

Strategic Challenges
Innovative Solutions

107th NPRA Annual Meeting

Marriott Rivercenter Hotel
San Antonio, Texas
March 22 – 24, 2009



NPRA

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107th NPRA Annual Meeting

National Petrochemical & Refiners Association

107th Annual Meeting
March 22 - 24, 2009
Marriott Rivercenter Hotel
San Antonio, TX

Registration

Conference Rooms 1-4
Sunday: 9:00 am – 8:00 pm
Monday: 7:00 am – 5:00 pm
Tuesday: 7:00 am – 12:00 pm

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NPRA

Schedule of Events

All events at the Marriott Rivercenter Hotel unless noted.

Sunday, March 22

10:00 am – 12:00 pm

Government Relations Committee Meeting

Conference Rooms 13, 14

10:00 am – 12:00 pm

Legal Committee Meeting

Conference Room 7

12:00 pm – 1:00 pm

Legal Committee Lunch

Conference Room 8

1:00 pm – 3:00 pm

Issues Committee Meeting

Conference Rooms 13, 14

3:00 pm – 5:00 pm

Manufacturing Committee Meeting

Conference Rooms 13, 14

6:00 pm – 8:00 pm

Opening Reception

Grand Ballroom Salons A–F

Committee meetings are open to committee members only.

Cover photo ©Shutterstock

Monday, March 23

8:00 am – 9:30 am

Early Bird Coffee and Rolls

Grand Ballroom Prefunction

7:30 am – 9:00 am

Government Relations Breakfast*

“Energy Policy in 2009: NPRA and the 111th Congress”

Salon I

7:30 – 9:00 am

Crude & Refined Products Breakfast*

Salon H

7:30 am – 9:00 am

Wax Subcommittee Meeting

Conference Room 12

7:30 am – 9:00 am

Q&A Screening Committee Meeting

Salon M

10:00 am – 2:00 pm

Spouse Tour: Artisans Alley & Bin 555*

Transportation departs the Commerce Street entrance at 10:00 am.

9:30 am – 11:30 am

General Session

Grand Ballroom Salons A–F

11:30 pm – 3:00 pm

Executive Committee Meeting

Conference Room 8

12:00 pm – 2:00 pm

Lubricants & Waxes Committee Meeting

Conference Room 12

2:00 pm – 5:00 pm

Issues and Technical Sessions

- Distillate Hydroprocessing - *Salon G*
- Synthetic Crude Processing - *Salon H*
- Plant Operations - *Salon I*
- Issues - *Salon J*
- Plant Automation - *Salons K,L*

2:00 pm – 3:00 pm

L&W09 Program Committee Meeting

Conference Room 12

Tuesday, March 24

7:30 am – 9:15 am

CEO Breakfast*

Featuring Lynn Elsenhans, Chairman, Chief Executive Officer, and President, Sunoco, Inc.
Grand Ballroom Salons A–F

9:30 am – 11:00 am

Board of Directors Meeting

Conference Rooms 17, 18

9:30 am – 12:00 pm

Issues and Technical Sessions

- FCC Technology - *Salon G*
- Crude Oil Supply - *Salon H*
- Refining & Fuels Strategies - *Salon I*
- Issues - *Salon J*
- Energy Optimization – *Salons K,L*

12:00 pm – 2:00 pm

Annual Luncheon*

Featuring Mary Matalin and James Carville
Grand Ballroom Salons A–F

2:00 pm – 4:30 pm

Management and Technical Sessions

- FCC Operations - *Salon G*
- Heavy Oil Markets and Technologies - *Salon H*
- Refinery Investments - *Salon I*
- Safety and Asset Integrity - *Salon J*
- Gasoline and Petrochemicals - *Salons K,L*

* Ticketed Function

Message from the Chairman



Kevin W. Brown
Chairman of the Board
NPRA

Executive Vice President,
Operations
Sinclair Oil Corporation
Salt Lake City, UT

Welcome to San Antonio and the 107th Annual Meeting of NPRA, the National Petrochemical and Refiners Association!

