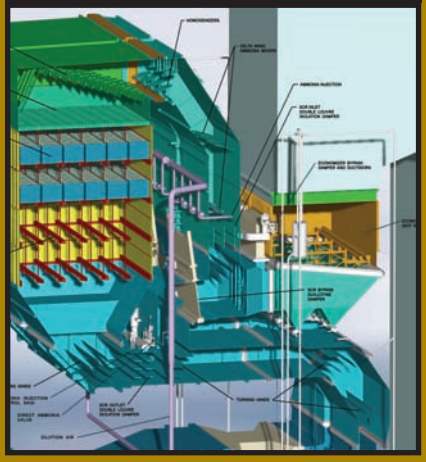
Dynegy Havana Station Unit 6

Plate Type Catalyst for Horizontal Flow SCR
photo courtesy of Argillon

Duke's Cliffside Unit 5



schematic courtesy of Babcock Power

Santee Cooper's Cross 1 & 2

Installation of SCRs
photo courtesy of Babcock Power

Reinhold Environmental Presents the

6th Annual NOx Round Table & Expo

2007 Show Guide

February 5-6, 2007 Cincinnati, Ohio

Sponsored by Duke Energy and the Pollution Control Users Group

Upcoming RE Round Tables and Expos

2007 APC Round Table and Expo

followed by the

APC PCUG Meeting

Hosted by TVA

July 8-12, 2007
Chattanooga Convention Center,
Chattanooga, TN

2007 APC Round Table includes two days of O&M panels and technical workshops given by coal-fired power generation industry experts with a 70-booth exhibition. The 2007 APC PCUG Meeting is an O&M meeting open only to users.

2008 NOx Round Table and Expo

followed by the

NOx PCUG Meeting

Hosted by Dominion Energy

February 4-7, 2008
Omni Richmond Hotel, Richmond, VA

2008 NOx Round Table includes two days of O&M panels and technical workshops given by coal-fired generation industry experts with a 37-booth exhibition. The 2007 NOx PCUG Meeting is an O&M meeting open only to users

2007 PCUG Steering Committee

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Xcel Energy
- Gerald Bostwick (gerald.bostwick@xcelenergy.com)

Welcome to

The Sixth Annual

NOx Round Table & Expo

February 5-6, 2007

Hilton Cincinnati Netherland Plaza

Cincinnati, Ohio

Sponsored by

Duke Energy

and

Pollution Control Users Group (PCUG)

Presented by

REINHOLD ENVIRONMENTAL LTD.

Susan D. Reinhold, Chairman & CEO
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Workshops and Panels

Monday, February 5

11:00-11:45 am

Welcome: **Susan Reinhold, Reinhold Environmental, and Mark Thomas, Duke Energy**

Keynote Speech: **"Beyond NOx Compliance - Facing the Future with Optimism" by Barry E. Pulskamp, Senior Vice President - Regulated Fleet Operations, Duke Energy Shared Services Inc. (Continental Ballroom)**

Mr. Pulskamp will address the NOx regulation's effects on Duke and the utility industry as a whole, how future mercury, CO_2, etc. regulations will complicate matters and present even more technical challenges, and how the utility industry and government agencies must work together to meet these challenges.

1:00-2:15 pm

Panel I: **"New vs. Regenerated Catalyst Performance" (Continental Ballroom)**

Chairman: Scott Hinton, WS Hinton Associates, and Tony Facchiano, EPRI Panelists: Howard Franklin, SCR-Tech; Hans Hartenstein, STEAG LLC; Juliana Kyle, Southern Co.; Nate White, Haldor Topsoe; Tony Favale, Hitachi; and Nancy Stephenson, Cormetech

This panel will discuss the benefits of regenerated catalyst over new catalyst. Key considerations to be discussed will include longevity, impacts on other pollutants (e.g., Hg, SO_2 oxidation), cost, required downtime and other logistics, etc. One of the concerns is limited long term field data. Accordingly, views regarding the short and longer term outlook for wide scale implementation will be presented.

Workshop I: **"SO_3 Mitigation / NOx Perspective" by Gary Blythe, URS (Salon FG)**

This workshop will discuss the effects of SCR catalysts on the conversion of flue gas SO_2 to SO_3, and possible adverse effects such as elevated acid dew points, duct corrosion, and increased plume opacity. It will also discuss a number of SO_3 mitigation technologies, including SO_3 control performance, reagent quantities and costs, capital costs, and impacts on coal combustion byproducts.

3:00-4:00 pm

Workshop II: **"German Experience with Catalyst Regeneration" by Hans Hartenstein, STEAG LLC (Salon BC)**

German SCR users/utilities were the first to develop cleaning and regeneration processes for catalyst deactivated by burning bituminous coals and certain secondary fuels. STEAG developed its own process in 1997 and has regenerated several catalyst layers numerous times, returned them to their original activity levels while fully maintaining structural integrity, and found no difference in deactivation rate from new catalyst.

Workshop III: **"Waterwall Corrosion Due to LNBs" (discussion of boiler tube material) by Dave Kalmanovitch, Babcock Power (Salon DE)**

This workshop will describe the effects of fuel chemistry and minerology on wastage mechanisms and rates of boiler tube materials under different low NOx configurations. The presentation will include data on the mitigation methods such as fuel selection, gas stoichiometry, combustion staging, tube protection, and material selection. Attendees will be invited to present/report experience and concerns associated with waterwall integrity under low NOx conditions.

Workshop IV: **"Instrumental Advances / Reliabilty" by Scott Evans, Clean Air Engineering (Salon FG)**

This session will look at a variety of issues surrounding NOx emission measurement. It will examine some of the Reference Method changes recently finalized by EPA, issues involving measurement of low NOx concentrations, as well as new and near-term measurement technologies for NOx.

Workshop V: **"Low SO_2 Oxidation Catalyst Impact on Poison Resistance & Hg Oxidation" by Volker Rummenhohl, Tackticks, LLC (Continental Ballroom)**

The active component in the Selective Catalytic Reduction catalyst reacts with a multitude of other chemical compounds besides the desired NOx reaction.The higher the concentration of active compound, the more SO_2 will be oxidized to SO_3, the more elemental mercury will be oxidized and the more catalyst poison can be adsorbed by the catalyst. This workshop will try to quantify those effects. It will establish what flue gas parameters a low conversion rate is dependent on, such as flue gas condition and fuel. The workshop will try to provide solutions for a low SO_2/SO_3 conversion rate and a high mercury oxidation and poison resistance at the same time due to catalyst or equipment choice.

4:15-5:15 pm

Workshop VI: **"SCR Catalyst Poisoning: Source and How to Mitigate" by Jeff van Aaken, Argillon (Salon BC)**

Poisoning can significantly accelerate catalyst deactivation. There are several ash minerals and trace elements that can cause catalyst poisoning. Catalysts and methods have been developed to mitigate the detrimental effects of poisons. The purpose of this workshop is to discuss the various causes of catalyst poisoning and what steps can be taken to protect catalyst activity.

Workshop VII: **"New Tools for SCR: Inter-layer Mixing and Insitu Determination Activity" by Larry Muzio, FERCo (Salon DE)**

This workshop will cover two new developments to enhance the performance of SCR systems on coal-fired boilers. The first is interlayer mixing that has the potential to allow SCR systems to achieve 95+% NOx reduction while maintaining low levels of ammonia slip. The second is a new measurement system that is being developed to measure catalyst activity insitu. This should help utilities to make timely catalyst management decisions, particularly when they start operating the SCR reactors year round with few opportunities to obtain samples for laboratory activity testing.

