

2020 AFPM **SUMMIT**

Excellence in Plant Performance

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.

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AFPM

LEARN AND CONNECT IN A NEW WAY



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



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.

TECHNICAL EXPERTISE. ACTIONABLE SOLUTIONS.

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.

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

DAY 1: TUESDAY, AUGUST 25

10:00 a.m. EDT (15 min.)	ROOM 1: Kick-Off Keynote: Chet Thompson, <i>President and CEO, AFPM</i>				
(60 min.)	Industry Leadership Panel Join us for a conversation with leading industry executives discussing perspectives on the state of the industry and the “new normal.” MODERATOR: Chet Thompson, <i>President and CEO, AFPM</i> PANELISTS: Daniel Coombs, <i>Executive Vice President of Global Manufacturing, Projects & Refining, LyondellBasell Industries</i> , Michael Coyle, <i>President, Manufacturing, Chevron Corporation USA</i> , Robert Herman, <i>Executive Vice President, Refining, Phillips 66</i> and Michael Nagle, <i>President & CEO, INEOS Olefins & Polymers USA</i>				
	ROOM 1: PROFITABILITY	ROOM 2: FUTURE OF INDUSTRY	ROOM 3: PRACTICAL TOOLS FOR SITES	ROOM 4: USES OF DATA	ROOM 5: ROUNDTABLES
11:30 a.m. EDT (60 min.)	The Outlook for Road Fuel Demand FACILITATORS: C.J. Farley, <i>G.W. Aru, LLC</i> and Mike Mitzner, <i>Axens North America</i> SPEAKER: Linda Giesecke, <i>ES&I</i> Learning objectives: Learn about the link between the economic slowdown and road diesel demand, how transportation trends like electric vehicles could affect gasoline and 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.	Leveraging Emerging Technology for Refining and Petrochemical Operations, Training, and Maintenance SPEAKERS: Athicha (M) Dhanormchitpong and Kyle Daughtry, <i>ExxonMobil IT/IT Strategy/Architecture & Technology</i> Learning objective: Gain insight from operating company discussions on their use of VR for turnaround planning, maintenance planning, and operator training.	Refining Case Studies on Leveraging Data Analysis and Reporting Tools for Decision Making SPEAKERS: Miguel F. G. Sison, <i>Senior Reliability Engineer, Chevron Corporation USA</i> , Dan Oliveira, <i>Process Safety, Flint Hills Resources</i> and Representative, <i>Maintenance, Flint Hills Resources</i> Learning objective: Leverage domain knowledge to help develop and create “easy-to-use” applications without requiring software coding/programming knowledge from existing data. Demonstration of tools will be provided.	Applying Now to the Future: Technology Lessons Learned from the Pandemic FACILITATORS: Blake Larsen, <i>Sinclair Oil Corporation</i> and Stephanie Franklin-Thomas, <i>Motiva Enterprises</i> Learning objective: Learn how to apply cyber and OT industry best practices from COVID-19 response to potential future emergency situations and the “new normal.”	Wireless Instrumentation Technology for Refining and Petrochemical Operations FACILITATORS: Atique Malik, <i>Phillips 66</i> and Tim Olsen, <i>Emerson Automation Solutions</i> SPEAKERS: Paul Bird, <i>John Gusewelle</i> and Shahid Bashir, <i>Phillips 66</i>
12:45 p.m. EDT (60 min.)	Crude to Chemicals — The Reality vs. Perception FACILITATORS: Eric Legare, <i>Marathon Petroleum Corporation</i> and Robert Ohmes, <i>Becht Engineering</i> SPEAKERS: Anne Huber, <i>Argus</i> and Keith Couch, <i>Honeywell UOP</i> Learning objectives: Gain insight into market drivers that are encouraging refiners to examine a departure from traditional fuels production to chemical production. Gather information on process technologies that enable conversion of fuels stream to chemical products and understand what options currently exist to begin transforming your facility now.	Workforce Training and Knowledge Retention FACILITATOR: Adam Ali, <i>AFPM</i> SPEAKER: Juan Hurtado, <i>BASF Corporation</i> Learning objective: Gain insights from flexible training options tailored to complement your educational needs.	Ten Years of Advancing Process Safety — Industry Tools SPEAKERS: Ryan Wong, <i>Exxon Mobil Corporation</i> and Shanahan Mondal, <i>CVR Energy</i> Learning objective: Learn how your company can leverage the AFPM process safety tools to reduce risk. Industry case studies provided.	Return on Investment with Refining and Petrochemical Data FACILITATORS: Vikram Gokhale, <i>Chevron Corporation USA</i> , Sam Lordo, <i>Consultant</i> and Ziad Jawad, <i>Phillips 66</i> SPEAKERS: Yugender Chikkula, <i>Motiva Enterprises</i> , Jacqueline Guobadia, <i>Motiva Enterprises</i> and Krista Novstrup, <i>Seeg Corporation</i> Learning objective: Discover how to set up data to use machine learning for predictive analytics.	Leveraging Company-Wide Learnings to Improve Heater Operations SPEAKER: Joanne Caldwell, <i>Phillips 66 (invited)</i> Learning objective: Case study presented on how company-wide heater trip information was analyzed to help all sites improve safe operations and performance.

