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**31th
REINHOLD
Round Table
& Expo**

**Coal & Gas
Co-firing; Air Pollution Control
Waste Water Treatment**

Show Guide 2024

Better emission compliance Through total emission solutions

New restrictions on NO_x , CO, and VOC emissions require potentially costly changes to combine and simple cycle gas turbine power generation plants. Umicore's proven emission control catalysts (GT-201, GTC-801, GT-802 and GTC-802 plus) help plants meet stricter emissions standards while improving performance and profitability. We offer a deep knowledge of emission control technologies, as well as specific expertise in standalone and combined applications for NO_x , CO and VOC reduction catalysts.

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2024 REINHOLD/PCUG Conference



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2024 REINHOLD Round Table

June 24-25, 2024, The Marriott Resort Lexington Griffin Gate Hotel

June 24, 2024 - Monday - REINHOLD Round Table

Registration & Continental Breakfast in expo (Grand Ballroom) begins at 7:00am

	SCR/CO/DSI/Gas	Scrubber/Spray Dryer/ Wastewater	Particulate/Fuels	O&M Training
	Workshop 1 (Grand Ballroom A-C)	Workshop 2 (Calumet-Darby Dan Room)	Workshop 3 (Dixianna-Lanes End)	Workshop 4 (Terrace Ballroom)
8:00-9:00	Why do SCRs Suffer from Buildup Issues <i>by Jeff & Connor Shelton, Dracyon Corp</i>	SCR System Performance Issues: The Big Four <i>by Scott Hinton, WSHinton and Assoc</i>	Update on EPA Regs <i>by Geoffrey Hensley, Dominion</i>	Optimizing Filter Bag Life and Testing Methods <i>by Marc McKenna and Terry Williamson, ETS</i>
	Workshop 5 (Grand Ballroom A-C)	Workshop 6 (Calumet-Darby Dan Room)	Workshop 7 (Dixianna-Lanes End)	Workshop 8 (Terrace Ballroom)
9:15-10:15	Evaluating DSI System Upgrades for Cost Effective Plant Improvements <i>by Mark Thomas, Mark Thomas & Assoc. Consulting</i>	Methods of SCR/CO Catalyst Testing Their Role in SCR Performance Investigations <i>by Dan Ott, Environex</i>	Generation Flexibility Optimization <i>by Stephen Storm, EPRI</i>	ESPs, Their Operation and Needs 101 <i>by Tim Mallory, Air Advantage</i>
10:15-11:00	Break in Exhibition Hall (Grand Ballroom)			
	(Grand Ballroom A-C)			
11:00-12:30	Awarding Round Table Awards: Ann Palmer, Mike Surface, Jake Shelton Keynote Speaker: Current State of the Utility Business <i>by Lonnie Bellar, PPL Senior VP – Engineering & Construction</i>			
12:30-1:30	Lunch in Exhibition Hall (Grand Ballroom)			
	Workshop 9 (Grand Ballroom A-C)	Workshop 10 (Calumet-Darby Dan Room)	Workshop 11 (Dixianna-Lanes End)	Workshop 12 (Terrace Ballroom)
1:30-2:30	Technical Considerations for Simple Cycle Hot SCRs <i>by Michael Allen, Vogt</i>	LPA Screen Maintenance – Critical to SCR Health, Yet Often Overlooked <i>by Andrew Kline, IGS</i>	Improving Operational Efficiency of Baghouses <i>by Kaushal Gala, F.O.S</i>	ESP Electrical 101 <i>by Russ Ridgeway, AEP retired</i>
	Panel I (Grand Ballroom A-C)			Workshop 13 (Terrace Ballroom)
2:45-3:45	Question You Always Wanted to Ask but Were Afraid to / Chairman: Darren Hanby <i>Panelists: Chad Donner, Duke Energy; John Lytle, TVA retired; Mike Surface, Dominion retired; Steve Wolsiffer, IP&L retired; Ron Richard, Duke Energy retired; Russ Ridgeway, AEP retired</i>			Flue Gas Desulfurization Basics <i>by Roger Ferguson, Ameren retired</i>
3:45-4:30	Break in Exhibition Hall (Grand Ballroom)			
	Workshop 14 (Grand Ballroom A-C)	Workshop 15 (Calumet-Darby Dan Room)	Workshop 16 (Dixianna-Lanes End)	Workshop 17 (Terrace Ballroom)
4:30-5:30	Survey Says: DSI Challenges and Operational Best Practices from User Surveys <i>by Ian Saratovsky & Gerald Hunt, Lhoist</i>	Fuel Flexibility O&M Impacts <i>by Ann Palmer, Southern Company</i>	Beneficial Use of Coal Ash <i>by Tom Kierspe, The SEFA Group</i>	Boiler Cleanliness to Maximize Boiler Efficiency and Operation <i>by Danny Storm, Storm Technologies</i>
5:30-6:30	Reception in Exhibition Hall (Grand Ballroom)			

June 25, 2024 - Tuesday - REINHOLD Round Table

Registration & Continental Breakfast in expo from 7:00 to 8:30 (Grand Ballroom)

