

Grapevine, Texas

**2005 NPRA Q&A and Technology Forum:  
Advance Program**

Gaylord Texan Resort & Convention Center  
Grapevine, Texas  
October 18 – 21, 2005



**NPRA**

## Schedule of Events

<b>October 18, 2005</b>	2:00 pm – 8:00 pm	Registration
	6:00 pm – 10:00 pm	<b>Reception</b>
<b>October 19, 2005</b>	7:00 am – 5:00 pm	Registration
	8:00 am – 8:30 am	<b>Keynote Address</b>
	8:30 am – 12:30 pm	<b>FCC Q&amp;A</b> <b>Gasoline Principles &amp; Practices</b> <b>Plant Automation: Process Control</b>
	10:00 am – 10:30 am	Coffee Break
	12:30 pm – 1:30 pm	Lunch
	1:30 pm – 5:00 pm	<b>Gasoline Q&amp;A</b> <b>FCC Principles &amp; Practices</b> <b>Plant Automation: Operator Tools and Effectiveness</b>
	3:00 pm – 3:30 pm	Refreshment Break
<b>October 20, 2005</b>	7:30 am – 5:00 pm	Registration
	8:00 am – 8:30 am	<b>Lifetime Service Awards</b>
	8:30 am – 12:30 pm	<b>Crude/Vacuum/Coking Q&amp;A</b> <b>Hydroprocessing Principles &amp; Practices</b> <b>Design &amp; Operations Safety Session</b> <b>Plant Automation: Managing the Business – Decision Support</b>
	10:00 am – 10:30 am	Coffee Break
	12:30 pm – 1:30 pm	Lunch
	1:30 pm – 5:00 pm	<b>Hydroprocessing Q&amp;A</b> <b>Crude/Vacuum/Coking Principles &amp; Practices</b> <b>Plant Automation: Maintaining and Upgrading the Plant Automation Infrastructure</b>
	3:00 pm – 3:30 pm	Refreshment Break
<b>October 21, 2005</b>	7:00 am – 11:00 am	Registration
	7:00 am – 7:30 am	Continental Breakfast
	7:30 am – 11:00 am	<b>Plant-wide Systems Principles &amp; Practices</b> <b>Plant Automation: The Refinery of the Future</b>
	9:00 am – 9:30 am	Coffee Break

## 2005 NPRA Q&A and Technology Forum: Advance Program

The 2005 NPRA Q&A and Technology Forum addresses real problems and challenges that you face at your facility and helps you sort through solutions as you discuss them with panelists and in networking with other attendees. Today's competitive refining environment requires attention to plant safety, superior technology, innovation, and excellence in operations. Networking with refiners, petrochemical producers, catalyst and chemicals suppliers, process licensors, engineering firms, and other industry experts at the Q&A and Technology Forum keeps you on top of the latest developments as you cope with demanding business conditions.

In addition to the Q&A sessions, the 2005 program again includes a parallel track of Principles & Practices (P&P) sessions which correspond to and complement the Q&A sessions. These sessions will be ideal for operations superintendents, process engineers and others that can benefit from a training session that is focused on practical issues, the fundamentals of good operations, and eliminating persistent problems.

For 2005, the program has been expanded to include a Design and Operations Safety Session which will use refiners' experiences and lessons learned from incidents and near misses as a basis for making improvements in plant safety.

In 2005, the NPRA Plant Automation & Decision Support Conference is being co-located with the Q&A meeting. Attendees will register for one meeting and be able to attend any of the Q&A, plant automation, safety or P&P sessions. There will be one keynote session for all attendees on Wednesday and the hospitality suites will be open to every attendee.

You will have more program choices and be able to structure your own 'personal' program from the diverse elements available in the different sessions.