American businesses and consumers alike are facing change and uncertainty on a number of fronts. In Washington, a new Administration and Congress are seeking to change the direction of the country to reflect their priorities through a number of policy proposals and initiatives – while attempting to restore the health of our nation's economy. Here in Texas, and across the country, NPRA's members, like all businesses across the economic spectrum, are faced with making changes to adapt to the realities of a troubled economy. Despite these uncertainties, our businesses and employees continue to safely and reliably provide the products that keep America moving and will help power our economic recovery. Our domestic petrochemical and refining communities are an essential part of the solution to the challenges American consumers and businesses currently face. On your behalf, NPRA is committed to advocacy that will educate the Administration and Congress on our role in building and sustaining a dynamic American economy, hopefully providing timely and accurate information that will help balance a new set of political priorities with economic reality.

We are once again pleased to welcome an exceptional cast of speakers to the Annual Meeting. This year's lineup includes Lynn Elsenhans, Chairman, Chief Executive Officer and President of Sunoco, Inc.; Mary Matalin and James Carville, both renowned political commentators and television personalities; Rich Karlgaard, publisher of *Forbes* magazine and bestselling business author; John Hofmeister, former President of Shell Oil Company and founder of Citizens for Affordable Energy; and Christopher Horner, Senior Fellow at the Competitive Enterprise Institute and bestselling author.

This year's technical program features nearly 75 presentations in a wide variety of sessions that include refining and fuels strategies, safety and asset integrity, plant operations, and energy optimization. Together with a number of traditional topics, timely additions to this year's program also include sessions on refinery investments and synthetic crude processing.

The issues-oriented sessions will, as always, provide insightful analysis and discussion of major public policy topics important to our businesses and customers. Among other topics, this year's sessions will explore the potential for greenhouse gas regulation under existing law and the possible implications of the institution of mid-level ethanol blends.

The industry and policy experts assembled at this year's Annual Meeting provide a unique and unparalleled opportunity for you to gain knowledge that will enable you to better understand and focus on the challenges facing the refining and petrochemical communities today and tomorrow. From the industry's most comprehensive technical program, to robust discussions of key public policy issues, to a host of other opportunities, we hope that you are able to take full advantage of all that this year's program has to offer.

Thank you for your continued support of NPRA, and we wish you a productive and enjoyable 2009 Annual Meeting!

Government Relations Breakfast

7:30 am – 9:00 am
Grand Ballroom – Salon I

**Monday
March 23, 2009**



Rep. Henry Cuellar (D-TX)
Member, House Homeland Security Committee



Rep. Gene Green (D-TX)
Member, House Energy and Commerce Committee



Rep. Charles A. Gonzales (D-TX)
Member, House Energy and Commerce Committee



Rep. Ciro D. Rodriguez (D-TX)
Member, House Appropriations Committee

**Energy Policy in 2009:
NPRA and the 111th Congress**

Leading Legislators in the U.S. House of Representatives – all members of the “Blue Dog” Caucus of conservative Democrats or the New Democrat Coalition of moderate, pro-growth Democrats – provide their insights into the energy and chemicals policies they expect to see front and center in 2009, as well as their thoughts, as moderate Democrats representing “oil patch” districts, on how the nation’s refining and

petrochemical industries should interact with the House of Representatives during the first year of the 111th Congress. This panel discussion will be moderated by NPRA’s government relations staff and will include the opportunity for questions from attendees. If “change” is coming to Capitol Hill in 2009, these are the legislators that will be at the forefront of those changes.

NPRA Distinguished Safety Award (DSA)

NPRA's most prestigious safety award is presented annually to member company facilities which have attained a superior level of safety performance in the refining and petrochemical manufacturing industries. Recipients are chosen by a selection committee comprised of members of the NPRA Safety & Health Committee. Winners will also be recognized at the NPRA Annual Safety Awards Banquet to be held May, 13 at the Gaylord Texan in Grapevine, Texas, as part of the NPRA National Safety Conference.