Workshops and Panels

Panel II: "LNB Tuning: How to do It and What is the Result?" (Continental Ballroom)
Moderator: Alan Paschedag, Advanced Burner. Panelists: Bonnie Courtemanche, Riley Power; Doug Hart, Alstom; Greg Hauger, Duke Energy
This panel will discuss the elements involved in the tuning of low NOx burners for optimum performance. An understanding of what combustion parameters produce low NOx in the furnace will also be discussed. Tradeoffs with other furnace emissions are also possible when tuning burners for low NOx performance.

Tuesday, February 6

8:00-9:00 am

Workshop VIII: "Low Flue Gas Temperature SCR Operation" by Chris Bertole, Cormetech (Salon BC)
The risk of ammonium bisulfate (ABS) formation and resultant SCR catalyst deactivation is a cause for SCR operating restrictions for coal-fired utility boilers when running at low load (reduced flue gas temperature). Significant work has been performed in this area to assist utilities in expanding their SCR operating range thus maximizing NOx reduction, minimizing operating and capital cost. This presentation will address work performed to date and keys for implementation.

Workshop IX: "HG Oxidation by SCR Catalyst" by Bill Gretta, Hitachi Power (Salon DE)
Mercury oxidation catalyst performance is presented for PRB and eastern bituminous applications. Applications with PRB pose considerable challenges because of the low Cl in the fuel. PRB catalyst design criteria are presented along with slipstream test results. Eastern bituminous design objectives are to achieve high Hg oxidation while maintaining low SO_2 conversion. Development results are presented along with U.S. testing activities.

Workshop X: "Integrated Approach to Erosion Resistant LPA Screening" by Iain Hall, NoNOx Components (Salon FG)
This discussion will cover an understanding of the erosion potential of the flue gas impacting LPA screen systems as well as the development of design and materials technologies to mitigate this.

Workshop XI: "SO_3 Sorbent Injection R&D" by Jim Jarvis, URS, and Jim Wilhelm, Codan Dev. (Continental Ballroom)
URS will present the results of recent SO_3 reduction R&D efforts and the implications of the results for NOx process operation and optimization. One effort deals with the feasibility and potential benefits of sorbent injection upstream of the SCR. Other efforts deal with the relationships between SO_3 production/removal and mercury reduction via native flyash and activated carbon.

9:15-10:15 am

Workshop XII: "AIG Tuning: Do's and Don'ts" by Marilynn Martin, STEAG LLC (Salon BC)
This workshop will present the steps that should be taken by the plant operators and testing crew before, during, and after the recommended annual tuning of the Ammonia Injection Grid (AIG). These steps provide the basis for a program to efficiently and effectively tune the AIG system with minimum disturbance to plant operations.

Workshop XIII: "SCR Impacts on Boiler Systems" by Connie Senior and Brad Adams, REI (Salon DE)
This workshop will discuss air pollutant impacts and operational constraints when installing SCRs on coal-fired boilers. Key factors affecting SCR performance will be identified, followed by discussions of SCR impacts on SO_3, mercury, and ammonia on flyash. Finally, operational constraints due to SCR catalyst requirements and potential ammonium bisulfite (ABS) formation in air heaters will be reviewed.

Workshop XIV: "SCR / SNCR with Baghouses" by Bob Taylor, GE Energy (Salon FG)
The topic presented relates to the impact of ammonia slip on fabric filter performance. The ammonia slip could result from SCR or SNCR application. A short summary of the background of ammonia slip will be presented. The presentation will also include typical problems noted with ammonia slip and the methods used to mitigate the problem.

Workshop XV: "Mixing Issues (NH_3, NOx, Temperature)" by Rob Mudry, Airflow Sciences (Continental Ballroom)
The need for and implementation of mixing systems for SCRs will be discussed. This includes ammonia mixing at and downstream of the AIG and NOx mixing for units with gradients exiting the boiler. In addition, thermal mixing for SCRs with economizer bypass systems will be reviewed. Case studies from actual plants will be covered, including corrective actions for SCRs with problems and design of new SCR systems. The impact of NH_3, NOx, and thermal mixing on SCR performance, construction requirements, and AH issues will be reviewed.

11:00 am-12:30 pm

Workshop XVI: "Experience with Ammonium Bisulfate Fouling Probes " by Chetan Chothani, Breen Energy Solutions (Salon BC)
This workshop will discuss the latest technology and application for direct measurement of ammonium bisulfate and sulfuric acid in pre/post air heater gas streams. Data will be presented on how to use the information gained to maximize ammonia/urea injection rates, mitigate air heater pluggage from gas condensables and improve heat rate through matching air heater temperatures to actual condensables condition. A special section will be presented on application of the system to SO_3 measurement for blue plume mitigation and improved mercury capture.

Workshops and Panels

Tuesday, February 6

Workshop XVII: **"An Integrated Approach to Boiler Optimization" by Peter Spinney, Neuco, and Joe Naberhaus, Dynegy (Salon DE)**

This session will focus on neural network, model predictive control (MPC) and heuristics-based optimization technologies and how they improve boiler efficiency while managing the complexities of combustion NOx controls, boiler performance, fuel variability and post-combustion controls. In addition, it will address a variety of balance-of-plant issues, including reduced parasitic loads, increased power generation and better utilization of combustion byproducts. The session will demonstrate how the best overall solution entails integration within and between the optimization technologies and the systems they are designed to address.

Panel III: **"Effects of Fuel and Combustion Practices on SCR / SNCR Operations" (Continental Ballroom)**

Chairman: Steve Johnson, Quinapoxet Solutions Panelists: Tony Facchiano, EPRI; Brad Adams, REI; Bob Lisauskas, Babcock Power

Even though large coal-fired boilers have installed SCR and smaller coal-fired boilers have opted for SNCR to meet today's stricter NOx regulations, old fashioned combusion strategies still play a major role in determining compliance costs. The panelists in this session will discuss exactly how fuel choice and combusion controls can be used to reduce reagent consumption, frequency of air heater washes, catalyst deactivation rate, or even "blue plume" violations. Focus will be on how combustion and post-combustion NOx controls can work together to improve boiler capacity factor, availability, efficiency, or operability in a NOx constrained world.

2:00-3:00 pm

Workshop XVIII: **"Fully Integrated Catalyst and SCR System Operations Management" by Greg Holscher, Ceram (Salon BC)**

SCR systems operators face a number of challenges and choices related to achieving cost effective, optimum performance. Effective SCR system operations planning and management should consider all system variables. This workshop will introduce a model which has been used to evaluate complex circumstances for a number of operating units. These circumstances include a wide range of boiler operating conditions, fuels, AIG tuning results, and reactor mechanical conditions as well as a variety of catalyst types (plate, honeycomb, and corrugated), geometries, compositions, and deactivation rates. Representative results of these analyses will be presented.

Workshop XIX: **"Sootblowing Optimization" by Cal Lockert, Breen Energy Solutions (Salon DE)**

This workshop will discuss new techniques in non-invasive heat flux measurement for control of waterwall slagging and corrosion. Special attention in this section will be given to the chemistry of corrosion and how to use the information gained from the sensors to both guide sootblowing and modify combustion conditions in response to detected increases in localized corrosion propensity. Toward the end of the discussion, data will be presented on a new method for impulse detonation sootblowing with over ten years of commercial experience in China. Data will be presented on actual field installation issues and effectiveness of the system in larger utility boilers.

Workshop XX: **"Fuel Impact on Catalyst" by Scott Hinton, WS Hinton Associates (Salon FG)**

The type of fuel fired is one of the governing characteristics of an SCR application. In many ways, the fuel will determine the appropriate catalyst formulation and will dictate the achievable catalyst performance and life. Fuel impacts are especially important in today's fuel market where spot purchases are the norm and fuel characteristics may be highly variable. The primary mechanisms of fuel-related catalyst deactivation will be discussed, along with mitigation methods that may be available for minimizing adverse impacts.

