



# 2024 AFPM **SUMMIT**

Excellence in Plant Performance

Advanced Program

Oct 15 - 17, 2024  
Hyatt Regency  
New Orleans, LA

[afpm.org/events](https://afpm.org/events)



#AFPMSummit

# Learn and Connect at the Summit!

## The 2024 AFPM Summit: Excellence in Plant Performance is right around the corner!

The Summit delivers world-class technical sessions dedicated to improving plant-wide performance in the refining and petrochemical industries. Join and network with dedicated industry subject matter experts to discover the latest strategies and emerging innovations, and find immediate solutions to implement at the site level. With over 70 sessions, we guarantee to deliver the curriculum you need to succeed.



## Who Should Attend?

- Technical Managers
- Process Engineers
- Reliability Leaders
- Operations Managers
- Maintenance Leaders
- Process Control Leads
- Maintenance Contractors
- Technical Licensors
- Turnaround Planning Managers
- Optimization Managers
- Digital Transformation Change Agents
- Emerging Leaders
- Mechanical Integrity Engineers
- Process Safety Managers

## Why Should You Attend?

- Network with leading experts in your field
- Explore innovative solutions to technical challenges
- Learn about operationalizing emerging technologies and actionable solutions
- Come together to celebrate our industry's achievements
- Connect with your customers
- Collaborate with your peers

## Register Today!



Excellence in Plant Performance

Join over 1,400 of our industries' brightest technical minds. Take advantage of numerous technical sessions and priceless networking opportunities. Sign up today!

# Sponsored Content and HUB Room Content

Sponsored Content and HUB Room Content supplements AFPM programming on technological advances across our industries.

Companies that sponsor the Summit and/or purchase HUB Meeting Rooms have the opportunity to contribute to the educational content of the Summit by offering education sessions, case study presentations or video demonstrations.

This is your time to shine and promote your latest projects. For inquiries, please contact Latoya Britt or Katharine Nesslage at [summit@afpm.org](mailto:summit@afpm.org).  
**Apply here.**



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## Maintenance & Reliability Bootcamp

What Every Maintenance and Reliability Engineer Should Know

October 15th Afternoon Sessions

- Differentiating Maintenance and Reliability Engineers: Understanding their distinct roles and focus areas.
- Troubleshooting Exercises: Engaging activities to enhance problem-solving skills.
- Identifying Areas of Potential Trouble: Techniques for spotting potential issues before they escalate.
- Virtual Reality (VR): Exploring maintenance scenarios in immersive environments.
- Quick Event Shares: Brief lessons learned from real-world situations.
- Technology Demos and Discussions: Fired Heater, Winterization, Acrylic Pump

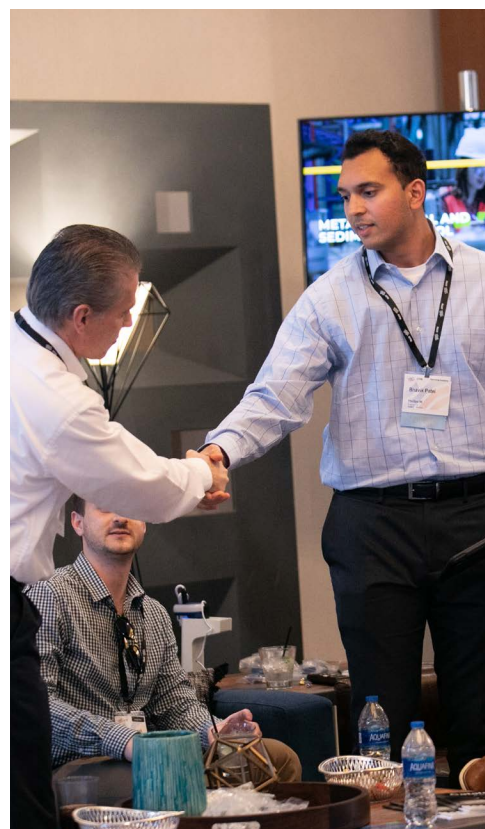


***New to Maintenance or Reliability?***

***Don't Miss This Training.***



## Look who's attending!




# Technical Expertise. Actionable Solutions.

\*Please note: session topics, speakers, and scheduling subject to change

## Monday, October 14

7:00 AM	<b>Helping Heroes Golf Tournament</b> (TPC Louisiana, 11001 Lapalco Blvd, Avondale, LA 70094)
12:00 - 7:00 PM	<b>Registration</b>
2:00 - 4:00 PM	<b>Emerging Leaders Workshop: Leadership Q&amp;A</b>
4:00 - 5:00 PM	<b>Emerging Leaders Networking Event</b>
5:00 - 7:00 PM	<b>Welcome Reception</b>