DAY 1: TUESDAY, AUGUST 25 cont.

	ROOM 1: PROFITABILITY	ROOM 2: FUTURE OF INDUSTRY	ROOM 3: PRACTICAL TOOLS FOR SITES	ROOM 4: USES OF DATA	ROOM 5: ROUNDTABLES
2:00 p.m. EDT (60 min.)	<p>Renewable Diesel Production — 100% and Co-Processing Options for Refiners</p> <p>FACILITATORS: Eric Legare, Marathon Petroleum Corporation and Robert Ohmes, Becht Engineering</p> <p>SPEAKERS: Henrik Rasmussen and Jostein Gabrielsen, Haldor Topsoe</p> <p>Learning objectives: Gain insight on 100% renewable diesel production flowsheets, main equipment and process considerations. Learn about co-processing renewable diesel production flowsheets, main equipment, and process considerations.</p>	<p>Exploring Challenges in the U.S. Refining Sector</p> <p>FACILITATORS: CJ Farley, G.W. Aru, LLC and Mike Mitzner, Axens North America</p> <p>SPEAKER: John Auers, Turner Mason & Company</p> <p>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.</p>	<p>Human Organizational Performance (HOP)</p> <p>FACILITATOR: Abbas Dhalla, Chevron Corporation USA</p> <p>SPEAKERS: Sahika Korkmaz and Chelsea Miller, Chevron Corporation USA and Representative, Flint Hills Resources</p> <p>Learning objective: Discussion on company applications of HOP, achieved benefits, and case-study examples.</p>	<p>Update on API RP 751, Safe Operation of Hydrofluoric Acid Alkylation Units Section 6 Inspection and Maintenance</p> <p>SPEAKER: Monica Plowman, HollyFrontier Corporation</p> <p>Learning objective: Update on Section 6, of API RP 751, Rev 5 — Inspection and Maintenance.</p>	<p>Roundtable: FCC Turnaround Safety</p> <p>FACILITATOR: Richard Grove, Chevron Corporation USA</p> <p>PANEL: John Kite, Chevron Corporation USA and Andrew Mezera, Valero Energy Corporation</p> <p>Discussion summary: FCC Turnaround Safety — Shutdown and Clean up, Maintenance Execution, and Restart</p>
3:15 p.m. EDT (60 min.)	<p>Storytelling Using Data Science</p> <p>FACILITATORS: Robert Ohmes, Becht Engineering and Eric Legare, Marathon Petroleum Corporation</p> <p>SPEAKER: Adam Richards, Galvanize, Inc.</p> <p>Learning objectives:</p> <ul style="list-style-type: none"> 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 	<p>Understanding Digital Process Monitoring in Refineries Through Connect'In™: A Case-Study Approach</p> <p>SPEAKERS: Montri Vichailak, Marathon Petroleum Corporation and Nandita Akunuri, Axens North America</p> <p>Learning objective: Case studies on how refiners and catalyst vendors can work together through process monitoring tools to maximize unit performance and troubleshoot.