Workshop XXI: **"Principles of Urea to Ammonia Technology" by Bill Hankins, Wahlco (Continental Ballroom)**

Most NOx Reduction technology requires ammonia gas for a reducing agent. To avoid the hazards involved in the transportation, storage and handling of either anhydrous or aqueous ammonia, the ammonia can be produced on site as needed by the conversion of urea. Requirements and principles of the process are presented.

4:00-5:00 pm

Workshop XXII: **"How to Clean Your Own Catalyst" by Nate White, Haldor Topsoe (Salon BC)**

Haldor Topsoe presently has both European and at US clients who have washed their DNX catalyst themselves with assistance and procedures developed by Haldor Topsoe, Inc. This workshop will discuss our overall on-site/client-assisted cleaning experience, including the process, the technical guidance given and the results.

Workshop XXIII: **"Year Round Operation: Are You Prepared?" by Howard Franklin, SCR-TECH (Salon DE)**

The full impact of SCR year round operation will be discussed. This includes the impact upon the catalyst and ammonia requirements, and the effect of winter operation and preparing for it. Also included is the increase in operational demands such as off peak, low load, cycling and simply 7 additional months of operation. Time permitting, there will be audience participation with discussion of individual cases and concerns.

Workshop XXIV: **"Carbon Capture and Storage (CCS): Fantasy or Reality?" by Carl Bozzuto, Alstom Power; Keith Harrison, Southern Company; Andy Buckley, Duke Energy (Salon FG)**

This worskshop will address the development of technologies for carbon capture and storage (CCS). Included will be answers to key questions concerning if or when such technologies will be retrofitted on fossil fueled power plants.

2007 NOx/PCUG Conference Agenda

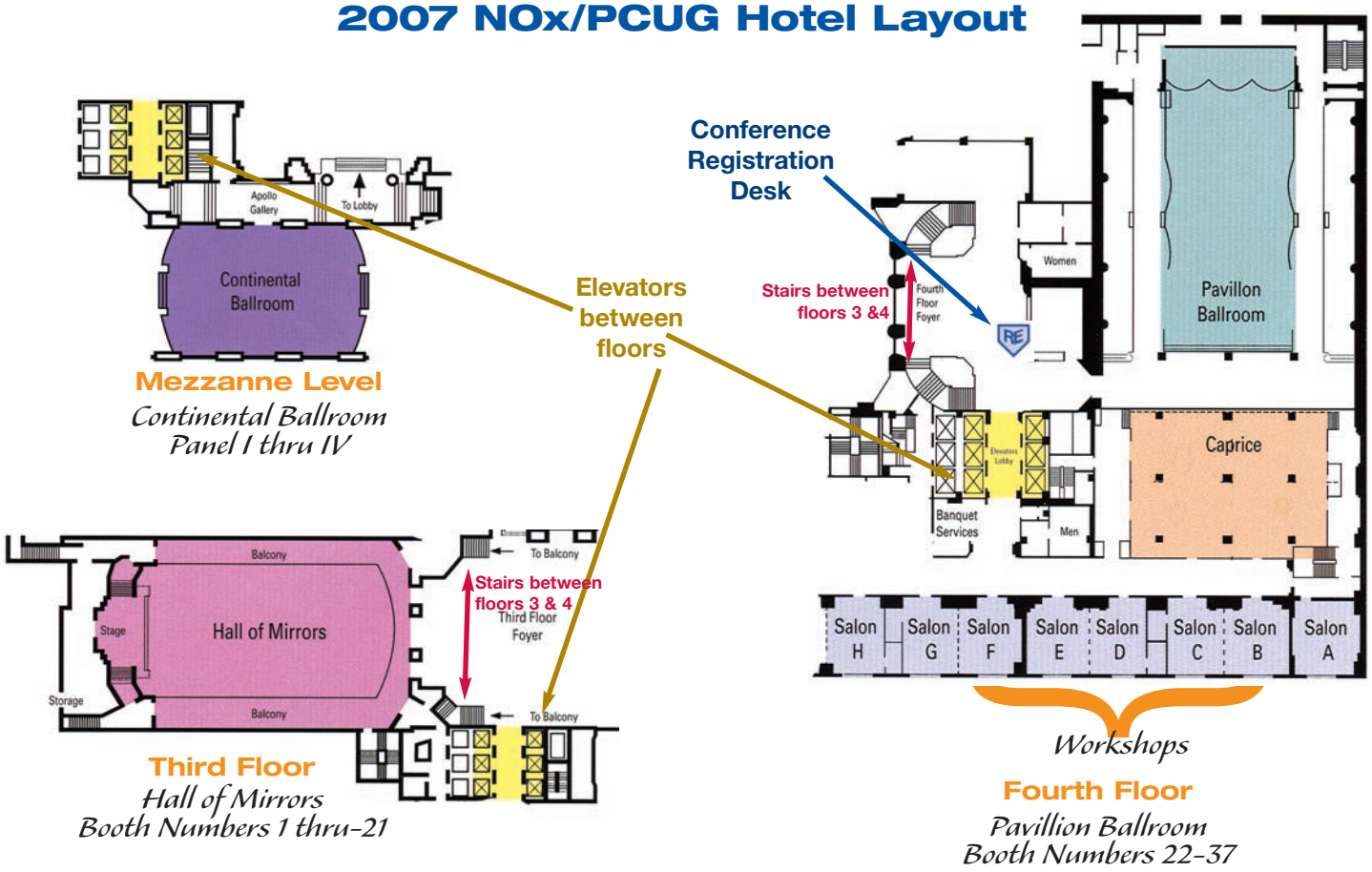
February 5, 2007 - Monday - NOx Round Table

8:00 - 11:00	**Pre-registration - Fourth Floor Foyer**			
11:00 - 11:45	**Welcome** (Continental Ballroom) / by Susan Reinhold, Reinhold Environmental & Mark Thomas, Duke Energy **Keynote Speech: Beyond NOx Compliance - Facing the Future With Optimism** *by Barry Pulskamp, Senior VP - Regulated Fleet Operations, Duke Energy Shared Services Inc.*			
11:45 - 1:00	***Lunch in Exhibition Halls*** *(Expo in Hall of Mirrors & Pavillon Ballroom)*			
	Panel I (Continental Ballroom)			**Workshop I (Salon FG)**
1:00 - 2:15	**New vs. Regenerated Catalyst Performance /** *Chairmen: Scott Hinton, WS Hinton Assoc. & Tony Facchiano, EPRI* *Panelists: Howard Franklin, SCR-Tech; Hans Hartenstein, STEAG LLC; Juliana Kyle, Southern Company;* *Nate White, Haldor Topsoe; Nancy Stephenson, Cormetech; Tony Favale, Hitachi Power*			**SO_3 Mitigation / NOx Perspective** *by Gary Blythe, URS*
2:15 - 3:00	***Break in Exhibition Halls*** *(Expo in Hall of Mirrors & Pavillon Ballroom)*			
3:00 - 4:00	**Workshop II (Salon BC)**	**Workshop III (Salon DE)**	**Workshop IV (Salon FG)**	**Workshop V (Continental Ballroom)**
	German Experience with Catalyst Regeneration *by Hans Hartenstein, STEAG LLC*	**Waterwall Corrosion Due to LNBs (discussion of boiler tube material)** *by Dave Kalmanovitch, Babcock Power*	**Instrumental Advances/Reliability** *by Scott Evans, Clean Air Engineering*	**Low SO_2 Oxidation Catalyst Impact on Poison Resistance & Hg Oxidation** *by Volker Rummenhohl, Tackticks*
4:15 - 5:15	**Workshop VI (Salon BC)**	**Workshop VII (Salon DE)**	**Panel II (Continental Ballroom)**	
	SCR Catalyst Poisoning (Source and How to Mitigate) *by Jeff van Aaken, Argillon*	**New Tools for SCR: Inter-layer Mixing & Insitu Determination Activity** *by Larry Muzio, FERCo*	**LNB Tuning: How to do it and what is the result!** *Moderator: Alan Paschedag, Advanced Burner; Panelists: Bonnie Courtemanche, Riley Power; Doug Hart, Alstom; Greg Hauger, Duke Energy*	
5:15 - 6:15	**Reception in Exhibition Halls for all attendees and families** (Expo in Hall of Mirrors & Pavillon Ballroom)			