## Tuesday, October 15

7:00 AM - 6:00 PM	Registration			
7:00 - 8:00 AM	Breakfast in the HUB			
8:00 - 8:30 AM	<div><div></div><div><b>Welcome</b> Chet Thompson, President and CEO, AFPM</div></div>			
8:30 - 9:30 AM	Peter Zeihan, American Geopolitical Analyst			
9:30 - 10:30 AM	World Refining Outlook Panel			
10:30 - 10:45 AM	Break in the HUB			
	Sponsored Content	Lessons Learned	Artificial Intelligence	Maintenance and Reliability Bootcamp
10:45 - 11:30 AM	Diamond Sponsor	<b>CSB BP-Husky Oregon, OH Investigation</b> <i>Bill Steiner, U.S. Chemical Safety Board</i>	<b>AI 101 in Refining and Petrochemicals</b> <i>Brent Railey, Chevron Phillips Chemical Company LP</i>	<b>What Every Maintenance and Reliability Engineer Should Know</b> <i>Representative, Phillips 66</i> <i>Representative, Ergon, Inc.</i>  <i>*This series is designed for new engineers in reliability and maintenance who seek practical technical skills, hands-on experience, and exposure to real-world scenarios.</i>
11:30 - 11:45 AM	Break in the HUB			

Tuesday, October 15 *cont.*

	Sponsored Content	Lessons Learned	Artificial Intelligence/ Safety	Maintenance and Reliability Bootcamp
11:45 AM - 12:30 PM	<b>Diamond Sponsor</b>	Human and Organizational Performance	Prerequisites for Data Collection and Use in Safety Applications  Emily Stewart, Marathon Petroleum Company	Hands on Technology Demonstrations  Representative, Phillips 66 Representative, AFPM
12:30 - 2:00 PM	<b>Lunch in the HUB</b>			
	Sponsored Content	Lessons Learned/ FCC/HF Alky	Leadership	Maintenance and Reliability Bootcamp
2:00 - 2:45 PM	<b>Gold Sponsor</b>	Processing ASO Safety and Impacts Phillips 66 Billings Incident  Ziad Jawad, Phillips 66 Liana Siegel, Marathon Petroleum Corporation	Human Centric Leadership	Compliance vs. Going Beyond the Norm: When You Do Everything Right and It Still Goes Wrong  Larry Webb, Flint Hills Resources LLC
	HUB Room Content	HUB Room Content	HUB Room Content	HUB Room Content
2:45 - 3:00 PM	<b>Break in the HUB</b>			
	Sponsored Content	Lessons Learned/ HF Alky	Training/FCC	Maintenance Bootcamp
3:00 - 3:45 PM	<b>Gold Sponsor</b>	Incident Learning from an Incident Involving an HF Alky	Immersive Learning Simulator Interactive FCC Workshop  Rodney Reeves, CHS Inc. Javier Rios, Honeywell UOP	Motion Amplification  Representative, RDI Technologies
	HUB Room Content	HUB Room Content	HUB Room Content	HUB Room Content
3:45 - 4:00 PM	<b>Break in the HUB</b>			
	Sponsored Content	Lessons Learned	Walk the Line	Maintenance Bootcamp
4:00 - 4:45 PM	<b>Gold Sponsor</b>		Shielding Trust: The Power of Vigilance and Verification  Russell Thompson, Phillips 66 Kacey Lopez, Phillips 66 Audra Higgins, Phillips 66	OPCO Panel Discussion: How Healthy is Your MI Program?  Representative, LyondellBasell Industries Representative, Phillips 66
	HUB Room Content	HUB Room Content	HUB Room Content	HUB Room Content
4:45 - 6:15 PM	<b>Happy Hour in the Hub</b>			