</p>	<p>AFPM Walk the Line Practice Share Program</p> <p>FACILITATOR: Andy Woods, CPChem</p> <p>SPEAKERS: Tjokro Hermanto, AmSty and Mike Shivers, CVR Energy</p> <p>Learning objectives:</p> <ul style="list-style-type: none"> 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 	<p>Real-Time Crude Oil Data for Refinery Decision Making</p> <p>FACILITATOR: Bill Poe, AVEVA</p> <p>SPEAKER: Alex Woods, AVEVA</p> <p>Learning objective: Understand the impact of timely and high-quality crude oil knowledge on purchasing and planning decisions.</p>	<p>Introduction to the 4 Disciplines of Execution</p> <p>SPEAKER: Representative, Franklin Covey</p> <p>Learning objective: Foster a culture of getting the most important things done. This session with help you achieve high-quality implementation in the shortest possible time and create maximum leader and team engagement with minimum disruption to business operations.</p>
	ROOM 1: CRUDE/COKING	ROOM 2: FCC	ROOM 3: HYDROPROCESSING	ROOM 4: GASOLINE PROCESSING	ROOM 5: CONNECTED WORKER
4:30 p.m. EDT (90 min.)	<p>Roundtable: Reliability and Maintenance</p> <p>SPEAKERS: TBD</p> <p>Learning objective: TBD</p>	<p>FCC 101: FCCU Pressure Balance Fundamentals</p> <p>FACILITATOR: David Hunt, W.R. Grace & Co.</p> <p>SPEAKER: Drey Holder, W.R. Grace & Co.</p> <p>Learning objective: Gain a better understanding of how pressure balance is related to standpipe aeration, circulation, slide valves, and reactor and regenerator pressures.</p>	<p>The How and Why of Hydroprocessing Safety Systems</p> <p>FACILITATORS: Wendy Wildenberg, Flint Hills Resources and Ken Chlapik, Johnson Matthey</p> <p>Learning objectives: Discussion topics include: Lessons learned from incidents, temperature excursion, LOPA, instrumentation, SIS, relief design.</p>	<p>Increased Octane Demand — Investment Strategy for the Future (Traditional Technologies vs. Emerging Technologies)</p> <p>SPEAKER: TBD</p> <p>Learning objective: Learn how increased octane demand is driving investment strategies in facilities.</p>	<p>Connected Worker</p> <p>FACILITATOR: Rebecca Bourg, PBF Energy</p> <p>PANELISTS: Representative, Irving Oil (invited), Jordan Oligmueller, AdvanSix and Ben Way, Phillips 66</p> <p>Learning objective: Panel discussion on different operating companies, approach to implementing a connected worker program.</p>