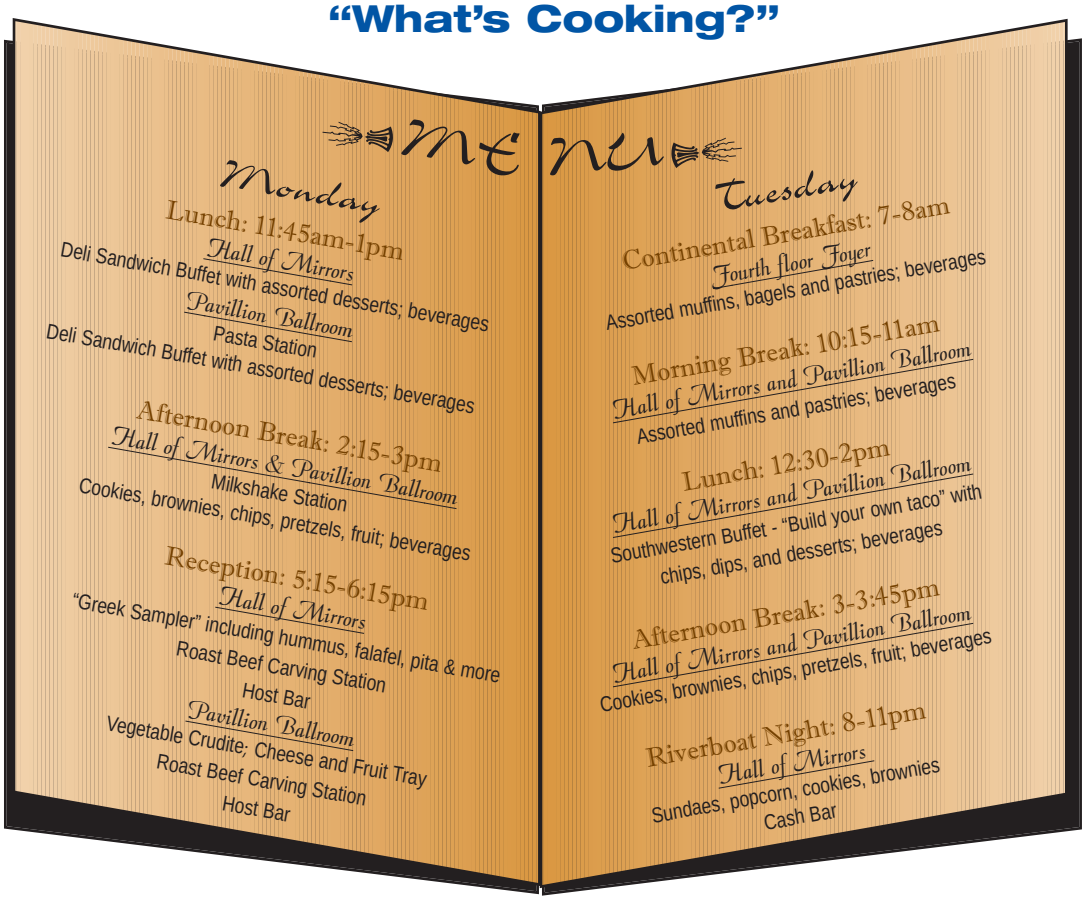
February 6, 2007 - Tuesday - NOx Round Table

7:00 - 8:00	***Registration & Continental Breakfast*** *(Fourth Floor Foyer)*			
8:00 - 9:00	**Workshop VIII (Salon BC)**	**Workshop IX (Salon DE)**	**Workshop X (Salon FG)**	**Workshop XI (Continental Ballroom)**
	Low Flue Gas Temperature SCR Operation *by Chris Bertole, Cormetech*	**Hg Oxidation by SCR Catalyst** *by Bill Gretta, Hitachi Power*	**Integrated Approach to Erosion Resistant LPA Screening** *by Iain Hall, NoNOx Components*	**SO3 Sorbent Injection R&D** *by Jim Jarvis, URS and Jim Wilhelm, Codan Dev.*
9:15 - 10:15	**Workshop XII (Salon BC)**	**Workshop XIII (Salon DE)**	**Workshop XIV (Salon FG)**	**Workshop XV (Continental Ballroom)**
	AIG Tuning: Do's and Don'ts *by Marilynn Martin, STEAG LLC*	**SCR Impacts on Boiler Systems** *by Connie Senior & Brad Adams, REI*	**SCR/SNCR with Baghouses** *by Bob Taylor, GE Energy*	**Mixing Issues (NH3, NOx, Temp.)** *by Rob Mudry, Airflow Sciences*
10:15 - 11:00	***Break in Exhibition Halls*** *(Expo in Hall of Mirrors & Pavillon Ballroom)*			
11:00 - 12:30	**Workshop XVI (Salon BC)**	**Workshop XVII (Salon DE)**	**Panel III (Continental Ballroom)**	
	Experience with ABS Fouling Probes *by Chetan Chothani, Breen Energy Sol.*	**An Integrated Approach to Boiler Optimization** *by Peter Spinney, NeuCo* *Joe Naberhaus, Dynegy*	**Effects of Fuel & Combustion Practices on SCR/SNCR Operation /** *Chairman: Steve Johnson, Quinapoxet Solutions / Panelists: Tony Facchiano, EPRI; Brad Adams, REI; Bob Lisauskas, Babcock Power*	
12:30 - 2:00	***Lunch in Exhibition Halls*** *(Expo in Hall of Mirrors & Pavillon Ballroom)*			
2:00 - 3:00	**Workshop XVIII (Salon BC)**	**Workshop XIX (Salon DE)**	**Workshop XX (Salon FG)**	**Workshop XXI (Continental Ballroom)**
	Fully Integrated Catalyst & SCR System Op. Mgmt *by Greg Holscher, Ceram*	**Sootblowing Optimization** *by Cal Lockert, Breen Energy Sol.*	**Fuel Impact on Catalyst** *by Scott Hinton, WS Hinton Assoc.*	**Principles of Urea to NH_3 Technology** *by Bill Hankins, Wahlco*
3:00 - 3:45	***Break in Exhibition Halls*** *(Expo in Hall of Mirrors & Pavillon Caprice Room)*			
4:00 - 5:00	**Workshop XXII (Salon BC)**	**Workshop XXIII (Salon DE)**	**Workshop XXIV (Salon FG)**	
	How to Clean Your Own Catalysts *by Nate White, Haldor Topsoe*	**Year Round Operation - Are you prepared?** *by Howard Franklin, SCR-TECH*	**Carbon Capture and Storage (CCS) - Fantasy or Reality?** *by Carl Bozzuto, Alstom Power: Keith Harrison, Southern Co.; Andy Buckley, Duke Energy*	
8:00 - 11:00	**Riverboat Night - All Invited (Hall of Mirrors)**			
8:00 - 5:00 8:00 - 3:00	***February 7, 2007 - Wednesday / PCUG Meeting*** ***(Continental Ballroom)*** ***February 8, 2007 - Thursday / PCUG Meeting*** ***(Continental Ballroom)***			
3:00 - 5:00	**NOx PCUG Steering Committee Meeting (Salon FG)**			

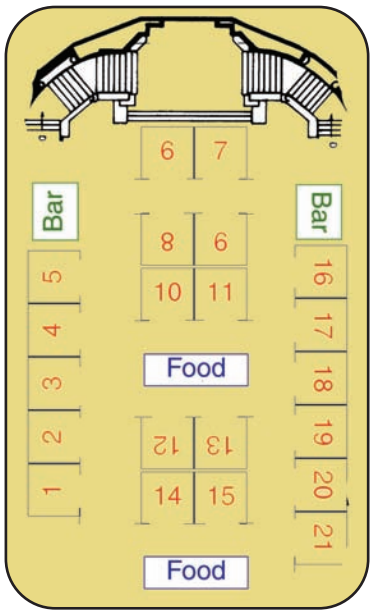
2007 NOx/PCUG Hotel Layout



"What's Cooking?"