### **The Questions**

To view the questions visit:

<http://www.npra.org/meetings/qa/qaquestions.pdf>

### **NPRA would like to thank the 2005 Screening Meeting Sponsors:**

- Criterion Catalysts & Technologies
- Flint Hills Resources



**NPRA**

## Q&A Sessions

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Industry experts from refining companies and other technology specialists will respond to the selected questions and then engage the attendees in a discussion of the practical issues raised. The questions for the Q&A panel are organized into four Operations & Technology sessions:

- Crude & vacuum distillation and delayed coking (evaluation, desalting, distillates, vacuum distillation, coking)
- Gasoline processes (hydrotreating, reforming, alkylation, isomerization, blendstocks, gasoline post treating)
- Fluid catalytic cracking (FCC) (process, mechanical, catalyst, environmental)
- Distillate hydroprocessing (process, catalyst, reliability)

In the course of responding, the panelists will cover:

- Safety and Environmental Performance – Protecting our co-workers, neighbors, and facilities is our first priority.
- Operations – Common (and uncommon) operational problems and how to solve them.
- Technology – Identifying the best technology and applying it appropriately to affect the bottom line.

### The Questions

To view the questions:  
<http://www.npra.org/meetings/qa/qaquestions.pdf>

Each of these topics is important to the industry and the panel-led discussion will provide valuable information on handling them successfully, improving the bottom line, and attaining excellence.

Someone else in the industry has confronted and solved the problems that you face right now. The NPRA Q&A and Technology Forum is the best place to find that person, whether a panelist, a technology vendor or another attendee.

## Principles & Practices Sessions

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The Principles & Practices (P&P) sessions are discussion-oriented sessions that complement the information exchange that occurs in the Q&A sessions. Each of the P&P sessions will address the fundamentals of good operation and the bedrock principles for the technologies that are commonly employed. These sessions will usually have short presentations which will be followed by a time where attendees can ask further questions or present their own particular problems and benefit from the collective experience of the other attendees. The five P&P sessions are:

- Crude & vacuum distillation and delayed coking (heater design, tower internals, coke cutting, etc.)
- Gasoline processes (corrosion, alkylation unit acid consumption, monitoring process heaters, etc.)
- Fluid catalytic cracking (FCC) (fluidization fundamentals, heat balance fundamentals, etc.)
- Distillate hydroprocessing (reactor safety, hydrogen sulfide scrubbing, catalyst handling, etc.)
- Plant-wide Systems (see below)

The Plant-wide Systems P&P session will address systems and issues that do not belong to a single process unit or technology type. The panel will address questions from all aspects of plant operations, which may include:

- Amine systems
- Automation & instrumentation
- Environmental & regulatory issues
- Flare systems
- Safety
- Utilities
- Work force issues

An up-to-date list of topics for all P&P sessions will be maintained on the NPRA web site, <http://www.npra.org/forms/meeting/MeetingFormPublic/view?id=1B200000018>

## New in 2005: Plant Automation and Decision Support

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The Plant Automation and Decision Support Conference is being co-located with the Q&A and Technology Forum so that attendees whose responsibilities overlap between process engineering, unit operations, process control, and planning will be able to use their conference time effectively. This “conference within a conference” will have its own program and will provide a comprehensive array of topics for plant automation professionals.

The Plant Automation and Decision Support Conference will have five separate sessions:

- Process Control
- Operator Tools and Effectiveness
- Managing the Business – Decision Support
- Maintaining and Upgrading the Plant Automation Infrastructure
- The Refinery of the Future

Each session will have technical presentations and several of the sessions will offer panel discussions.

The Plant Automation & Decision Support Conference is designed by operating companies for operating companies and it is ideal for those individuals who are responsible for plant automation, process control, planning and scheduling, information technology, and modeling/ simulation.

Conference registrants will be able to attend any session of their choosing in the plant automation or Q&A programs.

## New in 2005: Design and Operations Safety Session

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This year NPRA's Fire and Accident Prevention Committee will present a three-hour session on plant safety topics for process engineers, design engineers, and Operations supervisors and managers. The program will consist of presentations, panel discussions, and information sharing by attendees on issues that impact safe operations. The Design and Operations Safety session will cover best practices, lessons learned from recent events, the use of safety instrumented systems, and designing for loss-control.

