

San Diego, CA

106th NPRA Annual Meeting

Manchester Grand Hyatt

San Diego, California

March 9 – 11, 2008



NPRA

Your **Clean Fuels** Solutions

When it comes to commercially proven technology to meet increasingly stringent Clean Fuels regulations, make Grace Davison and Advanced Refining Technologies your one-stop shop for FCC catalysts, additives and hydroprocessing catalysts.

For gasoline sulfur reduction, today's refiners are challenged more than ever before to blend various refinery streams to meet stringent product specifications and government regulations for clean air. Proven in over 80 commercial units, Grace Davison's portfolio of FCC gasoline sulfur reduction technologies includes the **D-PriSM**[®] and **GSR**[®]-**5** additives and the **SuRCA**[®], **SATURN**[®] and **GSR**[®]-**7** catalyst families.

>Recently commercialized, **GSR-7** catalyst further expands our sulfur reduction technologies to continuously improve both performance and cost effectiveness. This next generation technology is a step out improvement over earlier technologies, providing 45-50% full range gasoline sulfur reduction commercially with full catalyst formulation flexibility.

>For refiners with FCC pretreaters, the **ApART Catalyst System**[™] utilizing combinations of ART AT575, AT775 and AT792 offers the opportunity to significantly increase sulfur removal in the hydrotreater while at the same time maximizing FCC feed quality. The improved performance of the pretreater results in higher gasoline potential in addition to decreasing FCC gasoline sulfur.

>For ULSD processing, the **SmART Catalyst System**[™] utilizes state-of-the-art catalyst technology which is staged in the proper proportions to provide the best performance, while at the same time meeting individual refiner requirements. The catalyst staging is designed to selectively take advantage of the different reaction mechanisms for sulfur removal with efficient hydrogen usage. ART CDXi, our newest generation of high activity CoMo catalyst, efficiently removes the unhindered, easy sulfur via the direct abstraction route, while ART NDXi, our high activity NiMo catalyst, then attacks the remaining sterically hindered, hard sulfur. The SmART system provides higher activity than either the traditional CoMo or NiMo catalyst alone while effectively helping the refiner manage hydrogen utilization.



Have questions about our clean fuels technology?
Contact us at www.e-catalysts.com or call us at (410) 531-8226.
Let Grace Davison and Advanced Refining Technologies
give you the custom catalytic solution to your clean fuels challenges.



Advanced Refining Technologies

GRACE

106th NPRA Annual Meeting

National Petrochemical & Refiners Association

106th Annual Meeting
March 9 - 11, 2008
Manchester Grand Hyatt
San Diego, CA

Registration

Worthington's Foyer
Sunday: 9:00 am – 8:00 pm
Monday: 7:00 am – 5:00 pm
Tuesday: 7:00 am – 12:00 pm

Table of Contents

2	Schedule of Events
3	Message from the Chairman
4	Monday Morning Sessions
4	Monday Spouse Tours
6	Monday Afternoon Sessions
11	Tuesday Morning Sessions
16	Tuesday Annual Luncheon
16	Tuesday Afternoon Sessions
20	Tuesday Closing Event
21	Sponsors
21	NPRA Meeting Schedule
22	NPRA Environmental Commitment
22	NPRA Antitrust Policy
23	List of Registrants – Alphabetical
36	List of Registrants – By Company
57	Sessions At A Glance



NPRA

Schedule of Events

All events at the Manchester Grand Hyatt unless noted.

Sunday, March 9

12:00 pm – 4:00 pm

Meet in lobby at 11:30 am

Optional Tour:

Ultimate America's Cup Experience*

San Diego Bay

You are one of an incredible few to have the "Ultimate America's Cup Experience." This "America's Cup" race is a safe, fun-filled afternoon of yacht racing around beautiful San Diego bay in what are unquestionably the greatest racing yachts on the planet. Authentic America's Cup yachts, the "Stars and Stripes" and "Abracadabra", are the only two IACC (International America's Cup Class) yachts in the USA. One of them is the most modern "cup" yacht available to the public anywhere in the world. At 80 ft each, we give you these powerful yachts, a 'once in a lifetime' opportunity to race upon them, and ultimately very powerful bragging rights.

And that's not all. The third vessel is the legendary 139 ft schooner "America", the incredible yacht after which the America's Cup is named. In mid-bay, you'll experience three "match races", America's Cup style. San Diego is the only place in the World to conduct this event. This will likely be the highlight of your San Diego visit, and we have no doubt you'll find yourself swapping stories about your new-found skills, and the best fun you've had in a long time.

Attire: Comfortable boating attire. Wear jacket or windbreaker and rubber sole shoes. Bring sunscreen, sunglasses, and hat or visor for your comfort. Beverages provided.

1:00 pm – 3:00 pm

Issues Committee Meeting

Americas Cup

3:00 pm – 5:00 pm

Manufacturing Committee Meeting

Americas Cup

6:00 pm – 8:00 pm

Opening Reception

Pool Deck,

Weather Backup – Elizabeth ABCDE

Cover photo ©Shutterstock

Monday, March 10

7:30 am – 9:00 am

Government Relations Breakfast*

Elizabeth F

7:30 am – 9:00 am

Crude and Refined Products Breakfast*

Elizabeth G

7:30 am – 9:00 am

Lubricants and Waxes Statistics

Subcommittee Meeting

Gregory A

8:00 am – 9:30 am

Coffee and Rolls

Elizabeth Ballroom Prefunction

9:00 am – 1:00 pm

Spouse Tour: Coronado Mini Trek*

Transportation departs from the Manchester Grand Hyatt lobby at 9:00 am

10:30 am – 3:30 pm

Spouse Tour: Zoo Keeper for a Day*

Transportation departs from the Manchester Grand Hyatt lobby at 10:30 am

9:30 am – 11:30 am

General Session

Elizabeth Ballroom ABCDE

12:00 pm – 2:00 pm

Lubricants and Waxes

Committee Meeting

Gregory A

2:00 pm – 3:00 pm

Lubricants and Waxes

Program Committee

Gregory A

12:00 pm – 3:00 pm

Executive Committee Meeting

Gregory B

2:00 pm – 5:00 pm

Issues and Technical Sessions

- Issues - *Elizabeth F*
- Hydroprocessing - *Elizabeth G*
- Gasoline - *Elizabeth H*
- Synthetic Crude Oil Challenges - *Manchester A*
- FCC Technology - *Manchester B*
- Process Safety - *Manchester C*