	SCR/CO/DSI/Gas	SCR/CO/DSI/Gas	CCR/Wastewater	O&M Training
	Panel II (Grand Ballroom A-C)			Workshop 18 (Terrace Ballroom)
8:00 - 9:00	Gas SCRs / Chaired by John Brotherton, Duke Energy / <i>Panelists: Mike O'Connor, Vistra; Randy Bullock, Southern Co; Michael Allen, Vogt; Nate White, Umicore; Dan Johnson, Cormetech</i>			Fuels <i>by Matthew Wilson & Kelly Flanagan, TVA</i>
	Workshop 19 (Grand Ballroom A-C)	Workshop 20 (Calumet-Darby Dan Room)	Workshop 21 (Dixianna-Lanes End)	Workshop 22 (Terrace Ballroom)
9:15 - 10:15	Navigating EPA's Four New Rules for Coal-Fired Power Plants <i>by Rena Bae, Stantec</i>	Direct Urea Injection Modifications <i>by Bill Reinhart, Buckeye Power</i>	Update on New EPA CO₂ Regs <i>by Sean Behm, Vistra</i>	SCR O&M 101 <i>by Jake Shelton, ACS/Cormetech</i>
10:15-11:00	Break in Exhibition Hall (Grand Ballroom)			
	Panel III (Grand Ballroom A-C)		Workshop 23 (Dixianna-Lanes End)	Workshop 24 (Terrace Ballroom)
11:00-12:15	Implementing New ELG Regs / Chairman: Derek Henderson, Duke Energy <i>Panelists: Morgan French, UCC Environmental; Carson Brown, Southern Company; Mike Rupinen, LG&E/KU; Dave Donkin, UCC Environmental</i>		Getting the Most Value out of Catalyst Testing <i>by Noel Roshia, Ceram</i>	Dry Sorbent Injection: Compliance, Conveying, and Cost Optimization <i>by Curt Biehn, Cal Lockert, MLC</i>
12:15-1:45	Lunch in Exhibition Hall (Grand Ballroom)			
	Workshop 25 (Grand Ballroom A-C)	Workshop 26 (Calumet-Darby Dan Room)	Workshop 27 (Dixianna-Lanes End)	Workshop 28 (Terrace Ballroom)
1:45-2:45	SCR Technology for Simple Cycle Large Frame GT Applications <i>by Kyle Neidig, Mitsubishi Power</i>	SCR Troubleshooting and AIG Testing <i>by Darren Hanby</i>	Upgrading Your FF to Meet New MATS Regulation fPM Limits <i>by Bruce Salisbury, West Peak Energy</i>	Discussion on O&M of CCR Conveyance Systems Post ELG Regulations <i>by Morgan French, UCC Environmental</i>
2:45-3:30	Break in Exhibition Hall - drawing Treasure Hunt Winners (Grand Ballroom)			
	Panel IV (Grand Ballroom A-C)			
3:30-5:00	Our Next 10 Years: What Will it Look Like? Chairman: Haley Turner, LG&E-KU <i>Panelists: Ann Palmer, Southern Company; Matt Wilson, TVA; John Brotherton, Duke Energy; Darren Hanby</i>			
5:30-9:00	Conference Event for delegates & families at Griffin Gate Hotel Drinks and Dinner: 6:00-7:30 / Bourbon Tasting: 7:30-8:30 Bluegrass Band: 7:30 -9:30			

Workshops and Panels

**Congratulations to Ann Palmer and Jake Shelton
and Mike Surface (retired)
this year's awardees**

Round Table Lifetime Achievement Awardees



**Chad Donner, Tim Mallory, John McKenna
Ron Laws, Mark Thomas
Darryl Wall, Curt Biehn
John Brotherton, Blake Stapper
Melissa Allen; Sharon Sjostrom
Randy Fields; Gary Tonnemacher
Doug Hartman; Dan Steinhaur
Darren Hanby; Nate White
Melanie McCoy; Per Ranstad;
Tony Engelmeyer; Connie Senior;
Scott Thomas; Robert Crynack; Paul Ford;
Michael O'Connor; Cindy Khalaf; Ron Richard;
John Walker; Gordon Maller; Steve Wolsiffer;
George Valentine; James Chaney; Nancy Stephenson;
Bruce Salisbury; Greg Betenson; Greg Bielawski;
Gerry Klemm; Hans Hartenstein;
Ed Healy; Russ Ridgeway; Robert Taylor;
Rick Collins; Rob Mudry;
Scott Williams; Tony Licata;
James Benes; Scott Hinton;
Michael Nelson; Jean Bustard;
John Lytle; Ralph Altman;
Rod Hansen; Chairman Tal Woo Lee**

Workshops and Panels

Monday, June 24, 2024

8:00 to 9:00 am

Workshop 1: Why do SCRs Suffer from Buildup Issues by *Jeff & Connor Shelton, Dracyon Corp* (Grand Ballroom A-C)

In coal SCR units' catalyst life is greatly reduced because of buildup. This buildup can be avoided without increasing the pitch. The Power Industry has accepted this short life, and we discuss how to keep your catalyst clean and double or triple your catalyst life while improving NO_x removal!

Workshop 2: SCR System Performance Issues: The Big Four by *Scott Hinton, WSHinton and Assoc.* (Calumet-Darby Dan Room)

Four critical aspects of SCR operation; plugging, deactivation, catalyst selection, and NH₃/NO_x distribution will be discussed, with emphasis on bottom line costs to the utility, catalyst management impacts, and mitigation approaches. Various scenarios will be presented demonstrating the effects of these parameters on SCR capacity, long-term operability, and long-term costs.

Workshop 3: Update on EPA Regs by *Geoffrey Hensley, Dominion* ((Dixianna-Lanes End Room)

The environmental regulatory update presentation will provide an overview of the new rules EPA published in the Federal Register in May to include the compliance requirements of the rules and how they may impact the electric utility industry. Updates to be discussed include the Greenhouse Gas Rules – 111(b) and 111(d), the Mercury and Air Toxics Standards, the Effluent Limit Guidelines, and the Coal Combustion Residuals Rule.

Workshop 4: Optimizing Filter Bag Life and Testing Methods by *Marc McKenna and Terry Williamson, ETS* (Terrace Ballroom)

This presentation will discuss how to achieve maximum bag life. Topics include Bag Selection, Specification, Quality Assurance, Proper Installation, Bag Monitoring along with timely identification and correction of Bag Failures. Reasons for Fabric Testing and Methods utilized will also be addressed in detail.

9:15 to 10:15 am

Workshop 5: Evaluating DSI System Upgrades for Cost Effective Plant Improvements by *Mark Thomas, Mark Thomas & Assoc. Consulting* ((Grand Ballroom A-C)

Many plants are considering upgrades to poor performing DSI systems and/or retrofits for Balance of Plant (BOP) benefits. This presentation will discuss factors to consider when evaluating DSI system upgrades and will present proven cost effective options for improved system performance.

Workshop 6: Methods of SCR/CO Catalyst Testing & Their Role in SCR Performance Investigations by *Dan Ott, Environex* (Calumet-Darby Dan Room)

Testing methods for SCR and CO/VOC catalyst activity and chemical contaminant analysis will be discussed with respect to their application to SCR/CO system lifecycle analysis. Case studies that show how these various methods are used for catalyst system performance and root cause investigations will be included to demonstrate their effectiveness.

Workshop 7: Generation Flexibility Optimization by *Stephen Storm, EPRI* (Dixianna-Lanes End Room)

Rising operating costs, increased competition from other non-thermal power generating sources, and regulatory pressures have increased the need to improve heat rate, flexibility, and reliability. The optimal flexibility solution for any generating fleet is determined by the complex interplay of its existing assets, their condition, market drivers, and the direction of regulatory policy where the fleets operate. Thermal plants must be reliable, resilient, and economically viable as we move energy transformation forward. This presentation will provide some industry considerations and methodologies for managing thermal generating assets under flexible operations.

