

ADVISORY BOARD TRACK E



This Track provides presentations on Advanced technologies and strategies, for compliance with SO<sub>2</sub>, NO<sub>x</sub>, CO<sub>2</sub> emission limits at coal-fired boilers. Includes SCR, DSI, and measurement and control in the cement and ash industry. Waste to Energy and Waste management.

Monday | 1PM - 3PM

E1. CONTROL TECHNOLOGIES



**E1.1 NOX CONTROL, AND A LOT MORE, WITH CATALYTIC CERAMIC FILTERS**  
Rod Gravley, Technology Director, Tri-Mer Corporation; Kayla Olson, Kevin Moss



**E1.2 EVALUATION AND APPLICATION OF AN AIR QUALITY MODELING SYSTEM TO ANALYZE IMPACTS OF INDUSTRIAL FACILITIES**

Roberto San Jose, Head Professor, Technical University of Madrid (UPM); Jun L. Pérez, Rosa Maria Gonzalez-Barras



**E1.3 ACID GAS REMOVAL CHARACTERISTICS OF CA(OH)<sub>2</sub> IN A REAL SITE**

Han Jae-Won, Han-Yang University; Young-Ok Park, Korea Institute of Energy Research; Hui-Taek Kim, Han-Yang University



**E1.4 FULL-SCALE DEMONSTRATION OF ENZYME-ENHANCED COAL COMBUSTION**  
**CO-CHAIR** - Wei-Ping Pan, Professor, Western Kentucky University



**E1.5 IT'S ALL IN THE DUST CAKE**

Nathan Schindler, Technical Sales Manager, Evonik Corporation; Florin Popovici, Emission Control Engineering Consulting

Monday | 3:30PM - 5:30PM

E2. WASTE TO ENERGY & WASTE MANAGEMENT



**E2.1 PLASMA GASIFICATION; THE NEXT GENERATION OF WASTE-TO-ENERGY SERVICES**  
**CO-CHAIR** - Richard Fish, President, ALTER NRG CORP.; Kal Bhojak



**E2.2 BIODIESEL PRODUCTION FROM WASTE FRYING OIL**

Mohamed M. Aboabboud, Professor, El-Merghib University; Dr. Hesham G. Ibrahim



**E2.3 ELECTRICITY PRODUCTION FROM SRF USING A DOWNDRAFT GASIFICATION PROCESS**

Se-Won Park, Researcher, Yonsei University; Lee, Sung, Seo, Yonsei University; Oh, Samho environ-Tech; Gu, Institute for Advanced Engineering



**E2.4 ENERGY FROM MUNICIPAL SOLID WASTE WITH MINIMAL CARBON EMISSION**

Surendra Saxena, Professor Emeritus, FIU; Siva Pillai, Innovision

## E3. SO<sub>2</sub>, NO<sub>x</sub> & SNCR



**E3.1 HIGH ACCURACY IN-SITU SO<sub>3</sub>, SO<sub>2</sub> & H<sub>2</sub>SO<sub>4</sub> SENSOR FOR COMBUSTION SOURCES**  
**CO-CHAIR** - Bob Finken, Senior Vice President, Montrose Air Quality Services; Dr. Peter Zemek



**E3.2 SUCCESSFUL SAMPLE HANDLING SYSTEMS FOR SO<sub>2</sub> AND NO<sub>x</sub> AT SCR**  
 Philipp Zimmel, Area Sales Manager, JCT Analysetechnik GmbH



**E3.3 IMPROVE PLANT ECONOMICS WITH EFFICIENT AMMONIA BASED DESULFURIZATION**  
 David Repp, Sales Director, Jiangnan Environmental Technology, Inc.; Jie Li



**E3.4 OPERATING CHALLENGES OF EXISTING AIR QUALITY CONTROL SYSTEMS**  
 Suzette Puski, Principal Business Dev. Spec., Babcock Power



**E3.5 EXPLORING OXIDATION AND SCR CATALYST ON GAS FIRED UNITS**  
 Emily Kunkel, Senior Environmental Associates, Sargent & Lundy; Raj Giakwad, Dave Helm



**E3.6 HUMIDITY CONTROL OPTIMIZING DRY SCRUBBER OPERATION**  
 Jeff Bossong, COO, H2O LLC

## E4. SCR & NO<sub>x</sub> CONTROL



**E4.1 SOFT SENSORS FOR SO<sub>x</sub> AND NO<sub>x</sub> EMISSIONS**  
 Patrick Bangert, CEO, algorithmica technologies Inc.