Receiving the DSA this year:

Billings Refinery
ConocoPhillips

Baton Rouge Polyolefins
ExxonMobil Chemical

Receiving the DSA Honorable Mention this year:

Borger Refinery
ConocoPhillips WRB Refining, LLC

General Session

9:30 am – 11:30 am
Grand Ballroom Salons A-F



Charles T. Drevna
President
NPRA



Kevin W. Brown
Chairman of the Board
NPRA



Rich Karlgaard
Publisher
Forbes

Rich Karlgaard is the publisher of *Forbes* – the popular business and financial magazine read by 4.5 million people. He writes a column called Digital Rules which addresses technology, entrepreneurship, regional and economical development, and the future of business and work. Mr. Karlgaard will cover these topics and more in his presentation “Global Economy and Markets – Facts and Forecasts in 2009.”



Tony Blankley
Executive Vice President
for Global Affairs
Edelman

Tony Blankley is a distinctive voice in political analysis. He has spent his career in pivotal positions with influential policy-makers, serving as press secretary for former Speaker of the House Newt Gingrich, and speechwriter and senior policy analyst for President Reagan. Blankley's knowledge and wit have made him one of today's leading commentators appearing on the McLaughlin Group, Hardball and Crossfire, among others. His insights take audiences into the heart of American politics, and provide an engaging forum full of ideas and shrewd observations of democracy in action.

Monday morning General Session continues on next page.

General Session

continued from page 5

9:30 am – 11:30 am
Grand Ballroom Salons A-F

**The Policy and Politics of
Global Climate Change**



John Hofmeister
Founder and Chief Executive
Citizens for Affordable Energy

Mr. Hofmeister, upon retirement as President of Shell Oil Company in July, 2008, founded and heads the nation-wide membership association, Citizens for Affordable Energy. This Washington, DC-registered, public policy education firm will exist to promote sound U.S. energy security solutions for the nation, including a range of affordable energy supplies, efficiency improvements, essential infrastructure, sustainable environmental policies and public education on energy issues.



Christopher Horner
Senior Fellow
Competitive Enterprise
Institute

As an attorney in Washington, DC, Mr. Horner has represented CEI as well as scientists and Members of the U.S. House and Senate on matters of environmental policy in the federal courts including the Supreme Court. He has written on numerous topics in publications ranging from law reviews to legal and industrial trade journals to print and online opinion pages, and is the author of two best-selling books on climate change.

Spouse Tour

10:00 am – 2:00 pm

Artisans Alley and Bin 555

Today is a day for shopping, sampling and sipping. We will begin the tour with the short drive to Artisans Alley in Hill Country Village, home to a mecca of twenty unique, locally owned shops. The shops offer gifts, trend setting clothing, jewelry, fine antiques, decorative furniture, pottery and many other items.

Conclude your shopping excursion with another unique experience, a “tasting” lunch at Bin 555 Restaurant and Wine Bar. You’ll enjoy this innovative restaurant which offers small plate courses paired with wine flights to satisfy your palette. Its contemporary casual ambiance provides the perfect setting for a relaxing meal before your return to town.

Lunch and transportation included.
**Buses depart the Marriott Rivercenter
Hotel Commerce Street entrance at
10:00 am.**

Monday Afternoon

Issues Session

2:00 pm – 5:00 pm
Salon J

Presider:
Rick Leicht
Vice President, Refining
NCRA
McPherson, KS

2:00 pm
**Greenhouse Gas Regulation
Under Existing Laws**

Chet Thompson
Crowell Moring
Washington, DC

Roger Martella
Sidley Austin
Washington, DC

3:30 pm
**Perspectives on the RFS 'Blendwall'
and Mid-Level Ethanol Blends**

Geoff Cooper
Renewable Fuels Association
Ellisville, MO

Coleman Jones
General Motors
Detroit, MI

Kris Kiser
Outdoor Power Equipment Institute
Alexandria, VA

Technical Session: Distillate Hydroprocessing

2:00 pm – 5:00 pm
Salon G

Presider:
Steve Jackson
Vice President, Refining and
Transportation
Hunt Refining
Tuscaloosa, AL

2:00 pm
AM-09-10
**Dieselization in North America:
Flexible Solutions for a Range of
Future Diesel Product Requirements**