Workshop 8: ESPs, Their Operation and Needs 101 by *Tim Mallory, Air Advantage* (Terrace Ballroom)

This class will serve as an introduction to the exciting world of electrostatic precipitation. Students will learn the basics of gas flow uniformity, the application of precipitator rappers, and various maintenance and troubleshooting techniques in achieving best in class performance from their air pollution control systems.

Workshops and Panels

Monday, June 24, 2024

11:00 to 12:30 am

Award Presentation: Round Table Awardees: Ann Palmer, Jake Shelton and Mike Surface (Grand Ballroom A-C)

Keynote Speaker: Current State of the Utility Business by *Lonnie Bellar, PPL Senior VP – Engineering & Construction* (Grand Ballroom A-C)

*******LUNCH in Grand Ballroom (12:30 to 1:30pm)*******

1:30 to 2:30 pm

Workshop 9: Technical Considerations for Simple Cycle Hot SCRs by *Michael Allen, Vogt* (Grand Ballroom A-C)

Would you like to learn more about Simple Cycle Emissions Control Systems? Learn about Vogt's newest "Hot SCR" product line! At this workshop we will explore multiple aspects of this growing market as well as answering any questions you may have about gas fired SCRs.

Workshop 10: LPA Screen Maintenance – Critical to SCR Health, Yet Often Overlooked by *Andrew Kline, IGS* (Calumet-Darby Dan Room)

This IGS presentation is a review of multiple case studies focusing on different methods for LPA Screen maintenance and their impacts on SCR & plant performance. We will discuss the importance of preventing LPA from reaching the SCR, take a look at various pros and cons for different screen maintenance methods, and discuss best practices for various LPA screen applications.

Workshop 11: Improving Operational Efficiency of Baghouses by *Kaushal Gala, F.O.S* (Dixiana-Lanes End Room)

This presentation will highlight various filter bags options along with P&M measures which will support the plant personnel in improving the overall operational efficiency of the baghouses. This presentation will also explain the benefits of using On-Line cleaning to achieve desired operational parameters.

Workshop 12: ESP Electrical 101 by *Russ Ridgeway, AEP retired* (Terrace Ballroom)

2:45 to 3:45 pm

Workshop 13: Flue Gas Desulfurization Basics by *Roger Ferguson, Ameren retired* (Terrace Ballroom)

Flue Gas Desulfurization in a nutshell: Why do Power Plants have Scrubbers? Basic Chemistry for SO₂ Removal. FGD Equipment and Operation overview. FGD Lessons Learned from 1977 - 2024 in multiple plants, multiple roles, multiple technologies.

Panel I: Question You Always Wanted to Ask but Were Afraid to / Chairman: Darren Hanby

Panelists: Chad Donner, Duke Energy; John Lytle, TVA retired; Mike Surface, Dominion retired; Steve Wolsiffer, IP&L retired; Ron Richard, Duke Energy retired; Russ Ridgeway, AEP retired (Grand Ballroom A-C)

Have you ever had a question and something just held you back from asking it in public? Well here is your chance! This panel of seasoned individuals is here to take on all questions on pollution control, big or small. The problems you are facing and the questions you have, they've probably seen it.

4:30 to 5:30 pm

Workshop 14: Survey Says: DSI Challenges and Operational Best Practices from User Surveys by *Ian Saratovsky & Gerald Hunt, Lhoist* (Grand Ballroom A-C)

A multitude of dry sorbent injection (DSI) end users completed a survey about their DSI system operational experience and pain points. The data will be compiled and presented to provide some indication of the current challenges faced by a DSI system operator. Lhoist North America will present about the common causes to these operational issues including proposed solutions to these problems and any further insight ascertained from the survey results. The objective of the survey will be to capture the current state of the DSI industry to understand how today's pain points compare to those of the past.

Workshops and Panels

Monday, June 26, 2023

4:30 to 5:30 pm (cont.)

Workshop 15: Fuel Flexibility O&M Impacts by *Ann Palmer, Southern Company* (Calumet-Darby Dan Room)

This session will focus on O&M impacts around the environmental equipment that have been seen with the increased demand for fuel flexibility. It will include discussions on impacts due to co-firing of natural gas with coal along with those experienced from burning a variety of coals due to burning down coal piles and coal type availability.

Workshop 16: Beneficial Use of Coal Ash by *Tom Kierspe, The SEFA Group* (Dixianna-Lanes End Room)

Workshop 17: Boiler Cleanliness to Maximize Boiler Efficiency and Operation by *Danny Storm, Storm Technologies* (Terrace Ballroom)

This presentation will review the boiler fouling with alternative cleaning devices designed to clean with “Shock Wave” technology. These devices have improved unit performance while reducing forced outages required for boiler cleaning off-line and allowing the plant to stay on line for longer durations. This has helped with outage costs as well as boiler availability, reliability and efficiency.

*******RECEPTION in Grand Ballroom (5:30 to 6:30 pm)*******

Tuesday, June 25, 2024

8:00 to 9:00 am

Panel II: Gas SCRs / Chaired by *John Brotherton, Duke Energy* /

Panelists: Mike O’Connor, Vistra; Randy Bullock, Southern Co; Michael Allen, Vogt; Nate White, Umicore; Dan Johnson, Cormetech (Grand Ballroom A-C)

This Panel will cover topics that include trends for existing Natural Gas SCRs O&M, operational flexibility, and catalyst replacement needs. New unit design considerations for various unit configurations and types will also be discussed. Finally, impacts from recent EPA regulations for natural gas conversion of coal-fired units, Hydrogen firing, and Carbon Capture alternatives will be addressed.

Workshop 18: Fuels by *Matthew Wilson & Kelly Flanagan, TVA* (Terrace Ballroom)

Power generation coal: We’ll start with the domestic 48’s different coal basins, reviewing major differences in coal types, constituents, and general mining methods. Then shift to challenges of selection of fuels and reagents for power generation.

9:15 to 10:15 am

Workshop 19: Navigating EPA’s Four New Rules for Coal-Fired Power Plants by *Rena Bae, Stantec* (Grand Ballroom A-C)

EPA published four rules for power plants affecting air, water, and solid waste management and limitations. This presentation will help you understand how these rules work together and what to do when they don’t.

Workshop 20: Direct Urea Injection Modifications by *Bill Reinhart, Buckeye Power* (Calumet-Darby Dan Room)

Cardinal Plant Unit 3 Direct Urea Injection Project Update. Initial project was commissioned Spring 2022. After experiencing issues with clinker formation, mixing disc corrosion, and SCR plugging, the direct urea injection system was upgraded Spring 2024. Presentation discusses CFD modelling used to optimize system reconfiguration, development of custom air atomization lances for finer droplet sizes and improved urea distribution, and laboratory droplet size characterization funded through an EPRI supplemental project.