3:30 pm – 4:30 pm

Wax Subcommittee Meeting

Gregory A

Tuesday, March 11

7:30 am – 9:15 am

CEO Breakfast*

Featuring William R. Klesse

Chairman and CEO

Valero Energy Corporation

Elizabeth ABCDE

9:30 am – 11:00 am

Board of Directors Meeting

Americas Cup

9:30 am – 12:00 pm

Issues and Technical Sessions

- Issues - *Elizabeth F*
- Developing CO₂ Strategies - *Elizabeth G*
- Crude Evaluation and Distillation - *Elizabeth H*
- Operations - *Manchester A*
- FCC Technology - *Manchester B*
- Profit Improvement - *Manchester C*

12:00 pm – 2:00 pm

Annual Luncheon*

Featuring Tony Snow

Former White House Press Secretary and

FOX News Channel personality

Elizabeth ABCDE

2:00 pm – 4:30 pm

Management and Technical Sessions

- Renewable Fuels - *Elizabeth F*
- Management - *Elizabeth G*
- Workforce - *Elizabeth H*
- Hydrogen & Refinery Off-gas Systems - *Manchester A*
- Energy Economics - *Manchester B*
- Reliability - *Manchester C*

6:30 pm – 9:30 pm

Closing Event*

Experience the USS Midway,

North Harbor Drive, San Diego, CA

Guests may either walk or take the

shuttle bus which departs from the

Manchester Grand Hyatt lobby

entrance beginning at 6:15 pm

* Ticketed Function

Message from the Chairman



James Mahoney
Chairman of the Board
NPRA

Executive Vice President,
Operations Excellence
and Compliance
Koch Industries, Inc.
Wichita, KS

Welcome to San Diego and the 106th Annual Meeting of NPRA, the National Petrochemical & Refiners Association! We hope you will enjoy the city's enormous beauty and experience its unique blend of cultures.

California, like the rest of the nation, believes itself to be at a crossroads when it comes to determining its energy future. In Washington, D.C., some policymakers would seemingly prefer to see the demise of the hydrocarbon, where others feel strongly that oil and gas are and will continue to be integral components of a dynamic American economy. In a rising cost environment with ever-growing demand, our nation should seek out and utilize the widest variety of fuels possible, not restrain itself by mandating a reliance on unproven technologies that are years, if not decades, away from commercial viability. The answer to enhancing energy security is not energy isolation. While security is a worthy objective, isolation is a grave economic error. For the strength of our national economy and the benefit of American consumers, our businesses must be able to compete globally.

2008, with its heated political environment, will likely prove to be equally as challenging as 2007. In the midst of these debates, we must continue to recognize and applaud the efforts of our companies' employees who have always risen to the task at hand, whether in responding to emergencies or installing new, state-of-the-art equipment to increase operating efficiency and lessen a facility's environmental footprint. Regardless of the political climate and whoever is serving in elected office, our employees will continue to safely, cleanly and reliably supply fuels and petrochemical products to American consumers to meet their daily needs.

This year's Annual Meeting is worthy of NPRA's heritage in providing distinguished speakers who are proven leaders in both business and government service. Our outstanding line-up includes former White House Press Secretary and FOX News personality Tony Snow, 20/20 co-anchor John Stossel, and Stuart Rothenberg, editor and publisher of the Rothenberg Political Report.

NPRA's comprehensive technical program includes more than 80 presentations and discussions on a broad range of topics important to our industry, with a strong focus on safety, reliability, management and the workforce, and technology. New this year are sessions focusing on synthetic crude oil challenges, carbon dioxide strategies, energy economics, and process safety.

As always, our issue-oriented sessions will focus on the current political climate and major public policy decisions that impact our businesses and customers. This year's sessions will encompass discussion of RFS2 implementation, OSHA's National Emphasis Program (NEP), demographics, and grassroots advocacy.

We encourage you to take full advantage of what the sessions have to offer, but also be sure to experience San Diego's wealth of culture and activities. Thank you for your continuing support of NPRA and your participation in this year's Annual Meeting!

Monday March 10, 2008

Monday Morning

Government Relations Breakfast

7:30 am – 9:00 am
Elizabeth F

Spouse Tours

9:00 am – 1:00 pm
or
10:30 am – 3:30 pm

9:00 am – 1:00 pm

Spouse Tour: Coronado Mini Trek*

Coronado began in 1886 as one of the great playgrounds of the world, drawing Presidents and princes, moguls and movie stars to its shores. Coronado's past, full of fabulous homes and famous memories, is still very much a part of San Diego's life today. On a leisurely, guided stroll through quaint Coronado, guests see the stately mansion of John D. Spreckels, the cottage of the Duchess of Windsor, the home that inspired the Wizard of Oz, and the magnificent Hotel del Coronado. Guests enjoy the tales of a hundred years of remarkable history ... on Coronado Island!

Transportation included. Buses depart the Manchester Grand Hyatt lobby entrance at 9:00 am. Lunch is not included.

10:30 am – 3:30 pm

Spouse Tour: Zoo Keeper for a Day*

There are some "Beastly Wonders" going on at the world famous San Diego Zoo and you will be a part of it. Your private Behind-the-Scenes tour includes a 35 minute bus tour and a visit to two specialty areas of the Zoo with a Behind-the-Scenes Zoo guide. The specialty areas include the Elephant Barn, Rhino Barn, Giraffe Barn and the Camel Yard. Two of the above areas will be visited depending upon the animals' health and behavior on the day of our tour. You will also have time to ride the skyfari aerial tram or explore recent additions and renovations to the Zoo such as the Giant Panda Research Station, Gorilla Tropics, Hippo Beach, Polar Bear Plunge, Scripps Aviary, Tiger River, and Sun Bear Forest.

