



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

OPCAT

Monday, October 14

OPERATIONAL EXCELLENCE

9:00 am – 10:00 am

The Automation of Operating Discipline with State-Based Control

Emerson Automated Solutions

Operating discipline is a key factor in safe, reliable and profitable manufacturing. Through state-based control, operating disciplines can be automated enabling the facility to utilize the correct operating discipline in normal and abnormal situations.

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 and Its Impact on Industry

University of Illinois

This presentation will discuss how organizations such as ITI and its DOE/DHS funded research center CREDC, influence cybersecurity 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.



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

11:00 am – 11:45 am

The Journey to Excellence in Predictive Maintenance
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 180 plants. This digital transformation has impacted the company's predictive maintenance as well as its workforce.

EMERGING TECHNOLOGIES

2:00 pm – 2:45 pm

**Town Hall: Wireless within Refining – IT & OT
Lessons Learned**
CHS Refinery
I²oT Solutions, LLC
ONG-ISAC
Sinclair Oil Corporation

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.



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

4:30 pm – 5:15 pm

International Society of Automation Cybersecurity Initiatives
International Society of Automation

This presentation will describe the International Society of Automation (ISA) activities that address securing automation that affects our everyday lives and identify opportunities for ISA collaboration. Attendees will see how ISA is expanding influence beyond traditional process industries through activities in adjacent industry sectors such as building management and smart cities.

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.



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

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.

2:45 pm – 3:30 pm

Impact of Refinery Mass Balance and Loss Control on Operational Excellence

Emerson Automation Solutions

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.