Workshop 21: Update on New EPA CO₂ Regs by *Sean Behm, Vistra* (Dixianna-Lanes End Room)

EPA’s latest greenhouse gas rule impacts multiple areas of the power sector, including new gas turbines and existing gas and coal steam units. These regulations will be discussed with a review of the impacts to existing units and a look at how these regulations may impact the future of the industry.

Workshop 22: SCR O&M 101 by *Jake Shelton, ACS/Cormetech* (Terrace Ballroom)

This session will address the causes of ash piling/plugged catalyst and the actions to overcome these issues. The focus of this session will be ash tolerant catalyst, optimizing the online catalyst cleaning systems and incorporating an effective offline catalyst cleaning program — a holistic solution.

Workshops and Panels

Tuesday, June 25, 2024

11:00 am to 12:15 pm

Workshop 23: Getting the Most Value out of Catalyst Testing by *Noel Rosha, Ceram* (Dixianna-Lanes End Room)

Getting the Most Value out of Catalyst Testing. Accurate laboratory testing is one critical component to proper analysis of your overall SCR system performance. Ensure that your laboratory results are accurate and meaningful, and know the challenges associated with interpreting and applying the results to the full scale SCR system.

Workshop 24: Dry Sorbent Injection: Compliance, Conveying, and Cost Optimization by *Curt Biehn, Cal Lockert, MLC* (Terrace Ballroom)

This session will present a general overview regarding use of hydrated lime for dry sorbent injection. We will discuss performance in controlling acidic gases such as sulfuric acid mist, hydrochloric acid, and sulfur dioxide. We will also look at factors that affect performance.

Panel III: Implementing New ELG Regs / *Chairman: Derek Henderson, Duke Energy* *Panelists: Morgan French, UCC Environmental; Carson Brown, Southern Company; Mike Rupinen, LG&E/KU; Dave Donkin, UCC Environmental* (Grand Ballroom A-C)

In May, the EPA released 2024 Final Rule for strengthening discharge limitations from Steam Electric Power Generation facilities. The regulation specifically targets leachate, BATW, and FGD wastewater streams, while also outlining new compliance deadlines. This panel will discuss their thoughts on the regulation and potential treatment technologies considering for compliance.

*******LUNCH in Grand Ballroom (12:15 to 1:45pm)*******

1:45 to 2:45 pm

Workshop 25: SCR Technology for Simple Cycle Large Frame GT Applications by *Kyle Neidig, Mitsubishi Power* (Grand Ballroom A-C)

Workshop 26: SCR Troubleshooting and AIG Testing by *Darren Hanby* (Calumet-Darby Dan Room)

This presentation discusses the importance of ammonia injection system tuning to attain your NOx reduction goals. Important factors such as knowing your system, methods of tuning, tuning strategies, as well as operational diagnostics will be covered. Reseas Cups will be provided.

Workshop 27: Upgrading Your FF to Meet New MATS Regulation fPM Limits by *Bruce Salisbury, West Peak Energy* (Hayes Room)

A short course in finding and fixing particulate sources getting out your stack. This will cover baghouse filter failures, to spurious particulate sources that leak through scrubbers and other equipment and out the stack.

Workshop 28: Discussion on O&M of CCR Conveyance Systems Post ELG Regulations by *Morgan French, UCC Environmental* (Terrace Ballroom)

*******Treasure Hunt Visa Cards Drawing in GrandBallroom 2:45 pm*******

3:30 to 5:00 pm

Panel IV: Our Next 10 Years: What Will it Look Like? *Chairman: Haley Turner, LG&E-KU*

Panelists: Ann Palmer, Southern Company; Matt Wilson, TVA; John Brotherton, Duke Energy; Darren Hanby (Grand Ballroom A-C)

5:30 to 9:00 pm

*******Conference Event*******

Come and have some fun!!

Tuesday dinner
at
Griffin Gate Hotel's
tent by the pool
and
Live Bluegrass Music

Conference Event on 6/25/24



7:30 Bourbon Tasting in Terrace Ballroom



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Treasure Hunt!

Utility attendees - look for the treasure hunt card inside your name tag. Search the expo for the answers. Place your completed card in the box at the registration desk by 2:40 Tuesday afternoon. Drawing for prizes will be held in the expo hall at 2:45 pm.

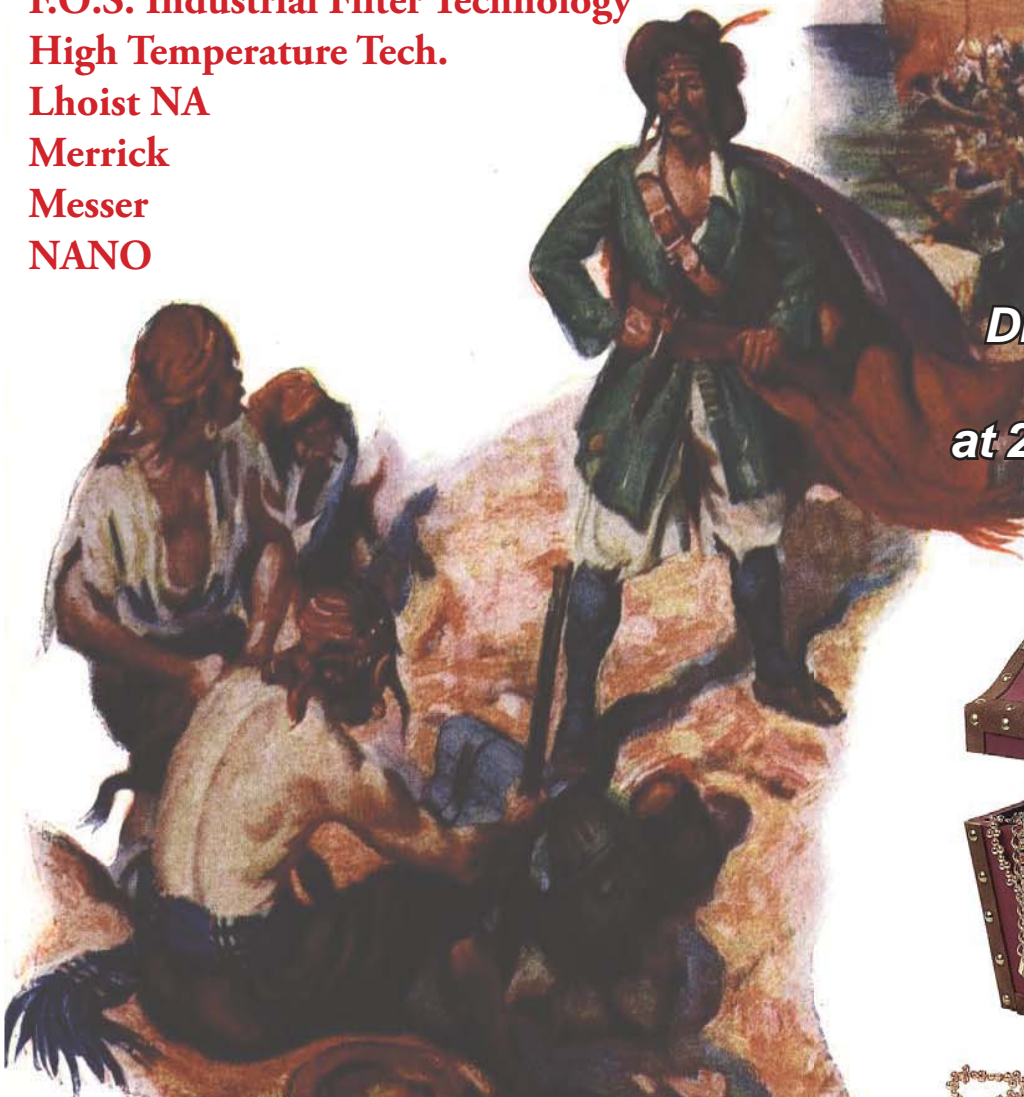
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13 VISA Gift Cards
will be awarded
1@ \$500
2@ \$300
4@ \$200
6@ \$100