Robert Karlin
Shell Global Solutions
Houston, TX

2:30 pm
AM-09-13
**Economic Conversion to
Maximize Distillate Production**

Tim Hilbert
ExxonMobil
Fairfax, VA

3:00 pm
AM-09-14
**Experiences in Maximizing
Performance of ULSD Units**

Bob Leliveld
Albemarle Corporation
Houston, TX

3:30 pm
AM-09-78
**Distillate Pool Maximization by
Utilizing Opportunity Feedstocks such
as LCO and Synthetic Crudes**

Brian Watkins
Advanced Refining Technologies
Chicago, IL

4:00 pm
AM-09-15
**Next Generation
BRIM™ Catalyst Technology**

Lars Skyum
Haldor Topsoe
Lyngby, Denmark

4:30 pm
AM-09-11
**Beyond ULSD: Technology
Enhancements to Improve
Distillate Product Quality**

Larry Kraus
Criterion Catalysts & Technologies
Houston, TX

Monday afternoon sessions
continue on next page.

**Technical Session:
Synthetic Crude Processing**

2:00 pm – 5:00 pm

Salon H

Presider:

Gary Fuller

Senior VP, Refining Operations

Holly

Dallas, TX

2:00 pm

AM-09-16

A Comparison of Life Cycle Carbon Emissions from Conventional and Unconventional Heavy Crudes

William Keesom

Jacobs Consultancy

Chicago, IL

2:30 pm

AM-09-18

Understanding the Quality of Canadian Bitumen and Synthetic Crudes

Pat Swafford

Spiral Software Ltd.

Shawnee, OK

3:00 pm

AM-09-21

**Canadian Crudes:
How Much Can I Process?**

Rashid Iqbal

KBR

Houston, TX

3:30 pm

AM-09-20

**Organic Acid Structure –
A Correlation with Corrosivity**

Bill Lywood

Crude Quality Inc.

Edmonton, AB Canada

4:00 pm

AM-09-19

Characterization and Catalytic Cracking of Synthetic Crude Feedstocks

Rosann Schiller

Grace Davison

Columbia, MD

4:30 pm

AM-09-17

Are Coal Liquids Ready for Refineries?

Katerina Deem

KBC Advanced Technologies, Inc.

Houston, TX

**Technical Session:
Plant Operations**

2:00 pm – 5:00 pm
Salon I

Presider:
Jay Churchill
Refinery Manager,
ConocoPhillips
Wilmington, CA

2:00 pm
AM-09-31
**Fouling and Corrosion in
Crude Towers and How to Avoid It**
Fouad Aly
KBR

2:30 pm
AM-09-32
**Online Cleaning Improves Turnaround
and Operational Excellence**
Marcello Ferrara
ITW S.r.l.
Augusta, Italy

3:00 pm
AM-09-33
**Maximizing Diesel from
Existing Assets**
Richard Rossi
UOP
Des Plaines, IL

3:30 pm
AM-09-28
Advanced Operator Interface Design
Bob Zapata
ConocoPhillips
Ponca City, OK

4:00 pm
AM-09-29
**Workforce Planning for
Maximum Results**
Don McCord
Marathon Oil Company
Robinson, IL

4:30 pm
AM-09-30
**Mitigating Risk through
Better Decision Making:
Contractor Management Best Practices**
Bonney Hodges
ISNetwork
Dallas, TX

Monday afternoon sessions
continue on next page.

Monday Afternoon

continued

Notes

Technical Session: Plant Automation

2:00 pm – 5:00 pm

Salons K,L

Presider:

Dave Foster

VP of Refining

Alon

Big Spring, TX

2:00 pm

AM-09-25

Title-V Monitoring Implementation (with Efficiency Feedback Control)

Richard Hovan

Pavilion Technologies

Frisco, TX

2:30 pm

AM-09-26

Case Study Success: Legacy DCS Migration

Ryan Schulz

Marathon Oil Company

Garyville, LA

3:00 pm

AM-09-22

Leveraging the Installed Process Automation Infrastructure at Syncrude Canada Ltd.

John MacGowan

Syncrude Canada Ltd.

