

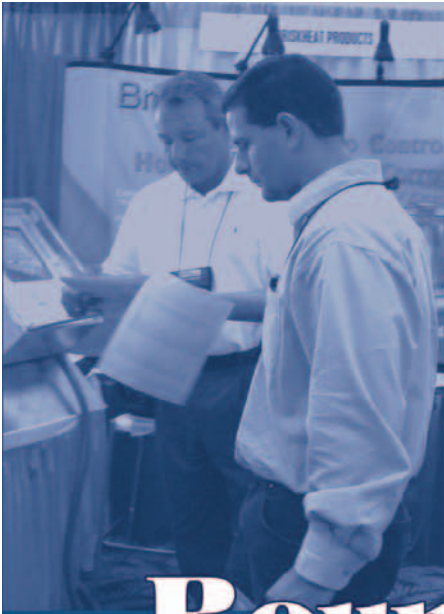


13th Annual

# APC Round Table & Expo

Presented by  
Reinhold Environmental

**2006  
Show  
Guide**



## Upcoming RE Round Tables and Expos

### 2007 NOx Round Table and Expo

followed by the  
**NOx PCUG Meeting**

*Hosted by Duke Energy*

February 5-8

Hilton Cincinnati Netherland Plaza,  
Cincinnati, OH

2007 NOx Round Table includes 11½ days of O&M panels and technical workshops given by coal-fired generation industry experts with a 45-booth exhibition. The 2007 NOx PCUG Meeting is an O&M meeting open only to users.

### 2007 APC Round Table and Expo

followed by the  
**APC PCUG Meeting**

*Hosted by TVA*

July 8-13

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 75-booth exhibition. The 2007 APC PCUG Meeting is an O&M meeting open only to users.

## 2006 PCUG Steering Committee

				
				
	American Electric Power Russ Ridgeway (rfridgeway@aep.com) Larry Hicks (lahicks@aep.com)		Mirant Corporation Peter Leighton (peter.leighton@mirant.com)	
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			Xcel Energy Gerald Bostwick (gerald.bostwick@xcelenergy.com)	

*Welcome to*  
The Thirteenth Annual  
**APC Round Table & Expo**

July 16 - 18, 2006  
Hyatt Regency Columbus  
Columbus, OH

*Sponsored by*



*and*

**Pollution Control Users Group (PCUG)**

*Presented by*



**REINHOLD  
ENVIRONMENTAL**

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Gavin, Ohio  
Generating Station  
*photo courtesy of AEP*



Muskingum River, Ohio  
Generating Station  
*photo courtesy of AEP*

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# Workshops and Panels

Monday, July 17

8:00–9:00 am

**Welcome and Keynote Speaker:** Mark Gray, AEP's Vice President of Engineering Services, will address "New Solid Fuel Generating Unit Designs and Emission Controls" (**Delaware Room, second floor**)

9:00–10:30 am

**Workshop I: "Mercury Control and Measurements for Coal-Fired Power Plants" by Sharon Sjostrom, ADA-ES (Knox Room)**

The goal of this session is to provide a background on mercury control and measurement and an update on recent technologies developments and results. Topics will include how mercury can be controlled by existing air pollution control devices, how coal and plant configurations affect mercury speciation and control, a review of results from on-going field demonstrations, and an overview of mercury CEMs and other measurement issues.

**Panel I: "Improving Aging Scrubber's Performance" (Delaware Room)**

*Chairman: Melissa Thompson, TVA Panelists: Greg Bielawski, B&W; Gordon Maller, URS; Dave Muraskin, Alstom; Bill DePriest, Sargent & Lundy; Chris Wedig, Shaw Group*

This panel will discuss the various generations of FGD technologies, improvement options for SO<sub>2</sub>, mercury, & particulate removal efficiency, improvement options for FGD reliability & by-product quality, and TVA's dual contact flow scrubber retrofit improvement. The audience will have an opportunity to ask the panelists questions about improving FGD performance.

**Workshop II: "ESP Fundamentals" by Heinz Engelbrecht, Retired (Marion Room)**

The objective of the workshop is to provide an introduction and overview of ESP fundamentals with the intent to make it understandable for the ESP novice and somewhat interesting even for an ESP veteran. The presentation covers the basic ESP process and collecting efficiency and centers on specific dust resistivity and reentrainment as examples of most common operating problems. Remedies and improvement options will be discussed.

