



# Operations & Process Technology Summit

Maximizing Your Molecular Advantage

Practical Solutions for Today, Forethought  
for Tomorrow



# Schedule of Events

## Sunday, October 13, 2019

3:30 pm – 6:30 pm Registration  
 4:00 pm – 5:00 pm Student & Emerging Leaders Meetup  
 5:30 pm – 6:30 pm The Summit Welcome Reception

## Monday, October 14, 2019

7:00 am – 6:30 pm Registration  
 7:00 am – 8:00 am New Manager Morning Mixer  
 8:00 am – 8:55 am General Session  
 9:00 am – 10:00 am  
**Concurrent Sessions:**  
 • Cybersecurity  
 • OPCAT  
 • Principles & Practices  
 • Q&A and Discussion Session  
 10:00 am – 10:15 am Coffee Break  
 10:15 am – 12:00 pm **Concurrent Sessions - continued**  
 12:00 pm – 2:00 pm Lunch in Exhibit Hall  
 2:00 pm – 3:30 pm  
**Concurrent Sessions:**  
 • Cybersecurity  
 • OPCAT  
 • Principles & Practices  
 • Q&A and Discussion Session  
 3:30 pm – 3:45 pm Refreshment Break  
 3:45 pm – 5:15 pm Concurrent Sessions - continued  
 5:15 pm – 6:30 pm Reception in Exhibit Hall

## Tuesday, October 15, 2019

7:30 am – 5:00 pm Registration  
 8:00 am – 10:00 am  
**Concurrent Sessions:**  
 • Cybersecurity  
 • Empower  
 • OPCAT  
 • Principles & Practices  
 • Q&A and Discussion Session  
 Coffee Break  
 10:00 am – 10:15 am  
 10:15 am – 12:00 pm  
 12:00 pm – 2:00 pm  
 2:00 pm – 3:30 pm  
**Concurrent Sessions - continued**  
 Lunch in Exhibit Hall  
**Concurrent Sessions:**  
 • OPCAT  
 • Principles & Practices  
 • Q&A and Discussion Session  
 Refreshment Break  
 3:30 pm – 3:45 pm  
 3:45 pm – 5:15 pm  
 5:30 pm – 6:30 pm  
**Concurrent Sessions - continued**  
 Women in Industry Reception  
*Reception open to registered women only*

## Wednesday, October 16, 2019

7:30 am – 10:00 am Registration  
 8:00 am – 9:30 am  
**Concurrent Sessions:**  
 • OPCAT  
 • Principles & Practices  
 Coffee Break  
 9:30 am – 9:45 am  
 9:45 am – 11:00 am  
**Concurrent Sessions - continued**

## Thank you to our sponsors!

### Silver



### Bronze



### Conference Support

**Hydrocarbon Processing**  
 Official Media & Show Daily Sponsor

**DuPont Clean Technologies**  
 Pre-conference Seminar

# Q&A Sessions

Panels of featured industry experts from refining companies and technology providers respond to questions and engage attendees in a discussion of today's tough issues.

## Crude/Vacuum Distillation & Coking Panel

- Maria Aldescu, Consultant, KBC Advanced Technologies, Inc.
- Tim Olsen, Consultant, Emerson Automation Solutions
- Xiomara Price, COE Global Leader – Fouling Control, SUEZ Water Technologies & Solutions
- Raul Romero, Marketing Director, NALCO Champion
- Tim Sawyer, Operations Superintendent, CHS Inc.
- Steve Williams, Crude Vacuum Technologist, Marathon Petroleum Company

## FCC Panel

- Todd Hochheiser, Senior Technical Service Engineer, Johnson Matthey
- Kimberly Odell, Technical Services Manager, Louisiana Refining Division, Marathon Petroleum Company
- Dharmesh Panchal, Principal FCC Technologist, Honeywell UOP
- Ryan Person, TechnipFMC Process Technology
- Michael Wardinsky, Motiva Enterprises, LLC

