THE NEW 2020 AFPM SUMMIT IS GOING VIRTUAL

August 25 - 27, 2020

The ONLY conference for the petroleum refining and petrochemical industries focused on improving plant-wide performance

FREE to AFPM members through August 9. Non-members are welcome for a nominal fee.

REGISTER TODAY www.afpm.org/2020Summit
The 2020 AFPM Summit is going virtual! This exciting three-day event will provide technical resources for professionals from the refining and petrochemical industries who are focused on improving plant-wide performance.

Attend world-class technical seminars, engage in roundtable discussions, discover the latest strategies and emerging innovations, and find immediate solutions to implement at the site level — all in a new, cutting-edge format.

Three events come together for ONE POWERFUL SUMMIT

The Summit will continue its mission to showcase a combination of the best elements from AFPM’s Reliability and Maintenance Conference, Cat Cracker Seminar, and Operations & Process Technology Summit, with added benefits of an integrated approach to problem-solving across disciplines.

The 2020 Virtual Summit will include:

- Live-streamed industry topics and education sessions
- Access to emerging technologies, process safety, insights into operations
- Content targeted at owner and contractor personnel from maintenance, operations, engineering, and more
- Interactive, online networking events
- A virtual exhibit floor with the ability to interact and engage through live chats
- Access to emerging technologies, process safety, insights into operations
- Content targeted at owner and contractor personnel from maintenance, operations, engineering, and more

The AFPM Virtual Summit will be hosted on a user-friendly interactive virtual platform. Like a live event, you will begin the conference by entering a lobby with videos and directional signage to help guide you through the virtual experience.

The three-day summit will be packed with the same content originally planned for the live event. Sessions will be held in a variety of auditoriums, all with optional chat boxes or Q&A. Following the event, all approved sessions will be available on-demand.

While the format of the event has changed, you can expect world-class technical content focused on emerging technologies, process safety, maintenance and turnaround, improved reliability and operations, mechanical integrity, training, leadership, and culture.

**DAY 1: TUESDAY, AUGUST 25**

<table>
<thead>
<tr>
<th>10:00 a.m. EDT (15 min.)</th>
<th>ROOM 1: PROFITABILITY</th>
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<tbody>
<tr>
<td>Industry Leadership Panel</td>
<td>Join us for a conversation with leading industry executives discussing perspectives on the state of the industry and the &quot;new normal.&quot;</td>
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<tr>
<td>MODERATOR: Chet Thompson, President and CEO, AFPM</td>
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<tr>
<td>PANELISTS: Daniel Coombs, Executive Vice President of Global Manufacturing, Projects &amp; Refining, LyondellBasell Industries, Michael Coyle, President, Manufacturing, Chevron Corporation USA, Robert Herman, Executive Vice President, Refining, Phillips 66 and Michael Nagle, President &amp; CEO, INEOS Olefins &amp; Polymers USA</td>
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<tr>
<th>11:30 a.m. EDT (60 min.)</th>
<th>ROOM 2: FUTURE OF INDUSTRY</th>
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<tbody>
<tr>
<td>The Outlook for Road Fuel Demand</td>
<td>FACILITATOR: Susan Grissom, AFPM</td>
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<td>SPEAKER: Linda Giesbeck, ESAI</td>
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<tr>
<td>Learning objectives: Learn about the link between the economic slowdown and road diesel demand, and the impact on road fuels from policies and regulations affecting fuel efficiency, electric vehicles, and renewable fuels. Identify public policies that drive new product development.</td>
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<tr>
<th>12:45 p.m. EDT (60 min.)</th>
<th>ROOM 3: PRACTICAL TOOLS FOR SITES</th>
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<tbody>
<tr>
<td>Learning objective: Gain insight from operating company discussions on their use of VR for turnaround planning, maintenance planning, and operator training.</td>
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<tr>
<th>10 a.m. – 6 p.m. EDT</th>
<th>ROOM 4: USES OF DATA</th>
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<tr>
<td>Refining Case Studies on Leveraging Data Analysis and Reporting Tools for Decision Making</td>
<td>SPEAKERS: Miguel F. G. Sison, Senior Reliability Engineer, Chevron Corporation USA, Dan Oliveira, Process Safety, Flint Hills Resources and Representative, Maintenance, Flint Hills Resources</td>
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<tr>
<td>Learning objective: Leverage domain knowledge to help develop and create &quot;easy-to-use&quot; applications without requiring software coding/programming knowledge from existing data. Demonstration of Power BI topics will be provided.</td>
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<tr>
<th>10 a.m. – 6 p.m. EDT</th>
<th>ROOM 5: WIRELESS TECHNOLOGIES</th>
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<tbody>
<tr>
<td>Applying Now to the Future: Technology Lessons Learned from the Pandemic</td>
<td>FACILITATORS: Blake Larsen, Sinclair Oil Corporation and Stephanie Franklin-Thomas, Motiva Enterprises</td>
</tr>
<tr>
<td>Learning objective: Learn how to apply cyber and OT industry best practices from COVID-19 response to potential future emergency situations and the &quot;new normal.&quot;</td>
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<tr>
<th>10 a.m. – 6 p.m. EDT</th>
<th>ROOM 6: TECHNOLOGY FOR SITES</th>
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<tr>
<td>SPEAKERS: Paul Bird, John Gusewelle and Shahid Bashir, Phillips 66</td>
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**AGENDA**