DAY 2: WEDNESDAY, AUGUST 26

	ROOM 2: CRUDE/COKING	ROOM 3: FCC	ROOM 4: MECHANICAL INTEGRITY	ROOM 5: MAINTENANCE
10:00 a.m. EDT (90 min.)	<p>Crude and Coking Town Hall</p> <p>FACILITATORS: Sam Lordo, <i>Consultant</i> and Harold Eggert, <i>Athlon, A Halliburton Service</i></p> <p>Topics include:</p> <ul style="list-style-type: none"> • Selection criteria for opportunity or new crudes • Crude compatibility • COVID-19 impacts on refinery operation 	<p>Current Refractory Experiences: Failure Mechanisms, New Technology, and Best Practices</p> <p>FACILITATORS: Ziad Jawad, <i>Phillips 66</i> and Marc Secretan, <i>Suncor Energy</i></p>	<p>Roundtable and Case-Study Session: Integrity Operating Windows</p> <p>FACILITATORS: John Reynolds, <i>Intertek Asset Integrity Management</i> and Chad Patschke, <i>Ethos Mechanical Integrity</i></p> <p>Learning objectives: Discussion of IOW implementation, ongoing management and sustainability, and review of IOW white paper and other resources.</p>	<p>Routine Maintenance Planning & Scheduling — Best Practices to Improve Craft Work Productivity</p> <p>FACILITATORS: Clayton Shoemaker, <i>Valero Energy Corporation</i> and Abbas Dhalla, <i>Chevron Corporation USA</i></p> <p>SPEAKER: Joel Levitt, <i>Springfield Resources</i></p> <p>Learning objective: Recognize routine job planning and KPIs.</p>
11:45 a.m. EDT (90 min.)	<p>Panel Discussion: Monitoring and Improving Equipment Operations</p> <p>FACILITATORS: Maureen Price, <i>Fluor Corporation</i> and Sam Lordo, <i>Consultant</i></p> <p>SPEAKERS: Garry Jacobs and Jesus Cabrera, <i>Fluor Corporation</i> and Representative, <i>Operating Company</i></p> <p>SESSION ONE: Performance Benchmarking — Integrating Reality into Process Modeling</p> <p>SESSION TWO: Control Valves, Pumps, and Instrument Calibration</p>	<p>Optimization of the FCC at Lower Feed Rates Turbulent Markets — Getting the Most Out of the FCC during COVID-19</p> <p>FACILITATOR: Darin Foote, <i>CHS</i></p> <p>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.</p>	<p>Digital Transformation: Case Studies on Developing Programs at Your Companies</p> <p>FACILITATOR: Bruce Taylor, <i>Sinclair Oil Corporation</i></p> <p>SPEAKERS: Douglas White, <i>Emerson Automation Solutions</i> and Todd Dixon, <i>Marathon Petroleum Corporation (invited)</i></p> <p>Learning objective: Case studies will be provided from an operating company and solution provider perspective on how to develop and execute a digital transformation program at your company.</p>	<p>Roundtable: Turnaround Planning and Execution, Scope, and Safety</p> <p>FACILITATORS: Hardy Kemp, <i>Flint Hills Resources</i> and Gerard Celestine, <i>Motiva Enterprises</i></p> <p>Learning objective: Roundtable discussion on a variety of turnaround topics.</p>