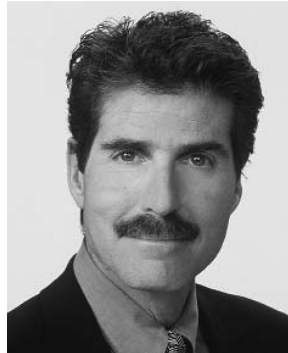
Transportation included. Buses depart the Manchester Grand Hyatt lobby entrance at 10:30 am. Lunch is not included.

General Session

9:30 am – 11:30 am
Elizabeth ABCDE Ballroom



Charles T. Drevna
President
NPRA



John Stossel
*News Correspondent
and Co-anchor, 20/20
ABC News*

Award-winning journalist John Stossel joined the highly acclaimed newsmagazine, ABC News 20/20, in 1981, and began doing one-hour primetime specials in 1994. Stossel is featured in a weekly segment entitled "Give Me a Break." These short commentaries take a skeptical look at a wide array of issues, from pop culture controversies to censorship and government regulations. Stossel often debunks myths, like "record high" gas prices, the evils of "sweatshops" and price "gouging." Stossel's specials tackle issues that face Americans today. They consistently rate among the top news programs and have earned him uncommon praise. Stossel's first special, "Are We Scaring Ourselves to Death," examined exaggerated fears of things like chemicals and crime.



James Mahoney
Chairman of the Board
NPRA



Stuart Rothenberg
*Editor and Publisher,
The Rothenberg
Political Report
Columnist, Roll Call*

Stuart Rothenberg has his finger on Washington's political pulse. As the editor and publisher of The Rothenberg Political Report, Rothenberg is the go-to authority on the U.S. House, Senate, gubernatorial, and presidential elections. His penchant for presenting droll and unbiased observations, paired with his exceptional knowledge of American politics, captivates audiences with insightful, often humorous discussions about election results, the issues facing decision makers on Capitol Hill, and the nature of politics itself. He has become a true authority on handicapping elections and finding the rhythms of modern politics. His lectures are as up-to-date as today's newspaper, and will keep people well-informed and wholly amused.

Monday Afternoon

Issues Session

2:00 pm – 5:00 pm
Elizabeth F

2:00 pm – 3:30 pm Implementation of the New Renewable Fuel Standard

Moderator:

Don Clay

Managing Director, Environmental and
Regulatory Affairs
Koch Industries, Inc.
Washington, DC

Panelists:

Joanne Shore

Senior Analyst
Energy Information Administration (EIA)
Washington, DC

Paul Machiele

Fuel Program Center Director
U.S. EPA
Ann Arbor, MI

Mike Leister

Manager, Fuels Technology
Marathon Petroleum Company LLC
Findlay, OH

Don Endres

CEO
VeraSun Energy Corporation
Brookings, SD

3:30 pm – 5:00 pm

Grassroots Advocacy

One of the most effective ways to deliver a message to legislators is by engaging citizens and enabling them to voice their views. The hydrocarbon process industries must understand how to utilize their strengths and resources to ensure that our nation's lawmakers are aware of the issues that impact their constituents. This session discusses this process.

Technical Session: Hydroprocessing

2:00 pm – 5:00 pm
Elizabeth G

President:

Gary Fuller

Senior VP, Refining Operations
Holly Corporation
Dallas, TX

2:00 pm

AM-08-28

Improving the Operation of Desulphurization Units Using Advanced Process Control Technology

Andrew McIntosh

Principal Advisor
Aspen Technology
Calgary, AB

2:30 pm

AM-08-30

Increased FCC Pretreatment Capability – How Best to Utilize in a Clean Fuel Facility

Elizabeth Roellig

Process Engineer
Houston Refining, LP
Houston, TX

3:00 pm

AM-08-27

Fixed Bed Reactor Optimization Through Novel Bed Support Design

Daniel Sherman

Research and Development Manager
Saint-Gobain NorPro
Stow, OH

3:30 pm

AM-08-29

Combining New and Old Technologies: Inlet Diffuser and Random Packing Dramatically Improve Reactor Performance

Gerry Jacobs

Technical Director, Process Engineering
Fluor Corporation
Aliso Viejo, CA

4:00 pm

AM-08-26

IsoTherming Hydroprocessing Technology

Carmo Pereria

DuPont Fellow
DuPont STRATCO®
Leawood, KS

4:30 pm

AM-08-95

Optimal Pressure for Hydrocracking: Case study for Assessing Trade-offs

Ron Meeker

Manager of Process Technologies
Chevron
Richmond, CA

**Technical Session:
Gasoline**

2:00 pm – 5:00 pm
Elizabeth H

Presider:
Paul Fritz
Refinery Manager
Sinclair Oil Corporation
Sinclair, WY

2:00 pm
AM-08-82
It is Not Your Grandfather's Gasoline
Cal Hodge
President
A 2nd Opinion, Inc.
The Woodlands, TX

2:30 pm
AM-08-10
**Options for Reducing Benzene
in the Refinery Gasoline Pool**
R.E. Palmer
Manager, Downstream Process Design
Mustang Engineering, Inc.
Houston, TX

3:00 pm
AM-08-12
**Utility and Infrastructure
Requirements for Gasoline Benzene
Reduction Processes**
Dominic Varraveto
Refinery Process Manager
Burns & McDonnell
Kansas City, MO

3:30 pm
AM-08-11
**Benzene Management in a
MSAT 2 Environment**
Jean-Luc Nocca
VP, Technology Sales & Marketing
Axens North America
Houston, TX

4:00 pm
AM-08-15
Benzene Recovery
Ron Cormier
Director, Business Development
GTC Technology Corp.
Houston, TX

4:30 pm
AM-08-14
**Benzene Reduction at
Lowest Capital Cost**
Kerry Rock
Director, Technology Commercialization
CDTECH
Houston, TX

Monday afternoon sessions
continue on next page.