**TUESDAY, AUGUST 25**
10 a.m. – 6 p.m. EDT

**WEDNESDAY, AUGUST 26**
10 a.m. – 6 p.m. EDT

**THURSDAY, AUGUST 27**
10 a.m. – 6 p.m. EDT
<table>
<thead>
<tr>
<th>ROOM 1: PROFITABILITY</th>
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<th>ROOM 4: USES OF DATA</th>
<th>ROOM 5: TURNAROUND AND EMERGING LEADERS</th>
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<td><strong>DAY 1: TUESDAY, AUGUST 25 cont.</strong></td>
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<tr>
<td><strong>2:00 p.m. EDT (60 min.)</strong></td>
<td>Renewable Diesel Production — 100% and Co-Processing Options for Refiners</td>
<td>Exploring Challenges in the U.S. Refining Sector</td>
<td>Human Organizational Performance (HOP)</td>
<td>Roundtable: FCC Turnaround Safety</td>
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<tr>
<td>FACILITATORS: Eric Legare, Marathon Petroleum Corporation and Robert Ohmes, Becht</td>
<td>FACILITATOR: Susan Grossom, AFPM</td>
<td>FACILITATOR: John Auers, Turner Mason &amp; Company</td>
<td>FACILITATOR: Abbas Dhalla, Chevron Corporation USA</td>
<td>FACILITATOR: Richard Grove, Chevron Corporation USA</td>
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<tr>
<td>SPEAKERS: Henrik Rasmussen and Jostein Garbrielsen, Holdor Topsoe</td>
<td>SPEAKER: John Auers, Turner Mason &amp; Company</td>
<td>LEARNING OBJECTIVES: Learn about the outlook and challenges facing the U.S. and global refining industries, including how COVID-19 has affected the short-term global demand for refined products, the prospects for demand longer term, how refineries have adapted in the short-term and how the global refining industry will change going forward.</td>
<td>SPEAKERS: Sahika Korkmaz and Chelsea Miller, Chevron Corporation USA</td>
<td>PANELISTS: John (Andy) Kite, Chevron Corporation USA and Andrew Mezera, Valera Energy Corporation</td>
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<tr>
<td><strong>3:15 p.m. EDT (60 min.)</strong></td>
<td>Storytelling Using Data Science</td>
<td>Understanding Digital Process Monitoring in Refineries Through Connect’n’#: A Case-Studies Approach</td>
<td>AFPM Walk the Line Practice Share Program</td>
<td>Real-Time Crude Oil Data for Refinery Decision Making</td>
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<td>SPEAKER: Adam Richards, Galvanize, Inc.</td>
<td>SPEAKER: Case studies on how refinery operations are changed through process monitoring to maximize unit performance and troubleshoot.</td>
<td>SPEAKERS: Tjoko Hermanto, Antaly and Mike Shivers, CVR Energy</td>
<td>SPEAKERS: Tjoko Hermanto, Antaly and Mike Shivers, CVR Energy</td>
<td>SPEAKER: Alex Woods, AVEVA</td>
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<td>LEARNING OBJECTIVES: • Discuss how to use data science tools to help you improve your technical communication and storytelling skills • Explain specific examples of how predictive modeling and statistical techniques can improve production capabilities</td>
<td>LEARNING OBJECTIVES: • Walk the Line from a maintenance perspective • How to utilize the WTL toolbox • Case study on how WTL has helped improve site safety and culture</td>
<td>LEARNING OBJECTIVES: • How to utilize the WTL toolbox • Case study on how WTL has helped improve site safety and culture</td>
<td>LEARNING OBJECTIVES: Understand the impact of timely and high-quality crude oil knowledge on purchasing and planning decisions.</td>
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<td><strong>4:30 p.m. EDT (90 min.)</strong></td>
<td>Room 1: CRUDE/COKING</td>
<td>FCC Room 101: FCCU Pressure Balance Fundamentals</td>
<td>Hydrocracker Temperature Excursion Session</td>
<td>Increased Octane Demand — Investment Strategy for the Future (Traditional Technologies vs. Emerging Technologies)</td>
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<td>SPEAKERS: Andrew Jabukowska, Flint Hills Resources, LP and Ryan Miller, RTI</td>
<td>SPEAKER: Drey Holder, W.R. Grace &amp; Co.</td>
<td>PANELISTS: Jeff Johns, Chevron; Christopher Schmitz, III; John Kulach, Honeywell UOP; Taylor Fama, Daily Thermetrics; Robert Torgerson, W IRA and Rodney Braun, Flint Hills Resources, LP</td>
<td>SPEAKER: TBD</td>
<td>PANELISTS: Jeff Johns, Chevron; Christopher Schmitz, III; John Kulach, Honeywell UOP; Taylor Fama, Daily Thermetrics; Robert Torgerson, W IRA and Rodney Braun, Flint Hills Resources, LP</td>
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<tr>
<td>LEARNING OBJECTIVES: • Gain a better understanding of how pressure balance is related to standpipe aeration, circulation, slide valves, and reactor and regenerator pressures.</td>
<td>LEARNING OBJECTIVES: Understanding the hazard and mitigations; assessing the risk; design for defense, hydroprocessing safety and temperature instrumentation; hydrocracker temperature excursion including safety instrumented systems and auto-arming and auto-disarming.</td>
<td>LEARNING OBJECTIVES: Understand the impact of timely and high-quality crude oil knowledge on purchasing and planning decisions.</td>
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<td>LEARNING OBJECTIVES: FCC Catalyst Hot Topics: Latest Developments and Advances</td>
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**Room 1:** Reliability and Maintenance
**Room 2:** FCC
**Room 3:** Hydroprocessing
**Room 4:** Gasoline Processing
**Room 5:** Connected Worker