11:00 am–Noon

**Workshop III: "How to Have a Successful ESP Rebuild/Replacement" by Scott Williams, Duke Energy Co. (Knox Room)**

This workshop will describe the steps necessary to have a successful Precipitator or Baghouse Project. Photographs will be presented of the currently ongoing Duke Energy Marshall 3 and 4 Precipitator Replacement, reputed to be the largest ever precipitator contract in the United States.

**Workshop IV: "Status of Hg Measurement Technology for Compliance: Progress and Issues" by Chuck Dene, EPRI (Delaware Room)**

This workshop presentation will provide an overview of the available Hg monitoring techniques. Review the current state of development including the regulatory issues associated with the different choices. The workshop will review the current results reported from on-going development and demonstration projects and explore the many implementation issues still to be resolved.

**Workshop V: "Selecting FGD Materials for Construction" by Ron Richard, EPSCO (Madison Room)**

This paper discusses the materials that have been successfully used to construct FGD systems and the criteria that must be considered in selecting the right materials for each section of the FGD system.

**Workshop VI: "Precipitator Controls Fundamentals" by Paul Ford, Redkoh (Marion Room)**

The presentation offers a basic view of an automatic voltage and rapper control system. The discussion surrounds the basics of precipitation, the basic electronic components required to make up the control system, and finally a discussion on how the voltage and rapper controls operate to achieve the maximum collection efficiency from an electrical perspective.

1:30–2:30 pm

**Workshop VII: "Impact of Combustion on Particulate Collection" by Bob Taylor, GE Energy (Knox Room)**

This session describes the correlation between combustion and the ability to effectively remove particulate from the flue gas. The objective is to provide practical explanation for changes in particulate removal device efficiency and changes in process conditions.

**Panel II: "SO<sub>3</sub> Mitigation" (Delaware Room)**

*Chairman: Mark Thomas, Duke Energy Panelists: Jason Tan, FlowTack; Rich Staehle, Marsulex; Sterling Gray, URS; Buzz Reynolds, Wheelabrator; Paul Schmidtchen, Martin Marietta; John Maziuk, Solvay Chemicals; Lew Benson, Carmeuse*

Currently multiple options exist for mitigating SO<sub>3</sub>, all with varying degrees of effectiveness and side effects both positive and negative. The panel will invite various reagent suppliers and system designers to discuss the current state of SO<sub>3</sub> mitigation technology from their perspectives. Current and planned R&D efforts and promising advancements will also be discussed.

# Workshops and Panels

Monday, July 17 continued

## **Workshop VIII: “Use of Vertical Basket Centrifuges for Gypsum Dewatering from Wet Limestone FGD Systems” by Jim McGillicuddy, KMPT (Marion Room)**

It is a common perception that in terms of lowest capital outlay and simplicity of operation, Horizontal Vacuum Belt Filters are always the preferred technology for dewatering options for wallboard grade gypsum from wet limestone flue gas desulfurization. To some, centrifuges are considered sensitive to operational variations and are thought to be maintenance prone. To the contrary, Vertical Centrifuges are rugged, reliable machines with a proven track record, can be the lower capital cost option, require only 1/3 the building space compared to filters, and offer substantial operational benefits.

3:00–4:00 pm

## **Workshop IX: “Electrode Design: What Works-Where?” by Gerry Klemm, Southern Co. (Knox Room)**

This workshop will be a discussion of the various commonly available discharge and collecting electrodes. It will not be a comparison between proprietary products; rather it will point out the design considerations that apply to various applications.

## **Panel III: “Flyash: Collection, Storage and Benefication” (Delaware Room)**

*Cal Lockert, Breen Energy Solutions; Mike Neundorfer, Neundorfer Inc.; Rob Kimberl, Clyde Bergemann EEC*

Our focus will be on the optimization of fly-ash evacuation systems. We will discuss new approaches to gaining more capacity from existing systems and identifying and communicating system component failures and plugging.

## **Workshop X: “Ammonia Scrubbers” by Mike Walsh, Marsulex (Marion Room)**

An overview of the Marsulex ammonia/ammonium sulfate FGD process comparing and contrasting the AS system to conventional limestone FGD systems and historical ammonia scrubbing methods.

