Iran, and earned his bachelor's degree in biological science and geology from Arak College of Science in 1974. After receiving his bachelor's degree, Fazel moved to the United States and earned his master's degree in environmental engineering from

the University of Oklahoma and his doctorate in environmental engineering from Oklahoma State University.

Fazel established Accurate Inc. Environmental and Laboratory Services in December 1990 in Stillwater, Oklahoma, as a water and wastewater process consulting company that contained a small lab. Soon, Accurate Inc. became the largest nationally certified environmental laboratory in the region and three Oklahoma locations were established in Stillwater, Oklahoma City and Tulsa. In the fall of 1998, Fazel added a training division to his company called Accurate Training Center, which serves as a hands-on training school for water and wastewater operators in Oklahoma, Kansas and Arkansas. Accurate Training Center has locations in Stillwater and Tulsa and provides training to nearly 600 water and wastewater operators per year and employs 60 individuals.

Accurate Inc. is made up of five divisions that include lab work, engineering, training, field services and laboratory supply sales and service. One of the unique programs offered by Accurate through its laboratory supply sales and service division is called Environmental Insurance, which is offered to municipalities as a retainer-based service to use for their environmental needs, laboratory requirements, water and wastewater systems troubleshooting, chemical needs, sampling requirements or for any regulatory requirements.

As president and director of Accurate, Fazel uses his experience in environmental chemistry, analytical methodology and quality control in conducting and supervising water, wastewater and hazardous waste analytical testing procedures. He has helped develop analytical testing programs that have involved the testing procedures and methodologies for analysis and evaluation of priority pollutants, extraction procedure toxicity, effluent toxicity and national pollutant discharge elimination system monitoring.

With his leadership, Accurate has received many awards, including the Oklahoma Venture Forum and Private Enterprise Award in 1993 for Outstanding Contribution to Oklahoma's Economic Growth, Productivity and Innovation and an award for Outstanding Service to the State of Oklahoma in 2003 from the Department of Environmental Quality Laboratory Services Council.