Fort McMurray, AB Canada

3:30 pm

AM-09-27

Next Generation Decision Making

David Scardaville

Science Applications International

Corporation (SAIC)

Houston, TX

4:00 pm

AM-09-23

Application of Simulation Models in Operations: A Success Story

David Schumann

Valero Energy

Paulsboro, NJ

Tuesday Morning

CEO Breakfast

7:30 am – 9:15 am
Grand Ballroom Salons A-F



Lynn Laverty Elsenhans
Chairman, CEO and President,
Sunoco, Inc.

A veteran oil industry executive with domestic and international experience in manufacturing, marketing and planning, Ms. Elsenhans joined Sunoco most recently from Royal Dutch Shell where she served since 2005 as executive vice president of global manufacturing. From 2003 to 2005, Ms. Elsenhans served concurrently as president of Shell Oil Company and president and chief executive officer of Shell Oil Products U.S.

Sunoco, Inc., headquartered in Philadelphia, PA, is a leading manufacturer and marketer of petroleum and petrochemical products. With 910,000 barrels per day of refining capacity, approximately 4,700 retail sites selling gasoline and convenience items, approximately 5,500 miles of crude oil and refined product owned and operated pipelines and 38 product terminals, Sunoco is one of the largest independent refiner-marketers in the United States.

Issues Session

9:30 am – 11:00 am
Salon J

President:
Steve Cousins
Vice President of Refining
Lion Oil
El Dorado, AR

9:30 am
**Beyond Ethanol:
Second Generation Biofuels**

Pat Gruber
Chief Executive Officer
GEVO
Englewood, CO

Robert Ames
Vice President
Tyson Foods
Vernon, TX

Neville Fernandes
Business Manager, Renewable Fuels
Neste Oil
Houston, TX

Chris Peters
Vice President
Choren Industries USA
Houston, TX

Tuesday
March 24, 2009

Tuesday Morning

continued

Technical Session: FCC Technology

9:30 am – 12:00 pm
Salon G

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

9:30 am
AM-09-34

The Role of FCC Catalyst Technology in Maximizing Diesel Production: Two North American Refinery Success Stories

Joseph McLean
BASF Catalysts, LLC
Houston, TX

10:00 am
AM-09-35

FCC Design Advancements to Reduce Energy Consumption and CO₂ Emissions

Lisa Wolschlag
UOP
Des Plaines, IL

10:30 am

AM-09-37

New Technology Provides Opportunities in FCC Regenerator Emissions Control

Alan Kramer
Albemarle Corporation
Houston, TX

11:00 am

AM-09-36

A Cost-Effective Solution for Reducing FCC NO_x Emission

Ye-Mon Chen
Shell Global Solutions
Houston, TX

11:30 am

AM-09-38

An Alternative to FCC Flue Gas Scrubbers

John Sawyer
Pall Corporation
Scottsdale, AZ

Technical Session: Crude Oil Supply

9:30 am – 12:00 pm
Salon H

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

9:30 am
AM-09-43

Factors that Impact Crude Oil Pricing

Thomas Hogan
Turner, Mason & Company
Dallas, TX

10:00 am
AM-09-41

U.S. Crude Oil Imports: Recent Trends and their Impact on Refining

Praveen Gunaseelan
Exponent, Inc.
Houston, TX

10:30 am
AM-09-40

Canadian Oil Sands Crudes: What Goes Where?

Thomas Wise
Purvin & Gertz, Inc.
Calgary, AB Canada

11:00 am
AM-09-42

Identifying and Mitigating Opportunity Crude Impacts

Sam Lordo
Nalco Energy Services
Sugar Land, TX

11:30 am
AM-09-39

Enhancing Desalter Performance to Successfully Process High Metal Crudes

Jeffrey Zurlo
GE Water & Process Technologies
The Woodlands, TX

**Technical Session:
Refining and Fuels Strategies**

9:30 am – 12:00 pm

Salon I

Presider:
Fred Hill
Manager, Refining Asset Development
Marathon Oil
Findlay, OH

9:30 am
AM-09-50
**The Refinery of Tomorrow –
Centerpiece of an
Integrated Energy Complex**
Jeffrey Spearman
Barnes & Click, a division of
R.W. Beck, Inc.
Plano, TX