Tuesday, July 18

8:00–9:00 am

## **Workshop XI: “TR Fundamentals” by Hank Del Gatto, EPSCO (Knox Room)**

This workshop will focus on 3 areas: 1–Function of TR in ESP system, including TR ratings, KV, mA, AAC, ADC and form factors; TR configuration options, mechanical and electrical; and feedback for control systems. 2–Major sub-components of TR's, including rectifier types and configurations; transformer construction technologies; air core reactor (ACR); current limiting reactor (CLR); dielectric fluid options; bushing options; and feed back signals. 3–Operational Considerations, including life expectancy; failure modes; and wave forms.

## **Workshop XII: “WESP” by Stephen Francis, Alstom (Delaware Room)**

This workshop will provide details and information on the aspects of the different types of WESP's to be used to collect fine particulate matter and H<sub>2</sub>SO<sub>4</sub> mist after WFGD systems.

## **Workshop XIII: “FGC: Dry or Molten” by Bob Wright, Neundorfer, and Bill Hankins, Wahlco (Madison Room)**

The first half of the workshop will cover the advantages of using dry sulfur, current technology improvements used in transporting and metering dry sulfur, and typical maintenance for dry systems and optimizing SO<sub>3</sub> injection. The second half will deal with molten systems.

## **Workshop XIV: “Fabric Filter Fundamentals and Associated Mercury Removal Experience/Alternatives” by Rich Miller, ADA-ES (Marion Room)**

Workshop will include basic information on the types of fabric filter technologies available to the Utility User, including Reverse Gas, Pulse Jet and EPRI's COH-PAC/TOXECON Technologies and how they interface with mercury control systems such as activated carbon and the potential impact on system design and operation from use of dry sorbents such as Activated Carbon. Data will also be presented on the first full-scale TOXECON installation at WE Energies, Presque Isle Station, installed for both particulate and mercury control.

9:00–10:30 am

## **Workshop XV: “TR Troubleshooting” by Russ Ridgeway, AEP (Knox Room)**

Due to the economic value to power producers and users, coal fired power generation represents the prime choice of electric energy today. The aging of the power plants has heightened awareness to properly elevate, maintain, and improve reliability and performance of the large coal fired facilities. The “transformer” rectifier (ESP power supply) is the critical component in providing the environment compliance that is required in our coal burning power generation facilities. Can we afford “risk management” within our ESP power supplies?

# Workshops and Panels

Tuesday, July 18 continued

## Panel IV: "Scrubber O&M" (Delaware Room)

*Chairman: Hans Hartenstein, Steag Panelists: Ron Richard, EPSCO; Tony Licata, Babcock Power; Gordon Maller, URS; Melissa Thompson, TVA; Dennis Glancy, Vectren; Mark Golightely, FirstEnergy; Jerry Helderman, AES-IPL*

The panel of experts assembled from FGD utility operators, suppliers and consultants will address topics of current interest related to FGD design, operations and maintenance issues including the relationship between particulates, condensables and scrubbers; construction materials; future FGD performance needs; FGD residue and wastewater treatment; and conceptual issues related to retrofits, redundancies, maintenance, and innovative design ideas.

## Workshop XVI: "Retrofitting FF's into ESP's" by Greg Betenson, PacifiCorp (Marion Room)

The Huntington 440MW boiler began commercial operation in 1974 with a 472 SCA ESP. PacifiCorp is installing a new WFGD system and replacing the ESP internals with PJFF internals. Rationale and detail for the conversion will be presented. Project update.

11:00 am-Noon

## Workshop XVII: "High Frequency Switch Mode Power Supplies" by Joseph Manna, NWL (Knox Room)

This workshop will provide information as well as case histories, both pro and con, on Switch Mode Technology for ESP applications. Topics will include "What is Switch Mode Technology", "How Does It Work", "What are the Advantages and Disadvantages", "When Should You Consider Switch Mode Technology", "Who are the Players in the Market", and "Is it Right for You."

## Panel V: "New Technology" (Delaware Room)

*Chairman: Scott Hinton, SRI Panelists: Bob Crynack, Indigo; Bob Taylor, GE; Stephen Francis, Alstom; John Comer, Stock Equipment*

Various new technologies for air pollution control will be discussed. Panelists will offer a short presentation of their technologies and then open the floor for discussions and questions. This panel will provide attendees with an introduction to new technologies that are under development or are in the process of commercialization.

