

ISPE-CaSA 2023 Life Sciences Technology Show February 28
Education Session 1: 11:15 a.m. – 12:00 p.m.
Raleigh Convention Center: Room 306 ABC

Presentation: Ozone: The Sustainable Sanitization Solution – Panel Discussion

Speakers: **Robert Holland**, Senior Specialist – Clean Utilities, Novo Nordisk; **Travis Floyd**, Metrology Specialist, Novo Nordisk; **Patrick Archer**, President & CTO, BWT Pharma and Biotech



Robert Holland has been working in the pharmaceutical industry for 13 years. Prior to that, he served in the US Navy for 9 years as a nuclear propulsion plant supervisor, and nuclear power instructor. His pharmaceutical industry experience began in 2010 with a commissioning and validation company. There, he gained experience with working on numerous projects and learning about lots of different types of systems and programs within the pharmaceutical industry. He took a position as a process engineer with a local pharmaceutical company in 2016 to be the work package owner for clean utility systems on a large green field project. He was responsible for the design, start-up, validation, and transition from project to routine operation of the clean utility systems on this greenfield project. He is currently serving as the senior engineering specialist for the facilities department and working with sites worldwide within his company to implement Ozone Sanitization.



Travis Floyd has had a successful career in the pharmaceutical industry, starting as a Metrology Technician in a greenfield API facility in 2018 and becoming a Metrology Specialist in 2021. Prior to joining the pharmaceutical industry, he served a 4-year enlistment in the US Navy as a Machinist Mate. In his current role, he has played a crucial role in the implementation and management of the metrology program, and has also been responsible for writing SOPs, deviations, and calibration methods. He has consistently demonstrated his expertise in the field of metrology and calibrations and has been instrumental in helping other sites adopt effective procedures.



Patrick Archer has worked on clean utilities in the pharmaceutical industry for the last 25 years. His journey with process engineering for clean utility systems started in 1997 shortly after graduating from college he began his career with a water treatment company in Ireland which later became BWT Pharma & Biotech. As the lead engineer he designed numerous Purified Water and Water for Injection projects that incorporated ozone technology in Ireland, Europe and Singapore. In 2014 his career transitioned to the United States where he currently leads operations for BWT Pharma & Biotech in North America.