

September 20-22, 2009

2009 Environmental Conference: Advance Program

Denver Marriott City Center Hotel
Denver, CO



NPRA

2009 Environmental Conference: Advance Program

With the new Obama Administration we have already seen major changes in environmental policy and enforcement and this year's program is shaping up to be one not to be missed. We have invited Nancy Sutley, Council of Environmental Quality Chair to present our keynote address. This session will be followed by presentations on climate, flares, water issues and a panel and papers on National Ambient Air Quality Standards (NAAQS). On Tuesday, the sessions will focus on Optical Remote Sensing and presentations on monitoring cooling towers and planning for the termination of refinery consent decrees. Each presentation will be followed by time for questions from the audience where you can share your experiences or ask other industry experts for help with your specific needs. As always the meeting will end with a panel discussion and newsreel on current regulatory and legislative updates.

The NPRA Environmental Conference focuses on regulatory and policy issues at the plant level. The meeting format consists of both technical presentations and question and answer sessions. The sessions are designed to address the impacts of various environmental regulations on refineries and petrochemical plants and to provide solutions and compliance mechanisms for a facility. A poster session highlights technologies and systems developed or used by organizations to improve environmental compliance and controls. The Conference features industry experts from refining and petrochemical companies.

Panel Discussions

Questions for the panel discussions represent real questions and problems that have been submitted by your peers. Panelists include representatives from the NPRA Environmental Committee, operating companies, service organizations and government agencies. Panelists bring prepared answers to the sessions and use their experience and knowledge to respond to questions raised by attendees.

NPRA Workshop: Greenhouse Gases – What Does The Future Hold? A Look at The Emerging Federal Requirements and Industry Prospects for Reducing and Controlling Greenhouse Gas Emissions

Cap-and-trade or carbon tax? While the exact nature of greenhouse gas regulations in the U.S. is still murky, it is clear that carbon will be regulated at some level. The purpose of this workshop is, primarily, to discuss the various options available to US industry (specifically the petroleum refining and petrochemicals industry) to reduce their effective carbon emissions. Some options are "soft", i.e., where no controls are necessary. Other solutions will involve add-on systems to capture and control the release of carbon emissions. Still other solutions will involve reduction of energy intensity-the amount of energy used to manufacture a given unit of production.

Conference Co-Chairs:

Bob Neufeld, Wyoming Refining Company
Terry Soule, Sunoco Inc.

Schedule at a Glance

Sunday, September 20, 2009

10:30 am – 5:00 pm	Registration / Badge Pick-up
1:00 pm – 5:00 pm	NPRA Workshop: Greenhouse Gases – What Does The Future Hold? Greenhouse Gas Management within the Refining Industry Coordinated by URS Corporation <i>See registration form for fees. You must be signed up for the conference to attend workshop.</i>

Monday, September 21, 2009

7:00 am – 5:30 pm	Registration / Badge Pick-up
8:00 am – 8:45 am	Keynote Session
8:45 am – 10:00 am	Flares Session
10:00 am – 10:30 am	Coffee Break
10:30 am – 12:00 pm	Water Session
12:00 pm – 1:30 pm	Luncheon with Speaker
1:30 pm – 2:45 pm	Climate Session
2:45 pm – 4:00 pm	NAAQS Session & Panel
4:00 pm – 5:30 pm	Technical Poster Session and Reception

Tuesday, September 22, 2009

7:00 am – 3:00 pm	Registration / Badge Pick-up
8:00 am – 9:45 am	Optical Remote Sensing Session
9:45 am – 10:00 am	Coffee Break
10:00 am – 12:00 pm	Miscellaneous Issues Session
12:00 pm – 1:30 pm	Luncheon with Speaker
1:30 pm – 3:00 pm	Panel Discussion: Newsreel: Regulatory & Legislative Update

Cover photograph courtesy Valero Refining Corporation.