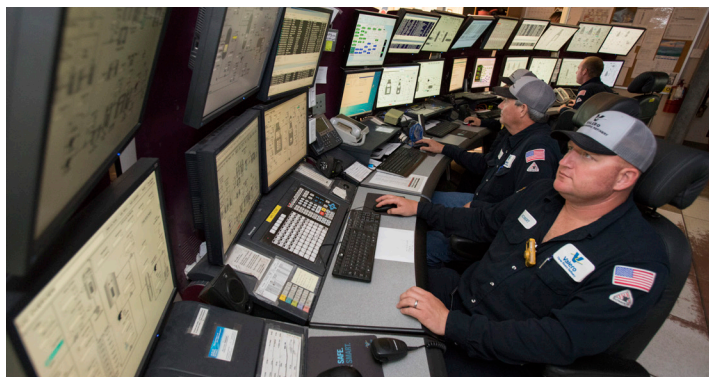


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DAY 2: WEDNESDAY, AUGUST 26 cont.

	ROOM 2: GASOLINE PROCESSING	ROOM 3: HYDROPROCESSING	ROOM 4: MACHINE LEARNING	ROOM 5: EMERGING LEADERS
1:30 p.m. EDT (45 min.)	<p>Lessons Learned: PES Incident</p> <p>SPEAKER: Lauren Grimm, <i>Chemical Safety Board</i></p>	<p>Unloading Your Reactor: A Primer</p> <p>FACILITATORS: Christy Anderson, <i>Albemarle Corporation</i>, Sergio Robledo, <i>Haldor Topsoe</i> and Brian Watkins, <i>Advanced Refining Technologies</i></p> <p>SPEAKERS: Alfredo Romero, <i>Eurecat U.S. Incorporated</i> and Danny Kurtz, <i>Cat-Spec, Ltd.</i></p> <p>Learning objective: Understanding available technology options and planning implications.</p>	<p>Preventative Maintenance Reliability and Machine Learning</p> <p>SPEAKERS: General Edward Dorman, <i>US Army</i> and Cheryl Wiebe, <i>Teradata</i></p>	<p>Emerging Leaders</p> <p>FACILITATORS: Liz Manning, <i>LyondellBasell Industries</i> and Adam Ali, <i>AFPM</i></p> <p>Learning objective: Gain insight from practicable leadership practices for young professionals of 5–15 years' experience and beyond.</p>
2:30 p.m. EDT (45 min.)	<p>Alkylation Unit Risk Management</p> <p>FACILITATORS: Christy Anderson, <i>Albemarle Corporation</i>, Sergio Robledo, <i>Haldor Topsoe</i> and Brian Watkins, <i>Advanced Refining Technologies</i></p> <p>SPEAKERS: Tim Shepperd, <i>Becht Engineering</i>, Jon Keuler, <i>Honeywell UOP</i> and Gary Kemeny, <i>PBF Energy</i></p> <p>Learning objective: Gain insight from recent risk reduction strategies being evaluated for alkylation units.</p>	<p>Effective Catalyst Selection Strategies</p> <p>FACILITATORS: Christy Anderson, <i>Albemarle Corporation</i>, Sergio Robledo, <i>Haldor Topsoe</i> and Brian Watkins, <i>Advanced Refining Technologies</i></p> <p>SPEAKERS: Rahul Singh, <i>Haldor Topsoe</i> and Steve Aycox, <i>Albemarle Corporation</i></p>	<p>Deep Learning/Machine Learning with APC and Online Optimization</p> <p>FACILITATOR: Atique Malik, <i>Phillips 66</i></p> <p>SPEAKERS: Yugender Chikkula, <i>Motiva Enterprises</i>, Dave Seiver, <i>Valero Energy Corporation</i>, Sriram Ramaganesam, <i>Phillips 66</i>, Darrin Feather, <i>Phillips 66</i> and Alberto Bemporad, <i>ODYS Srl</i></p> <p>Learning objective: Gain insight from reported and verified benefits as well as verification procedures.</p>	
3:30 p.m. EDT (90 min.)	<p>Gasoline Processing Town Hall</p> <p>Learning objective: Unique challenges around preparation for TA of gasoline units with recent regulation updates.</p> <p>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.</p>	<p>Turnaround Scope Development 101</p> <p>SPEAKERS: Joe Rydberg, <i>Citgo Petroleum Corporation</i>, Hardy Kemp, <i>Flint Hills Resources</i>, Bob Steinberg, <i>Motiva Enterprises</i> and Bobby Vichich, <i>RTI - Cruz Alta</i></p> <p>Topics Include:</p> <ul style="list-style-type: none"> • Overview of turnaround scope development process • Process engineer interface in determining scope and critical path • Shutdown and decontamination • Discovery scope of work • Commissioning Startup (CSU) 	<p>Improve Decision Making with Improved Mass Balance</p> <p>FACILITATOR: Bill Poe, <i>AVEVA</i></p> <p>SPEAKER: Julie Valentine, <i>Emerson Automation Solutions</i>, Bill Fairleigh, <i>KBC Advanced Technologies</i> and Elizabeth Swinney, <i>Chevron Corporation USA</i></p> <p>Learning objective: Understand how data integrity impacts financial performance of operating units.</p>	
4:30 p.m. EDT (60 min.)	<p>ROOM 1: Diversity and Inclusion</p> <p>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.</p>			