*Drawing to be held
Tuesday
at 2:45 pm in the Expo
Hall*

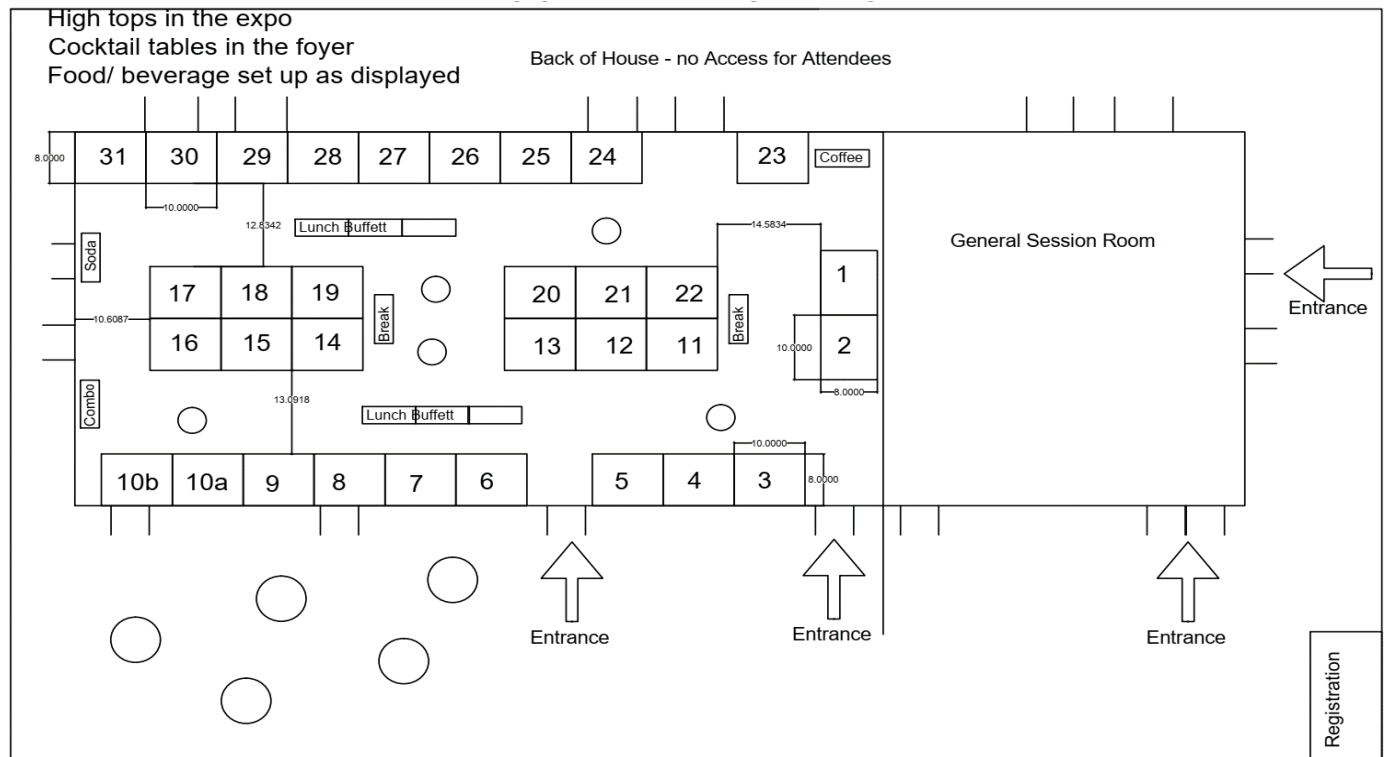


2024 REINHOLD Round Table & Exhibition

Hosted by LG&E/KU, TVA, Southern Company on June 24-25, 2024
The Griffin Gate Marriott Resort & Spa, Lexington, KY 40511

#	Exhibitor
1	Day & Zimmermann
2	Beijing Denox Environment & Tech
3	Merrick
4	EES
5	Mississippi Lime Company
6	NANO Co.
7	ETS, Inc
8	Mitsubishi Power Americas
9	Environex, Inc
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11	Airflow Sciences Corp.
12	High Temperature Technologies, Inc.
13	UCC Environmental
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15	PULLMAN
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#	Exhibitor
17	Storm Technologies Inc.
18	PPC Insulators
19	Cormetech
20	Integrated Global Services
21	CEECO Equipment
22	F.O.S Industrial Filter Tech. (Conf Sp)
23	NWL
24	Ohio Lumex
25	Southern Environmental
26	Umicore Catalyst USA (Conf Sponsor)
27	ANDRITZ AG
28	Lhoist North America
29	Open
30	Reinhold Environmental
31	Reinhold Environmental



2024 REINHOLD Round Table Exhibitors

Airflow Sciences Corporation.....11

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ANDRITZ AG.....27

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www.andritz.com



ANDRITZ is an international technology group providing plants, systems, equipment, and services for various industries. The company is one of the technology and global market leaders in the hydropower business, the pulp and paper industry, the metal working and steel industries, and in solid/liquid separation in the municipal and industrial segments. ANDRITZ is headquartered in Graz, Austria. Since its foundation 170 years ago, ANDRITZ has developed into a Group with approximately 29'700 employees, and more than 280 locations in over 40 countries worldwide. As a reliable and competent partner, ANDRITZ supports its customers in achieving corporate and sustainability goals.