All attendees are encouraged to respond to the prepared questions. The Q&A Answer Book allows you to incorporate visual aids and lengthy or highly technical comments into a response. The Answer Book will also be available on the NPRA web site prior to the meeting for review by both attendees and their colleagues back at the office. The Answer Book will complement the session discussion, offer a preview of certain topics, and allow prospective attendees an opportunity to refine or focus their comments or questions.

Everyone is welcome to submit answers and other comments. To be included, you will need to submit your answers no later than September 12, 2005. This will allow time for NPRA to print the booklet and prepare it for on-site distribution.

Please use the following format:

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

You may submit your responses via e-mail to [Answerbook@npra.org](mailto:Answerbook@npra.org)

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## Meeting Sponsorships

We would like to take this opportunity to thank our 2005 Q&A and Technology Forum Sponsors: Air Products/Technip Hydrogen Alliance, BJ Chemical Services, Chevron Lummus Global, Criterion Catalysts & Technologies, Emerson Process Management, Engelhard Corporation, Flint Hills Resources, GE Infrastructure Water and Process Technologies, Grace Davison/Advanced Refining Technologies, Gulf Chemical & Metallurgical Corp., Johnson Matthey Catalysts, and UOP LLC.

Q&A and Technology Forum sponsors increase their name recognition in the industry and can use this opportunity to promote innovative products and services to the attendees. A variety of member-company sponsorship opportunities have been developed to provide maximum benefit for companies who want to have a strong presence at the Q&A - the Screening Meeting, Opening Reception, Hospitality Suite Brochure, conference bag, morning Coffee Breaks (3), and afternoon Refreshment Breaks (2).

Sponsors are listed and recognized in the advance and final programs (which are distributed to over 3,000 people via mail and/or email), recognized by the conference moderator during the sessions, and in the NPRA Annual Report and, where applicable, have their company names posted during the sponsored function. Sponsors also receive a list of registrants in advance of the meeting and an attendee list following the meeting.

For more information, please contact Lynne Schoenbeck at 202.457.0480, or by email at: LSchoenbeck@npra.org.

## How to Register

### 1. Conference Registration

Log on to [www.npra.org](http://www.npra.org) and select "Meetings", "Future Conferences", "2005 Q&A and Technology Forum" then "Register Now" or complete the enclosed registration form. Full registration includes admission to all sessions, the Opening Reception and luncheons Wednesday and Thursday and the conference Transcript. You'll save \$100 off full conference registration if you register by September 19!

### 2. Hotel Reservations

Reserve your hotel on-line when you register at [www.npra.org](http://www.npra.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 NPRA. Get immediate acknowledgement on-line but allow 3 weeks if submitted to NPRA. The hotel requires a deposit equal to one night room rental plus tax to guarantee your room. This is refundable up to 72 hours in advance of your arrival. The credit card will be charged the first nights deposit as soon as NPRA turns the rooming list over to the Gaylord Texan in mid-September. September 12, 2005, is the cut-off date for making hotel reservations, cancellations or substitutions through NPRA or on-line. Beginning September 19, reservations, substitutions, or cancellations must be made through the hotel directly.

### 3. Spouse Registration

For just \$50, your spouse can join you at the Tuesday Evening Reception as well as the included sessions.

### 4. Payment

Pay by credit card, check or wire transfer. If you register on-line but wish to pay by check or wire please be sure to include your system ID#, name, and conference name with payment.

### 5. Suites and Meeting Rooms

Call Merla Zollinger at 202.457.0480 or email at [merlaz@npra.org](mailto:merlaz@npra.org).

### 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

Show your support for the industry. Contact Lynne Schoenbeck for sponsorship opportunities at 202.457.0480 or [lschoenbeck@npra.org](mailto:lschoenbeck@npra.org).

### 8. Travel

The Gaylord Texan Resort is conveniently located a short 10 minute ride from Dallas Fort Worth Airport.