## Workshop XVIII: "Coal and the Environment" by Tony Widenman, DTE (Marion Room)

Coal as we know it will continue to be an integral part of electricity production for the foreseeable future. Until more environmentally friendly technologies become widely used, we have to understand the characteristics of coal, how these characteristics effect the environment and what we can do with legacy plants to mitigate the negative effects of coal combustion. This tutorial will be an attempt to help understand coal characteristics and their effects on the environment.

### What makes the SO<sub>2</sub> Training Manual so unique?

it is a "true" operating and maintenance manual based on lessons learned with FGD systems over the last 35 years

it provides knowledge of basic principles of FGD chemistry and equipment design & operation

it demonstrates how to use the latest generation of controls and data acquisition systems

it is web-based and contains interactive quizzes at the end of each chapter

SO<sub>2</sub> TM

for more information: visit the EPSCO booth in the Expo



SO<sub>2</sub> O&M  
TRAINING  
MANUAL

GET YOUR FREE DEMO!

# 2006 APC/PCUG Conference Agenda

## July 16 - Sunday at Hyatt Regency Hotel, Columbus, OH

11:00 - 5:00	Registration (Regency Ballroom Foyer - 3rd floor)	
1:00 - 5:00	Pre-Conference Scrubber O&M Workshop (all attendees must be pre-registered): David Muraskin of Alstom & Chris Wedig of Shaw (Delaware AB Room)	
5:00 - 7:00	Reception (in Exhibition Hall - Regency Ballroom - for all attendees and their families)	

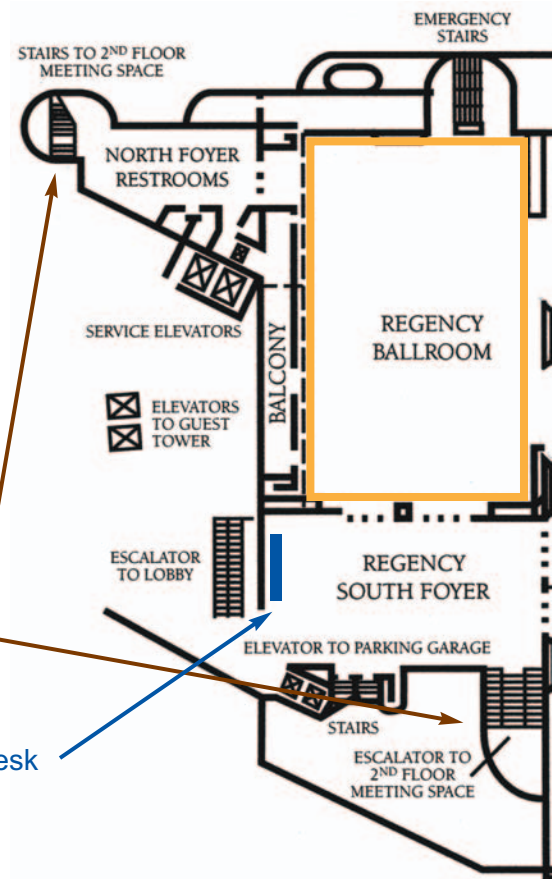
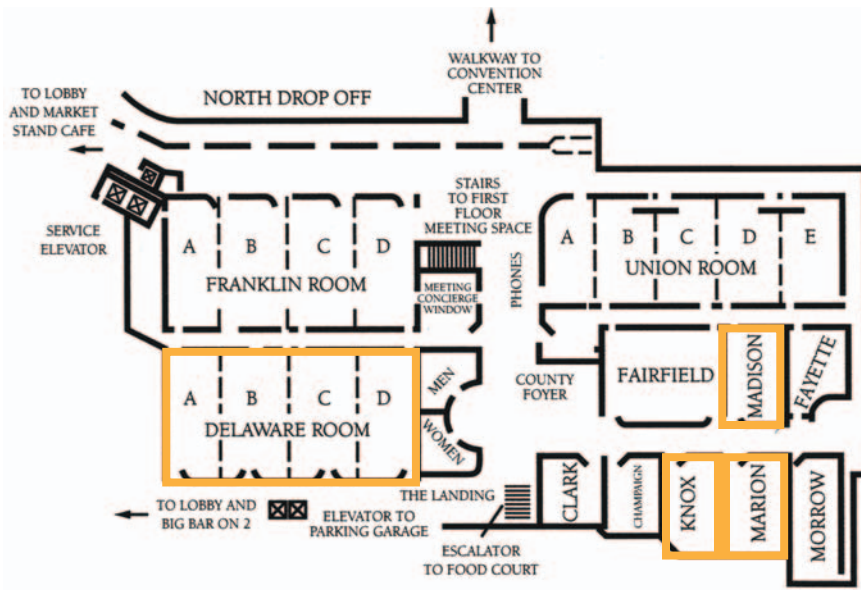
## July 17 - Monday: APC Round Table & Expo