1:00 pm – 1:15 pm

Workshop
**Greenhouse Gases –
What Does The Future Hold?**
Coordinated by URS Corporation

Welcome and Introductions
Facilitator: *Ron Crum*

1:15 pm – 2:00 pm

Climate Change Policies and Politics

- Update on the latest status of the EPA Reporting Rule, Endangerment Finding, and relevant congressional activity. How do these issues impact NPRA's membership?
 - Politics of proposed US GHG policies. Cap & Trade versus Carbon Tax.
 - Lessons learned from GHG reporting and Cap & Trade in Europe. How is it working? What have been the issues? How does it differ from U.S. proposals?
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2:00 pm – 2:45 pm

Minimizing the Cost of Compliance

- Overview of funding mechanisms and tax programs for CO₂ reduction initiatives
 - Activities refinery and petrochemical companies can take to address compliance issues
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2:45 pm – 3:15 pm

Panel Q&A

3:15 pm – 3:30 pm

Break

3:30 pm – 5:00 pm

Reducing Your Carbon Footprint

- What are the options to comply?
- How can I reduce my carbon emissions?
- How can I reduce my facility's "energy intensity"?
- What types of control options are being discussed for dilute CO₂ streams from boilers and heaters? Cat Crackers?
- What types of technologies are available and what are their relative costs?
- What types of carbon projects are available and where I can "buy" credits?
- What about "leakage" across US borders?

Closing Remarks

**Monday
September 21, 2009**

8:00 am – 8:45 am

Keynote Address

Nancy Sutley, Chair of the Council of Environmental Quality (Invited)

8:45 am – 10:00 am

Flares Session

Comparison of Two Flare Minimization Approaches

Michael Dudasko and *Mathew George*, AECOM

Current Flare Enforcement Initiatives

Jess McAngus, Spirit Environmental, LLC
Joseph Guida, Guida, Slavich & Flores.

Flare Emission Reductions Initiative: Balancing Community Expectation, Safety Practice, and Environmental Regulations

Pang Mueller and *Robert Stockdale*, Tesoro Refining and Marketing Company

10:30 am – 12:00 pm

Water Session

Navigating the NPDES Antidegradation Process: A Success Story

David Jessup, URS Corporation
Michael Rach and *Charles Kramek*, Marathon Petroleum Company LLC

BWON Compliance Benchmarking

Larry Darcey and *Ruth Benning*, Sage Environmental Consulting, L.P.

A Coordinated Approach to Achieving NPDES Permit Compliance

Hal Davis and *Patricia Nelson*, CH2M HILL
Anthony Congram, Suncor Energy

Selenium Removal From Refinery Wastewater

Yakup Nurdogan, *Patrick Evans*, and *John Christiansen*, CDM

12:00 pm – 1:30 pm

Lunch with Speaker
David Bookbinder, Sierra Club

1:30 pm – 2:45 pm

Climate Session

Uncertainty in GHG NO_x and SO_x Emission Estimates: Technical Considerations and Statistical Calculation Methods

Andrew Woerner, Environmental Resources Management (ERM)
Miriam Lev-On, The LEVON Group, LLC
Karin Ritter, American Petroleum Institute
Terri Shires, URS Corporation

Experiences and Lessons Learned with Greenhouse Gas Emissions Reporting

Tom Nelson, *Ronald Clark* and *Melita Elmore*, Sage Environmental Consulting, L.P.

Case Study: EPA Mandatory Reporting Rule Gap Assessment

Lisa Campbell, Environmental Resources Management (ERM)

2:45 pm – 4:00 pm

**NAAQS Session & Panel
Emerging Challenges in Ozone,
Fine Particulate and
Greenhouse Gas Regulation**
Matthew Kuryla, Baker Botts LLP

**Forthcoming NAAQS Changes and
Implementation for PM_{2.5}, SO₂, and NO₂**
Robert Paine and David Heinold, AECOM

PM_{2.5} NSR-Challenges for Refiners
*Kenneth Weiss, Environmental Resources
Management (ERM)*

4:00 pm – 5:30 pm

Poster Session

Turning Wastewater into Biofuel
*Joseph Tamburini, Tetra Tech Inc.
Dan Tonello, City of Grand Junction
Tom Dingeman, City of Greeley*

**Real Time Monitoring and Constituent
Determination of Flare and Fuel Gas
Streams Using Micro Gas
Chromatography Techniques**
Steven Yuchs, ARI Environmental, Inc.