## Gasoline Processes Panel

- Peter Eckels, Technology Specialist, Honeywell UOP
- Bill Kostka, Senior Technical Advisor – Reforming & Isomerization, Axens North America
- Davinder Mittal, DGM-Operations, HPCL – Mittal Energy Ltd., (HMEL)
- Thomas Porritt, Chevron U.S.A. Inc.
- Abigail Slater, Process Engineer, HollyFrontier Corporation

## FCC Townhall:

### Safeguarding Philosophies and Practices

Attendees will discuss FCC safeguarding philosophies and practices as they are led by a panel of industry experts. Topics include reverse flow mitigation and regenerator flue gas system monitoring. Abnormal situations and training will also be addressed. Polling questions covering these topics will be incorporated into the general meeting and results will be presented and discussed.

## Hydroprocessing Panel

- Christy Anderson, Technical Sales Account Manager, Hydroprocessing Technologies, Albemarle Corporation
- Amit Kelkar, Global Distillate Application Manager, Shell Catalysts & Technologies LP
- Ken Koziol, Senior Key Account Manager-Hydroprocessing Catalyst, Haldor Topsoe, Inc.
- Joseph Rydberg, Process Engineer, CITGO Petroleum Corporation
- Syed Shah, Process Specialist, Hydroprocessing & Renewables Technology Service, Honeywell UOP
- Robert Steinberg, Manager, Hydroprocessing Technology, Motiva Enterprises LLC



Learn what AFPM is doing to empower industry employees to tell the story of our industries and to change the narrative at the EMpower Session.

This session is for those who are looking for practical ways to engage in proactive and constructive conversations with their communities about their company and their industry, a must attend for all industry personnel.

*There will be two repeating sessions Tuesday morning.*

## Principles & Practices Sessions

These discussion-oriented sessions are primarily designed for the engineer whose overall operating experience is 3-15 years.

Four of the P&P sessions complement the information exchange that occurs in the Q&A sessions; the other three P&P sessions address current industry issues. Each of the sessions addresses the fundamentals of good operation and the foundational principles for the technologies that are commonly employed.

These sessions have short presentations followed by a time where attendees can ask further questions or present their own individual problems and benefit from the collective experience of the other attendees.

- Auxiliary Facilities
- Crude/Vacuum Distillation and Coking
- Emerging Leaders Peer-to-Peer Town Hall
- Fluid Catalytic Cracking (FCC)
- Fostering Profitability
- Gasoline Processes
- Hydroprocessing

## Cybersecurity Sessions

Presentations will focus on contemporary cybersecurity topics, including industrial control systems, ransomware, risk management, the industrial internet of things, and supply chain security.

- Stop Auditing and Start Managing Risk (aka "Cyber PHA"), AE Solutions
- The What, Why, and How of IT/OT Convergence, PricewaterhouseCoopers
- Four Steps to Industrial Internet of Things (IIoT) Cybersecurity, Emerson Automation Solutions
- Five OT Cybersecurity Attack Scenarios and How to Defend Against Them, PAS Global
- Considerations for Industrial Internet of Things (IIoT) Cybersecurity, Emerson Automation Solutions
- Cybersecurity and Data Export for Data Analytics and Machine Learning Platforms, Air Products and Chemicals, Inc.

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## Operational Planning, Control & Automation Technologies (OPCAT) Sessions

Technical presentations and Q&A sessions will cover topics in the categories of automation & controls, operations planning & scheduling, and reliability & safety.