7:00-8:00	Registration & Continental Breakfast (Regency Ballroom Foyer) / Expo opens at 9:00	
8:00-9:00	Welcome ..... Mark Gray, VP Engineering for AEP- Keynote Speaker: (Delaware Room - 2nd floor)	
9:00-10:30	<p>Workshop I (Knox Room)</p> <p><b>Hg Control &amp; Measurement</b> by Sharon Sjostrom, ADI-ES</p>	<p>Panel I (Delaware Room)</p> <p><b>Improving Aging Scrubber's Performance:</b> Chairman: Melissa Thompson, TVA Panelists: Greg Bielawski, B&amp;W; Gordon Maller, URS; Dave Muraskin, Alstom; Bill DePriest, Sargent &amp; Lundy; Chris Wedig, Shaw Group</p>
10:30-11:00	Break (in Expo)	
11:00-12:00	<p>Workshop III (Knox Room)</p> <p><b>How to Have a Successful ESP Rebuild/Replacement!</b> by Scott Williams, Duke Energy</p>	<p>Workshop V (Madison Room)</p> <p><b>Selecting FGD Materials for Construction</b> by Ron Richard, EPSCO</p>
12:00-1:30	Lunch in Exhibition Hall	
1:30-2:30	<p>Workshop VII (Knox Room)</p> <p><b>Impact of Combustion on Particulate Collection</b> by Bob Taylor, GE Energy</p>	<p>Panel II (Delaware Room)</p> <p><b>SO<sub>3</sub> Mitigation:</b> Chairman: Mark Thomas, Duke / Panelists: Jason Tan, FlowTack; Rich Staehle, Marsulex; Sterling Gray, URS; Buzz Reynolds, Wheelabrator; Paul Schmidchen, Martin Marietta; John Maziak, Solvay Chemicals; Lew Benson, Carmeuse</p>
2:30-3:00	Break (in Expo)	
3:00-4:00	<p>Workshop IX (Knox Room)</p> <p><b>Electrode Design What Works - Where?</b> by Gerry Klemm, So. Co.</p>	<p>Panel III (Delaware Room)</p> <p><b>Flyash: Collection, Storage and Benefication:</b> Cal Lockert, Breen Energy Solutions; Mike Neundorfer, Neundorfer Inc.; Rob Kimberl, Clyde Bergemann EEC</p>
4:30-6:00	Reception (in Exhibition Hall for all attendees and their families)	
July 18 - Tuesday: APC Round Table & Expo		
7:30-8:00	Registration & Continental Breakfast (Ballroom Lobby)	
8:00-9:00	<p>Workshop XI (Knox Room)</p> <p><b>TR Fundamentals</b> by Hank Del Gatto, EPSCO</p>	<p>Workshop XIII (Madison Room)</p> <p><b>FGC: Dry or Molten</b> by Bob Wright, Neundorfer Inc. &amp; Bill Hankins, Wahleo</p>
9:00-10:30	<p>Workshop XV (Knox Room)</p> <p><b>TR Troubleshooting</b> by Russ Ridgeway, AEP</p>	<p>Panel IV (Delaware Room)</p> <p><b>Scrubber O&amp;M:</b> Chairman: Hans Hartenstein, STEAG / Panelists: Ron Richard, EPSCO; Tony Licata, BP; Gordon Maller, URS; Melissa Thompson, TVA; Dennis Glancy, Vectren; Mark Galtghley, FirstEnergy; Jerry Helderman, AES-IPL</p>
10:30-11:00	Break (in Expo)..... Expo closes at 11:00 AM	
11:00-12:00	<p>Workshop XVII (Knox Room)</p> <p><b>High Frequency Power Supplies</b> by Joe Manna, NWL</p>	<p>Panel V (Delaware Room)</p> <p><b>New Technology:</b> Chairman: Scott Hinton, SRI / Panelists: Bob Crynack, Indigo; Bob Taylor, GE; Stephen Francis, Alstom; John Comer, Stock Equipment</p>
12:30	Crommelin Memorial Scholarship Golf Tournament	
7:30-4:00	July 19-20 - Wednesday & Thursday: PCUG (Pollution Control Users Group) Meeting at AEP Corp. Headquarters	
7:30-11:30	July 21 - Friday: PCUG (Pollution Control Users Group) Meeting at AEP Corp. Headquarters	