**Roundtable: Reliability and Maintenance**
**Facilitators:** Bill Cates, Hunt Refining and Eric Legare, Marathon Petroleum Corporation
**Speakers:** Andrew Jabukowska, Flint Hills Resources, LP and Ryan Miller, RTI
**Learning Objectives:** Two mini panels covering equipment decontamination, specifically, primarily distillers, lessons learned, new improvements/ procedures, and working capital project inside a turnaround.

**FCC 101: FCCU Pressure Balance Fundamentals**
**Facilitator:** Ann Benoit, W.R. Grace & Co.
**Speaker:** Drey Holder, W.R. Grace & Co.
**Learning Objectives:** Gain a better understanding of how pressure balance is related to standpipe aeration, circulation, slide valves, and reactor and regenerator pressures.

**FCC Catalyst Hot Topics: Latest Developments and Advances**
**Facilitator:** CJ Farley, G.W. Anu, LLC
**Panelists:** Cliff Avery, Albemarle; Representative, BASF; Bob Riley, W.R. Grace & Co. and Todd Hochheiser, Johnson Matthey
**Learning Objectives:** FCC Catalyst Hot Topics: Latest Developments and Advances

**Hydrocracker Temperature Excursion Session**
**Facilitators:** Wendy Wildenberg, Flint Hills Resources and Ken Chipalik, Johnson Matthey
**Panelists:** Jeff Johns, Chevron; Christopher Schmitz, III; John Kulach, Honeywell UOP; Taylor Fama, Daily Thermetrics; Robert Torgerson, W IRA and Rodney Braun, Flint Hills Resources, LP
**Learning Objectives:** Understanding the hazard and mitigations; assessing the risk; design for defense, hydroprocessing safety and temperature instrumentation; hydrocracker temperature excursion including safety instrumented systems and auto-arming and auto-disarming.

**Increased Octane Demand — Investment Strategy for the Future (Traditional Technologies vs. Emerging Technologies)**
**Speaker:** TBD
**Learning Objectives:** How increased octane demand is driving investment strategies in facilities.

**Connected Worker**
**Facilitator:** Rebecca Bourg, PBF Energy
**Panelists:** Jordan Oligmueller, AdvanSix and Ben Way, Phillips 66
**Learning Objectives:** Panel discussion on different operating companies approach to implementing a connected worker program. Round 2 and LOTO applications will be highlighted.
## DAY 2: WEDNESDAY, AUGUST 26

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<td>PANELISTS: Chris Behr, Valero Energy Company, Rene Norwalk, LyondellBasell Industries and Joel Lack, Nalco Water</td>
<td>PANELISTS: Representative, Alliance Refractories, Chase Drake, Diamond Refractory Services, Jackson Espinoza, Turnaround Specialty Group and Kristian Richards, Irving Oil</td>
<td>PANELISTS: John Reynolds, Intertek Asset Integrity Management and Chad Patschke, Eitas Mechanical Integrity</td>
<td>SPEAKER: Joel Levitt, Springfield Resources</td>
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<td>Learning objectives: Selection criteria for opportunity or new crudes and crude compatibility.</td>
<td>Learning objectives: Discussion of IOW implementation, ongoing management and sustainability, and review of IOW white paper and other resources.</td>
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<td>Learning objectives: Review techniques and tools for evaluation of your crews and develop techniques to reduce indirect (non-productive) time.</td>
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**10:00 a.m. EDT (90 min.)**

**Panel Discussion: Monitoring and Improving Equipment Operations**

FACILITATORS: Maureen Price, Fluor Corporation and Sam Lordo, Consultant

SPEAKERS: Garry Jacobs and Jesus Cabrera, Fluor Corporation, Pat Cooper and Richard van Brecht, Becht

SESSION ONE: Performance Benchmarking: integrating reality into process modeling and using readily available data to bring reality into process modeling to improve decision making.