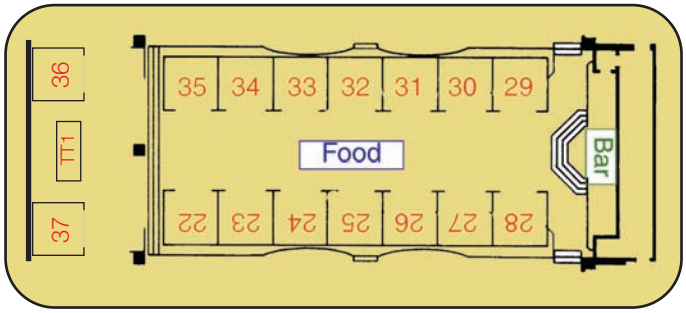


2007 NOx/PCUG Exhibition Layout



Hall of Mirrors – Third Floor

Pavillion Ballroom – Fourth Floor



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Reinhold Environmental presents the

2007 RIVERBOAT NIGHT

A Vegas-Style Casino Night held after the 2007 NOx/PCUG Conference

TUESDAY, FEBRUARY 06

Texas Hold'em | Blackjack | Craps | Roulette | Music | Auction | Desserts | Drinks

2007 NOx Exhibitors

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Allied Environmental Solutions, Inc., formerly Lurgi Lentjes North America, Inc., specializes in providing air quality control technology for the power generation market in North America, and provides a comprehensive range of flue gas cleaning technologies: NOx - Denitrification; Selective Catalytic Reduction (SCR); SOx - Desulfurization; Circulating Fluid Bed (CFB) Scrubber; PM - Particulate Control Systems; Pulse-Jet Fabric Filter; Wet Electrostatic Precipitator; Dry Electrostatic Precipitator.

Alstom Power. 27

1409 Centerpoint Blvd.
Knoxville, TN 37922
Thomas J. Manayathara, North American Marketing Manager
thomas.j.manayathara@power.alstom.com
Business: 865-693-7550 Fax: 865-560-1642
www.alstomenvironmental.com

ALSTOM engineers, procures, erects and commissions air pollution control systems for utilities, IPPs and process industries. Products include: SCR systems for NOx control, wet and dry FGD systems, wet and dry ESPs, high and low ratio fabric filter systems and integrated solutions for mercury control. ALSTOM's products cover a variety of different fuels and applications. ALSTOM also provides services including: performance enhancement, construction, commissioning and field service. Capabilities cover both new equipment and retrofit projects.

AMC Power, a division of Air Monitor Corp. 6

1050 Hopper Avenue
Santa Rosa, CA 95403
David Earley, Sales Manager
dearley@nc.rr.com
Business: 919-367-3647 Fax: 919-363-6738
www.airmonitor.com

AMC Power provides coal mass flow and airflow measurement solutions for combustion optimization and boiler diagnostics. Our proven solutions help improve overall coal-fired plant performance and reduce emissions.

Argillon LLC 31

5895 Shiloh Road, Suite 101
Alpharetta, GA 30005
Jeff van Aaken, Sales and Marketing Representative
SINOx Catalysts for Power Plant Applications
Jeff.vanAaken@argillon.com
Business: 678-341-7523 Fax: 678-341-7509
www.Argillon.com

ARGILLON manufactures SINOx® SCR catalyst for the reduction of nitrogen oxides (NOx) for Power Plant, Engines and Automotive applications. Uniquely, Argillon manufactures both plate and honeycomb catalyst. With over 15 years experience, we are a U.S. and global market leader in the coal-fired power plant sector. Compare our reference list with anyone's! Other SCR services are available.

A.V.C. Specialists, Inc. 1

5146G Commerce Ave.
Moorpark, CA 93021
Tom Shideler, President
sales@avcspecialists.com
Business: 805-531-8900 Fax 805-531-8903
www.avcspecialists.com

A.V.C. Specialists designs and manufactures voltage control and rapper control systems featuring Modbus communication links with plant DCS. A.V.C. also supplies replacement and upgrade components for all precipitators. In addition to providing inspection and maintenance service, A.V.C. solves difficult rapping problems for hoppers, bins and SCR screen systems.

Babcock & Wilcox 17

20 S. Van Buren Ave.
Barberton, OH 44203
Amy Rossi, Environmental Marketing
acrossi@babcock.com
Business: 330-860-1004 Fax: 330-860-2715
www.babcock.com

The BABCOCK & WILCOX COMPANY is a world leader for Environmental Control Products, including SCRs, FGDs (Wet & Dry), Particulate Removal (Baghouses, Wet ESP, Dry ESP) and Ultra Low NOx Burners. The B&W Construction Company has installed more SCRs in the U.S. than any other erector. For more information, call 1-800-BABCOCK.

Babcock Power Inc. 22

5 Neponset Street
Worcester, MA 01606
Tony Licata, Director Client Relations
tlicata@babcockpower.com
Business: 508-854-3853 Fax: 508-854-3800
www.babcockpower.com

BABCOCK POWER INC., through its subsidiaries, is a leading worldwide supplier of technology, equipment and services for the Power Generation industry. We offer a complete set of environmental solutions including SCRs, flue gas desulfurization scrubbers, mercury removal systems and low NOx burners; heat exchangers, steam surface condensers, feedwater heaters, MSRs; HRSGs; and steam generators with associated fuel preparation and firings systems.

Blue Skies Environmental, Inc. / Dovco Industrial Fabricators, Inc. 14

1700 Ridgely Street
Baltimore, MD 21244
Robert W. Tisone, President
Lisa Luchini, Sales & Marketing Manager
info@BlueSkiesEnvironmental.com
Bus: 410-442-2480 Fax: 410-752-2017
www.BlueSkiesEnvironmental.com

info@dovcofab.com
Bus: 410-625-6000 Fax: 410-752-2017
www.dovcofab.com

For over 30 years Blue Skies Environmental & DOVCO Industrial Fabricators, Inc. have been Engineering, Designing, Supplying, Manufacturing, Fabricating Parts and guaranteeing Electrostatic Precipatators (Dry & Wet), Fabric Filters, SCR's, Scrubbers (Dry & Wet), Silo's, Injection Systems, Structural Steel, Ductwork, Tanks, Access and many other Specialty Products for the Air Pollution Control markets.

2007 NOx Exhibitors

Breen Energy Solutions 13

1216 Grandview Ave.
Pittsburgh, PA 15211
Chetan Chothani, Director, Business Development
ChetanChothani@BreenES.com
Business: 412-431-4499 ext. 300 Fax: 412-431-4104
www.BreenES.com

Breen Energy Solutions (BES) is a provider of technology and services to the utility industry with a focus on reducing harmful emissions from power plants while managing the adverse impact of such technology on equipment and operations. BES provides NOx reduction, low cost Hg oxidation and capture technologies as well as innovative measurement and control technologies for real-time measurement and control of the negative effects of emissions control technology.