## Wednesday, October 16

7:30 AM - 5:00 PM	Registration					
7:00 - 8:00 AM	Breakfast in the HUB					
	Sustainability	Maintenance	Hydroprocessing	HF Alkylation	Crude/Coking	Optimization/ FCC
8:00 - 8:45 AM	<b>Renewables Q&amp;A - Pt. 1</b>  William Bandy, Marathon Petroleum Corporation; Nathan Jannasch, Chevron U.S.A. Inc. Josh Cross, Valero Energy Corporation Matthew Kawabe, Topsoe, Inc. Delbert Grotewold, Veolia Water Technologies & Solutions	<b>Contractor Panel: Attracting and Keeping Young Engineers in Hard Crafts</b>  Representatives, TBD	<b>Hydroprocessing 101: Catalyst Poisoning</b>  Steve Mayo Eurecat U.S. Incorporated Adrian Azpilicueta, Nalco Water	<b>Incident Sharing/ Lessons Learned</b>  Liana Siegel, Marathon Petroleum Company	<b>Q&amp;A - Pt. 1</b> <b>Panel:</b> Beverly Long, Marathon Petroleum Corporation Sylvain Fontaine, Veolia Water Technologies & Solutions Royce Roemisch, Delek US Bob Graham, HF Sinclair Corporation	<b>FCC Optimization 101: The Path from Process Knowledge to Real Time Optimization via Basic Process Control, APC and RTO</b>  Chuck Johnston, Marathon Petroleum Corporation Ray Coker, Marathon Petroleum Corporation
	HUB Room Content		HUB Room Content			
8:45 - 9:00 AM	Break in the HUB					
	Sustainability/ FCC	Maintenance	Hydroprocessing	HF Alkylation/ Mechanical Integrity	Crude/Coking	Artificial Intelligence
9:00 - 9:45 AM	<b>Renewables Q&amp;A - Pt. 2</b>  William Bandy, Marathon Petroleum Corporation; Nathan Jannasch, Chevron U.S.A. Inc. Josh Cross, Valero Energy Corporation Matthew Kawabe, Topsoe, Inc. Delbert Grotewold, Veolia Water Technologies & Solutions	<b>External Workforce Management: Driving Cost Savings with Your Labor Services</b>  Representative, Motiva Enterprises, LLC	<b>Hydrogen Town Hall</b>  Ken Chlapik, Johnson Matthey Kathy Picioccio, Unicat Catalyst Technologies Ashley Brossette, Valero Energy Corporation	<b>Dead-Legs in HF Alkylation Units</b>  Representative, RP 751 Section 6 Committee	<b>Q&amp;A - Pt. 2</b> <b>Panel:</b> Beverly Long, Marathon Petroleum Corporation Sylvain Fontaine, Veolia Water Technologies & Solutions Royce Roemisch, Delek US Bob Graham, HF Sinclair Corporation	<b>Driving Down Coker Giveaway with AI-Based Process Control</b>  Joe Boyce, Marathon Petroleum Corporation
	HUB Room Content		HUB Room Content			
9:45 - 10:00 AM	Break in the HUB					

Wednesday, October 16 *cont.*

	Sustainability/ FCC	Maintenance	Hydroprocessing	HF Alkylation	Crude	Artificial Intelligence/ Advanced Process Controls
10:00 - 10:45 AM	<b>FCC Process for 100% Vegetable Oil - Trial in a Commercial FCC Unit</b>  <b>Co-processing- Past, Present, and Future Projects</b>  <i>Eamon Cullinane, Turner, Mason &amp; Company</i> <i>Radha Goncalves, Petróleo Brasileiro S/A - PETROBRAS</i>	<b>Materials Management</b>  <i>Andrew Martindale, Motiva Enterprises, LLC</i>	<b>Hydrocracker Profitability</b>  <i>Representative, CITGO Petroleum Corporation</i>	<b>Quantitative Risk Assessment (QRA) 101</b>  <i>Jatin Shah, BakerRisk</i> <i>Liana Siegel, Marathon Petroleum Company</i>	<b>Digital Service for crude blending and desalter operation. Fast Crude Stability and Blend Assessments using Field-deployed Handheld NIR Spectrometer</b>  <i>Steven M. Haley, Phillips 66</i> <i>Graylon Williams, Nalco Water</i>	<b>AI/APC Optimizer Implementation in a Refinery Diesel Pool using Machine Learning Models</b>  <i>Yangdong Pan, Delek US</i>
	HUB Room Content		HUB Room Content			
10:45 - 11:00 AM	Break in the HUB					
	Sustainability/ Gasoline Processes	Mechanical Integrity	Human and Organizational Performance	HF Alkylation	FCC Operability / Reliability	Abnormal Situation Management
11:00 - 11:45 AM	<b>Liquid Organic Hydrogen Carriers: Naphtha's role in the Emerging H2 Economy</b>  <i>Sebastien LeCarpenteier, Axens North America</i> <i>Valentina Di Mauro, Honeywell UOP</i>	<b>Inspection and Reliability of Wash Water Systems</b>		<b>PHA Scenarios: Licensors Safety System Protection Layers for Grassroots Design versus Existing Units</b>  <i>Representative, Honeywell UOP</i>	<b>FCC Headaches - Main Fractionator Bottoms Circuit</b>  <i>Kevin Harkness, Monroe Energy, LLC</i> <i>Dan Harbs, Veolia Water Technologies and Solutions</i>	<b>Collaborating on Highly Managed Alarms Between Operations and Process Safety</b>





