

The Engineer's Energy Toolbox: Practices, Technologies, and Management

December 6 and 7, 2006
Galveston Island Convention Center
San Luis Resort ■ Galveston, Texas

Hosted by:

Texas Industries of the Future

Texas State Energy Conservation Office

Texas Commission on Environmental Quality

U.S. Department of Energy, Energy Efficiency and Renewable Energy



Attendee Brochure

Who Should Attend:

Energy Managers

Process/Utility Engineers

Plant Managers

Environmental Engineers

Consultants

Technology Experts

Equipment Suppliers

Energy Services Providers

University/National Lab Researchers

Environmental and Energy State
and Federal Agency Staff

How can energy management contribute toward your plant or business achieving its lowest long-term manufacturing cost? This will be one key to success in **chemical manufacturing** and **refining** in the coming decade. This conference will examine the tools in the Engineer's Toolbox, from the **best practices** in programs and **new technologies** to the **management strategies** that sustain results.

Session topics will address issues of interest to engineers in the chemical manufacturing and petroleum refining industries facing high energy prices and stricter NOx emission standards. In addition to the sessions on energy management, case studies will highlight **NOx reduction technology implementation**.

The two-day conference will include four concurrent technical sessions, three plenary addresses, an awards ceremony, an exhibit hall, and networking time.

CEU's and Professional Development Hour Credits

Attendance at the Showcase qualifies you for up to 11 Continuing Education Units (CEUs) which can be used towards meeting the Texas P.E. license training requirements.

Session Topics Will Include:

- Six Leading Companies Showcasing Programs, Approaches, and Practices that Impact Energy and Their Bottom Line
- Technologies on the Horizon
- Getting the Most Out of Your Mechanical Systems
- Improving Your Distillation Column Operation
- Steam System Improvements
- Assessment Results from DOE's "Save Energy Now"
- Benchmarking and Monitoring
- Technology Transfer: UK to US
- Analytical Methods
- Saving Energy, \$\$ and Improving Environmental Performance
- Approaches to Energy Optimization
- NOx Reduction Technology Implementation (day long track)

Showcases

- Chevron Phillips Chemical Company LP, Cedar Bayou Plant
- ExxonMobil
- Rohm and Haas Texas Incorporated
- Sterling Chemicals Inc., Texas City Plant
- Texas Petrochemicals LP
- The Dow Chemical Company

Sponsors

- American Institute of Chemical Engineers
- Center for Energy and Environmental Resources at the University of Texas at Austin
- *Chemical Engineering* magazine
- East Harris County Manufacturers Association
- Greater Houston Partnership
- Gulf Coast CHP Applications Center
- Houston Business Roundtable
- Industrial Assessment Center at Texas A&M University
- South Texas Section of AIChE
- Texas Chemical Council
- US EPA/DOE Energy Star

What You Can Expect

- Learn how **leading companies** in energy efficiency and environmental performance are doing the job.
- Find out how to incorporate **best energy management practices** to reduce cost.
- Learn about the **latest technologies** and visit with technology operators and vendors.
- Find out how to **build support for energy efficiency** in your organization, from the operator to management.
- Learn how proven technologies are meeting **NOx emission reduction requirements** or **cutting energy costs**.
- **Network** with industry, research and government leaders.
- Visit the **Exhibit Hall** where over 30 organizations will be exhibiting technologies and services for energy-efficient and environmental applications.



If you have a disability and require special accommodations to fully participate in this event, please call the TCEQ at least three weeks prior to the start of the seminar at 512/239-6327.

PRELIMINARY CONFERENCE AGENDA

Wednesday, December 6, 2006

Time	Program				
9:00 - 10:00 a.m.	Registration and Coffee with Exhibitors				
10:00 - 11:50 a.m. Plenary Panel	<p>“Competition and the New Landscape” What will it take for the process industries to successfully compete in the next decade? <i>Moderator:</i> Dr. John Chen, President, American Institute of Chemical Engineers <i>Academic:</i> Dr. Michelle Foss, Head, Center for Energy Economics, The University of Texas at Austin <i>Government:</i> Jacques Beaudry-Losique, Program Manager, Industrial Technologies Program, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy <i>Industry:</i> Aamir Farid, General Manager, Shell Deer Park Refinery</p>				
Noon - 1:00 p.m.	Luncheon: Keynote Speaker: DOE Executive Management (Invited).				
1:00 - 1:30 p.m.	Dessert in the Exhibit Hall				
1:30 - 3:00 p.m. Concurrent Sessions	<table border="0"> <tr> <td>Showcase: <i>Texas Petrochemicals LP</i></td> <td>Showcase: <i>ExxonMobil</i></td> <td><i>Technologies on the Horizon</i></td> <td><i>Getting the Most Out of Your Mechanical Systems</i></td> </tr> </table>	Showcase: <i>Texas Petrochemicals LP</i>	Showcase: <i>ExxonMobil</i>	<i>Technologies on the Horizon</i>	<i>Getting the Most Out of Your Mechanical Systems</i>
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3:00 - 3:30 p.m.	Break. Visit Exhibits				
3:30 - 5:00 p.m. Concurrent Sessions	<table border="0"> <tr> <td>Showcase: <i>DOW Chemical Company</i></td> <td><i>Improving Your Distillation Column Operation</i></td> <td><i>Technologies on the Horizon (part 2)</i></td> <td><i>Steam System Improvements</i></td> </tr> </table>	Showcase: <i>DOW Chemical Company</i>	<i>Improving Your Distillation Column Operation</i>	<i>Technologies on the Horizon (part 2)</i>	<i>Steam System Improvements</i>
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5:00 - 7:00 p.m.	Reception in Exhibit Hall				