Cemtek Environmental Inc. 2

Linden, NJ 07036
Santa Ana, CA 92704
Joanne Randall, CEMS Specialist
joanne@cemteks.com
Business: 888-400-0200 714-437-7100 Fax: 714-437-7177
www.cemteks.com

CEMTEK Environmental is a full service Continuous Emission Monitoring System company with offices located across the U.S. Make us your #1 choice in CEM Systems, CEM Service, Opacity, Flow and Parts. NH_3, NOx, SO_2, CO, CO_2, O_2, H_2O and THC measurements for process and compliance needs, Unisearch LasIR® - Tunable Diode Laser for direct ammonia monitoring. Mercury CEMS now being installed. Quality service and project management ensure satisfied customers. That's our number 1 priority!

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7304 W. 130th St., Suite 140
Overland Park, KS 66213
John Cochran, President
info@ceram-usa.com
Business: 913.239.9896 Fax: 913.239.9821
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Leading manufacturer of homogeneous honeycomb DeNOx catalyst since 1985. CERAM's experience includes over 300 DeNOx applications regarding nearly every fuel type: coal (bituminous, PRB, and brown coal), heavy fuel oil, orimulsion, natural gas, and various waste byproducts. CERAM provides SCR system/catalyst management services that include AIG tuning; catalyst testing and management; and SCR operations evaluation/troubleshooting.

Chemithon Corporation 10

5430 West Marginal Way SW
Seattle, WA 98106-1598
Brian W. MacArthurr, Vice President Operations
bmacarthur@chemithon.com
Business: 206-937-9954 ext. 1120 Fax: 206-932-3786
www.chemithon.com

CHEMITHON provides its patented SafeDeNOx™ urea hydrolysis process for on site ammonia generation from urea for NOx removal applications. CHEMITHON provides SO_3 and NH_3 flue gas conditioning systems to enhance precipitator performance allowing utilities to meet stringent clean air standards. CHEMITHON supplies anhydrous, aqueous or urea-based ammonia supply systems.

CleanAir Engineering 9

500 W. Wood St.
Palatine, IL 60067
Allen Kephart, Vice President
akephart@cleanair.com
Business: 412-787-9130 Fax: 412-787-9138
www.cleanair.com

For over 30 years, CleanAir has been a global leader in stack testing, compliance planning, thermal and APC performance testing/optimization, sampling equipment & supplies, and instrument rental. Areas of expertise include flue gas analyses for $Hg/SO_2/SO_3/NOx/NH_3/HCl$ and particulates, Hg CEMS and ash resistivity analysis. Today, among other services, we are assisting our Utility customers in developing Appendix K mercury monitoring strategies, optimizing SCR systems, performing real-time particulate measurements for CAM planning, and more.

Control Analytics, Inc. 8

125 Theobold Ave., Door 14
Greensburg, PA 15601
Greg Banchiere, President
sales@controlanalytics.com
Business: 724-837-3417 Fax: 724-837-3418
www.controlanalytics.com

CONTROL ANALYTICS, INC. provides experienced sales, service, and systems integration expertise for analytical instruments and systems. Our capabilities include the integration, maintenance and troubleshooting of process gas, flue gas, ambient air, pure water and wastewater monitoring systems as well as Mercury CEMS applications. Calibration and contract service agreements are offered through our experienced service department.

Cormetech, Inc. 24

5000 International Drive
Durham, NC 27712
Nancy Stephenson, Manager Services
Stephensonnd@cormetech.com
Business: 919-595-8706 Fax: 919-595-8701
www.cormetech.com

CORMETECH is the world's leading developer, manufacturer and supplier of catalysts for SCR systems reducing nitrogen oxides (NOx) from stationary sources. Cormetech's diverse experience ranges from boilers firing PRB and hi-sulfur coals to simple cycle gas turbines operating at temperatures as high as 1100°F. Cormetech's homogeneous honeycomb, titania-based ceramic catalysts are integral to high performing SCR technology with NOx reduction capabilities of >90%. Cormetech's custom engineered catalyst solutions have been installed in >750 units worldwide.

ECO Physics, Inc. 3

3915 Research Park, Suite A-3
Ann Arbor, MI 48108
Gina Hatzivasilis, Technical Sales Specialist
gina@ecophysics-us.com
Business: 734-998-1600 Fax: 734-998-1180
www.ecophysics-us.com

ECO PHYSICS specializes in the manufacturing of chemiluminescence NOx analyzers. Our analyzers are ideal for power generation, burner optimization, catalyst, automotive and combustion research markets. ECO PHYSICS is proud to introduce the new CLD 60 series NOx analyzers. This series features extractive and dilution analyzers. The 60 series provides top of the line analyzers at economical prices.

Enerfab Inc. 33

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Cincinnati, OH 45232
Kim Pfeffer, Vice President
kim.pfeffer@enerfab.com
Business: 513-482-7691 Fax: 513-482-7781
www.enerfab.com

ENERFAB INC., is a privately held firm incorporated in the State of Ohio since 1901. We proudly serve the utility, beverage, pharmaceutical and chemical industries. Enerfab offers Process Solutions for all of your company's needs. Areas of expertise are in utility maintenance, clean air solutions, utility turnkey construction, steel plate fabrication and catalyst management services.

Fossil Energy Research Corporation 4

23342-C South Pointe
Laguna Hills, CA 92653
Richard Thompson, President
rthompson@ferco.com
Business: 949-859-4466 Fax: 949-859-7916
www.ferco.com

FERCo is an engineering services and R&D company specializing in combustion and emissions control. Founded in 1984, the company's goal is to provide research, pilot-scale development, and full-scale evaluation services to industry and government in the area of applied energy and environmental systems. The staff has over 60 years of experience in the combustion, energy, and environmental fields.

2007 NOx Exhibitors

Fuel Tech, Inc. 37

512 Kingsland Drive
Batavia, IL 60510
Kevin Dougherty, VP Business Development & Marketing
kdougherty@fueltechnv.com
Business: 630-845-4500 Fax: 630-845-4501
www.fueltechnv.com

Fuel Tech provides engineering, design, supply and installation of NOx reduction systems. Technologies include NOxOUT® SNCR, NOxOUTCascade® (Hybrid SNCR /SCR), NOxOUT Ultra® using urea to generate on-site ammonia, along with urea based SCR. Our Fuel Chem specialty chemical programs utilize Targeted in Furnace Injection (TIFI) of specialty chemicals to help reduce fireside slagging, boiler corrosion and SO_3 emissions, as well as improve boiler availability and efficiency.

GE Energy 5

8800 E. 63rd St.
Kansas City, MO 64133
Lance Jost, Account Representative
lance.jost@ge.com
Business: 800-821-2222 Fax: 816-353-1873
www.gepower.com/airquality

GE Energy's Environmental Services team serves the entire energy industry producers worldwide with integrated and flexible emissions control technology and services for the entire system. GE Energy offers the BHA line of baghouse and precipitator air pollution control solutions, as well as CEMS, remote monitoring and diagnostics, ISO certified stack testing, and more. GE evaluates your whole process and applies the right technology to help improve the performance of your existing assets as well as minimize operating and maintenance costs.

Haldor Topsoe, Inc. 21

17629 El Camino Real, Suite 300
Houston, TX 77058
Nate White, Senior Account Executive
tnw@topsoe.com
Business: 281-228-5127 Fax: 281-228-5129
www.topsoe.com

The TOPSOE GROUP is the market leader in the development and supply of heterogeneous catalyst and related technology. Topsoe's DNX catalyst and stationary SCR technology have proven over the last 20 years to provide the maximum NOx reductions with the lowest SO_2 oxidation rate while achieving a high tolerance to common catalyst poisons such as Arsenic. Topsoe offers SCR catalyst for all applications ranging from large coal-fired boilers to high temperature gen-sets.