10:00 am
AM-09-48
**Refining Competitiveness in a
Carbon Constrained Market**
Kurt Barrow
Purvin & Gertz, Inc.
Houston, TX

10:30 am
AM-09-51
The Sulphur Paradox
Carl Mesters
Shell Global Solutions
Houston, TX

11:00 am
AM-09-49
**Compressed Natural Gas as a
Transportation Fuel:
A Threat to Refiners?**
David Freyman
Baker & O'Brien, Inc.
Dallas, TX

11:30 am
AM-09-52
**Command & Control: Making the
Best Security Decisions**
Yahya Mehdizadeh
Science Applications International
Corporation (SAIC)
Houston, TX

Tuesday morning sessions
continue on next page.

**Technical Session:
Energy Optimization**

9:30 am – 12:00 pm

Salons K,L

Presider:

Pat Kimmel

Refinery Manager

CHS, Inc.

Laurel, MT

9:30 am

AM-09-45

**Holistic Approach to Refinery Energy
Management – A Fresh Look**

Andrew Grimes

Science Applications International

Corporation (SAIC)

Lisle, IL

10:00 am

AM-09-46

Energy Management:

A New Imperative

John (Jack) Davis

Resources2Energy

Houston, TX

10:30 am

AM-09-44

Have We Got Energy to Spare?

Not Anymore

Alan Ryder

M.W.Kellogg Ltd.

Greenford, Middlesex, United Kingdom

11:00 am

AM-09-53

**Fouling Control Programs Reduce
Energy Consumption, CO₂ Emissions**

Bruce Wright

Baker Petrolite Corporation

Sugar Land, TX

11:30 am

AM-09-47

**Applying High-Efficiency Plate Heat
Exchangers in Refinery Service**

Chris Wajciechowski

Alfa Laval Inc.

Richmond, VA

Annual Luncheon

12:00 pm – 2:00 pm
Grand Ballroom Salons A-F



All's Fair: Love, War and Politics

James Carville and Mary Matalin provide an enlightening and entertaining look at today's most important political issues as well as a behind-the-scenes look at Washington politics. Co-authors of the national best seller *All's Fair: Love, War, and Running for President*, both Ms. Matalin and Mr. Carville are key players on the national political stage, having between them worked for every president over the last 25 years. In this presentation, Carville and Matalin combine their unique experience as perennial political insiders to provide a candid and provocative analysis of the day's headlines and today's hot-button political issues from both sides of the political aisle for a lively and engaging exchange of views.

Mary Matalin

Celebrated Conservative Voice and Presidential Advisor

One of the country's foremost Republican political strategists and commentators, Mary Matalin is admired for her astute insights, intellectual integrity and her straight-talking, no-nonsense take on the hot-button issues and political headlines of the day.

Mary Matalin is a veteran of numerous national political campaigns, including serving as deputy campaign manager on President George H.W. Bush's 1992 re-election bid. She also served concurrently as counselor to Vice President Cheney and assistant to President George W. Bush – the first White House official to hold that double title. Bringing unmatched experience and insight to her presentations, Ms. Matalin offers a unique understanding of presidential politics and the issues that affect them.

James Carville

Media Personality and Political Icon

There's nobody in politics like James Carville. Offering bombastic, enthusiastic, shoot-from-the-hip, no-holds-barred political commentary combined with a quick wit and a Southern drawl, the "Ragin' Cajun" is instantly recognizable through his frequent appearances on CNN's political news programming.

The man who devised the most dramatic political victories of our generation, James Carville has managed more campaigns than any political consultant in America and around the world. Captured in action in *The War Room*, the compelling, Academy Award-nominated documentary about President Clinton's presidential campaign, Mr. Carville knows precisely how to craft a winning strategy.