Thursday, December 7, 2006

7:00 - 8:00 a.m.	Registration. Continental Breakfast in Exhibit Hall.				
8:00 - 9:30 a.m. Concurrent Sessions	<table border="0"> <tr> <td>Showcase: <i>Chevron Phillips Chemical Company LP, Cedar Bayou Plant</i></td> <td><i>NOx Reduction Technology Implementation</i></td> <td><i>Assessment Results from DOE's "Save Energy Now"</i></td> <td><i>Benchmarking and Monitoring</i></td> </tr> </table>	Showcase: <i>Chevron Phillips Chemical Company LP, Cedar Bayou Plant</i>	<i>NOx Reduction Technology Implementation</i>	<i>Assessment Results from DOE's "Save Energy Now"</i>	<i>Benchmarking and Monitoring</i>
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11:45 a.m. - 12:45 p.m.	Lunch with Speakers at Topical Tables.				
12:45 - 1:15 p.m.	Dessert in Exhibit Hall				
1:15 - 2:45 p.m. Concurrent Sessions	<table border="0"> <tr> <td>Showcase: <i>Sterling Chemicals Inc., Texas City Plant</i></td> <td><i>NOx Reduction Technology Implementation</i></td> <td><i>Saving Energy, \$\$ and Improving Environmental Performance</i></td> <td><i>Approaches to Energy Optimization</i></td> </tr> </table>	Showcase: <i>Sterling Chemicals Inc., Texas City Plant</i>	<i>NOx Reduction Technology Implementation</i>	<i>Saving Energy, \$\$ and Improving Environmental Performance</i>	<i>Approaches to Energy Optimization</i>
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3:00 - 4:30 p.m. Awards and Plenary Session	<p>State Official Address Showcase Awards “Energy, Innovation and US Competitiveness” <i>Speaker:</i> John Dearborn, Business Vice President for Energy, The Dow Chemical Company With energy prices at record high levels, what can be done to preserve the global competitiveness of America's energy-intensive manufacturing sector?</p>				

Texas Technology Showcase 2006 Attendee Registration Form

(Use a separate form for each person to be registered by mail or fax.)

First Name _____ Last Name _____

Badge Name _____

Company/Organization _____

Your Position _____

Mailing Address _____

City _____ State _____ Zip _____

Work Phone _____ Fax _____

E-Mail _____

Indicate Professional Category:

- | | | | | |
|---|--|-------------------------------------|-------------------------------------|-----------------------------------|
| <input type="checkbox"/> Academic | <input type="checkbox"/> Chemical industry | <input type="checkbox"/> Consultant | <input type="checkbox"/> Government | <input type="checkbox"/> NGO |
| <input type="checkbox"/> Other Industry | <input type="checkbox"/> Other | <input type="checkbox"/> Refinery | <input type="checkbox"/> Student | <input type="checkbox"/> Supplier |
| <input type="checkbox"/> Technology Developer | <input type="checkbox"/> Utility/Power Generator | | | |

I desire a vegetarian meal

REGISTRATION (Select type of registration and fee.)

Early Bird Registration Until November 6

- | | |
|---|-------|
| <input type="checkbox"/> Full conference registration (2 days) | \$295 |
| <input type="checkbox"/> One-day conference registration (Indicate day) | |
| <input type="checkbox"/> Wednesday, Dec. 6 | \$195 |
| <input type="checkbox"/> Thursday, Dec. 7 | \$195 |
| <input type="checkbox"/> Government Rate Full Conference Registration | \$195 |
| <input type="checkbox"/> US DOE staff | \$ 50 |

After November 6

- | | |
|---|-------|
| <input type="checkbox"/> Full-conference registration | \$350 |
| <input type="checkbox"/> One-day registration (Indicate day) | |
| <input type="checkbox"/> Wednesday, Dec. 6 | \$250 |
| <input type="checkbox"/> Thursday, Dec. 7 | \$250 |
| <input type="checkbox"/> Government Rate Full Conference Registration | \$250 |

Total Registration Fee: \$ _____

METHOD OF PAYMENT

Enclosed is a check, payable to University of Texas/TTS 2006.

Mail to: Horizon Meetings, Inc.
c/o Texas Technology Showcase 2006
P.O. Box 500209
Austin, Texas 78750

Credit Card: VISA MC
(Charges will appear as Horizon Meetings)

Card No: _____

Expiration Date: _____

Phone Number for Card Holder: _____

Name of Card Holder: _____

Cancellation Policy: All cancellations must be received in writing on company letterhead and faxed or mailed at the address below. All cancellations postmarked or faxed on or before November 16, 2006 will receive a refund minus an administrative charge of \$35.

NO REFUNDS AFTER NOVEMBER 17, 2006.