DAY 3: THURSDAY, AUGUST 27

10:00 a.m. EDT (60 min.)					
ROOM 1: It's a Wrap! Join our thought leaders and subject matter experts in a wrap up of the 2020 Summit's top takeaways.					
	ROOM 1: CRUDE/COKING	ROOM 2: HYDROPROCESSING	ROOM 3: MAINTENANCE AND RELIABILITY ROUNDTABLES	ROOM 4: LEVERAGING DATA FOR ANALYTICS	ROOM 5: AUTOMATION TECHNOLOGY INTEGRATION
11:00 a.m. EDT (90 min.)	<p>Coking Lessons Learned and Troubleshooting</p> <p>FACILITATOR: Raul Romero, <i>NALCO Water</i></p> <p>PANELISTS: Mitch Moloney, <i>Becht Engineering</i> and Al Faegh, <i>McDermott-Lummus</i></p> <p>Topics:</p> <ul style="list-style-type: none"> Best practices for DCU furnace design and operation, like burner types, operation and maintenance and other related to furnaces Impact of different feed qualities on product yield and coke morphology Optimizing drum cycle to increase feed: drum quenching at different water rate (reliability/safety implications), steam stripping, coke cutting, etc. 	<p>Increasing Hydrocracker Profitability without Capital Investment</p> <p>FACILITATOR: Andy Moreland, <i>Valero Energy Corporation</i></p> <p>Learning objective: Gain insight from an overview of hydrocracking profitability opportunities.</p>	<p>Roundtable: Wireless Technology</p> <p>FACILITATORS: Hardy Kemp, <i>Flint Hills Resources</i> and Jimmy Jernigan, <i>LyondellBasell Industries</i></p>	<p>Dynamic Real-Time Optimization for Value Sustainment: The Same Silos Are Not Going to Cut It</p> <p>FACILITATOR: Tim Olsen, <i>Emerson Automation Solutions</i></p> <p>SPEAKER: Brian Burgio, <i>KBC Advanced Technologies</i></p> <p>Learning objective: Identify siloed human interactions that significantly negate the benefits of technological advances.</p>	<p>Comprehensive Blend Optimization and Analyzer Performance Monitoring</p> <p>FACILITATOR: Bill Poe, <i>AVEVA</i></p> <p>SPEAKER: Eric Gildea, <i>AVEVA</i></p> <p>Learning objective: Know the latest developments in blending and analyzer performance monitoring technologies.</p>
12:45 p.m. EDT (60 min.)	<p>Crude Lessons Learned and Troubleshooting</p> <p>FACILITATOR: Jeff Zurlo, <i>SUEZ Water Technologies & Solutions</i></p> <p>PANELISTS: Ken Thomas, <i>PBF</i> and Harold Eggert, <i>Athlon, A Halliburton Service</i></p> <p>Topics:</p> <ul style="list-style-type: none"> Maximizing asset value Trouble from outside unit battery Troubleshooting exercises 	<p>Regulatory Compliance: Perception vs. Reality Session</p> <p>FACILITATOR: Robert Ohmes, <i>Becht Engineering</i></p>	<p>Roundtable: Asset Strategy Optimization</p>	<p>Using Data Visualization and Advanced Analytics Methods for Troubleshooting Column Flooding Events</p> <p>SPEAKER: Jose Bird, <i>Valero Energy Corporation</i></p> <p>Learning objective: Employ advanced analytics methods to identify operating conditions prior to and during a process unit event.</p>	
	ROOM 1: GASOLINE PROCESSING	ROOM 2: FCC	ROOM 3: MAINTENANCE AND RELIABILITY ROUNDTABLES	ROOM 4: LEVERAGING DATA FOR ANALYTICS	
2:00 p.m. EDT (45 min.)	<p>BenzOUT™ — A Commercially Proven Process for Benzene Reduction and Maximum Reformate Octane Barrels for Gasoline Blending</p> <p>SPEAKERS: Jennifer Muir, <i>TechnipFMC</i> and Erik Moy, <i>TechnipFMC</i> and Terry Helton, <i>Exxon Mobil Corporation</i></p> <p>Learning objective: Discover changing drivers for MSAT-2 compliance.</p>	<p>Equipment Fundamentals and Maintenance — Catalyst Slide Valves, Flue Gas Slide Valves, Orifice Chambers, and Variable Orifice Valves</p> <p>FACILITATOR: Matt Wojtowicz, <i>Honeywell UOP</i></p> <p>Learning objective: Design basics, maintenance, health monitoring, impact on process safety, calibration, decision strategy regarding repair.</p>	<p>Improving Machinery Reliability — Defect Elimination: Tools for Today and Tomorrow</p> <p>FACILITATORS: Scott Hinds, <i>Marathon Petroleum Corporation</i> and Jimmy Jernigan, <i>LyondellBasell Industries</i></p> <p>SPEAKER: Ian McKinnon, <i>Reliability Solutions</i></p> <p>Learning objective: Evaluate how captured data can determine how work is executed on the floor with applicable demonstration.</p>	<p>Smart Manufacturing Platform and Its Application to Equipment Monitoring</p> <p>FACILITATOR: Tim Olsen, <i>Emerson Automation Solutions</i></p> <p>SPEAKERS: Jesus Flores-Cerillo, <i>Praxair</i> and Pete Sharpe, <i>Emerson Automation Solutions</i></p> <p>Learning objective: Establish selection of monitored equipment, wireless sensors scope, and field implementation learnings.</p>	

DAY 3: THURSDAY, AUGUST 27 cont.