**Technical Session:
Safety and Asset Integrity**

2:00 pm – 4:30 pm

Salon J

Presider:
Mike Mayo
Director Corporate Safety
Valero Energy
San Antonio, TX

2:00 pm
AM-09-61
**Update on Development of Standards
for Process Safety Performance
Indicators and Fatigue Prevention**

Ron Chittim
API
Washington, DC

2:30 pm
AM-09-62
**PSM Metrics in Action:
Refinery Case Study**

Dawn Wurst
Flint Hills Resources, LP
St. Paul, MN

3:00 pm
AM-09-63
**Human Designs Specifications:
Reducing the Costs, Risks,
and Liabilities of Fatigue in
Downstream Operations**

Bill Sirois
Circadian Technologies, Inc.
Stoneham, MA

3:30 pm
AM-09-60
**Improve Asset Risk and
Process Safety**

Roy Whitt
Meridium, Inc.
Roanoke, VA

4:00 pm
AM-09-59
**Going Beyond Traditional Approaches
to Assessing Operational Integrity**

Lois Garrett
Husky Energy
Calgary, AB Canada

**Technical Session:
FCC Operations**

2:00 pm – 4:30 pm
Salon G

Presider:
Sal Viscontini
Senior Vice President, Operations
Valero Energy
San Antonio, TX

2:00 pm
AM-09-70
**More than 60 Ways to
Improve Your FCC Operation**
Warren Letzsch
Shaw Group

2:30 pm
AM-09-68
**Commercial Strategies to
Maximize Middle Distillates in
Fluid Catalytic Cracking**
Kenneth Bruno
Albemarle Corporation
Houston, TX

3:00 pm
AM-09-71
**Strategies for Maximizing
FCC Light Cycle Oil**
David Hunt
Grace Davison
Houston, TX

3:30 pm
AM-09-69
**Opportunities for On-Demand
LCO Maximization**
Ray Fletcher
Intercat Inc.
Sea Girt, NJ

4:00 pm
AM-09-72
**Resid FCCU Operation Demands
New Catalytic Solutions**
Kenneth Bruno
Albemarle Corporation
Houston, TX

**Technical Session:
Heavy Oil Markets and Technologies**

2:00 pm – 4:30 pm
Salon H

Presider:
Jim Stump
Vice President & Plant Manager
Frontier Oil
El Dorado, KS

2:00 pm
AM-09-64
**Impact of Bunker Specification
Changes on Residual Fuel Oil Markets**
Alfred Luaces
Purvin & Gertz, Inc.
Houston, TX

2:30 pm
AM-09-12
**Hydrocracking Catalyst Developments
and Innovative Processing Schemes**
Robert Wade
Chevron Lummus Global
Richmond, CA

3:00 pm
AM-09-65
**Upgrading Residues to
Maximize Diesel Yields**
Dan Gillis
UOP
Des Plaines, IL

3:30 pm
AM-09-66
**State-of-the-Art Delayed Coking
Structure for Frontier Refinery**
Don Mulraney
CB&I
The Woodlands, TX

4:00 pm
AM-09-67
**IMP's Process For
Heavy Crude Oils Upgrading**
José Cano
Mexican Institute of Petroleum
Mexico

Tuesday afternoon sessions
continue on next page.

Tuesday Afternoon

continued

Notes

Technical Session: Refinery Investments

2:00 pm – 4:30 pm

Salon I

Presider:

Bill Schlesing

COO & Director of Refinery Operations

Pasadena Refining

Pasadena, TX

2:00 pm

AM-09-55

The Impact of Carbon on Refinery Investments

Bruce Burke

Nexant, Inc.

White Plains, NY

2:30 pm

AM-09-54

US Refining – Prospects For Recovery

Alan Gelder

Wood Mackenzie LTD

Edinburgh, United Kingdom

3:00 pm

AM-09-57

US Refining: Changing Configuration for New Demand Realities

D. Mark Routt

KBC Advanced Technologies, Inc.

