2018 EXPO TECHNICAL PRESENTATIONS

Technical presentations are approximately 20 minutes and will take place in multiple locations in the Bruce M. Pitman Center between 9 a.m. and 12 noon. (Chief’s Room, Vandal Ballroom, Silver Room, Gold Room and Cataldo Room).

Gold Room
(2nd floor - Bruce M. Pitman Center)

- 9:00 am Application for Speech Visualization
- 9:20 am Modeling and Measurement of Permittivity for Near Space Communications
- 9:40 am Advanced Communications System for Suborbital Flight
- 10:00 am TATER (Tamper Analysis via Transient Electromagnetic Responses)
- 10:20 am Break
- 10:40 am Mitigating Cyberattacks Caused by Fast Acting Hardware
- 11:00 am Solar Powered Flywheel Energy Storage System
- 11:20 am Voltage Source Converter Fault Protection
- 11:40 am Non-Wire Solutions to Traditional Power Grid Upgrades

Silver Room
(2nd floor - Bruce M. Pitman Center)

- 9:00 am Boeing Sidewall Lighting Installation
- 9:20 am Coffee Roaster Filtration System
- 9:40 am SEL Thermal Card Guide
- 10:00 am An Aerodynamic Study of Bulk Commodity Trailers
- 10:20 am Break
- 10:40 am Combat Food Insecurity
- 11:00 am Portable Biodiesel
- 11:20 am UL Steam Plant Combustion Instrumentation
- 11:40 am Two-Stroke Exhaust Design
- 12:00 am Clean Snowmobile Challenge

Vandal Room South
(2nd floor - Bruce M. Pitman Center)

- 9:00 am Discover Bot: Discovery Center Telerobotics Exhibit
- 9:20 am RoboCodo: Post-Surgical Elbow Rehabilitation Device
- 9:40 am Project A.R.M.: Assistive Rehabilitation Monitor
- 10:00 am Aerogel Insulation Study
- 10:20 am Break
- 10:40 am Wireless Tower of Lights
- 11:00 pm Personality Analysis Using Machine Learning
- 11:20 am Sightless Navigation and Perception (S.N.A.P)
- 11:40 am Project VERITAS
- 12:00 pm Virtual Control System Network

Chiefs Room
(2nd floor - Bruce M. Pitman Center)

- 9:00 am Inconel Tubing Pre-Pullout Grinding and Visual Test System
- 9:20 am INL Grinder Water Filtration System
- 9:40 am Wireless Forklift Height Encoder
- 10:00 am Compact Robotic Wheel Drive
- 10:20 am Break
- 10:40 am VandalForge Metal Additive Manufacturing Hardware
- 11:00 am VandalForge Printer Software
- 1:20 am Combined Biochar, Heat, and Power System
- 11:40 am Team Crumbletech’s Temperature Array
- 12:00 pm Photo-bioreactor for Microalgae Cultivation.

Cataldo Room
(Basement level - Bruce M. Pitman Center)

- 9:00 am 99.9 Percent High Purity Nitrogen Generator
- 9:20 am Increasing Polystyrene Recycling with Small Scale Depolymerization Reactors
- 9:40 am Copper Recovery from Spent Hoof bath Solutions
- 10:00 am Production of Liquid Filled Polymer Microspheres
- 10:20 am Break
- 10:40 am Gypsum Sulfate Removal from Mine-Impacted Waters
- 11:00 am Using NIR Spectroscopy to Control Coffee Roasts
- 11:20 am LABRAT, Lead Acid Battery Research And Testing
- 11:40 am Bench Top to Industry: Ultra-High Temperature (UHT) Starch Pasteurization Unit