# 2006 APC Hotel Layout

## Second Floor Workshops and Panels

## Third Floor APC Expo



To go from the Expo Ballroom to the Workshop Rooms, take the escalator located at the Regency South Foyer or the stairs by the North Foyer restrooms.

**RE** Registration Desk

### ME NU

**Sunday Evening Reception**  
Served on Expo Floor

- Beef & Turkey Carving Station
- Cold Hors d'oeuvres, Salmon Platter, & Desserts
- Hot Hors d'oeuvres
- Bar

**Continental Breakfasts**  
Served in Regency South Foyer Monday & Tuesday

- Muffins, Bagels and Croissants
- Juice, Soda, Coffee, Tea

**Morning Breaks**  
Served on Expo Floor Monday & Tuesday

- Muffins, Bagels and Croissants
- Egg Muffin Sandwiches
- Assorted Yogurts and Apples
- Juice, Soda, Coffee, Tea

**Lunch**  
Served on Expo Floor Monday

- Pasta Station
- Steak Station
- Deli Station, Side Dishes and Desserts
- Juice & Side Dishes
- Soda & Water

**Afternoon Break**  
Served on Expo Floor Monday

- Milk Shake Station
- Smoothie Station
- Chocolate Fondue Station, Dessert & Cheeses
- Coffee, Tea and Soda

**Monday Evening Reception**  
Served on Expo Floor

- Cold Hors d'oeuvres and Desserts
- Hot Hors d'oeuvres
- Bar

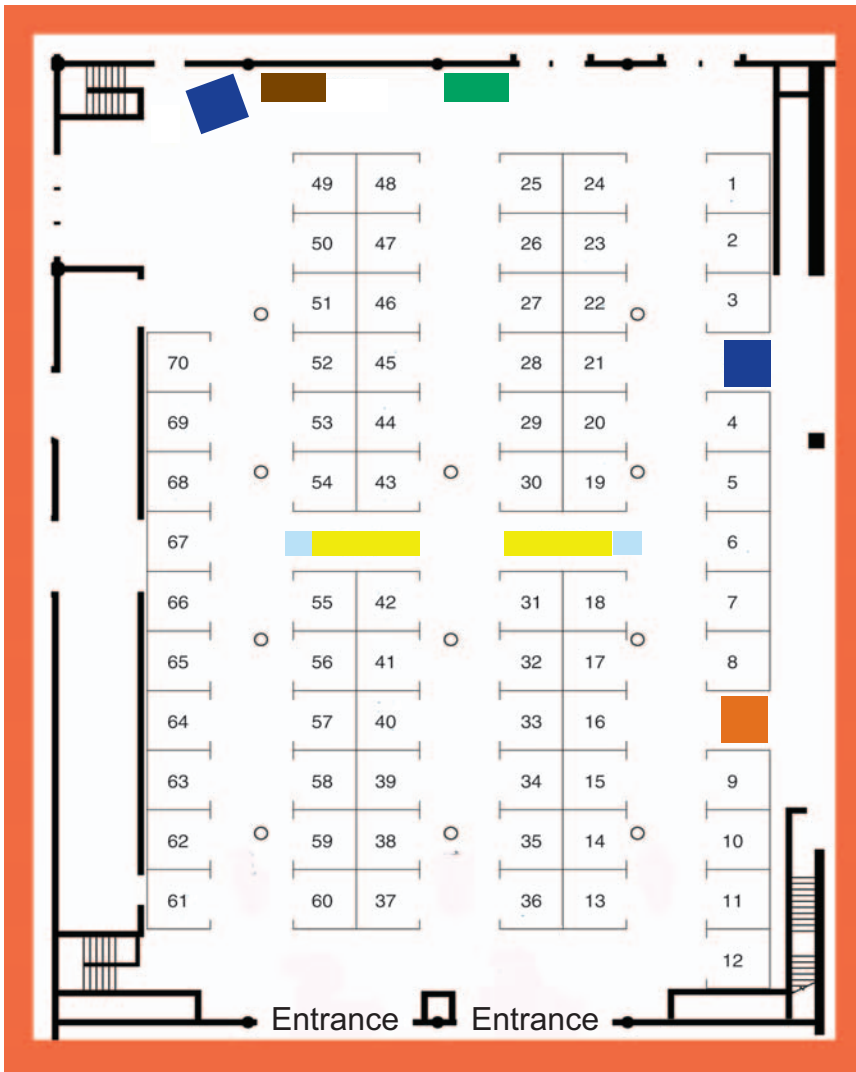
“Where do I find it?”

