



2019 Operations & Process Technology Summit  
October 14-16, 2019  
San Antonio, TX

OPCAT (Operational Planning, Control & Automation Technologies)

**Monday, October 14**

**OPERATIONAL EXCELLENCE**

9:00 am – 10:00 am

**The Automation of Operating Discipline with State-Based Control**

Emerson Automated Solutions

**State-Based Control of a Vinyl Acetate Monomer Production Process Procedure**

The Dow Chemical Company

This session will present the implementation of a state-based control interpretation of procedure automation within a vinyl-acetate monomer production facility. Challenges, learning opportunities, and rewards encountered throughout the automation project will be discussed.

10:15 am – 11:00 am

**Academic Research to Practice**

University of Illinois

This presentation will discuss how organizations such as ITI and its DOE/DHS funded research center CREDC, influence cyber security and resiliency within the nation's energy delivery systems. The value of industry academia partnerships and examples of successfully transitioned academic research to hardened assets will also be discussed.

11:00 am – 11:45 am

**Maximizing Asset Performance and Availability through Predictive Analytics**

Air Liquide Large Industries U.S. LP  
AVEVA

Predictive and prescriptive maintenance technologies are more than just a concept – they are providing benefits to the marketplace today. A major industrial gas producer implemented a predictive analytics solution in order to enable predictive maintenance across 1,800 plants. During the initial 15 month pilot period alone the solution saved the company over a million dollars.



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**EMERGING TECHNOLOGIES**

2:00 pm – 2:45 pm

**Town Hall: Wireless within Refining – IT & OT  
Lessons Learned**  
Sinclair Oil Corporation  
CHS Refinery

2:45 pm – 3:30 pm

**Bringing Smart Manufacturing to the Masses**  
Linde PLC (LTC)  
Emerson Automation Solutions

A new cloud-based application platform and marketplace for manufacturing industry applications is being funded by the US government with the intent to make advanced manufacturing technologies available to smaller companies. The platform, vision and progress to date will be discussed.

3:45 pm – 4:30 pm

**Leading-Edge Technology for Profitable Real-Time Tracking  
and Optimization**  
Yokogawa  
Chevron Energy Technology Company

This presentation showcases industry best practices for real-time refinery unit monitoring and optimization embodied in a leading-edge technology solution delivering a major step change in profitability.

4:30 pm – 5:15 pm

**ISA Security Compliance Institute (ISCI) Certification**  
Chevron U.S.A. Inc.

This presentation will discuss what the certification program looks like, specific certifications, alignment with IEC 62443, and the advantages of certification for vendors, integrators, and asset owners.



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**Tuesday, October 15**

**DIGITAL TRANSFORMATION**

9:00 am – 10:00 am      **Creating Value Using Open Process Automation to Support Digital Transformation**  
ExxonMobil Research & Engineering Company

This presentation will highlight the research done by ExxonMobil, its collaboration with other operating companies and the accomplishments of the Open Process Automation Forum™.

10:15 am – 11:00 am      **Cloud-Based IIoT Heat Exchanger Optimization Improves Process Performance**  
Chevron U.S.A.  
Emerson Automation Solutions

A case study of a cloud based IIoT heat exchanger optimization project at a refinery. Implementation and benefits to be discussed.

11:00 am – 11:45 am      **A Case Study in Refinery Process Unit Transformation**  
Flint Hills Resources, LLC

A refinery discusses its effort to transform its process units through wireless technology, available data management solutions and lean principles.

**OPERATIONAL EXCELLENCE**

2:00 pm – 2:45 pm      **Closing the LP and APC Gap with Real-Time Optimization**  
Exxon Mobil Corporation  
AVEVA

This presentation will present actual cases of where the LP gap has been closed and the value that was generated with model-based value chain optimization. Discussion will include technology used and best practices.



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2:45 pm – 3:30 pm

**Impact of Refinery Mass Balance and Loss Control on Operational Excellence**  
YPF S.A.

This presentation will describe the process for achieving an accurate mass balance, lessons learned through the process of continuous improvement, and operational changes, and the impacts that a better balance has on a refinery striving for operational excellence.

3:45 pm – 4:30 pm

**A Comprehensive Fired Heater Health Monitoring Program**  
Quest Integrity USA  
Flint Hills Resources, LLC

This presentation outlines approaches to operate and maintain the health of the fired heater within a refinery using best practices that minimize operating risk and maximize performance. Attendees will take away best practices that may be used at their refinery.

4:30 pm – 5:15 pm

**Conduct of Operations: Generating, Using, and Aggregating the RIGHT Information Changes Everything**  
Operational Sustainability, LLC

This presentation will explore which work processes, cultural aspects, and technological considerations today's organizations need to consider in order to build a Conduct of Operations strategy that delivers operational, safety, and workforce benefits for the long term.