

CAT CRACKER

ROYAL SONESTA HOUSTON
AUGUST 23 – 24, 2016



2016

The biennial AFPM Cat Cracker Seminar and Exhibition will be held August 23-24, 2016, at the Royal Sonesta Hotel in Houston, TX. This seminar attracts experts throughout the industry, so it provides an ideal networking opportunity for anyone whose responsibilities include FCC operations.

The 2016 program will begin Tuesday morning with an “Industry Outlook” presented by KBC Advanced Technologies, Inc. Following this presentation, join your fellow attendees in the exhibit hall for lunch where the exhibition will showcase the latest technological advances in FCC equipment, catalysts, refractory, diagnostics, and reliability services from companies that specialize in FCC equipment and technology.

Round out the afternoon by hearing from panels of industry experts answering your questions on both FCC Process and Mechanical issues. Be part of the conversation as you present your

experiences in solving challenges others face, or asking follow-up questions to gain more understanding from the panelists’ prepared responses. The Q&A questions will be posted to the Cat Cracker website soon. Continue the discussion at the reception in the exhibit hall that evening.

Wednesday will be packed with presentations sure to catch your interest. These 24 presentations are broken down into four topic tracks: Technology Developments & Trends; Process/Operations; Equipment Availability & Utilization; and Cat Cracking Essentials. This program gives you the option to focus on a particular aspect of FCC operation or to tailor your own program to cover a broader range of interests.

Whether you are in Operations, Technical Service, Maintenance, Reliability, or Process Engineering you will find a comprehensive program that meets your needs for improving your FCC’s operation and reliability.

SPONSOR

Thank you to our Conference Support sponsor, SNC-Lavalin.

If your company is interested in sponsoring the Cat Cracker Seminar, check out available sponsorship opportunities or send an email to sponsorships@afpm.org.

EXHIBIT

Have something new to share? Want a chance to meet over 200 industry professionals who specialize in FCCU operations and maintenance? [Exhibit](#) at the 2016 Cat Cracker Seminar!

SCHEDULE OF EVENTS

**TUESDAY
AUGUST 23, 2016**

9:00 am – 11:00 am Keynote – KBC Advanced Technologies, Inc.

11:00 am – 12:30 pm Lunch and Tabletop Exhibition

12:30 pm – 2:30 pm Q&A Session: Panel I – Process

2:45 pm – 4:30 pm Q&A Session: Panel II – Mechanical

4:30 pm – 6:00 pm Reception and Tabletop Exhibition

schedule continues on page 3

WEDNESDAY AUGUST 24, 2016	TECHNOLOGY DEVELOPMENTS & TRENDS	PROCESS / OPERATIONS	EQUIPMENT AVAILABILITY & UTILIZATION	CAT CRACKING ESSENTIALS
8:00 am – 8:50 am	Computational Fluid Dynamic Modeling Improves FCC Technology and Profitability UOP - A Honeywell Company	Novel Method of Increasing Refinery Profitability During CFHT Outages Shell Martinez Refining Co. and Johnson Matthey Process Technologies	Upgrading FCC Cyclones for Enhanced Reliability CECO Environmental	Significance of Delta Coke in FCC Unit and Its Relevance to Heat Balance and Performance CB&I
9:00 am – 9:50 am	FCCU Process Optimization with High-Performance Temperature Instrumentation Daily Thermetrics	Preserving Octane for a Tier 3 Gasoline Market Grace Catalysts Technologies	Design for Safety and Reliability of Refractory-Lined Pipe Using FEA Technip Stone & Webster Process Technology	Pressure Balance/ Fluidization KBC Advanced Technologies
10:00 am – 10:50 am	Developing Feed Nozzle Technology from an Owner/ Operator Perspective Shell Global Solutions	The Experience of a Team of Experts to Resolve Severe Regenerator Maldistribution CPFD Software, LLC and Peccatiello Engineering, Catalytic Cracking Solutions, LLC	Expansion Joint Essentials in an FCCU Senior Flexonics Pathway Inc.	Fluid Catalytic Cracking Chemistry 101 Grace Catalysts Technologies
11:00 am – 11:50 am	Multivariable Control on an FCC Unit Total Petrochemicals & Refining USA	ESP, Slide Valves and Overhead Corrosion Chevron	Low Silicon Arc Welding on Refractory Anchors Flint Hills Resources and ISS	Catalyst Architecture and Its Impact on Cracking Chemistry BASF Corporation
11:50 am – 1:20 pm	Lunch and Tabletop Exhibition			
1:20 pm – 2:10 pm	Introduction to CRC-FCC Technology Luoyang Weida Petrochemical Engineering Company	FCC TA Catalyst Removal USA Services Inc.	IMI-Z&J Reactor Isolation Valves IMI Z&J	FCC Benchmarking – Exploring Industry Trends and Creating Paths Forward BASF Corporation
2:20 pm – 3:10 pm	Co-Processing of Biomass-Derived Liquid to Produce Renewable Fuels in Your FCC Unit UOP - A Honeywell Company	Chemical Reaction Engineering (CRE) & Models UOP - A Honeywell Company	Slide Valve Basics Tapco Enpro New Valve Design for Improved Reliability IMI Z&J	Unit Health Check Grace Catalysts Technologies

1. Conference Registration

Click [here](#) then "Register Now" or complete the enclosed registration form. Registration includes admission to the General Session, Q&A Session, table-top exhibits and Track Presentations. On-line registration closes August 15.