**Using the Comprehensive Performance
Evaluation Approach to Optimize
Industrial Waste Treatment Facilities**
Ronald Schuyler, Tetra Tech Inc.

**Impact of Wet Scrubber Blowdown
on Refinery Biological Treatment**
Frank Castaldi, Brown and Caldwell

**Refinery MACT RTR-Changes
for Storage Tanks**
Robert Ferry, TGB Partnership

**How Will the Draft Refinery MACT I
Residual Risk Rule for Heat Exchange
Systems Affect You?**

**Understanding the Proposed TSCA
Inventory Reset, Including Case Studies**
*Agatha Sajo and Loree Fields,
URS Corporation*

*Taras Lewus, Sage Environmental
Consulting, L.P.
John Dittmore, CVR Energy, Inc.
Michelle Serres, Sinclair Wyoming
Refining Company
Kyle Brzymialkiewicz, Dexter Field Services*

**FTIR Technologies for Analysis of
Gas Streams at Refineries**
Donald Chapman, ARI Environmental, Inc.

**Strategies for Success: Implementing
Community Air Monitoring Programs
at Refineries**

**Case Study: Carbon Canister Design
Documentation Under Benzene
Waste Operations NESHAP**
*Larry Darcey, Sage Environmental
Consulting, LP
Ruth Cade and Emily Leidy, Marathon
Petroleum Company, LLC*

*Lisa Polos, Trihydro Corporation
Don Gamiles, Argos Scientific, Inc.*

**TMDL Responses and Recourse:
A Look at the Calcasieu Estuary TMDL**
*Aimee' Killeen, Providence Engineering &
Environmental Group LLC*

**Measurement of Gaseous VOC
and Greenhouse Gas Content
for Pressurized Process
Wastewater Streams**
Leonard Nelms, Tetra Tech, Inc.

**Petrochemical and Refinery Strategies
for the Carbon Markets: A Methodology
for Evaluating Carbon Offset Projects**
Matthew Wilson, CH2M HILL

**Poster from Sage Environmental
Consulting, L.P.**

8:00 am – 9:45 am

Optical Remote Sensing Session
**Optical Remote Sensing – What is it
and Where has it been Applied in the
Petroleum Industry?**

Mark Modrak and Geoffrey Swett,
ARCADIS

**Opportunities and Limitations in
the Use of Optical Remote Sensing
Technologies**

Steven Ramsey, ENVIRON International
Corporation
Jennifer Keane, Baker Botts LLP

BP Texas City/TCEQ DIAL Study

Michael Hopperton, BP North America
Products Inc.
Presenter, TCEQ

DIAL – What’s the Real Story?

Rob Ferry, TGB Partnership

10:00 am – 12:00 pm

Miscellaneous Issues Session

Case Study: Cooling Tower Monitoring

Jason Bradford, Marathon Petroleum
Company LLC
Loree Fields, URS Corporation

**Planning for Termination of
Refinery Consent Decrees**

Charles Murphy, Environmental
Resources Management (ERM)
Donna Carvalho, ConocoPhillips

**Conducting a Mercury Mass Balance
at Petroleum Refineries**

Scott Baker and Mike Falk, Flint Hills
Resources, L.P.
Joel Trinkle and Nate Kowalsky,
Barr Engineering Company

**Regulatory Applicability and
Compliance Concerns for ‘Steam
Generating Unit’ NSPS at Certain
Petroleum Refinery Furnaces**

Joel Trinkle, Barr Engineering Company

12:00 pm – 1:30 pm

Luncheon with Speaker

**Reversing Course: The Obama
Administration’s Environmental Agenda
and How it Will Impact the Refiner**

*LeAnn Johnson-Koch and Alexandra
Magill,* DLA Piper

1:30 pm – 3:00 pm

Panel Discussion:

Newsreel: Regulatory &
Legislative Update

1. Conference Registration

Click here to register or complete the enclosed registration form. Registration includes admission to the General Sessions, the Reception and Poster Session on Monday, and luncheons Monday and Tuesday. Refer to the registration form for conference fees. You'll save \$100 off full conference registration if you register by August 21.