**Technical Session:
Synthetic Crude Oil Challenges**

2:00 pm – 5:00 pm

Manchester A

Presider:
Larry Cunningham
Technical Manager
Afton Chemical Corporation
Richmond, VA

2:00 pm

AM-08-35

**Canadian Synthetic Crude Oil:
Markets in Transition**

Stephen Fekete
Senior Principal
Purvin & Gertz Inc.
Calgary, AB

2:30 pm

AM-08-34

**Processing Oil Sands-derived
Crudes in Conventional Refineries**

Dino Chakraborty
Director, Project Development
Colt Engineering Corporation
Edmonton, AB

3:00 pm

AM-08-31

**New Oil Sands Upgrading
Technologies Wining Promises**

Jon Moretta
Director
Jacobs Consultancy Inc.
Chicago, IL

3:30 pm

AM-08-32

**Upgrading Bitumens from
Western Canada**

Larry Wisdom
Marketing Executive
Axens North America, Inc.
Princeton, NJ

4:00 pm

AM-08-33

**LC-FINING Options for
Heavy Oil Upgrading**

David Wadsworth
Americas Director
Chevron Lummus Global
Richmond, CA

4:30 pm

AM-08-36

**Strategies for Desalting Heavy
Western Canadian Feedstocks**

Lawrence Kremer
Technology Fellow
Baker Petrolite
Sugar Land, TX

**Technical Session:
FCC Technology**

2:00 pm – 5:00 pm
Manchester B

Presider:
Joe Coco
Executive VP, Operations
Flint Hills Resources
Wichita, KS

2:00 pm
AM-08-53
**Maximizing Flexibility for FCC's
Designed to Maximize Propylene**
Alan Claude
FCC Senior Technology Manager
KBR
Houston, TX

2:30 pm
AM-08-51
**The Effect of Hydrocarbon
Partial Pressure on Propylene
Production in the FCC**
Ruizhong Hu
Senior Principal Scientist
Grace Davison
Columbia, MD

3:00 pm
AM-08-54
**MILOS – Shell's Ultimate Flexible
FCC Technology in Delivering Diesel /
Propylene**
Mart Nieskens
Global Manager Catalytic Cracking
Shell Global Solutions, US
Houston, TX

3:30 pm
AM-08-52
**Pilot Plant Evaluation of FCCU
Catalyst Technology and Use of Data for
Commercial Catalyst Applications**
Cheryl Joyal
FCCU Technical Consultant
BP
Naperville, IL

4:00 pm
AM-08-50
**FCC Catalyst Optimization:
A Dynamic Approach for Today's
Changing Feedstocks & Refinery
Economics**
Darren Varrenkamp
Manager, Business Development
INTERCAT
Sea Girt, NJ

4:30 pm
AM-08-18
**FCC Regenerator Design to Minimize
Catalyst Deactivation and Emissions**
Chris Santner
Manager, Catalytic Cracking Technology
Shaw Stone & Webster
Houston, TX

Monday afternoon sessions
continue on next page.

**Technical Session:
Process Safety**

2:00 pm – 5:00 pm

Manchester C

Presider:

David Foster

VP of Refining

Alon USA, LP

Big Spring, TX

2:00 pm

AM-08-24

Delivering Process

Safety Performance Indicators

Garvin Thomas

Principal Consultant

SAIC, Inc.

Houston, TX

2:30 pm

AM-08-13

Implementing Overtime Guidelines

Paul Spicer

Shell Oil Products US

Houston, TX

3:00 pm

AM-08-22

US Chemical Safety Board:

Lessons Learned from

Recent Investigations

William Wark

US Chemical Safety Board

Washington, DC

3:30 pm

AM-08-23

**Effective Design of Overview Displays to
Support Operator Situation Awareness**

Paul Bullemer

Senior Partner

Human Centered Solutions LLP

Independence, MN

4:00 pm

AM-08-96

Understanding and Implementing

API RP753

Paul Tobia

General Manager

A Box 4 U

Wichita, KS

4:30 pm

AM-08-25

Reliability and Availability:

Lifecycle Lessons from Functional Safety

Iwan van Beurden

Director, Engineering

Exida

Sellersville, PA

Tuesday Morning

CEO Breakfast:

7:30 am – 9:15 am
Elizabeth ABCDE Ballroom



William R. Klesse
Chairman and CEO
Valero Energy Corporation

Prior to his appointment in January, 2006 as CEO and more recently in January, 2007 to Chairman of the Board, Klesse served as Executive Vice President and Chief Operating Officer, responsible for all operations, including refining and marketing for Valero Energy Corporation. He has served in numerous managerial capacities in engineering, petrochemical feedstocks, planning and development and marketing since joining Diamond Shamrock, now Valero, in 1969. Klesse has served on the NPRA Board of Directors since 1998 and as NPRA Chairman of the Board from 2004 - 2006.

Valero Energy Corporation is a Fortune 500 company based in San Antonio, Texas with approximately 21,000 employees and assets valued at \$38 billion. The largest refiner in North America, Valero has an extensive refining system with a throughput capacity of approximately 3.1 million barrels per day. The company's geographically diverse refining network stretches from Canada to the U.S. Gulf Coast and West Coast to the Caribbean. Valero also has a mid-stream logistics system that supports Valero's refining and marketing operations. A marketing leader, Valero has approximately 5,800 retail and wholesale stores in the United States, Canada and the Caribbean.

Issues Session

9:30 am – 12:00 pm
Elizabeth F

9:30 am – 10:45 am
NEP Panel

Moderator:
Rick Leicht
VP, Refining
National Cooperative Refinery Association
McPherson, KS

Panelists:
Jeff Bonnette
Manager, Integrated Management
Systems
CITGO Petroleum Corporation
Lake Charles, LA

Bobby Fischer
PSM Advisor
TOTAL Petrochemicals USA, Inc.
Houston, TX

Tina Drumheller
Process Safety Manager
Frontier Refining
El Dorado, KS

10:45 am – 12:00 pm
**Demographics and
Engineering Resources**

Joe Fowler
Chairman, Texas A&M Engineering
Council
President, Stress Engineering Services, Inc.
Houston, TX

Tuesday
March 11, 2008

Tuesday Morning

continued

Technical Session: Developing Carbon Dioxide Strategies

9:30 am – 12:00 pm

Elizabeth G

Presider:

Jim Gillingham

Senior VP, Alternative Fuels & Project
Development

Valero Energy Corporation

San Antonio, TX

9:30 am

AM-08-40

Economics, CO2 Balance and Energy Efficiency of Biofuels Production

Stephen McGovern, Consultant

Petrotech Consultants, LLC

Mantua, NJ

10:00 am

AM-08-39

Carbon Dioxide and Refining – Trends and Challenges

John Jenkins, Director

Jacobs Consultancy Inc.