SESSION TWO: Equipment Discussion — Pumps 101: types, curves, turn-down, single stage vs. multistage and matching control valves to pumps.

**11:45 a.m. EDT (90 min.)**

**Turbulent Markets — Getting the Most Out of the FCC during COVID-19**

FACILITATORS: Darin Foote, CHS and Ed Dobbins, Honeywell UOP

Learning objective: Discussion of FCC Operation Safety and Reliability including optimization for minimization of financial impact (least negative), minimum feed rate, lack of storage, extreme constraints, long-term park without entry.

**Update on API RP 751, Safe Operation of Hydrofluoric Acid Alkylation Units Section 6 Inspection and Maintenance**

SPEAKER: Monica Plowman, HollyFrontier Corporation

Learning objective: Update on Section 6, of API RP 751, Rev 5 — Inspection and Maintenance.

**Roundtable: Turnaround Planning and Scope**

FACILITATORS: Hardy Kemp, Flint Hills Resources and Gerard Celestine, Motiva Enterprises

**REGISTER TODAY!**

www.afpm.org/2020Summit
DAY 2: WEDNESDAY, AUGUST 26 cont.

<table>
<thead>
<tr>
<th>ROOM 2: GASOLINE PROCESSING</th>
<th>ROOM 3: HYDROPROCESSING</th>
<th>ROOM 4: MACHINE LEARNING AND DECISION MAKING</th>
<th>ROOM 5: EMERGING LEADERS</th>
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<td><strong>1:30 p.m. EDT</strong>&lt;br&gt;(45 min.)</td>
<td>Lessons Learned: PES Incident&lt;br&gt; SPEAKER: Lauren Grimm, Chemical Safety Board&lt;br&gt; FACILITATOR: Rainer Bass, HollyFrontier Corporation</td>
<td>Unloading Your Reactor: A Primer&lt;br&gt; FACILITATORS: Christy Anderson, Albemarle Corporation, Sergio Robledo, Holger Topsoe and Brian Watkins, Advanced Refining Technologies&lt;br&gt; SPEAKERS: Alfredo Romero, Eurecat U.S. Incorporated, Danny Kurtz, Cat-Spec Ltd. and David Wilkins, Petroval&lt;br&gt; Learning objective: Understanding available technology options and planning implications.</td>
<td>Preventative Maintenance Reliability and Machine Learning&lt;br&gt; SPEAKERS: General Edward Dorman, US Army and Cheryl Wiebe, Tendata&lt;br&gt; Learning objective: Engaging the Workforce in Today’s Virtual Environment&lt;br&gt; SPEAKER: Representative, Lee Hecht Harrison&lt;br&gt; Learning objective: This session will cover some best practices for leading and engaging the workforce or your colleagues in today’s ever-expanding virtual environment.</td>
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<tr>
<td><strong>2:30 p.m. EDT</strong>&lt;br&gt;(45 min.)</td>
<td>Alkylation Unit Risk Management&lt;br&gt; SPEAKERS: Tim Shepperd, Becht, Jon Keuler, Honeywell UOP and Gary Kemeny, PBF Energy&lt;br&gt; Learning objective: Gain insight from recent risk reduction strategies being evaluated for alkylation units.</td>
<td>Effective Catalyst Selection Strategies&lt;br&gt; FACILITATORS: Christy Anderson, Albemarle Corporation, Sergio Robledo, Holger Topsoe and Brian Watkins, Advanced Refining Technologies&lt;br&gt; SPEAKERS: Rahul Singh, Haldor Topsoe and Steve Aycox, Albemarle Corporation&lt;br&gt; Learning objective: Deep Learning/Machine Learning with APC and Online Optimization&lt;br&gt; FACILITATOR: Atique Malik, Phillips 66&lt;br&gt; SPEAKERS: Yugender Chikkula, Motiva Enterprises, Dave Seiver, Valero Energy Corporation, Srijam Ramaganesam, Phillips 66, Darrin Feather, Phillips 66 and Alberto Bempord, ODYS Srl&lt;br&gt; Learning objective: Gain insight from reported and verified benefits as well as verification procedures.</td>
<td>Engaging the Workforce in Today’s Virtual Environment&lt;br&gt; SPEAKER: Representative, Lee Hecht Harrison&lt;br&gt; Learning objective: This session will cover some best practices for leading and engaging the workforce or your colleagues in today’s ever-expanding virtual environment.</td>
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<tr>
<td><strong>3:30 p.m. EDT</strong>&lt;br&gt;(90 min.)</td>
<td>Gasoline Processing Town Hall&lt;br&gt; Learning objective: Unique challenges around preparation for TA of gasoline units with recent regulation updates.&lt;br&gt; Topics include: Corrosion in alkylation units, issues with higher utilization of naphtha reformers, chloride management issues around reformer/ISOM units, unique challenges around preparation for TA of gasoline units with recent regulatory changes, light naphtha balance challenges, and issues around gasoline blending qualities.</td>
<td>Turnaround Scope Development 101&lt;br&gt; SPEAKERS: Joe Rydberg, Citgo Petroleum Corporation, Hardy Kemp, Flint Hills Resources, Bob Steinberg, Motiva Enterprises and Bobby Vichich, RTI – Cruz Alta&lt;br&gt; Topics include:&lt;br&gt; • Overview of turnaround scope development process&lt;br&gt; • Process engineer interface in determining scope and critical path&lt;br&gt; • Shutdown and decontamination&lt;br&gt; • Discovery scope of work&lt;br&gt; • Commissioning Startup (CSU)&lt;br&gt; Improve Decision Making with Improved Mass Balance&lt;br&gt; FACILITATOR: Bill Poe, AVEVA&lt;br&gt; SPEAKERS: Julie Valentine, Emerson Automation Solutions, Bill Fairleigh, KBC Advanced Technologies and Elizabeth Swinney, Chevron Corporation USA&lt;br&gt; Learning objective: Understand how data integrity impacts financial performance of operating units.</td>
<td>Strengthening Your Career by Building Webs and Developing Spidey Senses&lt;br&gt; SPEAKER: Meha Jha, Emerson Automation Solutions&lt;br&gt; Learning objective: This session will cover tools, tips, and exercises for how to become the Spiderman of your career, from developing webs, or networks of people, to the career instincts needed to make strategic career decisions.</td>
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<td><strong>4:30 p.m. EDT</strong>&lt;br&gt;(60 min.)</td>
<td>ROOM 1: Diversity and Inclusion&lt;br&gt; FACILITATOR: Eboni Adams, W.R. Grace &amp; Co.&lt;br&gt; Dr. Simone Ahuja, innovation expert and bestselling author, shares engaging stories from her work in emerging markets to Fortune 500s that get to the why of diversity, equity, and inclusion — and specific steps individuals and organizations can take to harness the power of difference.</td>
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## DAY 3: THURSDAY, AUGUST 27