Hitachi Power Systems America, Ltd. 36

645 Martinsville Road
Basking Ridge, NJ 07920
Anthony Favale, Product Manager-Environmental
anthony.favale@hal.hitachi.com
Business: 908-605-2758 Fax: 908-604-6211
www.hitachi.us/power

Hitachi, original developer of DeNOx catalyst, has supplied NOx removal catalyst for over 30 years to over 600 plants. Hitachi has the experience and knowledge to supply catalyst and services for: Low SO_2 Oxidation; Full range of coals (Bituminous, PRB, Pet Coke, Lignite); Natural gas up to 1050°F; Catalyst Management; Testing, Regeneration, & AIG Optimization.

Horiba Instruments, Inc. 32

17671 Armstrong Ave.
Irvine, CA 92614
Rick Martinson, Regional Sales Manager
cleanair@horiba.com
Business: 949-250-4811 Fax: 949-250-0924
www.environ.hii.horiba.com

HORIBA Instruments provides analyzers, Continuous Emission Monitoring Systems (CEMS), and custom air quality monitoring stations for almost any application or regulatory requirement. Gases monitored include NO-NO_2-NOx, CO, THC–CH_4-NMHC, O_3, SO_2, CO_2, NH_3, H_2S, BTX, VOCs as well as others. All HORIBA instruments are backed by our commitment to quality and customer satisfaction.

M&C Products Analysis Technolgy, Inc. 23

1879 Portola Road, Suite G
Ventura, CA 93003
Cliff Gordon, President and CEO
cgordon@mac-products.com
Business: 805-654-6970 Fax: 805-654-6971
www.mac-products.com

M&C Products is the proven industry leader for extractive sample systems and has components to meet any gas phase sampling requirement. M&C has provided sample probes for over 20,000 installations worldwide to date. Field proven solutions for SCR, FGD, and various emission monitor dilution probes will be on display.

NeuCo, Inc. 20

200 Clarendon St., T-31
Boston, MA 02116
Jennifer Hutchings, V.P. of Marketing
hutchings@neuco.net
Business: 617-425-3500 Fax: 617-425-3151
www.neuco.net

NeuCo is the leading provider of real-time asset optimization solutions for the electric power industry. NeuCo's MaintenanceOpt®, CombustionOpt®, SootOpt® and PerformanceOpt® products work together to drive actions that improve generators' availability, emissions and efficiency profiles.

NoNOx Components, LLC 11

2713 Oak Lake Blvd.
Midlothian, VA 23112
Iain Hall, President
iainhall@nonox.biz
Business: 804-639-2600, ext. 25 Fax: 800-591-8679
www.nonox.biz

NoNOx Components is the leading supplier of warranted high temperature erosion resistant LPA/Popcorn Ash screen systems for plugging protection of catalyst. NoNOx supports utilities and OEM's in the design and manufacture of components for effective filtration over long service intervals while minimizing pressure drop. NoNOx patent pending screens are currently deployed in over 25 SCR's in the U.S.

Reaction Engineering International. 30

77 West 200 South, Suite 210
Salt Lake City, UT 84101
Kevin Davis, Manager Business Development
davis@reaction-eng.com
Business: 801-364-6925 Fax: 801-364-6977
www.reaction-eng.com

REACTION ENGINEERING INTERNATIONAL (REI) is a growing R&D consulting firm with internationally recognized expertise in combustion and environmental solutions. We offer Consulting Services and Products to clients in the energy and environmental sectors, including government agencies, utilities, industries and vendors. REI is particularly known for evaluating performance and impacts of in-furnace and post-combustion NOx control technologies using state-of-the-art CFD modeling.

Reinhold Environmental Ltd.. 35

420 Academy Drive
Northbrook, IL 60062
Susan D. Reinhold, Chairman & CEO
sreinhold@reinholdenvironmental.com
Business: 847-291-7396 Fax: 847-498-1512
www.reinholdenvironmental.com

Reinhold Environmental Ltd. provides pollution control technical suppport in the form of:

- Training Manuals - Scrubbers, Particulate Control, and NOx (2008)
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- In-house seminars - Customized to the needs of each client
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- WPCA Seminars - International seminars hosted by users and presented by WPCA
- Maintain PCUG website and networking center

2007 NOx Exhibitors

SCR-Tech 15

11701 Mt. Holly Road
Charlotte, NC 28214
William McMahon, President
b.mcmahon@scr-tech.com
Business: 704-827-8933, ext. 4060 Fax: 704-827-8935
www.scr-tech.com

Leading provider of catalyst regeneration technologies and management services for SCR systems used by coal-fired power plants to reduce NOx emissions. We offer a wide variety of customized SCR catalyst management services, including cleaning and regeneration, computer simulation, inspection, testing and analysis to help power plant operators optimize their SCR system operation and achieve NOx compliance at lower costs.

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304 Linwood Road, P.O. Box 1727
Kings Mountain, NC 28086
Linda Licata, Marketing Manager
LLicata@STEAGLLC.com
Business: 704-588-7657 Fax: 704-588-7644
www.STEAGLLC.com

STEAG LLC has provided environmental engineering and consulting services to the North American power industry since 1992. STEAG's services include SCR system design, review and startup; flow model testing; ammonia storage and supply systems; AIG tuning; and large particle ash screens. STEAG also provides catalyst management services including testing; test data interpretation; catalyst exchange strategies; and catalyst cleaning and regeneration services.

Stock Equipment 26

16490 Chilicothe Rd.
Chagrin Falls, OH 44023
Ralph Harris, Marketing Manager
ralph.harris@stockequipment.com
Business: 440-543-6000 ext. 542 Fax: 440-543-594.
www.stockequipment.com

Stock Equipment Company, a unit of the Schenck Process Group, was founded in 1929 and is a global provider of material handling, combustion optimization and environmental control solutions.

Teledyne Advanced Pollution Instrumentation . . .28

9480 Carroll Park Drive
San Diego, CA 92121
Bill Taylor, Regional Sales Manager
api-sales@teledyne.com
Business: 858-657-9800 Fax: 858-657-9816
www.teledyne-api.com

Teledyne Advanced Pollution Instrumentation (TAPI) is a world leader in the design and manufacture of precision analytical instrumentation for trace and source gas analysis. TAPI offers a complete line of air quality monitoring instrumentation which comply with EPA requirements for the measurement of criteria gases.

Terra Environmental Technologies 29
a Division of Terra Industries Inc..

P.O. Box 1900, 161 Bickford Line
Courtright, Ontario, Canada, N0N 1HO
Barry W. Lonsdale, President
blonsdale@terraindustries.com
Business: 519-474-7446 Fax: 519-867-3128
www.terraindustries.com

Terra Environmental Technologies is a division of Terra Industries Inc., headquartered in Sioux City, Iowa. We are a leading international producer of nitrogen which we manufacture on demand annually from 7 plant sites.

Testo Inc. 12

35 Ironia Road
Flanders NJ 07836
Craig McKim, Market Manager
info@testo.com
Business: 800-227-0729 Fax: 973-252-1729
www.testo350.com

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Simplify your NOx testing with the testo 350 Portable Emission Analyzer. Testo advanced sensors and advanced design are the reasons for the highest accuracy and ease-of-use. SCR balancing and testing has never been easier. Come see the latest addition to our analyzer line, the NEW testo 335. These 3-gas analyzers are sure to make your job easier.

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3600 W. Segerstrom Ave.
Santa Ana, CA 92704
Barry Southam, Vice President
of Sales & Marketing
bsoutham@wahlco.com
Voice: 714-979-7300 Fax: 714-979-0603
www.wahlco.com

WAHLCO serves the power industry through the manufacture and supply of SO_3 and NH_3 flue gas conditioning (FGC) systems, small NOx reduction (SCR and SNCR) systems, ammonia systems for SCR plus urea-to-ammonia "U_2A^{TM}" systems for DeNox and industrial applications.

