



NPRA

**2009 NPRA Q&A and Technology Forum
Principles & Practices Session Topics**

Principles & Practices Sessions

The Principles & Practices (P&P) sessions are discussion-oriented sessions, primarily designed for the engineer whose overall operating experience is less than 20 years. The P&P sessions will complement the information exchange that occurs in the Q&A sessions. Each of the sessions will address the fundamentals of good operation and the foundational principles for the technologies that are commonly employed. These sessions will usually have short presentations 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 six P&P sessions are:

Energy – Mike Facker, *Western Refining* and Kevin Proops, *Solomon Associates*

- Energy consumption – *Solomon Associates, Kevin Proops*
- Factors affecting heater efficiency – *InServ, Andrew Craig*
- Preheat exchange design and optimization – *Processing Consulting Services, Inc. (PCS), Eric Hutchins*
- Steam system optimization – *KBC Advanced Technologies, Bruce Pretty*
- Wrap-up

Blending Biofuels and Product Quality – Sonny Loudon, *Citgo Petroleum* and Tony Hall, *Sunoco*

- RFS2 regulation – *UOP, Prabhakar Nair*
- Gasoline blending best practices - *Sunoco, Anthony Hall*
- Biofuel blending – *Nalco, Kim Peyton; Philip Bureman*
- Ethanol blending light component Alternatives - *Solomon Associates*

Crude/Vacuum Distillation & Coking – Daryl Hanson, *Valero Energy* and Eric Hutchins, *PCS*

- Coker Heater Design / Optimization – *KBC Advanced Technologies, Sim Romero*
- Crude pre-treatment and overhead treatment developments – *Baker Petrolite, Larry Kremer*
- Crude desalter best practice and optimization – *Petresco, Tom Collins*
- Coke drum metallurgy, design and failure mechanisms – *Stress Engineering, Bob Wright*
- Current coke drum inspection techniques – *CIA Inspection, Jacqueline Cameron*
- Heat recovery/integration – *ABB Lummus, Krishnan Chunangad*

FCC – Bill Wilson, *BP* and CJ Farley, *Astron*

- Safety – *ConocoPhillips, Mike Wardinsky*
- Turnaround planning – *TBD*
- Turnaround shooting catalyst losses – *Chevron, Gary Ash and Bob Ludolph*
- Environmental Performance – *BP, Andrew Nation; ConocoPhillips, Bill Henning*

Gasoline Processes – Larry Lew, *Chevron* and Kerry Rock, *ABB Lummus*

- Reformer feed contaminants, their impact on operations and mitigation approaches – *Michael Newton, Roddey Engineering and Bill Kostka, Exxon Mobil*
- Impact of various benzene reduction approaches – *Becca Bundick, Mustang Engineers*
- Turnaround recommendations and best practices for Sulfuric and HF alkylation units – *Steve Mathur, Chevron, Rick Vice Marathon*
- Reformer heater management – *Ed Shepherd, Chevron*

Hydroprocessing – Garry Kirker, *Valero Energy* and Vito Bavaro, *Shell Oil*

- Safety SIS-Auto Depressuring – *Shell Global Solutions, Robert Redelmeier*
- ULSD Unit Monitoring – *Marathon Oil, Philip Hardesty*
- Compressor reliability- *Shell Global Solutions, Robert Kranz; Valero Energy*