Wednesday, October 16 *cont.*

	HUB Room Content		HUB Room Content			
11:45 AM - 1:15 PM	Lunch in the HUB					
	Sustainability	Mechanical Integrity/ Lessons Learned	Training	Gasoline Processes	FCC	Optimization/ Abnormal Situation Management
1:15 - 2:00 PM	<b>Next Generation SAF Technology</b>  Representative, Axens North America Representative, Honeywell UOP Representative, Exxon Mobil Representative, Topsoe, Inc. Representative, Ketjen Corporation Representative, Turner Mason & Co.	<b>Lessons Learned from a Blast Pot Incident</b>  Carlos Diaz, Motiva Enterprises, LLC Josh Gray, Motiva Enterprises, LLC	<b>Immersive VR and eLearning: Interactive Training for the Future Workforce</b>  Tyler Veenstra, Marathon Petroleum Corporation Timothy Chappell, ExxonMobil Corporation Dr. Dick Hannah, Health and Safety Council	<b>Sulfuric Alkylation: Spent Acid Transport Overpressure Lessons Learned</b>  Representative, PEMEX Deer Park Representative, Phillips 66 Randy Peterson, Elsent Clean Technologies	<b>Maximizing Butylene Yields Through Catalyst Decision Evaluating Complex Operational Changes via Modeling and Testing</b>  Patrick McSorley, Ketjen Corporation Grant Severyn, BASF Corporation Nik Larsen, Marathon Petroleum Corporation	<b>Operation Performance Improvements During a Control Room Modernization</b>  Representative, Phillips 66 Dr. Ann Burress, Chevron U.S.A. Inc. Dave Lee, User Centered Design Services Inc. Christi Mezzic, Emerson Automation Solutions
	HUB Room Content		HUB Room Content			
2:00 - 2:15 PM	Break in the HUB					



Wednesday, October 16 *cont.*

	Sustainability	Mechanical Integrity	Crude/Coking	Gasoline Processes/ Safety/Reliability	FCC/ Reliability	Emerging Leaders
2:15 - 3:00 PM	<b>Solar Projects for Refining</b>  <i>Jake Reint, Flint Hills Reesources, LP</i> <i>Stan Carp, CITGO Petroleum Corporation</i> <i>Omar Ahmed, P.E., DEPCOM POWER</i>	<b>Instrumentation/ Electrical/ Analyzers</b>  <i>Nagappan Muthiah, Phillips 66</i>	<b>Townhall:</b> ▪ Hot Oil Isolation ▪ Crude Feed Contaminants ▪ Pyrophorics on Turnaround  <i>Hector Gamboa, CITGO Petroleum Corporation</i> <i>Steve Williams, Marathon Petroleum Corporation</i> <i>Raul Romero, Ecolab</i>	<b>Reforming and Isom Safety and Reliability Q&amp;A Panel</b>  <i>Matt Hutchinson, Axens North America</i> <i>Thomas Porritt, Chevron U.S.A. Inc.</i> <i>Rhett Finch, Marathon Petroleum Corporation</i> <i>Alex Sabitov, Phillips 66</i> <i>Steve Philoon, Honeywell UOP</i> <i>Russ Wiltse, Valero Energy Corporation</i>	<b>Cyclone Reliability and Controlling Erosion in the FCCU</b>  <i>Peter Blaser, CPFD LLC</i> <i>Dennis Kowalczyk, Equilibrium Catalyst, Inc.</i> <i>CJ Farley, TPM Solutions</i>	<b>Skills to Elevate Your Career</b>  <i>Alisha Deshpande, Chevron U.S.A. Inc.</i> <i>Matt Holub, LyondellBasell Industries</i> <i>Breanna Busker, Refined Technologies/ ReNu Technologies</i>
	HUB Room Content		HUB Room Content			
3:00 - 3:15 PM	Break in the HUB					
	Sustainability	Mechanical Integrity/ Fired Heater	Hydroprocessing	Gasoline Processes	FCC	Emerging Leaders
3:15 - 4:00 PM	<b>Sustainability Renewables, Pretreatment and Water Management</b>	<b>Fired Heaters: Designing Operability and Reliability, Along with COOL Technology</b>  <i>Representative, Great Southern Technologies</i>	<b>PHA Reference Scenarios for Hydroprocessing</b>  <i>Joe Slaughter, Chevron U.S.A. Inc.</i>	<b>Consideration for Gasoline Production and Molecular Management / Light Naphtha</b>	<b>FCC Reactor Isolation Valve Panel - How to Justify Unique Problems and Why They are Avoided</b>  <i>Rob Montgomery, Chevron U.S.A. Inc.</i> <i>Bryan Dinkel, Marathon Petroleum Corporation</i> <i>Ziad Jawad, Phillips 66</i>	<b>Skills to Elevate Your Career (continued)</b>  <i>Alisha Deshpande, Chevron U.S.A. Inc.</i> <i>Matt Holub, LyondellBasell Industries</i> <i>Breanna Busker, Refined Technologies/ ReNu Technologies</i>
	HUB Room Content		HUB Room Content			
4:00 - 4:15 PM	Break in the HUB					
4:15 - 6:00 PM	Women in Industry					