### ROOM 1: CRUDE/COKING
**Coking Lessons Learned and Troubleshooting**
- **FACILITATOR:** Raul Romero, NALCO Water
- **PANELISTS:** Mitch Moloney, Becht; Al Faegh, McDermott-Lummus and Sam Londo, Consultant

**Topics:**
- DCU Troubleshooting and Lessons Learned
- Impact of different feed qualities on product yield and coke morphology
- Optimizing drum cycle to increase feed
- Best practices for DCU furnace design and operation
- Slag reprocessing in DCU

### ROOM 2: HYDROPROCESSING
**Increasing Hydrocracker Profitability without Capital Investment**
- **FACILITATOR:** Andy Moreland, Valero Energy Corporation
- **SPEAKER:** Dean Parker, Exxon Mobil Corporation

**Learning objective:** Gain insight from an overview of hydrocracking profitability opportunities.

### ROOM 3: MAINTENANCE AND RELIABILITY
**Roundtable: Wireless Technology**
- **FACILITATORS:** Hardy Kemp, First Hills Resources; Jimmy Jernigan, Ryan Murphy and Ben Hoff, LyondellBasell Industries

**Learning objective:** Discussion on what technologies companies are leveraging for maintenance, reliability, and turnaround activities.

### ROOM 4: LEVERAGING DATA FOR ANALYTICS
**Dynamic Real-Time Optimization for Value Sustainment: The Same Silos Are Not Going to Cut It**
- **FACILITATOR:** Tim Olsen, Emerson Automation Solutions
- **SPEAKER:** Brian Burgio, KBC Advanced Technologies

**Learning objective:** Know the latest developments in blending and analyzer performance monitoring technologies.

### ROOM 5: AUTOMATION TECHNOLOGY INTEGRATION
**Comprehensive Blend Optimization and Analyzer Performance Monitoring**
- **FACILITATOR:** Bill Poe, AVEVA
- **SPEAKERS:** Eric Gildea, AVEVA

**Learning objective:** Establish how captured data can be used to deliver value.

### ROOM 1: GASOLINE PROCESSING
**BenzOUT™ – A Commercially Proven Process for Benzene Reduction and Maximum Reformate Octane Barrels for Gasoline Blending**
- **SPEAKERS:** Jennifer Muit, TechnipFMC and Erik Moa, TechnipFMC and Terry Helton, ExxonMobil Corporation