- State-Base Control of Vinyl Acetate Mono Production Process Procedure, The Dow Chemical Company and Emerson Automation Solutions
- Maximizing Asset Performance and Availability through Predictive Analytics, AVEVA and Air Liquide Technical Services, LLC
- Town Hall – Wireless within Refining: IT & OT Lessons Learned
- Impact of Refinery Mass Balance and Loss Control on Operational Excellence, YPF S.A.
- Leading-Edge Technology for Profitable Real-Time Tracking and Optimization, KBC Advanced Technologies, Inc. and Chevron U.S.A. Inc.
- Bringing Smart Manufacturing to the Masses, Linde and Emerson Automation Solutions
- A Comprehensive Fired Heater Health Monitoring Program, Quest Integrity USA and Flint Hills Resources, LLC
- Creating Value Using Open Process Automation to Support Digital Transformation, ExxonMobil Research & Engineering Company
- Cloud-Based IIoT Heat Exchanger Optimization Improves Process Performance, Chevron U.S.A. Inc., and Emerson Automation Solutions
- A Case Study in Refinery Process Unit Transformation, Flint Hills Resources, LLC
- Closing the LP and APC Gap with Real-Time Optimization, Exxon Mobil Corporation and AVEVA



## Tabletop Exhibition

Features two lunches and one reception in the exhibit hall, which showcase catalyst, chemical, and technology providers, engineering companies, licensors, and other industry suppliers in one convenient location.

### Exhibitors as of 7/24/19:

ARCOS LLC  
AVEVA  
Air Products and Chemicals, Inc.  
Albemarle Corporation  
Arkema Inc.  
Athlon, A Halliburton Service  
BASF Corporation  
Becht Engineering Co., Inc.  
Catalyst & Chemical Containers  
ChemTreat, Inc.  
Chevron Phillips Chemical Company LP  
ClearSign Combustion Corporation  
Crystaphase  
Dorf Ketal Chemicals, LLC  
DuPont Clean Technologies  
Eurecat U.S. Incorporated  
Haldor Topsoe, Inc.  
Johnson Matthey  
KBC Advanced Technologies, Inc.  
Matheson  
NALCO Champion  
Petroval S.A.  
Porocel International, LLC  
Prosep USA  
Quantum Technical Services  
SUEZ Water Technologies & Solutions  
Saint-Gobain NorPro  
TechnipFMC  
Tracerco  
Vega Americas, Inc.  
W. R. Grace & Co.  
WIKA Instrument, LP  
Wood  
Woven Metal Products

Visit [www.afpm.org](http://www.afpm.org) and click on the meeting to apply to exhibit.

## Networking Opportunities

- **The Summit Welcome Reception** – Join us Sunday evening in a social atmosphere perfect for renewing friendships and making new contacts. An added bonus, AFPM will be releasing more exciting news on what to expect from AFPM in 2020.
- **New Manager Morning Mixer** – Breakfast open to those who have been managers/supervisors for 5 or less years or will become managers/supervisors in the next year.
- **Monday Evening Reception in the Exhibit Hall** – Explore the exhibit hall to learn about the latest products and services while making new and re-connecting with peers in the industry. Lunches Monday and Tuesday are also served in the Exhibit Hall.
- **Women in Industry Reception** – Come share your experiences and make new contacts as we share challenges and solutions unique to women in the hydrocarbon processing industries.
- **Morning Coffee and Afternoon Refreshment Breaks** – Continue the discussion as you grab a drink or snack mid-way through each session.
- **Affiliate Hospitality Functions** – After the AFPM sessions end, visit industry suppliers as they host functions in meeting rooms and suites throughout the hotel. Stop in for a drink, a bite to eat, and entertainment as you learn about solutions and services provided by the host company.

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## The Answer Book

**The Answer Book will be the only record of the Q&A and Discussion Sessions.** AFPM will not be recording any of the sessions. Attendees are encouraged to respond to the selected questions from the Q&A and Discussion Sessions. The Answer Book allows you to incorporate visual aids and lengthy or highly technical comments into a response. The Answer Book will complement the session discussion and provide more depth on certain topics. Prior to the conference, a digital version of the Answer Book will be available to conference attendees on the My Meetings link of the AFPM website.

To have your answers included, submit them no later than **September 16, 2019**. This will allow time for AFPM to prepare the answers for distribution.

Please use the following format:

- Identify yourself, your company, and the session and question number to which you are responding.
- Provide your answer, and include any supporting visual aids.
- Provide a contact name, phone number and/or email address in case there are questions about your response.

Submit your responses via email to [Answerbook@AFPM.org](mailto:Answerbook@AFPM.org).