The Air Pollution Control (APC) division, part of the pulp & paper business area, provides tailor-made APC solutions focusing on reduced emissions and improved performance and efficiency to meet changing market conditions and comply with asset strategies. The APC portfolio covers the entire flue gas line, ranging from particulate control, dry and wet scrubbers, to multi-pollutant equipment for industrial, waste-to-energy and power generation plants.

Beijing Denox Environmental Technology & Co.....2

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Beijing Denox Environmental Technology&Co.,LTD. (StockcodeHK01452), founded in 2010, is a leader of SCR technology for coal-fired powerplants headquartered in Beijing, China. Beijing Denox currently manufactures stationary SCR products in types of plate and honeycomb in high/low temperature, and Oxidation catalyst, etc. With over more than 50,000 m² of manufacturing facilities and innovative laboratories, and an annual catalyst production capacity of 38,000 m³, Beijing Denox participates in reduction of nitrogen oxide (NOx) emissions from powerplants, industrial boilers, diesel generators, etc. Beijing Denox establishes business cooperation with major European enterprises from VATTENFALL, EON and China's top five powerplant groups. Up to today, Beijing Denox has signed more than 400 projects worldwide and more than 260 units of catalyst supply contracts, providing SCR catalysts for about 70 million kilowatt coal-fired boilers in total.

BWF Envirotec USA.....10

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Larry Brown
Industry Manager – Power and Processing
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Business: 859-905-1226
www.bwfamerica.com



BWF Envirotec is the world's leading supplier of filter bags to the power generation market. As both a needle felt producer and bag fabricator, BWF Envirotec has the unique ability to match the gas stream characteristics with the properties of the needle felt ensuring maximum bag performance. In addition the standard services offered by BWF Envirotec and the Environmental Services team are: baghouse maintenance service, change-outs, retrofits, and mechanical inspections.

CEECO Equipment.....21

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Arnie Beringer
Managing Partner
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Business: 513-709-8444 / www.ceecoequipment.com



CEECO Equipment has been a leader in providing air pollution control (APC) systems and engineered process equipment to utilities and industry since 1961. CEECO is dedicated to serving our customers and providing engineered equipment solutions, backed by market-leading manufacturers. We strive to provide the best solution possible at the lowest total cost of ownership.

CERAM USA.....14

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Noel Rosha, President
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CERAM manufactures honeycomb and plate type SCR catalysts and provides comprehensive SCR system services. We have delivered SCR catalysts for more than 2,000 SCR systems worldwide. Our experience portfolio includes coal, gas, oil, biomass, cement, MSW/RDF, petroleum refineries, diesel engines, and other unusual fuel/application types. SCR system services include catalyst testing, reactor inspections, operations assessments, AIG tunings, low load studies, and catalyst management planning utilizing our proprietary Manage CATLife® model. This model is adaptable for all catalyst types, geometries and compositions. The model is also flexible to evaluate both regenerated and new catalysts over multiple operating scenarios, fuels changes, and emissions targets.

CORMETECH.....17

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Dan Johnson VP of Business Development
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www.cormetech.com



CORMETECH is a global leader in the design, manufacture and lifecycle management of catalyst technologies that clean the air of NOx, CO and VOCs. The company is a full-lifecycle provider, offering an array of emissions control engineering services for the power, marine, industrial-process, refinery and petrochemical markets. CORMETECH's reputation is built on three decades of developing and delivering US market leading Selective Catalytic Reduction (SCR) and Oxidation catalysts. The Company's DustBuster™ is the most advanced catalyst for high dust coal environments that limits plugging while maximizing catalytic potential. The Company's Elite™ technology is an ultra-high surface area catalyst combined with ultra-high surface area module design specifically designed for use in combustion turbines that is capable of the market's lowest achievable turbine backpressure. The Company's METEORTM is a multi-emission catalyst capable of reducing NOx, CO and VOCs simultaneously in a single layer of catalyst. Since 2021, CORMETECH has also received multiple research and development awards from the US DOE to help advance CO₂ capture technology both for Direct Air Capture (DAC), as well as Point Source Capture (PSC) from power and industrial plant exhaust gases.

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Day & Zimmermann.....1

2801 Yorkmont Road, Ste 310
Charlotte, NC 28208
Jordan Seabolt, Marketing Events Coordinator
Business: 223-281-8535 / www.dayzim.com



Day & Zimmermann®
We do what we say.®

Day & Zimmermann is a leading provider of construction and maintenance services for the U.S. power industry. We deliver complex projects safely, on time, and within budget by leveraging wide-ranging capabilities, longstanding industry experience, innovative technology, and expert project teams. Our unique approach employs seamless processes that effectively manage all aspects of the plant lifecycle.

Our alliance model promotes the development of innovative solutions to lower the total cost of plant ownership. Partnering with gas and coal power plants across the United States for decades gives us insight on how to gain efficiencies increase productivity and safety in a variety of areas. We actively work with our gas and coal plant customers to meet their goals in a safe an efficient manner day after day. Safety is our number one core value. Nothing is more important – not profit, not schedule – nothing. We care about safety because we care about people. For more than a century, we have shared a personal and professional commitment to protect the safety and health of our employees, customers, partners, subcontractors, and the communities we serve. We do this by building strong relationships with our clients, union leadership and our skilled craft employees. Our teams are driven to plan projects starting with safety in mind, and we measure our success every day.

Environex, Inc.....9

1 Great Valley Parkway, Ste 4
Malvern, PA 19355
Joe Otto, Marketing Director
Business: 484-320-8608 / www.environex.com



Environex, Inc.
Independent Catalyst Experts

Established in 1991, Environex Inc. offers engineering and consulting expertise in air emissions control systems for the power generation industry. We are experts in Post Combustion NOx and CO/VOC control technologies. Our focus is SCR and oxidation catalyst testing and system maintenance, catalyst management and selection, troubleshooting, and design. We operate an independent US-based test laboratory specializing in SCR and CO/VOC catalyst testing. Environex provides objective third party testing, engineering, and consulting on emissions control products and systems.

With over 30 years of experience in the power industry, we have an extensive database of catalyst test results and consulting projects to draw from. We have worked with catalyst systems on the full range of prime movers, from small engines to large frame gas turbines, as well as industrial boilers of all sizes. Our experience includes systems used on all fuel types, including natural gas, oil, biomass, and coal. The Environex database includes catalyst test results and projects on systems from all catalyst manufacturers, system/HRSG suppliers, and gas turbine and boiler makers. If you are having a catalyst or emissions control problem, chances are we have seen it before.