## Thursday, October 17

7:30 AM - 12:00 PM	Registration					
8:00 - 9:00 AM	<b>Breakfast in the HUB</b>					
	<b>Coking</b>	<b>Gasline Processes</b>	<b>Hydroprocessing/ Maintenance/ Reliability</b>	<b>FCC</b>	<b>Digital Transformation</b>	<b>Turnaround- Scoping</b>
9:00 - 9:45 AM	<b>Optimize Throughput by Eliminating Atmospheric Foulants on Air-Cooled Heat Exchangers</b>  Shannon McAvoy, Refined Technologies/ ReNu Technologies William Radenberg, HF Sinclair Corporation	<b>Naphtha Hydrotreating Case Study</b>  Sidra Roman, Axens	<b>Equipment Evaluation</b>  Matt Jones, Chevron U.S.A. Inc.	<b>FCC Safety Game Show</b>  Richard Grove, Chevron U.S.A. Inc. Chuck Novak, Ketjen Corporation Clint Cooper, W. R. Grace & Co.	<b>Digital Transformation of Crude Supply, Planning, and Scheduling</b>  Representative, Parkland Refining (B.C.) Ltd.	<b>OPCO Panel: Good Ways to Get a Quality Turnaround Worklist</b>  Mike Dehart, Valero Energy Corporation Andrew Jakubowski, Flint Hills Resources, LLC Casey Long, Flint Hills Resources, LLC James Mendler, Chevron Phillips Chemical Company LP
9:45-10:00 AM	<b>Break in the HUB</b>					
	<b>Coking/ Fired Heater</b>	<b>Gasline Processes</b>	<b>Hydroprocessing</b>	<b>FCC 101</b>	<b>Digital Transformation</b>	<b>Turnaround- Planning</b>
10:00 - 10:45 AM	<b>Coker/Heater Maximizing Efficiency &amp; Health</b>  Representative, Becht	<b>Process Monitoring: A Tiered Approach</b>  Thomas Porritt, Chevron U.S.A. Inc.	<b>Q&amp;A Panel - Pt. 1</b>  Scott McArthur, Phillips 66 Jake Coleman, Chevron U.S.A. Inc. Andy Chen, PBF Energy Inc. Representative, Topsoe, Inc.	<b>Case Studies - Cold Weather and Where did the Level Go?</b>  David Hunt, W. R. Grace & Co. Derek Froehle, Honeywell UOP	<b>Connected Worker: Maximizing Worker Awareness, Engagement, and Contribution</b>	<b>Good Practices for Desirable Event Readiness: Core Team, Steering Team and Strategy Team</b>  Mike DeHart, Valero Energy Corporation Andrew Jakubowski, Flint Hills Resources, LLC Casey Long, Flint Hills Resources, LLC James Mendler, Chevron Phillips Chemical Company LP
10:45 - 11:00 AM	<b>Break in the HUB</b>					