2. Hotel Reservations

Reserve your hotel on-line when you register at 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 2 weeks if submitted to NPRA.

August 21, 2009, is the cut-off date for making hotel reservations, cancellations or substitutions through NPRA or on-line. Beginning August 31 reservations, substitutions, or cancellations must be made through the hotel directly. Cancellations must be made by 6 pm day of arrival to avoid being charged one (1) night room and tax.

3. Spouse Registration

For just \$100, your spouse can join you at the Poster Session Reception as well as the included business sessions.

4. Payment

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

5. Travel

AVIS is the official rental car agency for the ENV. Call 800.331.1600 and refer to AWE#:B761399 to receive discounted rates.

6. Confirmation

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

7. Sponsorship

Sponsorship opportunities available. Contact Merla Zollinger at 202.457.0480 or email at merlaz@npra.org.

8. Attire

Business Casual (No tie; jacket optional)

Cancellation Policy:

Registration cancellations can be made online or submitted in writing, faxed to 202.835.0467 or e-mailed to ENV@npra.org. Substitute conference registrations may be made in advance or on arrival with no penalty. Substitutions must be submitted in writing to ENV@npra.org.

Cancellations may be made by August 21, 2009 with no penalty. Written cancellations postmarked, faxed, or emailed between August 22 and September 4, 2009 will receive a refund of fees, less a \$50 processing fee. No refunds after September 4, 2009. 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.

Ethical Responsibility and Professional and Personal Conduct Code:

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.

Registration Form: ENV09

Register on-line.

Register by August 21st - 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 (Area/Country/City Code)

Fax (Area/Country/City Code)

E-mail

This is not a permanent address change.

Spouse/Guest Name (if attending)

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

Step 2: Meeting Registration

Conference

	By August 21	After August 21
<input type="checkbox"/> Member	\$ 450 _____	\$ 550 _____
<input type="checkbox"/> Non-Member	\$ 895 _____	\$ 995 _____
<input type="checkbox"/> Spouse / Guest	\$ 100 _____	\$ 100 _____

Workshop

	By August 21	After August 21
<input type="checkbox"/> Member	\$ 150 _____	\$ 200 _____
<input type="checkbox"/> Non-Member	\$ 295 _____	\$ 345 _____

Total Amount Due

Name of Member Company

Not sure if your company is a member? [Click here.](#)

Register by Fax:

Return your form by fax with credit card information to 202.835.0467

Register by Mail:

Return your form by fax with credit card information to 1667 K Street, NW Suite 700 Washington, DC 20006

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.

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 and conduct code.)

Step 4: Hotel Reservations

Hotel Reservation requests must be accompanied by paid conference registration to be processed. Room rates are as follows at the Marriott Denver City Center, 1701 California Street, Denver, CO.

\$199 single occupancy / \$219 double occupancy

Arrival Date

Departure Date

If no dates are indicated, we will assign arrival Sunday, September 20 and departure Tuesday, September 22.

Room Type: One Bed Two Beds

Number of People in Room: _____

Special Requests: Disability Other

Room Guarantee: AMEX VISA

MasterCard Discover

Diners

Credit Card Number

Exp. Date

Signature

Frequent Guest Number

Register on-line to receive immediate acknowledgement of hotel. August 21st is the final cut-off date to reserve a room. Contact the hotel directly with changes or cancellations beginning August 31, 2009.