**E4.2 COMBINED CYCLE PLANT NO<sub>x</sub> REDUCTIONS**  
 Jeff Williams, Manager, Emerson; J. Nyenhuis



**E4.3 CFD MODELING FOR EVALUATING CONVERSION OF COAL TO GAS FIRED BOILER**  
 Praveen Gonuguntla, Senior CFD Engineer, Tridiagonal Solutions, Inc; Abhay Panwalkar, Bharat Heavy Electricals Limited



**E4.4 SELECTABLE CONTROL SYSTEM FOR SCR MANAGEMENT**  
**CO-CHAIR** - Bernadette Shahin, National Applications Manager, M&C TechGroup



**E4.5 MINIMIZING NO<sub>x</sub> AND HEAT RATE IN CHINESE COAL FIRED UTILITY BOILERS**  
 Richard Conn, Sr. Director of Technology, Sunco International; Jeff Shan, Sunco International; May Chen, Blue Horizon



**E4.6 FAST RAMP HOT SCR'S & UPGRADES TO COMPLY WITH FUTURE NO<sub>x</sub> BARCT RULES**  
**CO-CHAIR** - Robert McGinty, Sr. Product Mgr Gas Turbine & Ind. SCR Sys, Mitsubishi Hitachi Power Systems

## E5. WASTE RECYCLING - CEMENT, FLY ASH



**E5.1 FASTOX GASIFICATION: PROFITABLY ACHIEVE 100% RECYCLING**  
 Michael Kleist, VP of Sales and Marketing, Sierra Energy; Mike Hart



**E5.2 ADDRESSING FLY ASH RESISTIVITY WHEN CONTROLLING FLUE GAS ACIDITY**  
**CO-CHAIR** - Rabintra Sinha, VP - Sales, Marketing & Technology, ARKAY Technologies



**E5.3 CEMENT STABILIZATION OF CONTAMINATED SOIL AND CCR**  
 Paul Ruehl, US Environmental Remediation Coordinator, Lafarge Holcim



**E5.4 CONCRETE AND CEMENT SPEC. COAL FLY ASH FROM A WASTE FLY ASH**  
 Christopher Poling, Engineering Director, SCB International Materials



**E5.5 CONVERT FOOD WASTE TO ENERGY AND PROFITS**  
 David Blume, CEO, Blume Distillation

Tuesday | 3:30PM - 5:30PM

### E6. COMPLIANCE TECHNOLOGIES & STRATEGIES



#### E6.1 MERCURY AND PYRITIC SULFUR REDUCTION IN CLEANED ILLINOIS BASIN COALS

**CO-CHAIR** -Allan Kolker, Research Geologist, U.S. G.S, Liliانا Lefticariu, Southern Illinois University; Maria Mastalerz, Indiana Geological Survey; Agnieszka Drobniak, Indiana Geological Survey, Clint Scott; Anne Scott, U.S. Geological Survey



#### E6.2 BACT EMISSION LIMITS: THE DEVIL IS IN THE DETAILS

David Shotts, Partner, ERM



#### E6.3 FUEL ECONOMY AND EMISSIONS TESTING CONDUCTED ON A REEFER TRAILER

Olivia Maier, Chemical Engineer, dynaCERT, Inc.; Robert Maier, Ruston Hoffman



#### E6.4 ULTRA-LOW TURNDOWN IN AN ULTRA-LOW EMISSIONS WORLD

**CO-CHAIR** -Meville Hedges, Territory Manager, Cleaver-Brooks, Inc.



#### E6.5 PRE AND POST COMBUSTION NOX CONTROL SYSTEM USING MICROWAVE TECH.

Valentino Tiangco, Biomass Program Manager, SMUD; Chang Yul Cha, CHA Corporation; Charles Gentry, California Energy Commission

Wednesday | 7:30AM - 4:00PM

## Workshop 4 - Room 5A ESC | StackVision New User Mini (1-Day) Training Wednesday March 7, 2018 (7:30 to 4 pm)

Danny Hintzman, ESC [dhintzman@envirosys.com](mailto:dhintzman@envirosys.com)  
Email: [jbrooks@envirosys.com](mailto:jbrooks@envirosys.com) with questions  
Phone: 512-250-7837, (512) 250-7952



This workshop will provide participants with a greater understanding of ESC's StackVision software. Topics will include: Using CEMScope, CalGas Management, Using StackVision Reports & Creating Linked Reports, Using Filters and Summaries, Data Controller Essentials and an Introduction to StackStudio.

### TO REGISTER FOR THIS WORKSHOP

**CONTACT :** [info@euec.com](mailto:info@euec.com)

**COST** \$100 for EUEC registrants