## Thursday, October 17 *cont.*

	Coking	Gasoline Processes/ Fired Heater	Hydroprocessing	FCC	Artificial Intelligence	Turnaround-Execution
11:00 AM - 12:00 PM	<b>Crude Desalting Innovation</b>  <i>Representative, Veolia Water Technologies &amp; Solutions</i> <i>Representative, CHS Inc.</i>	<b>Reformer Fired Heaters Optimization</b>  <i>Joong Yang, Chevron U.S.A. Inc.</i> <i>Representative, Axens North America</i>	<b>Q&amp;A Panel - Pt. 2</b>  <i>Scott McArthur, Phillips 66</i> <i>Jake Coleman, Chevron U.S.A. Inc.</i> <i>Andy Chen, PBF Energy Inc.</i> <i>Representative, Topsoe, Inc.</i>	<b>Ask 'SME' Anything</b>  <i>Bill Wilson, Houston Fuel Oil Terminal Company</i> <i>Steve Shimoda, Technip Energies</i> <i>Richard Grove, Chevron U.S.A. Inc.</i> <i>Nik Larsen, Marathon Petroleum Corporation</i> <i>Representative, W. R. Grace &amp; Co.</i>	<b>AI 102: The Role of Generative AI and Reinforcement Learning in Refinery and Chemical Plant Operations</b>  <i>Brent Railey, Chevron Phillips Chemical Company LP</i>	<b>A Small Refinery Doing Big Things: Monroe Energy's FCC Reactor Replacement Project, Fall 2023</b>  <i>Drake Wilson, Monroe Energy, LLC</i> <i>Piotr Majcher, Monroe Energy, LLC</i> <i>Kevin Harkness, Monroe Energy, LLC</i>





# Spotlight: Emerging Leaders

Meet, learn and network with other emerging leaders, like-minded peers, and industry leaders.

An event you won't want to miss.

Contact Robina Ahmed at [rahmed@afpm.org](mailto:rahmed@afpm.org) to submit your emerging leader for this exciting program.

## Hours

Monday, October 14  
2:00 PM - 7:00 PM CDT  
Tuesday, October 15  
8:00 AM - 6:15 PM CDT  
Wednesday, October 16  
8:00 AM - 6:00 PM CDT  
Thursday, October 17  
9:00 AM - 12:00 PM CDT

## Presentation of the Lifetime Service Award

Learn from and recognize two leaders for the outstanding contributions they've made to AFPM and the industries they represent

### Monday, October 14

2:00 - 4:00 PM  
Emerging Leader Workshop: Leadership Q&A

4:00 - 5:00 PM  
Emerging Leader Networking Reception

### Wednesday, October 16

2:15 - 3:00 PM and 3:15 - 4:00 PM  
Leadership Panel: Emerging Leaders

## Highlights:



Join us for WINI!

### Women in Industry

An AFPM event for women by women. Attendees take advantage of opportunities to Engage, Learn, Connect.

### Wednesday, October 16

4:15 - 6:00 PM

### AFPM Lounge

Learn more about AFPM initiatives and check out immersive learning VR demonstrations. Stop by during your breaks.

- Get Involved!  
AFPM Committees
- Fire Heater VR Demonstration
- Walk the Line and Winterization
- FCC Roadshow Demonstration
- Emerging Leaders Networking
- Engage with EMPOWER
- Q&A Transcript Database Demonstration
- Safety Portal Demonstration
- Engage with Women in Industry

### Sponsored Content Sessions

If you are interested in hosting one of the Sponsored Content Sessions, please contact Latoya Britt for slot availability at [LBritt@afpm.org](mailto:LBritt@afpm.org).

# Join us at the Summit!

Give your brand more visibility through one of our numerous branding and engagement opportunities. Take a look at our Exhibit and Sponsorship Brochure.

## Exhibits

Have additional questions about the exhibits? Please reach out to Katharine Nesslage at [summitexhibits@afpm.org](mailto:summitexhibits@afpm.org) or .202.457.0480. **Apply here.**

## Sponsorships

Have questions or need more information regarding sponsorships? Please reach out to Latoya Britt at [sponsorships@afpm.org](mailto:sponsorships@afpm.org) or .202.457.0480. **Apply here.**

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Oct 15 - 17, 2024  
Hyatt Regency  
New Orleans, LA