**Cancellation Policy:** Registration substitution/cancellations must be submitted in writing and faxed to 202.835.0467 or emailed to [QA@npra.org](mailto:QA@npra.org). Substitute conference registrations may be made in advance or on arrival with no penalty. Cancellations may be made by September 19, 2005 with no penalty. Written cancellations postmarked, faxed, or emailed between September 20 and October 3, 2005 will receive a refund of fees, less a \$50 processing fee. No refunds after October 3, 2005. No telephone cancellations.

**Fee Policy:** Eligibility for member rates is based on membership information currently on file with NPRA. If your company is not currently a member, the non-member fees will be charged to your credit card.

**Registration Policy:** Those who are present at the site of an NPRA meeting and/or occupy a hotel room in the NPRA 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.

**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.

## Registration Form: QA05

Register on-line at [www.npra.org](http://www.npra.org)  
Register by September 19 – Save \$100

### Step 1: Attendee Profile

Please fill out completely. Badges will be printed from this information.

Name \_\_\_\_\_

Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Country \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail \_\_\_\_\_

This is not a permanent address change.

Spouse Name (if attending) \_\_\_\_\_

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

### Step 2: Meeting Registration

	By Sept. 19	After Sept. 19
<input type="checkbox"/> Member	\$ 400 _____	\$ 500 _____
<input type="checkbox"/> Nonmember	\$ 695 _____	\$ 795 _____
<input type="checkbox"/> Spouse / Guest	\$ 50 _____	\$ 50 _____
<input type="checkbox"/> Member 1 Day	\$ 200 _____	\$ 250 _____
<input type="checkbox"/> Nonmember 1 Day	\$ 350 _____	\$ 400 _____
<b>Total Amount Due</b>	_____	_____

Name of Member Company \_\_\_\_\_  
Not sure if your company is a member? Go to [www.npra.org](http://www.npra.org)

### Register by Fax:

Fax your form with credit card information to 202.835.0467

### Register by Mail:

1899 L Street, NW  
Suite 1000  
Washington, DC 20036

### Step 3: Payment Information

Payments to NPRA are not deductible as charitable contributions for federal income tax purposes. However, they may be deductible under other provisions of the Internal Revenue Code.

Check Enclosed (US Dollars only)  
 Bank Transfer: Sun Trust Banks, Inc., Washington, DC  
Routing #061000104 • Acct #206887906  
SWIFT Code – SNTRUS3A  
(Please include registrant's name.)

Credit Card  
 VISA  MasterCard  American Express

Credit Card Number \_\_\_\_\_

Exp. Date \_\_\_\_\_

Name of person on card (Please print) \_\_\_\_\_

Signature (Required; authorizing charge & acknowledging cancellation/refund, fee, registration, & spouse policies) \_\_\_\_\_

### Step 4: Hotel Reservation

Hotel Reservation requests must be accompanied by paid conference registration to be processed. Room Rate is \$144 Single/Double occupancy plus a \$10/day resort fee at the Gaylord Texan Resort & Convention Center, 1501 Gaylord Trail, Grapevine, Texas. If no dates are indicated, we will assign arrival Tuesday, October 18 and departure Friday, October 21.

Arrival Date \_\_\_\_\_

Departure Date \_\_\_\_\_

Room Type:  One Bed  Two Beds

Number of People in Room: \_\_\_\_\_

Room Guarantee:  AMEX  VISA  
 MasterCard  Discover  Diners

Credit Card Number \_\_\_\_\_

Exp. Date \_\_\_\_\_

Signature \_\_\_\_\_

Special Requests:  Smoking  Non-smoking  
 Disability  Other

Fax suite requests to Merla Zollinger at 202.835.0467.

Register on-line to receive immediate acknowledgement of hotel. September 12 is the final cut-off date to reserve a room. Contact the hotel directly with changes or cancellations beginning September 19, 2005.



Grapevine, Texas

## 2005 NPRA Q&A and Technology Forum: Advance Program

Gaylord Texan Resort & Convention Center  
Grapevine, Texas  
October 18 – 21, 2005

Register by September 19th  
and save \$100!

Register online at  
[www.npra.org](http://www.npra.org)



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National Petrochemical & Refiners Association

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