Houston, TX

10:30 am

AM-08-38

GHG Emissions Performance Measurement and Management – The Missing Ruler

Bill Trout, Project Manager

Solomon Associates

Dallas, TX

11:00 am

AM-08-37

Carbon & Energy Management: Innovative Approaches for a Responsible Energy Future

Marc Tice, Americas Region Leader

Shell Global Solutions (US) Inc.

11:30 am

AM-08-41

Monitoring and Reducing a Refinery's Carbon Footprint

Diego Polanco, Senior Consultant

KBC Advanced Technologies, Inc.

Houston, TX

Technical Session: Crude Evaluation and Distillation

9:30 am – 12:00 pm

Elizabeth H

Presider:

Steve Jackson

VP, Refining and Transportation

Hunt Refining Company

Tuscaloosa, AL

9:30 am

AM-08-42

Improve Crude Selection By Better Understanding Crude Oil Quality

Pat Swafford

Solutions Consultant

Spiral Software

Shawnee, OK

10:00 am

AM-08-68

Managing High Acid Crudes

Craig Winslow

Senior Technology Consultant

GE Water & Process Technologies

10:30 am

AM-08-43

Cheyenne Yield Improvement Project - Recovering Maximum Diesel from Crude Oil Fractionation Process at Frontier Oil's Cheyenne Refinery

Tony Freeman

VP, Process Engineering

Koch Partners LP

Tyler, TX

11:00 am

AM-08-44

Diesel Recovery Options in Crude Unit Product Upgrade and Capacity Revamps

Andrew Sloley

Principal Engineer

CH2M Hill

Bellingham, WA

11:30 am

AM-08-85

Rerun and Off-Spec Product Recovery: New Opportunities with Industry Wide Benefits

Monica Mills

CEO

Intersource LLC

Dickinson, TX

**Technical Session:
Operations**

9:30 am – 12:00 pm
Manchester A

Presider:
Steve Cousins
VP, Refining
Lion Oil Company
El Dorado, AR

9:30 am
AM-08-87

The Journey to Operational Excellence

Kevin Smith
Operations Manager
KBC Advanced Technologies, Inc.
Aurora, CO

10:00 am
AM-08-49

**Managing Marine Logistics:
What You Don't Know CAN Hurt You**

Gerry Bemberg
Manager, Crude Supply, Heavy Fuels, &
Marine Logistics
TOTAL Petrochemicals USA, Inc.
Houston, TX

10:30 am

AM-08-46

**Tank Farm and Terminal Automation:
Developing a Business Case**

Patrick Truesdale
Senior Consultant
Emerson Process Management
Houston, TX

11:00 am

AM-08-86

**The Dawn of a New Age in Gasoline
Blend Scheduling**

Dean Trierwiler
Technical Manager
Haverly Systems, Inc.
Houston, TX

11:30 am

AM-08-48

Stoichiometric Combustion Control

Andy Wheeler
Engineering/Technical Support Manager
Bambeck Systems Inc.
Orange County, CA

Tuesday morning sessions
continue on next page.

**Technical Session:
FCC Technology**

9:30 am – 12:00 pm
Manchester B

Presider:
Joel Elstein
Refinery Manager
Flying J Inc.
North Salt Lake, UT

9:30 am
AM-08-19
FCC Revamp
Patrick LeRoy
TOTAL Refining
Harfleur, France

10:00 am
AM-08-17
**Tesoro FCC Regenerator Upgrade
Project, Salt Lake City**
Reza Sadeghbeigi
President
RMS Engineering, Inc.
Houston, TX

10:30 am
AM-08-16
**A New Technology for Reducing NOx
Emissions from FCC Regenerators**
Ye-Mon Chen
Regional Manager, Cat Cracking
Shell Global Solutions, US
Houston, TX

11:00 am
AM-08-21
**Capturing Value Through Optimization
of FCC Catalyst Technology for
Processing Opportunity Feedstocks
Derived from Canadian Oil Sands**
Joseph McLean
Commercial Manager, Refining
BASF Catalysts, LLC

11:30 am
AM-08-20
**Impact of Bitumen Derived Feeds
on the FCC**
Keith Couch
Senior Manager, FCC and Treating
Refining Conversion Development
UOP LLC
Des Plaines, IL

**Technical Session:
Profit Improvement**

9:30 am – 12:00 pm

Manchester C

Presider:
Robert Kent
VP & GM, Lemont Refinery
CITGO Petroleum Corporation
Lemont, IL

9:30 am
AM-08-45
**Gasification Technology:
Generating Profit from
the Bottom of the Barrel**

Joachim Wolff
Shell Global Solutions US
Chester, England

10:00 am
AM-08-58
**Maximizing Value for Refinery
“Orphan” Products**

Randy Velarde
President
The Plaza Group
Houston, TX

10:30 am
AM-08-92
**A Bold Move in Hydrocracking
Catalyst Selection Resulted in a
Record Run Length and Significant
Boost in Hydrocracker Margins**

Tina Swangphol
Hydrocracking Technical Service
Engineer
Criterion Catalyst & Technologies
Zeolyst International
Houston, TX

11:00 am
AM-08-88
**A New Process Approach to
Hydrotreating Coker Naphtha**

Raj Patel
Principal Hydroprocessing Engineer
Haldor Topsoe, Inc.
Orange County, CA

11:30 am
AM-08-93
**Results of Antifoulant in
Delayed Coker Furnace**

Jeff Williams
Manager, Engineering
Delek Refining Ltd.
Tyler, TX

Tuesday Noon

Annual Luncheon

12:00 pm – 2:00 pm
Elizabeth ABCDE Ballroom



Tony Snow

Former White House Press Secretary and FOX News Channel personality

As White House Press Secretary, Tony Snow faced an intrepid and aggressive White House Press Corps with characteristic grace, wit and aplomb—even while battling cancer.