	ROOM 1: GASOLINE PROCESSING	ROOM 2: FCC	ROOM 3: MAINTENANCE AND RELIABILITY ROUNDTABLES	ROOM 4: LEVERAGING DATA FOR ANALYTICS	ROOM 5: MECHANICAL INTEGRITY
3:00 p.m. EDT (45 min.)	<p>Naptha Reforming Unit Reliability</p> <p>SPEAKERS: Russ Wiltse, Valero Energy Corporation, Matthew Hitchinson, Axens North America and Steve Philoon, Honeywell UOP</p> <p>Learning objective: Discuss current issues with regard to reliability and approaches to manage them in aging units and higher maintenance equipment in UOP units.</p>	<p>FCC 201: Operational Changes with FCC Model Runs (with FCCSim)</p> <p>FACILITATOR: Lee Wells, LyondellBasell Industries</p> <p>SPEAKER: Paul Haugseth, KBC Advanced Technologies</p> <p>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.</p>	<p>Flange Assembly Demonstration Unit</p> <p>FACILITATOR: Scott Hinds, Marathon Petroleum Corporation</p> <p>SPEAKER: John Jenco, Jjenco, Inc.</p> <p>Learning objective: Demonstration, training, and best practices discussion.</p>	<p>Industrial Autonomy in the Process Industries</p> <p>SPEAKER: Thomas Fiske, Yokogawa</p> <p>Learning objective: Identify industrial autonomy and how it is different from automation.</p>	<p>Introduction to Mechanical Integrity Regional Networks</p>
4:00 p.m. EDT (45 min.)	<p>Gasoline Molecular Management</p> <p>SPEAKERS: Andrew Becker, Burns & McDonnell and Randy Petersen, Dupont Stratco</p> <p>Learning objective: Gain in-depth knowledge on implication of composition on optimal naphtha separation.</p>	<p>FCC Catalyst Withdrawal Line Reliability</p> <p>FACILITATOR: Chris Oliver, Chevron Corporation USA</p> <p>Learning objective: Identify recommended practices for effective operation, monitoring, and turnaround maintenance activities.</p>			
	ROOM 1: QA TRANSCRIPTS	ROOM 2: FCC	ROOM 3: HYDROPROCESSING		
5:00 p.m. EDT (45 min.)	<p>AFPM QA Transcript Database Tutorial</p> <p>SPEAKER: Representative, AFPM</p> <p>Learning objectives: Learn how to access and use one of AFPM's newest technical resources, the QA transcript online search. Access discussions from the past several years of Question and Answer sessions online.</p>	<p>ASK THE EXPERT: FCC SME Q&A Panel Topic — FCC Catalyst</p> <p>Hot Topics: Latest Developments and Advances</p> <p>FACILITATORS: Steve Gim, BASF Corporation and C.J. Farley, G.W. Aru, LLC</p>	<p>ASK THE EXPERT: Hydroprocessing SME Q&A Panel</p> <p>FACILITATOR: Sravan Pappu, Crystaphase</p> <p>PANELISTS: Andy Moreland, Valero Energy Corporation, Wendy Wildenberg, Flint Hills Resources, Jay Parekh, Chevron Corporation USA, Paul Zimmerman, Honeywell UOP and Representative, Catalyst Company</p> <p>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.</p>		



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

PRE-RECORDED SESSIONS

Gain access to a library of sessions covering a wide range of topics. The videos will remain available on-demand through the end of November.

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: Chad Perrott and Padmini Lingaraju, *ExxonMobil Chemical Co.* and David Leach, *Albemarle Corporation*

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

- Learn how users are given access to state-of-the-art hydroprocessing catalysts and the vast experience in catalyst load optimization
- Learn how distillate hydrotreaters and LCO/VGO hydrocrackers' catalyst yields exceptional returns

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

INVITED SPEAKERS: CBI and 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

INVITED SPEAKER: Megha Shukla, *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



PROGRAMS & 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.