Fee Structure:

In order to encourage AFPM attendees to use the contracted hotel block at the Royal Sonesta Houston, a tiered registration fee structure will be in effect. Registrants occupying a hotel room in the AFPM block at the Royal Sonesta will pay a discounted registration fee \$200 less than those registrants who choose to stay outside the block or at an alternate hotel. Local commuter registrants, of course, will receive the discounted registration fee.

You'll save \$100 if you register by July 25!

2. Hotel Reservations

Reserve your hotel on-line when you register at AFPM.org and receive an immediate acknowledgement of your reservation. Or, fill in the appropriate space on the enclosed registration form. Hotel reservation requests will be processed in the order received by the AFPM. Get immediate acknowledgement on-line but allow 2 weeks if submitted to AFPM.

A major credit card is required to guarantee your reservation. Cancellation must be received by hotel at least 24 hours prior to arrival to avoid being charged for the first night's room and tax. July 25, 2016, is the cut-off date for making hotel reservations, cancellations or substitutions through AFPM or on-line. Beginning August 1, reservations, substitutions, or cancellations must be made through the hotel directly.

3. Spouse Registration

For just \$100, your spouse can join you at the table-top exhibits as well as the included business sessions.

4. Payment

Pay by credit card. AFPM accepts Visa, MasterCard or American Express.

5. Travel

AVIS is the official rental car agency for the CAT. Call 800.331.1600 and refer to AWD#:B761300 to receive discounted rates.

6. Confirmation

Your registration will be confirmed via e-mail if you provided us your email address. Otherwise, your confirmation will be sent via U.S. mail.

7. Sponsorship Opportunities Available

Contact Colleen Van Gieson at 202.457.0480 or email at Sponsorships@AFPM.org.

8. Attire

Business Casual - shirts with collars; No ties, no jeans, no sneakers and no shorts.

Cancellation Policy:

Registration cancellations must be submitted in writing and faxed to 202.835.0467 or e-mailed to CAT@afpm.org. Substitute conference registrations may be made in advance or on arrival with no penalty. Substitutions can be made on-line by the individual who entered the registration or can be submitted in writing to CAT@afpm.org.

Cancellations may be made by July 25, 2016 with no penalty. Cancellations made on-line or written cancellations postmarked, faxed, or emailed between July 26 and August 8, 2016 will receive a refund of fees, less a \$50 processing fee. No refunds after August 8, 2016. No telephone cancellations.

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.

Fee Policy:

Eligibility for rates:

Member Fee: 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.

Local Fee: Eligibility for the local fee is limited to those who will be commuting from home to the conference each day.

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.

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.

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.

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 1:00 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.

REGISTRATION FORM: CAT16

Register on-line at www.afpm.org
Register by July 25th – Save \$ 100

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)

E-mail

This is not a permanent address change.

Spouse/Guest Name (if attending)

Check here if you require special needs.
Please attach a description of your needs.

**SAVE \$200 OFF FEES BELOW BY
BOOKING A ROOM THROUGH AFPM.**

Step 2: Meeting Registration

	By July 25	After July 25
<input type="checkbox"/> Member	\$ 900 _____	\$1000 _____
<input type="checkbox"/> Non-Member	\$1500 _____	\$1600 _____
<input type="checkbox"/> Spouse/Guest	\$ 100 _____	\$ 100 _____

Total Amount Due \$ _____ \$ _____

Name of Member Company

Not sure if your company is a member? Go to www.afpm.org

Register by Fax:

Register by fax with credit card information to 202.835.0467.

Register by Mail:

AFPM
1667 K Street, NW
Suite 700
Washington, DC 20006

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

Name on card (Please print)

Billing Address

City

State

Zip

Country

Signature (Required, authorizing charge & acknowledging cancellation/refund, fee, registration, & spouse policies and ethics code. [Click here to review AFPM policies.](#))

Step 4: Hotel Reservation

Hotel Reservation requests must be accompanied by paid conference registration to be processed. Room rate is \$169 single/double occupancy at the Royal Sonesta Hotel, Houston, TX.

Arrival Date

Departure Date

If no dates are indicated, we will assign arrival Monday, August 22 and departure Wednesday, August 24.

Room Type: One Bed Two Beds

Number of People in Room: _____

Special Requests: Disability Other

Room Guarantee: AMEX VISA
 MasterCard Discover Diners

Credit Card Number

Exp. Date

Signature

Name on Card

Frequent Guest Number

Register on-line to receive immediate acknowledgement of hotel. July 25 is the final cut-off date to reserve a room. Contact the hotel directly with changes or cancellations beginning August 1, 2016.

Send suite requests to Katharine Nesslage at knesslage@afpm.org.