Environmental Energy Services.....4

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Mark Keffer, Executive Vice President
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Business: (203)270-0337 / www.eescorp.com



EES offers innovative engineering services, equipment, and chemical technologies for emission controls, energy efficiency, and boiler performance. CoalTreat® for slag/fouling mitigation of coal-fired boilers; Delta CO, O₂ and NOx analyzers; KLeeNscrub® precipitant for Hg remediation; KLeeNwater™ physical/chemical water treatment programs to maximize water reuse and minimize wastewater meeting ELG; STEP Combustion for burners, fuel conversions, SNCR and SCR, combustion/burner tuning.

ETS.....7

1401 Municipal Road, NW
Roanoke, VA 24012, USA
Marc McKenna, President
mmck@etsi-inc.com
Business: 540-265-0004 ext. 235 / www.etsi-inc.com



Founded 1973, ETS, Inc. a testing/training firm specializing in particulate emission control, recognized as the world's leading baghouse consultant, has an independent bag/fabric testing laboratory which conducts filtration performance testing that complies with methods ASTM D6830-02 and VDI 3926. The firm has a reputation for successfully troubleshooting APC equipment, providing specification assistance, executing fabric/bag quality assurance programs as well as bag life monitoring & optimization programs, providing expert testimony, and conducting its Baghouse Seminar plus Pollution Control Training Programs.

F.O.S. Industrial Filter Technology, Inc.22

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Quincy, MA 02169
Kaushal Gala,
Head-International Sales and Business Development
kgala@fos-filtertec.com,
Business: 617 650 1900 / www.fos-filtertec.com



The F.O.S. Group offers comprehensive services and solutions related to all aspects of industrial baghouse filters. Headquartered in Germany, we are a world leader in manufacturing wide selection of high-performance filter media products including filter bags, filter cartridges, filter tubes, and other accessories. With over 25 years in business of optimizing dust collecting systems, we have our patented, German-engineered dedusting technology, F.O.S. On-line Cleaning®, which is a leader in the industry in terms of bringing tangible cost-saving advantages by avoiding need to replacing filter bags/cartridges allowing savings of up to 80% on reinvestment costs, and operational excellence wherein you can expect to find your differential pressure to be close to what is found with brand new filters. While every system and operation are unique, we have clients who realize additional months and even years of extended life.

We have a filter bag manufacturing at our factory in Germany and partner facilities. This ensures timely and quality product at the best optimized rates. All types of felt we use for filter bags are third party lab tested and approved. Our facilities are EU standards and ISO certified.

High Temperature Technologies.....12

4324 Revolution Park Drive, Suite 106
Charlotte, NC 28217
Jenifer Gelorme, President
jenifer@isomembrane.com
Business: 704 375-2111 / www.isomembrane.com



High Temperature Technologies specializes in sealing air and gas leakage issues in high temperature and multi-plane movement environments with our ISOMEMBRANE® sealing system. ISOMEMBRANE® is a flexible multi-ply seal installed over the leakage area allowing for movement, unlike refractory and welding options. In addition, we are typically able to install ISOMEMBRANE® directly over existing materials eliminating the need for demolition. When sealing ductwork expansion joints, we are often able to install either internally or externally, which can provide significant cost savings. Given we can work safely, the unit can remain online in many situations. We've had the privilege to provide solutions throughout the country since 1993. Making friends at different plants and testing out new theories, we've also discovered ISOMEMBRANE® is a great solution for not only sealing dead air spaces but also expansion joints! Our proprietary materials including ISOBLANKET-V® and our "secret sauce" ISOBOND-V® are warehoused in Charlotte, NC allowing us to respond quickly to your needs.

Integrated Global Services, Inc.....20

7600 Whitepine Road
Richmond, VA 23237
Andrew Kline, Dir. of IGS Environmental
Andrew.Kline@IntegratedGlobal.com
Business: 804-794-1646
www.IntegratedGlobal.com



IGS Environmental provides a comprehensive approach to eliminate SCR fouling and buildup while helping plants meet and exceed NOx emissions regulations while maximizing SCR system efficiency. By utilizing state-of-the-art technologies such as NoNOx large particle ash (LPA) screens, CatFlow screens, and SCR air cannons, IGS is able to provide comprehensive SCR solutions and offer the industry leading 95% Clean SCR Guarantee.

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Lhoist North America, Inc......28
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 Dr. Ian Saratovsky
 Director - Flue Gas Treatment Solutions
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 www.Sorbacal.com



Lhoist North America is a leading supplier of high quality calcium based products, including Sorbacal® engineered hydrated lime sorbents for flue gas treatment. Sorbacal® SP is a highly reactive hydrated lime sorbent for acid gas, arsenic, and selenium abatement. Sorbacal® SPS is chemically activated to provide further improved performance while improving electrical resistivity, making it more compatible with ESPs. Sorbacal® ESP has the lowest electrical resistivity of any hydrated lime on the market. Lhoist also offers blended activated carbon (PAC) – hydrated lime sorbents for simultaneous capture of Hg and acid gases with a single sorbent. Lhoist can provide injection equipment, acid gas and/or mercury measurement equipment, data analysis, and application experts to identify and implement an optimized DSI solution.

Merrick & Company (Merrick).....3
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Merrick & Co. is an employee-owned engineering, architecture, surveying, and science & technology company. The firm has been a trusted leader in the energy, manufacturing, and bioprocessing industries for more than 60 years. Merrick’s team of power experts offer comprehensive civil, structural, mechanical, and electrical engineering services for facilities across the US, from electric utility and industrial manufacturing plants to healthcare facilities and federal facilities. Merrick’s power expertise spans power generation; distributed generation; renewables and energy storage; hydrogen, renewable natural gas, carbon capture and storage, and other advanced technologies. With an unwavering commitment to quality, Merrick delivers reliable and cost-effective solutions to power clients worldwide.

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Messer is the world’s largest privately-held industrial gases company, with unrivaled technical development capabilities and agility from people you know and trust. Messer sustainably grows and innovates with our chemical and energy customers with gases application technologies that boost throughput and lower their carbon footprint.