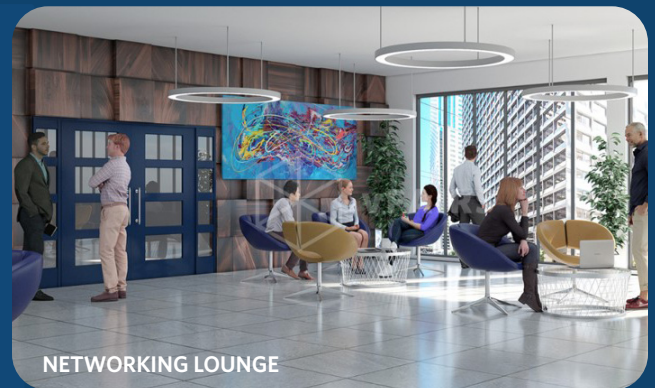
WOMEN IN INDUSTRY

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.

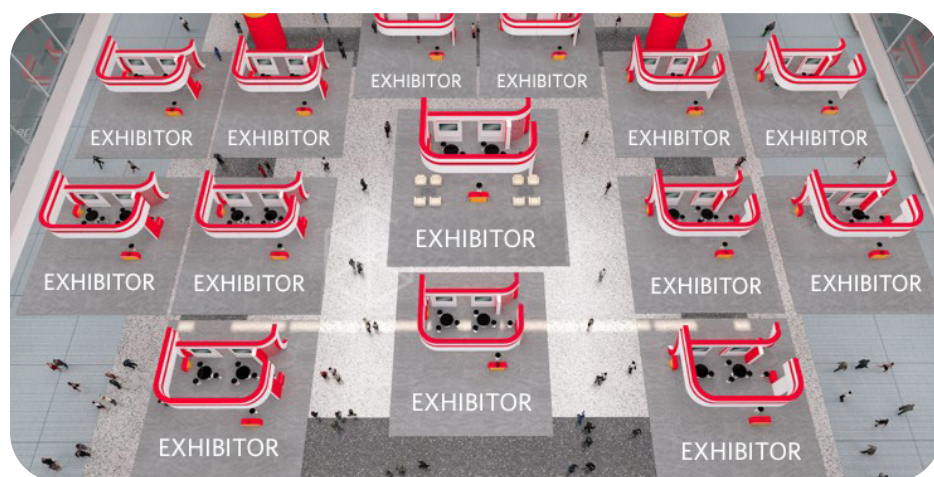
VISIT THE VIRTUAL EXHIBIT HALL

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
AltairStrickland/Diamond Refractory
Athlon, a Halliburton Service
AVEVA
BASF Corporation
Becht Engineering Co., Inc.
BrandSafway
Carolina Filters, Inc.
Catalyst & Chemical Containers
Chem32 LLC
Clean As New
ClearSign Technologies Corporation
The Colt Group
CPFD LLC
Dehumidification Technologies, Inc.
Delta Tech Service, Inc.
DeltaValve USA
Dorf Ketal Chemicals, LLC
Dynamics Scientific Production Center USA, Inc.
The Equity Engineering Group
Eurecat U.S. Incorporated
Everlasting Valve
Gulfspan Industrial, LLC
Haldor Topsoe, Inc.
Hason Steel Products, Inc.
HCpect
IMI Z&J
Industrial Degauss LLC
Integrated Global Services, Inc.
J.J. White, Inc.
JCL Safety Services



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.

KBC Advanced Technologies, Inc.
KnightHawk Engineering, Inc.
Koch-Glitsch LP
Matrix Service
MISTRAS Group, Inc.
Ohmstede
ParFab Companies
Performance Mechanical
Petroval S.A.
PK Companies
Refractory Construction Services Co., LLC
Repron/TWS
Resco Products, Inc.
Sabin Metal 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

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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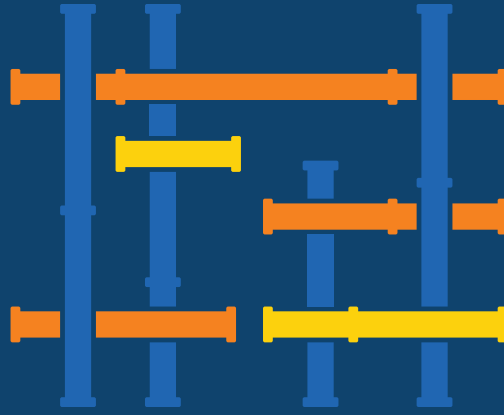
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August 25 - 27, 2020



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