- Ballroom Center
- Ballroom Center
- Near Booth 49 and between Booths 3 & 4
- Near Booth 49
- Between Booths 8 & 9
- Near Booths 25 & 48

View the Regency Ballroom Floor Plan on page 7 to see food and beverage locations.

# 2006 APC Exhibition Layout

## Regency Ballroom



## 2006 Exhibitor List with Booth Numbers

- 1 & 2 CE Power Solutions
- 3 Marsulex Environmental Technologies
- 4 Teledyne-API
- 5 & 6 GE Energy / BHA
- 7 Metso Minerals Industries
- 8 Hamon Research-Cottrell
- 9 MSI/ Mechanical Systems, Inc.
- 10 FlowTack LLC
- 11 & 12 The Babcock & Wilcox Co.
- 13 Castell Interlocks, Inc.
- 14 ETS Inc.
- 15 Redkoh Industries
- 16 EPSCO International, Ltd.
- 17 & 18 Wheelabrator Air Pollution Control
- 19 Southern Environmental Inc.
- 20 & 21 Hotfoil, Inc.
- 22 HV Components / CKE
- 23 & 24 Stock Equipment
- 25 Duomar, Inc.
- 26 Terra Environmental Technologies
- 27 & 28 Alstom Power
- 29 A.V.C. Specialists, Inc.
- 30 Southern Environmental Inc.
- 31 & 32 Stein Industries Inc.
- 33 Southern Research Institute
- 34 AirTek
- 35 HRI, Inc.
- 36 Spectrum Systems, Inc.
- 37 Casey Industrial, Inc.
- 38 Institute of Clean Air Companies (ICAC)
- 39 CoorsTek
- 40 & 41 Kirk Key Interlock Co.
- 42 Babcock Power Inc.
- 43 & 44 Blue Skies Environmental, Inc. / Dovco Industrial Fabricators, Inc.
- 45 Lodge Cottrell Inc.
- 46 KMPT USA, Inc
- 47 Merrick Environmental Technology
- 48 Indigo Technologies, LLC
- 49 Chemithon
- 50 & 51 STEAG LLC
- 52 CleanAir Engineering
- 53 & 54 NWL
- 55 Babcock Power Inc.
- 56 Enerfab Inc.
- 57 Wahlco, Inc.
- 58 Chattanooga Boiler & Tank Co.
- 59 Thermo Electron Corporation
- 60 ADA-ES, Inc.
- 61 Reinhold Environmental Ltd.
- 62 & 63 Clyde Bergemann EEC
- 64 & 65 BH Thermal / BriskHeat Products
- 66 & 67 Precipitator Services Group Inc.
- 68 Rema Tip Top N.A., Inc.
- 69 Buell Div. of Fisher-Klosterman, Inc.
- 70 Airflow Sciences Corporation



### New this Expo....

...is the Reinhold Environmental Information Table, located at booth 61. If you have any questions or concerns, or would like to know a little more about us, please feel free to stop by.