MLC.....5
 3870 S. Lindbergh Blvd. Suite 200
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Mississippi Lime Company (“MLC”) headquartered in St. Louis, MO, is a leading global supplier of high-calcium lime products and technical solutions. With over a century in business, the company has built a reputation on the purity of its products, commitment to research and development, and tradition of customer service. Mississippi Lime operates the largest lime facility in the Americas and mines some of the purest limestone reserves in the world. The company supplies high-calcium quicklime, hydrated lime, dolomitic lime, calcium carbonate products, trucking services, and technical solutions from a diversified, reliable network of facilities in Ste. Genevieve, MO; Calera, AL; Verona, KY; Vicksburg, MS; Weirton, WV; Chester, SC; Mobile, AL; Prairie du Rocher, IL; Bonne Terre, MO; as well as several distribution sites throughout the country.

Mitsubishi Power Americas.....8
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 Kyle Neidig,
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Headquartered in Lake Mary, FL, MHPS Americas employs more than 2,000 people who design, build, install, monitor and service aero-derivative and heavy-duty natural gas turbines, steam turbines, generators, battery storage products and environmental control systems throughout North and South America. MHPS Americas collaborates with customers to deploy artificial intelligence and low carbon technologies to take the cost and carbon out of the electric power value chain. MHPS Americas is a subsidiary of Mitsubishi Hitachi Power Systems, a joint venture between Mitsubishi Heavy Industries, Ltd. and Hitachi, Ltd. PWPS and MD&A are wholly owned subsidiaries of MHPS Americas. Learn more about MHPS by visiting www.changeinpower.com.

NANO Co, LTD.....6
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NANO, the specialty company in SCR catalyst, has developed and commercialized all types of SCR catalysts including Honeycomb, Plate and Layered type catalysts. NANO catalysts have been successfully served various customers and applications such as coal power plant, boiler, chemical plant, glass plant, HRSG, incinerator, petrochemical plant, steel mill, gas turbine, and diesel engine powered vessel in the global market.

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We would like to help you to achieve your emission goals with the best solutions. Please contact us for more information of our products and services.

NWL.....23
 312 Rising Sun Road,
 Bordentown, NJ 08505
 Marty Watson,
 NWL Commercial Manager, ESP/Aftermarket Division
 Cell (863)412-1650 / Factory (609)298-7300
 mwatson@nwl.com / www.nwl.com



If you are in need of better performance from the Precipitator, consider the PowerPlus, high frequency power supply. The PowerPlus is a very effective alternative to expensive rebuilds or flue gas conditioning. Not only will you save money on your initial investment you may reduce your operating cost as well. “Since 1999, we have shipped nearly 7000 units world-wide with ratings between 4.2 and 200- kW and output voltages between 70 and 100 kVdc. Call NWL today for details.

OhioLumex.....24
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 Cleveland, OH 44139 USA
 Alexandra Sipershteyn,
 Senior Program Director
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 Business: 440- 264-2500 x305 / www.ohiolumex.com



Ohio Lumex is a leader in gas analysis products and services with a focus on industrial applications. Specializing in solutions for especially challenging monitoring needs, we offer a comprehensive array of tools to meet our customers’ unique requirements. From gas analyzers, to an in-house analytical laboratory, to onsite gas testing and instrument services, our diverse capabilities are designed to offer flexibility, convenience, and ease-of-mind to the markets that we serve. We pride ourselves on delivering innovative and reliable state-of-the-art solutions while aiming to provide the industry’s best customer service experience.

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PPC Insulators.....18

363 N Sam Houston Pkwy
East., Suite 700,
Houston, TX 77060 USA
www.ppcinsulators.com



PPC Insulators is a global leading state-of-art electrical insulators manufacturer, celebrating 135 years of experience and innovation. PPC specializes in porcelain insulators design for substation, overhead line, and electrostatic precipitator applications. Our ESP insulator lineup comprises of cylindrical and conical supports as well as feed thru, anti-sway bars and rapper rods. PPC can manufacture ESP insulators all the way up to 99.9% Alumina content. Thank you for trusting PPC Insulators being your partner of choice to continue electrifying the world together.

PULLMAN.....15

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PULLMAN, a licensee of STRUCTURAL TECHNOLOGIES' products and technical support services, integrates technology-driven solutions into its industry-leading repair and maintenance services. PULLMAN serves commercial, power, industrial, water/wastewater and transportation clients both in the United States and internationally. As a signatory to local, national, and international labor agreements, PULLMAN has access to a large base of skilled craftsmen to supplement its own full-time workers in local offices across the country. These craftsmen specialize in the repair and maintenance of concrete/steel infrastructure, as well as building envelope repair and maintenance.

Southern Environmental, Inc.....25

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Storm Technologies, Inc.....17

411 N. Depot St..
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STORM™ is a full service and results-oriented organization which provides boiler consulting services, technical direction, general and comprehensive inspections, performance testing services, pulverizer and burner performance replacement parts, airflow management systems, training seminars and in-house programs which can help your team work towards total boiler optimization. Storm's specialty is to provide engineered solutions for coal power plants. Engineered solutions that are practical and cost effective using the combined resources of our engineering department, field services and fabrication shop.

UCC Environmental.....13

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UCC Environmental (UCC) is a global leader in sustainable solutions for solids handling, water and wastewater treatment and air pollution control technologies in power generation, mining, and other mission-critical industrial markets. Since 1920, UCC has been committed to the design, supply, construction, and maintenance of world class systems precisely engineered to better serve utility and heavy industry providers. UCC maintains a robust team of research & development engineers, designers, and supply chain personnel to ensure the highest degree of performance, quality and timely delivery of manufactured components and replacement parts. The company offers a global network of sales and service representatives serving customers and installations spanning six continents. For more information, please contact UCC at 847-473-5900.

Umicore Catalyst USA, LLC.....26

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Mark Peltier, PE
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Fuel Cell & Stationary Catalysts
Business: 832-551-4919 / www.umicore.com



Umicore Catalyst USA, LLC (UCAT) is recognized as a world leader in the development and supply of catalyst and technology for both stationary and mobile air pollution control systems with multiple thousand worldwide references. With manufacturing facilities in Pasadena, TX with increased catalyst production for all catalyst types. Umicore's air pollution technologies include, Selective Catalyst Reduction (SCR) catalyst for the control of nitrogen oxides (NOx), including the highly active TripleCat catalyst operating below 400 degrees F, the GT-705 catalyst designed for high temperature operating conditions found in simple cycle turbine applications, a newly formulated HRS catalyst, and a newly designed highly active high dust catalyst; the reduction of carbon monoxide (CO) and VOC's, including the market leading multiple functioning DNO and GTC catalyst; and patent pending technologies for achieving high NOx reduction at very low ammonia slips. Umicore has proven, over the last 25 years, to be the supplier of choice when it comes to highly active, long lasting products for environmental catalytic systems.

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June 23-26, 2025

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