A Special Thanks to all those Exhibitors who sponsored Riverboat Night!

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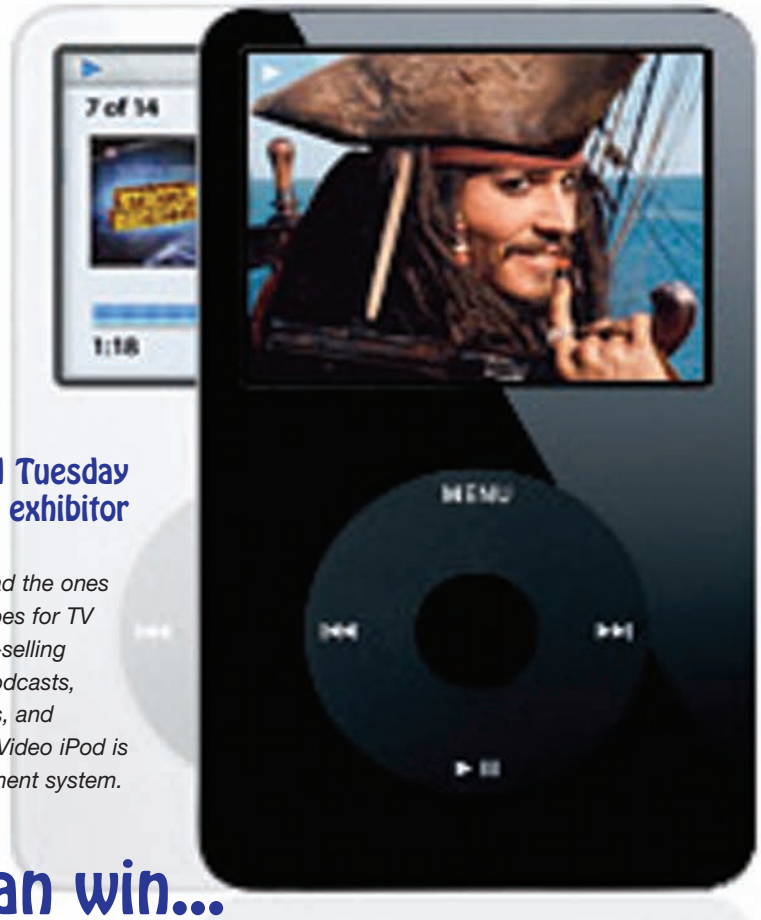
WIN A Video iPod!



Two Video iPods will be awarded Tuesday afternoon in the Expo, one to an exhibitor and one to a utility person.

Browse movies on the iTunes Store, download the ones you want, then sync it to your iPod. Same goes for TV episodes, new iPod games, 99¢ songs, best-selling audiobooks, and an entire universe of free podcasts, including captivating tours of zoos, museums, and French chateaus. Go ahead. Fill 'er up! Your Video iPod is truly a pocket-sized, go anywhere entertainment system.

Here's how you can win...

Exhibitors:

Talk to the users about their problems. See how you might help. When you're done, be sure to give them one of your business cards. But before you do, put your signature on the front of the card.

Utility People:

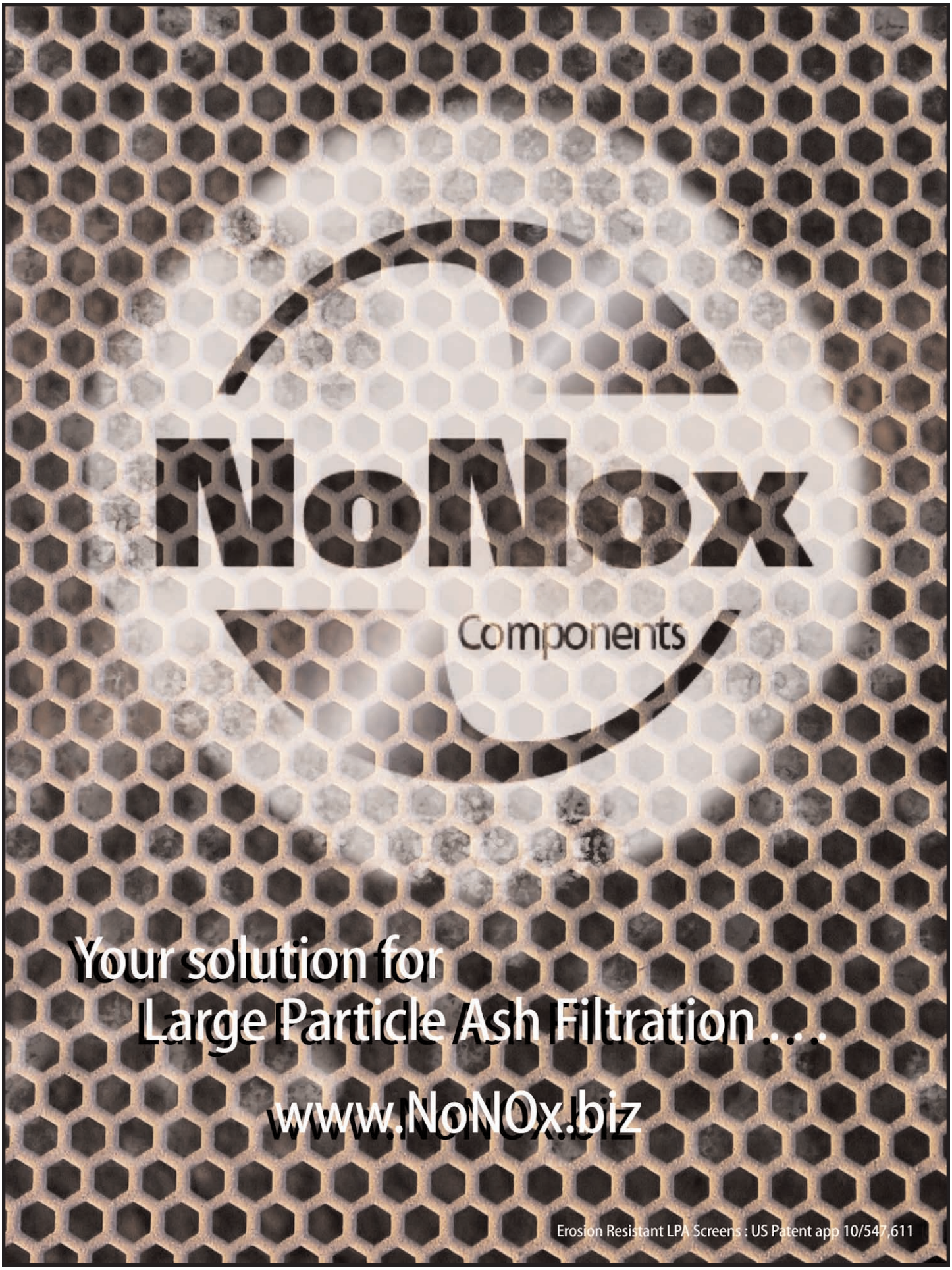
Talk to the vendors about their products. Let them know what's happening at your plant and see if they have any solutions. When you're done, ask them for a business card and write your name, place of business, and cell phone number on the back. By the end of the Tuesday lunch break (2pm) in the expo hall, drop all your business cards in the fish bowl at the Reinhold Environmental Booth number 35.

Come to the Drawing:

One business card will be drawn at the RE Booth number 35 in the exhibition hall at 3:30pm on Tuesday. A Video iPod will be awarded to both the exhibitor and the user.

You must be present to win!

The more you talk, the better your chance to win!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