**Learning objective:** Discover changing drivers for MSAT-2 compliance.

### ROOM 2: FCC
**Key Equipment Fundamentals and Maintenance**
- **FACILITATOR:** Matt Wojtowicz, Honeywell UOP
- **SPEAKERS:** Mike Sandacz, Honeywell UOP and Rich Johnson, Honeywell UOP

**Learning objective:** Design basics, maintenance, health monitoring, impact on process safety, calibration, decision strategy regarding repair. Catalyst Slide Valves, Flue Gas Slide Valves, Orifice Chambers and Variable Orifice Valves. Will also include latest equipment developments and response to industry incidents.

### ROOM 3: LEVERAGING DATA FOR ANALYTICS
**Using Data Visualization and Advanced Analytics Methods for Troubleshooting Column Flooding Events**
- **FACILITATOR:** Bill Poe, AVEVA
- **SPEAKER:** Jose Bird, Valero Energy Corporation

**Learning objective:** Employ advanced analytics methods to identify operating conditions prior to and during a process unit event.

### ROOM 4: LEVERAGING DATA FOR ANALYTICS
**Digital Transformation: Case Studies on Developing Programs at Your Companies**
- **FACILITATOR:** Peter Reynolds, ARC Advisory Group
- **SPEAKERS:** Douglas White, Emerson Automation Solutions; Todd Dixon, Marathon Petroleum Corporation and Bruce Taylor, Sinclair Oil Corporation

**Learning objective:** Case studies will be provided from an operating company and solution provider perspectives on how to develop and execute a digital transformation program at your company.

### ROOM 4: LEVERAGING DATA FOR ANALYTICS
**Presentations and panel discussions**
### ROOM 1: GASOLINE PROCESSING

**Naptha Reforming Unit Reliability**
**SPEAKERS:** Russ Wiltse, Valero Energy Corporation, Matthew Hitchinson, Axens North America and Steve Philoon, Honeywell UOP
**Learning objective:** Discuss current issues with regard to reliability and approaches to manage them in aging units and higher maintenance equipment in UOP units.

### ROOM 2: FCC

**FCC 201: Operational Changes with FCC Model Runs Using FCC-Sim**
**FACILITATOR:** Lee Wells, LyondellBasell Industries
**SPEAKER:** Paul Haukseth, KBC Advanced Technologies
**Learning objective:** This will be an interactive session that is a blend of fundamental FCC principles and the use of advanced tools to help FCC engineers and those that support them understand basic operational moves, how to estimate their benefits, and how to optimize them.

**FCC Catalyst Withdrawal Line Reliability**
**FACILITATOR:** Ziad Jawad, Phillips 66
**SPEAKER:** Chris Oliver, Chevron Corporation USA
**Learning objectives:** Topics include, damage mechanisms, piping design elements, lessons learned, recommended practices for effective operation, monitoring, and turnaround maintenance activities.

### ROOM 3: MAINTENANCE AND RELIABILITY ROUNDTABLES

**Flange Assembly Demonstration Unit**
**FACILITATOR:** Scott Hinds, Marathon Petroleum Corporation
**SPEAKER:** John Jenco, Jenco Inc.
**Learning objective:** Demonstration, training, and best practices discussion.

**Industrial Autonomy in the Process Industries**
**SPEAKER:** Thomas Fiske, Yokogawa
**Learning objective:** Identify industrial autonomy and how it is different from automation.

### ROOM 4: LEVERAGING DATA FOR ANALYTICS

**Flange Assembly Demonstration Unit**
**FACILITATOR:** Scott Hinds, Marathon Petroleum Corporation
**SPEAKER:** John Jenco, Jenco Inc.
**Learning objective:** Demonstration, training, and best practices discussion.

**ASK THE EXPERT: Hydroprocessing SME Q&A Panel**
**FACILITATOR:** Sravan Pappu, Crystaphase
**PANELISTS:** Andy Moreland, Valero Energy Corporation, Wendy Wildenberg, Flint Hills Resources, Jay Parekh, Chevron Corporation USA, Paul Zimmerman, Honeywell UOP and Representative, Catalyst Company
**Learning objectives:** Forum for anyone, particularly young engineers to have their specific questions answered by experts. Learn different operating company perspectives on the same problems.

### ROOM 5: MECHANICAL INTEGRITY

**Industrial Autonomy in the Process Industries**
**SPEAKER:** Thomas Fiske, Yokogawa
**Learning objective:** Identify industrial autonomy and how it is different from automation.

**Flange Assembly Demonstration Unit**
**FACILITATOR:** Scott Hinds, Marathon Petroleum Corporation
**SPEAKER:** John Jenco, Jenco Inc.
**Learning objective:** Demonstration, training, and best practices discussion.