# Registration Form

Register online at <https://www.afpm.org>

Register by September 13th - Save \$100

## AFPM OPTS19

**Step 1: Attendee Profile** - Please fill out completely. Badges will be printed from this information.

Name

Title

Company

Address

City

State

Zip

Country

Phone (Area/Country/City Code)

Fax (Area/Country/City Code)

Email

Spouse/Guest Name (if attending)

☐ This is not a permanent address change. ☐ Check here if you require any special services. Please attach a description of your needs.**Step 2: Meeting Registration****Full Registration**

	By Sept. 13	After Sept. 13
<input type="checkbox"/> Member	\$750 _____	\$850 _____
<input type="checkbox"/> Non-Member	\$1,400 _____	\$1,500 _____
<input type="checkbox"/> Spouse/Guest	\$100 _____	\$100 _____
<b>Total Due</b>	_____	_____

Name of Member Company

Not sure if your company is a member? Go to <https://www.afpm.org/membership-directory>.**Step 3: Payment Information**Payments to AFPM are not deductible as charitable contributions for federal income tax purposes. However, they may be deductible under other provisions of the Internal Revenue Code. ☐ VISA ☐ MasterCard ☐ American Express

Credit Card Number

Exp. Date

Signature

Name on Card (please print)

Billing Address

City

State

Zip

Country

Signature (Required, authorizing charge & acknowledging cancellation/refund, fee, registration, spouse, & other policies) [Click here to review AFPM policies.](#)**Step 4: Hotel Reservation**

Reservations cannot be made prior to registration. Once your registration has been completed, you will find the link to reserve your housing at the top of your registration confirmation email.

Be sure to register and reserve your room by Friday, September 13th. After September 13th, reservations will be accepted on a space available basis at the prevailing rate.

Register by Fax: fax your form with credit card information to 202.835.0467

# How to Register

**1. Conference Registration** – Log on to [www.afpm.org](http://www.afpm.org) and click “Register Now” or complete the enclosed registration form. Full registration includes admission to the general and breakout sessions, the luncheons on Monday and Tuesday in the exhibit hall and the Sunday and Monday evening reception. You’ll save \$100 off full conference registration if you register by September 13th!

**2. Hotel Reservations** – We encourage AFPM attendees to use the contracted hotel block. Reserve your hotel online before the cut-off date of September 13th. Once you have completed your registration, you will receive a link to make a hotel reservation. You can also find the link to reserve your housing at the top of your registration confirmation email.

**Hotel Cancellation Policy:** Please make all cancellations at least 72 hours prior to arrival to avoid a cancellation fee of one-night’s room and tax.

**3. Spouse Registration** – For just \$100, your spouse may join you at the Welcome Reception as well as the included business sessions. A spouse must be registered to purchase a ticket to the any special event functions.

**4. Payment** – AFPM accepts American Express, MasterCard and Visa.

**5. Tabletops or Meeting Space** – Contact Jeanne Boone at [summitexhibits@afpm.org](mailto:summitexhibits@afpm.org)

**6. Confirmation** – Your registration will be confirmed via email if you provided us your email address.

**7. Sponsorship Opportunities** – Show your support for the industry. Contact Colleen Lewallen for sponsorship opportunities at 202.457.0480 or [sponsorships@afpm.org](mailto:sponsorships@afpm.org)

**8. Attire** – Business Casual (No tie; jacket optional)

**9. Cancellation Policy** – Registration cancellations must be submitted in writing and faxed to 202.835.0467 or emailed to [OPT@afpm.org](mailto:OPT@afpm.org). Substitute conference registrations may be made in advance or on arrival with no penalty. Substitutions may be made online by the individual who entered the registration or may be submitted in writing [OPT@afpm.org](mailto:OPT@afpm.org)

Cancellations may be made by September 13, 2019 with no penalty. Written cancellations postmarked, faxed, or emailed between September 14 and September 27, 2019 will receive a refund of fees, less a \$50 processing fee. No refunds after September 27, 2019. No telephone cancellations.