Houston, TX

3:30 pm

AM-09-58

Investment Supply Curve for Increasing Refinery Distillate Yield

Joanne Shore

EIA

Washington, DC

4:00 pm

AM-09-56

Managing Costs for World Class Capital Projects

Kenneth Czerwinski

Science Applications International

Corporation (SAIC)

Plainfield, IL

**Technical Session:
Gasoline and Petrochemicals**

2:00 pm – 4:30 pm
Salons K,L

Presider:
Larry Cunningham
Technology Manager
Afton Chemical
Richmond, VA

2:00 pm
AM-09-73
**Octane: Who Needs It?
Who Will Supply It?**
Terry Higgins
Hart Energy Consulting
McLean, VA

2:30 pm
AM-09-74
**Reduction of Aromatics and
Benzene in Reformates
from Semiregen Reformers for
Reformulated Gasoline Production**
Mikhail Levinbuk
Moscow Oil Refinery
Moscow, Russia

3:00 pm
AM-09-75
**Benzene Management via
Saturation and Isomerization**
Scott Smetters
GTC Technology
Houston, TX

3:30 pm
AM-09-76
**Integrated Complexes –
The Competitive Driving Force**
Sanjeev Kapur
Fluor Corporation
Sugar Land, TX

4:00 pm
AM-09-77
**High-Value Product From Low Value
Orphan Streams? A Paradigm Shift**
Michael Tallman
KBR
Houston, TX

Sponsors

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

Aspen Technology, Inc.

Monday Refreshments

Baker Petrolite Corporation

*Audio Visual – Tuesday morning
"Energy Optimization" Session*

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Tuesday Refreshments

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*Audio Visual – Monday afternoon
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NPRA also thanks our media supporters.

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NPRA Meeting Schedule 2009 – 2010

2009

March 10 - 11

Security Conference

The Woodlands Waterway Marriott
The Woodlands, TX

March 22 - 24

107th Annual Meeting

Marriott Rivercenter Hotel
San Antonio, TX

March 29 - 31

34th International Petrochemical Conference

Grand Hyatt San Antonio
San Antonio, TX

April 16 - 17

Labor Relations/Human Resources Conference

The Woodlands Waterway Marriott
The Woodlands, TX

April 28

NPRA/API Operating Practices Symposium

Grand Hyatt Denver
Denver, CO

May 12 - 13

National Safety Conference

The Gaylord Texan
Grapevine, TX

May 19 - 22

Reliability & Maintenance Conference and Exhibition

The Gaylord Texan
Grapevine, TX

September 13 - 15

Board of Directors Meeting

JW Marriott Starr Pass
Tucson, AZ

September 21 - 22

Environmental Conference

Marriott Denver City Center
Denver, CO

October 11 - 14

Q&A and Technology Forum

*Includes the Plant
Automation Conference*
Omni Fort Worth Hotel
Fort Worth, TX

November 10

NPRA/API Operating Practices Symposium

Hyatt Regency Dallas
Dallas, TX

November 12 - 13

International Lubricants & Waxes Meeting

Marriott Westchase
Houston, TX

2010

March 21 - 23

108th Annual Meeting

Sheraton Phoenix
Phoenix, AZ

March 28 - 30

35th International Petrochemical Conference

Grand Hyatt San Antonio
San Antonio, TX

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.

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.

The National Petrochemical and Refiners Association (“NPRA”) has adopted the following “Ethical Responsibility and Professional and Personal Conduct Code” (hereinafter, “the Code”). Every member of NPRA, their designated representatives, and non-member attendees at all NPRA meetings and forums agree to abide by the Code as a condition of membership in NPRA and attendance and participation at NPRA meetings and forums.

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

- Adherence to the NPRA bylaws and the NPRA policies and procedures, as adopted by NPRA’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 NPRA 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 with the highest level of integrity and courtesy.
- Sharing of knowledge and expertise as speakers at NPRA 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 NPRA.
- Refraining from scheduling general attendance meetings, receptions or other events at times that conflict with substantive programming or social events at NPRA meetings without express written permission of NPRA.

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

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

- All representatives of companies sponsoring hospitality activities are expected to register for the meeting.
- Meetings or social activities should not be scheduled that take registrants away from NPRA programs and NPRA-sponsored activities.
- Companies are asked to restrict their entertainment outside hospitality suites to activities that do not include expensive or elaborate entertainment.
- Any company sponsoring a function to which 75 or more people are invited should outline its plans for advance approval by NPRA. In general, such functions will be approved if they do not unduly take registrants away from NPRA-sponsored activities.
- Hospitality suites are expected to close by 1:00 am.
- 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.

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