**ASK THE EXPERT: Hydroprocessing SME Q&A Panel**
**FACILITATOR:** Sravan Pappu, Crystaphase
**PANELISTS:** Andy Moreland, Valero Energy Corporation, Wendy Wildenberg, Flint Hills Resources, Jay Parekh, Chevron Corporation USA, Paul Zimmerman, Honeywell UOP and Representative, Catalyst Company
**Learning objectives:** Forum for anyone, particularly young engineers to have their specific questions answered by experts. Learn different operating company perspectives on the same problems.

### ROOM 4: HYDROPROCESSING

**Future of the FCC**
**FACILITATORS:** Steve Gim, BASF Corporation and Warren Letzsch, Consultant
**Learning objective:** Where is the FCC going in the next 10 years in regards to FCC configuration, unit integrated in the overall refinery flow, and advances to FCC design and products? There will also be an opportunity to address any unanswered questions from the conference.

**References:**
- Members are FREE through August 9.
- Non-members are welcome for a nominal fee.
Case-Study Analysis of the World’s First Commercial Fixed-Bed Catalyst Removal Robot

INVITED SPEAKER: Christopher Jansen, Worley Parsons

Learning objectives:
• Identify ways to overcome the challenges associated with implementing new technology in a turnaround
• Identify where the CAROL technology might add benefit to catalyst handling operations at their sites
• Identify general information on the process involved in commercialization of a new product in the oil and gas industry

Avoiding Issues with Non-Decomposed Mercaptans During Sulfiding

INVITED SPEAKERS: Paul Temme and William Alexander, Reactor Resources

Learning objectives:
• Become familiar with non-decomposed mercaptans that cause SOx emissions
• Identify reactor temperatures critical to avoid this issue
• Examine online analyzer systems available to measure non-decomposed mercaptans in the gas stream in real time

Using Step-Out Catalyst Technology to Drive Refinery Efficiency

INVITED SPEAKERS: David Leach, Albemarle Corporation and Dean Parker, ExxonMobil Chemical Co.

Learning objectives:
• Examine development in bulk metal catalysts showing an activity advantage up to three times that of conventional supported catalysts
• Gain insight into the Galexia™ Alliance between ExxonMobil and Albemarle to refiners in the Middle East. Alliance leverages the technical experience, refinery operating know-how, and successful track record of both companies

Maximization of High-Value Transportation Fuels and Petrochemicals with Refinery Conversion Processes

SPEAKERS: Arun Arora, McDermott-Lummus and Dan Gillis, Chevron Lummus Global

Learning objectives:
• Recognize high conversion residue hydrocracking (RHC) is designed to meet the future transportation fuel and petrochemical requirements
• Conclude that the key to the successful application of RHC is the effective utilization of its products in processes
• Gain insight on how RHC can be successfully integrated within a complex

K-SAAT™: Next-Generation Solid Acid Alkylation Technology

SPEAKER: Edward Griffiths, KBR

The next-generation solid acid catalyst, ExSact, was developed over many years of R&D to compete with liquid acids. ExSact catalyst offers 24-hr. alkylation cycles with robust resistance to typical poisons and the ability to handle a variety of feedstocks. ExSact catalyst is the key to a K-SAAT process that generates high-octane alkylate using a simple adiabatic fixed-bed reactor design and in-situ catalyst regeneration with hydrogen. K-SAAT is the best technology available to refiners worldwide, offering a commercially proven process with high return on investment through yield and octane gains. K-SAAT offers a relatively low-cost revamp of liquid acid alkylation units by replacing the alkylation reactors and reusing the existing recovery system.
New Technology for the Removal of Sulfur Compounds from Hydrocarbon Products

INVITED SPEAKER: Jefferey St. Amant, Vapor Point

Helping Combat Economic Strains Caused by Tier II and III Sulfur Credits.
This presentation will discuss existing applications where Vapor Point has assisted clients with improving the quality of both feedstocks and saleable fuels by removing unwanted sulfur contamination such as hydrogen sulfide, methyl mercaptan, ethyl mercaptan, propyl mercaptan, and butyl mercaptan.

Are We Ahead of a Slow Change or Facing a Turbulent Energy Transition?

SPEAKER: Andrew Mcintee, KBC Advanced Technologies

Learning objectives:
• Local and global energy systems are now faced with a profound transformation
• The industrial energy transition is characterized by fast-moving changes, technological developments, and a high degree of uncertainty
• There are actions now for an economic mitigation path with doing nothing being the most costly and riskiest approach
PROGRAMES & AGENDA HIGHLIGHTS

In addition to technical education sessions and interactive roundtables, The Summit offers opportunities for attendees to come together to learn from one another and celebrate our industry’s achievements.