**Member Fee Eligibility:** The member rate is based on membership information currently on file with AFPM. If your company is not currently a member, the non-member fees will be charged to your credit card.

**Spouse/Guest Policy:** A guest is a spouse/significant other, friend or an adult child (18 years old or older) who is not in an industry-related occupation. A co-worker, an associate or spouse who works within the industry may not use the Spouse/Guest Registration category. Guests are not permitted to work the table-top exhibit. Children under 18 are not permitted in the exhibit hall.

**Registration Policy:** Those who are present at the site of an AFPM meeting and/or occupy a hotel room in the AFPM room block to conduct business with industry personnel gathered for that meeting are expected to register for that meeting and pay the registration fee, whether or not they attend a specific function.

**Photo Release:** By registering for this conference, I hereby grant AFPM, its licensees and assigns, the right to use my name, biographic material, as well as, photos, or videos taken of me during the conference in news media, websites, publications, programs, articles, and/or marketing materials.

**No Suit-Casing Please:** Please note that while all meeting registrants are invited to the exhibition, any non-exhibitor registrant who is observed to be soliciting business in the aisles or other public spaces, in another company’s booth, or in violation of any portion of the AFPM Exhibition Policy will be asked to leave the show floor. Please report any violations you may observe to show management.

# AFPM Policies

## Ethical Responsibility and Professional and Personal Conduct Code

The American Fuel & Petrochemical Manufacturers ("AFPM") has adopted the following "Ethical Responsibility and Professional and Personal Conduct Code" (hereinafter, "the Code"). Every member of AFPM, their designated representatives, and non-member attendees at all AFPM meetings and forums agree to abide by the Code as a condition of membership in AFPM and attendance and participation at AFPM meetings and forums.

The Code requires the following of all individuals attending AFPM meetings and forums:

- Adherence to the AFPM bylaws and the AFPM policies and procedures, as adopted by AFPM's Board of Directors.
- Strict compliance with federal antitrust laws.
- Adherence to all applicable federal and state laws.
- Maintenance of the highest level of professional and personal ethical behavior while attending AFPM meetings and forums.
- Prevention of certain behaviors, including harassment, violence, intimidation and discrimination of any kind involving race, color, religion, national origin, gender, sexual orientation, age, disability or, where applicable, veteran or marital status.
- Assurance that conduct at all times and in all professional and personal dealings with each other and other attendees is with the highest level of integrity and courtesy.
- Sharing of knowledge and expertise as speakers at AFPM educational events and sessions whenever practicable, without soliciting or explicitly promoting their own organization's products or services.
- Working to instill public and consumer confidence in the petrochemical and refining industries, its member companies, and its professionals, avoiding any action conducive to discrediting members of AFPM.
- Refraining from scheduling general attendance meetings, receptions or other events at times that conflict with substantive programming or social events at AFPM meetings without express written permission of AFPM.

Failure to abide by the Code may result, for the first offense, in informal censure of a company or individual by the AFPM Executive Committee. If violations of the Code continue after such an informal censure, a company may be subject to expulsion from AFPM, or an individual to exclusion from participation in AFPM activities, by the Board of Directors.

## Entertainment Policy

We ask your cooperation in observing Association policy on activities held in conjunction with any AFPM meeting:

- Meetings or social activities should not be scheduled that take registrants away from AFPM programs and AFPM-sponsored activities;
- Any company sponsoring a function to which 25 or more people are invited should outline its plans for advance approval by AFPM. In general, such functions will be approved if they do not unduly take registrants away from AFPM-sponsored activities;
- All representatives of companies sponsoring hospitality activities are expected to register for the meeting;
- Hospitality suites are expected to close by 12:00 a.m.;
- Food, beverage and service personnel (bartenders, hostesses, etc.) must be obtained through the hotel catering department;
- Suite promotional activities are to avoid the use of elaborate entertainment, expensive door prizes, suite attendance solicitation by individuals who are not full-time employees of the sponsoring company, or other similar activities.