### Reinhold Environmental Conference Staff

*Susan Reinhold,  
Chairman and CEO*

Expo Hall

*Suzi Reinhold, Vice President  
Amber Zahniser*

Audio Visual

*Sandy Crynack, Supervisor  
Rhonda Watt*

Registration Desk

*Sharon McGaughey, Business Mgr.  
Rollanda Cothran  
Carrie Gray*

Golf Tournament

*Rhonda Watt, Event Coordinator  
Sandy Crynack  
Carrie Gray  
Amber Zahniser*

## 2006 APC Exhibitors

### ADA-ES, Inc. . . . .60

8100 SouthPark Way, Unit B  
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Jean Bustard, COO  
jeanb@adaes.com  
Business: 303-734-1727 Fax: 303-734-0330  
www.adaes.com



ADA-ES, an environmental technology firm, is the leader in mercury emissions control and provides measurement services, compliance planning, and turnkey mercury control systems with performance guarantees. In addition we provide proprietary flue gas conditioners and combustion additives for improved ash handling, ESP performance, and slag fluxing in cyclone boilers.

### Airflow Sciences Corporation . . . . .70

12190 Hubbard  
Livonia, MI 48150  
Robert G. Mudry, P.E., Vice President, Engineering  
rmudry@airflowsciences.com  
Business: 734-525-0300 Fax: 734-525-0303  
www.airflowsciences.com



Experts in CFD, physical flow modeling, and field testing since 1975. Our modeling provides cost-effective designs for ducts, pulverizers, windboxes, SCRs, ESPs, baghouses, scrubbers, and stacks. Custom field test equipment ensures accurate and efficient measurement of flow, temperature, chemical species, and particulate. The combination of modeling, testing, and engineering expertise makes ASC the one-stop shop for all your flow-related needs.

### AirTek. . . . .34

P.O. Box 388, 700 Hudson St.  
Troy, AL 36081  
John Roberts, President  
jr@airtek-troy.com  
Business: 334-566-7400 Fax: 334-566-7496  
www.airtek-troy.com



AirTek has been a reliable and consistent provider of precipitator services to the pulp industry since 1988. These services have included consulting services, field service engineering, construction management, maintenance, new construction, major rebuilds, and supply of spare parts. Additionally, they have recently introduced their own line of ESP's. AirTek now offers this full range of services to the utility industry. AirTek is headquartered in Troy, AL and has recently opened a Baltimore, MD office.

### Alstom Power. . . . .27 & 28

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Sean Black, North American Marketing Manager  
sean.black@power.alstom.com  
Business: 865-693-7550 Fax: 865-694-5386  
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.

### A.V.C. Specialists, Inc. . . . .29

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 Power Inc. . . . .42 & 55

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



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daroth@babcock.com  
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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 Precipitators (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.

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## 2006 APC Exhibitors

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EPSCO International, Ltd. is a consulting firm specializing in economically solving air pollution control problems for coal-fired utilities, cement plants, and pulp & paper. They promote a 3-Phase approach to defining a problem before trying to solve it: Online Assessment, Offline Assessment, Analyses & Recommendations. EPSCO's staff of 20 consultants and associates have 20+ years of consulting experience on ESPs, FFs, FGD O&M, and SCR Maintenance & Structural Rehab on 200+ successful projects.

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The Institute of Clean Air Companies (ICAC) is the national association of companies that supply air pollution monitoring and control systems, equipment, and services for stationary sources. ICAC has promoted the air pollution control industry and encouraged improvement of engineering and technical standards since 1960. Our members are leading manufacturers of equipment to monitor and control emissions of PM, VOC, SO<sub>2</sub>, NO<sub>x</sub>, Hg and other air toxics.

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rstaehle@marsulex.com  
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Steag LLC is the U.S. subsidiary of Steag encotec GmbH which has provided environmental engineering and consulting services to the German power industry for 30 years. Steag's services include SCR system review and start-up, flow model testing, ammonia storage and supply systems, AIG tuning, emission control measurements, catalyst management programs, and large particle ash screens.

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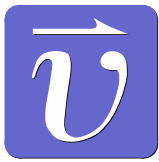
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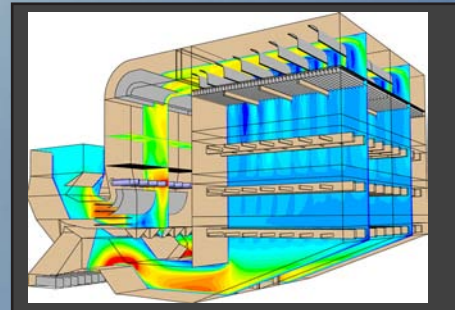
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