**2020 PETER G. ANDREWS LIFETIME SERVICE AWARD**  
*Tuesday, August 25 | 10:00 a.m. EDT*

The Peter G. Andrews Lifetime Service Award honors those who have made significant long-lasting contributions to the value and quality of the AFPM Summit. This year’s recipient is Harold J. Eggert, Chief Global Technical Advisor, Athlon, A Halliburton Service.

**EMERGING LEADERS**  
*Tuesday, August 25 | 3:15 p.m. EDT*  
*Wednesday, August 26 | 1:30 p.m. EDT*

These sessions allow junior and senior leaders to unify around innovative leadership practices, practicable methods to execute work effectively, and key considerations for managing teams in today’s virtual environment.

**DIVERSITY AND INCLUSION SESSION**  
*Wednesday, August 26 | 4:30 p.m. EDT*

Dr. Simone Ahuja, innovation expert and bestselling author, shares engaging stories from her work in emerging markets to Fortune 500s that get to the why of diversity, equity, and inclusion — and specific steps individuals and organizations can take to harness the power of difference.

**WOMEN IN INDUSTRY**  
*Wednesday, August 26 | 5:30 p.m. EDT*

AFPM networking event for and by women — Engage, Learn, Connect.

**NETWORKING EVENTS**

Throughout The Summit, attendees will have an opportunity to engage with other attendees, speakers, and exhibitors in The Summit Networking Lounge. There will also be ample opportunity to engage with peers through online chats during each session.

**SAVE THE DATE**

Mark your calendar for October 5 – 7, 2021, when the AFPM Summit: Excellence in Plant Performance makes its face-to-face debut at the Hyatt Regency New Orleans.
VISIT THE VIRTUAL EXHIBIT HALL

AFPM's Virtual Summit will have no shortage of exhibitors providing the latest developments, information, and demonstrations, with the ability to interact through live chats.

Connect with vendors to fulfill all your business needs in just a few days, and if you miss anyone during the conference, you can go back and visit the booths after the conference has concluded.

EXHIBITORS AS OF JUNE 2, 2020:
Advanced Refining Technologies
Air Products and Chemicals, Inc.
AIS Software
Altair Strickland/Diamond Refractory
Athlon, a Halliburton Service
AVEVA
BASF Corporation
Becht Engineering Co., Inc.
BrandSafway
Carestream NDT
Carolina Filters, Inc.
Catalyst & Chemical Containers
Chem32 LLC
Clean As New
The Colt Group
CPF DLl
Delta Tech Service, Inc.
DeltaValve USA
Dorf Ketal Chemicals, LLC
Dynamics Scientific Production Center USA, Inc.
EMCOR Industrial Services
The Equity Engineering Group
Eurecat U.S. Incorporated
Everlasting Valve
Gulfspan Industrial, LLC
Haldor Topsoe, Inc.
Hason Steel Products, Inc.
HCspect
IMI Z&J
Integrated Global Services, Inc.
J.J. White, Inc.
JCL Safety Services
KBC Advanced Technologies, Inc.
KnightHawk Engineering, Inc.
Koch-Glitsch LP
Matrix Service
MISTRAS Group, Inc.
Ohmstede
ParFab Companies
Petroval S.A.
PK Companies
Refractory Construction Services Co., LLC
Repcon/TWS
Resco Products, Inc.
Sabin Metal Corporation
Seeq Corporation
Sentinel Integrity Solutions
SILICON Rapid Arc Welding Contracting & Services, Inc.
Stress Engineering Services, Inc.
SUEZ Water Technologies
TapcoEnpro, LLC.
TEAM, Inc.
TechnipFMC
Tower Force LLC
Turner Industries Group, LLC
United Laboratories International LLC
USA Industries, Inc.
W.R. Grace & Co.
Wika Instrument, LP
Woven Metal Products
Wyatt Field Service Company

Explore the halls or find an exhibitor through a search feature. Simply click on an exhibitor in the hall and you will be directed to their booth. Engage in chats, watch videos, and download information packets.

Want to see your company listed above and have the opportunity to make valuable contacts while earning more business? Sign up to exhibit today!

ATTENDING A VIRTUAL CONFERENCE FOR THE FIRST TIME?
KEEP THESE TIPS IN MIND FOR A SUCCESSFUL EXPERIENCE.

✔ FIRST, BLOCK YOUR CALENDAR. Attending live has huge benefits, such as asking questions of the speaker in real time and interacting with other attendees.

✔ MINIMIZE DISTRACTIONS, turn off notifications, and avoid multitasking like checking emails, etc.

✔ ENGAGE EVERY FEATURE available from sessions to chats to exhibit booths. All are designed to foster cross-functional learning and break down knowledge silos.

✔ Missed a session or a detail in a session you did attend? Don’t worry. The content from The Summit will remain accessible to attendees for three months.

✔ Remember, virtual conferences can offer either distraction or complete focus and comfort, depending on the individual. So, pour a cup of coffee and take responsibility for your experience.

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