Tony Snow discusses the most important developments in the world today: the explosion of economic competition around the globe; the rise of radical terror movements amidst the weakening of older autocratic governments in the Middle East and Asia; the advent of asymmetrical warfare; the rise of instant communication and the fall of the traditional media; the challenge of immigration in advanced industrial nations; declining populations in Europe; rising populations in the Muslim world; and the inability of venerable international institutions (including the United Nations and the World Bank) to keep pace.

Snow draws these and other themes together in describing international challenges to America's foreign policy too large to overlook and too important not to address effectively. He will describe how America remains the world's vital superpower – and what the country will need to do in order to maintain not only its edge, but fulfill its international responsibilities.

Tuesday Afternoon

Technical Session: Renewable Fuels

2:00 pm – 4:30 pm
Elizabeth F

Presider:
Nina Thornton
Refining, Supply, Trading and
Optimization
TOTAL Petrochemicals USA, Inc.
Houston, TX

2:00 pm
AM-08-77
Ethanol – Absorbing the Deluge
Kevin Waguespack
Vice President
Baker & O'Brien, Inc.
Houston, TX

2:30 pm
AM-08-78
**How Will Biofuels Challenge
Petroleum Refining?**
Ronald Cascone
Manager, Biofuels Development
and
Bruce Burke
VP, Energy Resources Global
Business Unit
Nexant Inc.
White Plains, NY

3:00 pm
AM-08-80
**Biofuels: New Opportunities for
Co-Processing Renewable Feeds in
Refinery Process Equipment**
Brian Watkins
Team Leader, Performance Testing
Advanced Refining Technologies
Columbia, MD

3:30 pm
AM-08-81
**Converting Pyrolysis Oils to
Renewable Transport Fuels:
Processing Challenges &
Opportunities**
Jennifer Holmgren
Director, Renewable Energy & Chemicals
UOP LLC
Des Plaines, IL

4:00 pm
AM-08-79
**Renewable Raw Materials for Fuels
and Petrochemicals Production**
Andrea Pinho
Senior R&D Researcher
PETROBRAS - Petroleo Brasileiro S.A.
Rio de Janeiro, Brazil

Management Session

2:00 pm – 4:30 pm

Elizabeth G

Presider:

Ernie Cagle

VP, Manufacturing
Murphy Oil USA, Inc.
El Dorado, AR

2:00 pm

AM-08-59

Gasoline or Diesel?

Joseph Jacobs

Senior Staff Consultant
KBC Advanced Technologies, Inc.
Houston, TX

2:30 pm

AM-08-56

The Potential Contribution of Coal-to-Liquids Technology to the US and Global Energy Pool

Iraj Isaac Rahmin

President
E-Meta Venture, Inc.
Houston, TX

3:00 pm

AM-08-89

Capital Projects Survey

Vance Scott

Vice President and Partner
A.T. Kearney
Chicago, IL

3:30 pm

AM-08-57

A Fresh Look at Project Evaluation & Execution

James Jones

Senior VP
Turner, Mason & Co.
Dallas, TX

4:00 pm

AM-08-55

Value Engineering in an Escalating Business Environment

David Nash

Principal Process Engineer
Chicago Bridge & Iron
Tyler, TX

Technical Session: Workforce

2:00 pm – 4:30 pm

Elizabeth H

Presider:

Jay Churchill

Refinery Manager
ConocoPhillips
Wilmington, CA

2:00 pm

AM-08-72

Where Have All the Workers Gone?

Paul Weissgarber

VP & Partner
A.T. Kearney
Dallas, TX

2:30 pm

AM-08-69

Managing the Challenges of Complex Operations and Work Force Changes: Are You Ready?

Tom Ratajczak

Sr. Manager, Asset
UOP LLC
Des Plaines, IL

3:00 pm

AM-08-70

The Challenges and Rewards of Hiring Hourly Employees

Clarence Trowbridge

Training Manager
BP
Carson, CA

3:30 pm

AM-08-71

Enhancing Operator Effectiveness with Tools, Training and Processes

David Holden

Business Consulting Director
Invensys Process System
Houston, TX

4:00 pm

AM-08-90

Evolving Best Practices Through Simulation-based Training

Dennis Nash

President & CEO
Control Station, Inc.
Tolland, CT
and
Ron Smith
Training Coordinator
Chevron Products Company
El Segundo, CA

Tuesday afternoon sessions
continue on next page.

Tuesday Afternoon

continued

Technical Session: Hydrogen & Refinery Off-gas Systems

2:00 pm – 4:30 pm
Manchester A

Presider:
Pat Lavergne
Refinery Technical Manager
Houston Refining, LP
Houston, TX

2:00 pm
AM-08-74
**Hydrogen Costs and Issues –
Gasification vs. SMR**

Dale Simbeck
Vice President
SFA Pacific, Inc.
Mountain View, CA

2:30 pm
AM-08-73
**Commercialization of New Low-cost
Hydrogen Recovery Process:
Rapid-cycle Pressure Swing
Adsorption**

Bal Kaul
Sr. Engineering Associate
ExxonMobil Research and Engineering Co.
Fairfax, VA

3:00 pm
AM-08-76
**Economic LPG Recovery from
Stranded Low Pressure Gas**

Kevin Currence
Principal Process Engineer
Black & Veatch
Overland Park, KS

3:30 pm
AM-08-75
**Refinery Off Gas Treatment
and Recovery – Challenges of
Designing ROG Units**

Sheng-Yi Chuang
Staff Technologist
Technip USA, Inc.
Houston, TX

4:00 pm
AM-08-91
**Problem-Free Sulfur Plant Startups
with Pre-Activated Tail Gas Catalyst**

Mike Schmidt
Director, Sales and Marketing
Axens North America Inc.
Houston, TX

Technical Session: Energy Economics

2:00 pm – 4:30 pm
Manchester B

Presider: *J. Fred Hill, Jr.*
Manager, Refining Technologies and RAD
Marathon Petroleum Company LLC
Findlay, OH

2:00 pm
AM-08-62
**Economics of Refinery Energy Saving
Projects in a Changing Market**

Douglas White
VP, APC Services
Emerson Process Management
Houston, TX

2:30 pm
AM-08-61
**Rapid Excel Modeling for the Optimization
of Refinery Energy Systems**

Charles Der
Business Development Manager
Praxair Inc.
Houston, TX

3:00 pm
AM-08-60
**Sustaining Refinery Energy
Improvement Using Solomon's
NCM3 Methodology**

Chris Bustamante
Senior Energy Consultant
HSB Solomon Associates LLC
Dallas, TX

3:30 pm
AM-08-63
Energy Management System

Nick Spates
Vice President
Modular Process Control, LLC
Atlanta, GA

4:00 pm
AM-08-94
**Exponential Gains Through
Incremental Change**

Jim Brigman
Executive VP
Ingenero
Houston, TX

**Technical Session:
Reliability**

2:00 pm – 4:30 pm
Manchester C

Presider:
Roger Lyle
VP, Northeast Refining
Sunoco Inc.
Philadelphia, PA

2:00 pm
AM-08-64
**How Marathon Petroleum's Reliability
Initiative Changed MPC**

Lance Holmer
Technical Specialist, Refining Engineering
Marathon Petroleum Company LLC
Robinson, IL
and
Marty Moran
Senior Consultant
Meridium Inc.
Houston, TX

2:30 pm
AM-08-67
Gray Matter(s) in Human Reliability

Jim Stephanou
VP, POSM Global Assets
Bayer Corporation
Pittsburgh, PA

3:00 pm
AM-08-47
**Enhancing Plant Asset
Management in Process Industries
with Wireless Retrofits**

David Siegel
Senior VP, Product Development
AirSprite Technologies
Marlborough, MA

3:30 pm
AM-08-66
**Risk-Informed Inspection:
Developing Plans to Load into
Asset Management Systems**

J.K. August
COO, VP Operations
CORE, Inc.
Boulder, CO

4:00 pm
AM-08-65
**Inspection and Monitoring of Coke
Drums for Life Extension and Safety**

Tej Chadda
Chief, Design Technologies
Foster Wheeler USA Corporation
Houston, TX

Tuesday Evening

Closing Event: Experience the USS Midway

6:30 pm – 9:30 pm

USS Midway Museum, North Harbor Drive, San Diego, CA

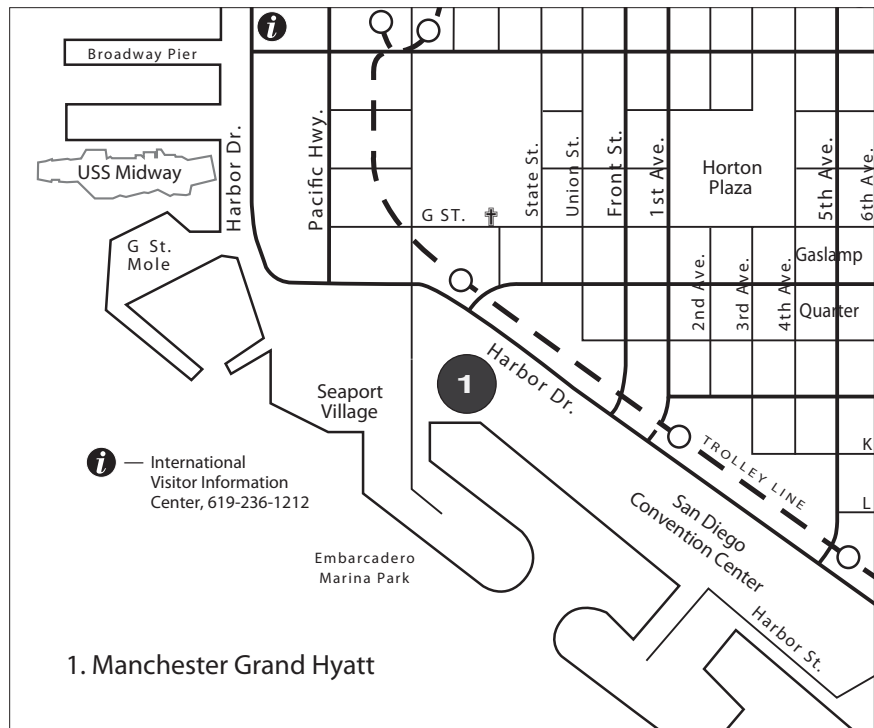
This evening, we'll "experience the USS Midway," a naval museum permanently docked in San Diego Bay. Explore restored aircraft on the flight deck, climb aboard a simulator to experience the exhilaration of naval aviators who flew off Midway, and see what life was like for over 225,000 Americans who served from WWII to Desert Storm during a back of the house tour.

When you're ready to take a break, head back to the hangar bay where food, drink, and entertainment will be available all evening long.

The USO show presented by "Flamingo Express" will also take place in the hangar bay. This high-spirited and talented group of musicians is sure to entertain one and all. These crowd-pleasers have made appearances at previous NPRA functions and received rave reviews across the board! And this time, there will be surprise special appearances and a truly unusual treat. Hint: Pay attention to the stage.

Attire: Business Casual. Comfortable flat walking shoes suggested due to open stairs and cement floors.

Continuous shuttle transportation provided beginning at 6:15 pm or guests may take a short leisurely stroll down Harbor Avenue to the ship. See map at right.



Sponsors

NPRA thanks the following companies for sponsoring events at this year's meeting.

Aspen Technology Inc.

Monday Networking Activities

Baker Petrolite

*Audio Visual – Monday Afternoon
“Synthetic Crude Oil Challenges”
Technical Session*

BASF Catalysts LLC

Hospitality Brochure

CB&I

*Audio Visual – Tuesday Afternoon
“Management” Session*

Dresser-Rand Company

Email Stations

GE Infrastructure

Conference Bags

Grace Davison Refining Technologies and Advanced Refining Technologies

Final Program

Hart Energy

Closing Reception Beverage Service

Hydrocarbon Processing Magazine

Show Daily

Pavilion Technologies

*Audio Visual – Monday Afternoon
“Hydroprocessing” Technical Session*

SAIC

Tuesday Networking Activities

Press Wall Sponsors

Fuel, A Hart Energy Publication
Hydrocarbon Engineering
Hydrocarbon Processing
Oil & Gas Journal

NPRA Meeting Schedule 2008 – 2009

2008

March 4 - 5

Security Conference

The Woodlands Waterway Marriott
The Woodlands, TX

March 9 - 11

106th Annual Meeting

Manchester Grand Hyatt
San Diego, CA

March 30 - April 1

33rd International Petrochemical Conference

Henry B. Gonzalez Convention Center
San Antonio, TX

April 15

NPRA/API Operating Practices Symposium

New Orleans, LA

April 17 - 18

Labor Relations / Human Resources Conference

Renaissance Harborplace Hotel
Baltimore, MD

May 7 - 8

National Safety Conference

The Woodlands Waterway Marriott
The Woodlands, TX

May 20 - 23

Reliability & Maintenance Conference and Exhibition

Henry B. Gonzalez Convention Center
San Antonio, TX

August 19 - 20

Cat Cracker Seminar

Intercontinental Hotel
Houston, TX

September 7 - 9

Board of Directors Meeting

Hyatt Regency Lake Tahoe Resort
Incline Village, NV

September 15 - 16

Environmental Conference

The Westin Riverwalk
San Antonio, TX

October 5 - 8

Q&A and Technology Forum

*Includes the Process
Automation Conference*
Omni Orlando Resort at Champions Gate
Orlando, FL

November 11

NPRA/API Operating Practices Symposium

Los Angeles, CA

November 13 - 14

International Lubricants & Waxes Meeting

Marriott Westchase
Houston, TX

2009

March 22 - 24

107th Annual Meeting

Marriott Rivercenter Hotel
San Antonio, TX

March 29 - 31

34th International Petrochemical Conference

Henry B. Gonzalez Convention Center
San Antonio, TX

NPRA Environmental Commitment Statement

Members of the NPRA are dedicated to continuing improvement of the environmental quality of our processing facilities and products. We recognize that environmental progress and protection can be achieved only through strong commitment and constant vigilance. The members believe that environmental and economic progress is linked and that the failure to achieve either would be damaging to society.

NPRA members pledge to inform, consult, and work with their employees, the general public and government leaders in addressing concerns regarding health, safety, security, and environmental matters associated with process activities and facility operations. NPRA members support research and other advancements in science and technology which enhance environmental protection and security through efficient practices.

NPRA Antitrust Policy

The National Petrochemical & Refiners Association is a nonprofit, tax-exempt membership association organized to foster cooperation and the exchange of technical information among its members. These worthwhile activities are sanctioned by custom and law. It is important, however, to recognize that these activities are subject to the legal limits of federal and state antitrust laws. NPRA is committed to complying with the antitrust laws in all respects and has adopted the following guidelines in order to facilitate compliance with the antitrust laws at its meetings:

As a general matter, the antitrust laws prohibit competitors from agreeing on the prices they will charge, the products they will offer, the customers they will serve, or the markets in which they will compete. Therefore, there should be no discussion or disclosure of information with respect to (a) expected profits, premiums, prices, surcharges, or discounts; (b) specific customers or classes of customers, or whether you will or will not do business with them; (c) proposed product offerings; (d) allocation of geographic or product markets; (e) any refusal to deal with a customer or supplier; (f) how to deal with the market behavior of a competitor; or (g) any other topic involving a potentially anticompetitive practice.

Some subjects of discussion may lead to agreements that are not unlawful on their face but that may have an unlawful anticompetitive effect or may give rise to the inference of an anticompetitive act, depending upon their scope and how they are implemented. Other subjects may appear to be prohibited by the antitrust laws but in fact may be permitted because of the context or ultimate purpose of the communication. Whether discussing a subject is permissible may vary depending on factors such as the nature of the subject matter, its relationship to competition among NPRA members, the purpose of the communication, and the degree of restraint that NPRA members can be expected to exercise.

We cannot make a statement that will take the place of advice from your own company or that will cover every situation. We do suggest that those attending our meetings may avoid difficulties for themselves and for the Association by observing these principles and calling to NPRA's attention any violations you may observe at any of our meetings.



The GENESIS™ Catalyst System

Maximize yield with Grace Davison's GENESIS FCC catalyst.

Most refiners need flexible catalyst systems that allow them to take advantage of changing economic scenarios. Grace Davison delivers this flexibility with the GENESIS catalyst system. GENESIS catalysts provide a means to maximize yield potential through optimization of discrete cracking catalyst functionality. GENESIS catalysts are a blend of two catalyst types. The key component is MIDAS, which maximizes conversion of bottoms and improves coke selectivity by eliminating coke precursors. The other GENESIS component is most often an IMPACT catalyst. The inclusion of IMPACT provides critical zeolite surface area and activity as well as superior coke and gas selectivity in a broad range of applications, from severely hydrotreated gasoils to heavy resid feeds.

GENESIS catalysts demonstrate a true yield synergy with a superior coke to bottoms relationship than either component alone. The synergy exists because each component cracks specific feed species.

GENESIS catalyst provides
the ultimate in formulation
and FCC operational flexibility.

For more information, contact your Grace Davison Technical Sales Manager

www.grace.com 7500 Grace Drive • Columbia, MD 21044 USA

GRACE

Program and registration
book compliments of
Grace Davison Refining Technologies and
Advance Refining Technologies.

GRACE Davison



GRACE



NPRA

National Petrochemical & Refiners Association

1899 L Street, NW
Suite 1000
Washington, DC
20036.3896

202.457.0480
www.npra.org

© 2008 National Petrochemical &
Refiners Association