

Season's Greetings



EUEC, PO Box 66076 Tucson, AZ 85728



16th Annual | Jan 28 - Jan 30
Phoenix Convention Center, Phoenix, AZ



2000 Attendees

600 Speakers

200 Exhibits

Program Brochure



Preliminary Program with 600 Speakers

- A - Air Policy & Regulation
- B - Monitoring & Modeling
- C - Multi-Pollutant Control - Hg
- D - Natural Gas & Energy Security
- E - Renewable Energy
- F - Operations & Mgmt
- G - CCS & GHG Mgmt
- H - Biofuels & Biomass
- I - Sustainability & Water
- J - Energy Efficiency

Register at euec.com and Save:

Date	Now	Jan. 1st	Jan. 15th	On-Site
Cost	\$895	\$995	\$1,095	\$1,395

Directors



Mitchell Baer



John Kinsman



Bryan Hannegan



Prabhu Dayal

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What is EUEC?

EUEC2013: 16th Annual energy, utility & environment conference
 USA's Largest Professional Networking & Educational Event of its kind

NETWORK WITH 2,000 DELEGATES IN 200 COMPANY EXHIBIT AREA
 with 9 networking lunches, receptions & breaks
 600 SPEAKERS MAKE PRESENTATIONS IN 10 TRACK PROGRAM

REGISTRATION COST	Sept 1	Oct 1	Current	Dec 1	Jan 1	On-Site
Attendee Full	\$695	\$795	\$795	\$895	\$995	\$1,395
Speaker/Gov't/VIP	\$595	\$695	\$695	\$795	\$895	\$1,295
3-Day Conference	\$395	\$495	\$495	\$595	\$695	\$1,095

Full/Speaker/Gov't/ VIP Registration includes:

- 8 networking meals served buffet style in exhibit area
- Attend all 600 technical presentations in 3 days
- EUEC Flash Drive with 600 presentations with audio

3-Day Conference Registration includes:

- Network at 8 functions (without meals)
- Attend all 600 technical presentations in 3 days
- Access to the 200 booth exhibit hall all 3 days

Who should attend?

INDUSTRY LEADERS AND POLICY MAKERS:

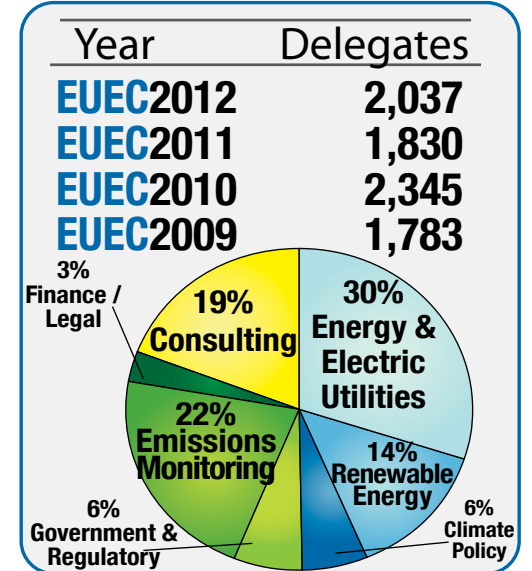
- CORPORATE ENERGY & SUSTAINABILITY EXECUTIVES
- RENEWABLE ENERGY ENTREPRENEURS
- BUSINESS DEVELOPMENT PROFESSIONALS
- UTILITY AND ENERGY EXECUTIVES
- LAWYERS, ACCOUNTANTS AND CONSULTANTS
- U.S. LEGISLATORS, GOVERNMENT AGENCIES
- SCIENTISTS AND RESEARCHERS

INVESTORS:

- COMMERCIAL & INVESTMENT BANKS
- VENTURE CAPITALISTS AND PRIVATE EQUITY
- CORPORATE AND INSTITUTIONAL INVESTORS
- DEAL LAWYERS AND CONSULTANTS
- PROJECT DEVELOPERS

DECISION MAKERS:

- ELECTRIC UTILITIES
- ELECTRIC VEHICLES
- ARCHITECTS/ENGINEERS/SCIENTISTS
- CO-GENERATORS/SELF-GENERATORS
- CNG (COMPRESSED NATURAL GAS)
- FUEL SUPPLIERS
- INDEPENDENT POWER PRODUCERS
- EQUIPMENT MANUFACTURERS
- POWER INDUSTRY CONSULTANTS
- DESIGNERS AND CONSULTANTS
- PROJECT DEVELOPERS
- RESEARCH AND DEVELOPMENT ORGANIZATIONS
- HUMAN RESOURCE MANAGERS AND RECRUITERS
- CONTINUOUS EMISSION MONITORS AND SPECIALISTS



EUEC2013 Format

- All sessions 2 hours long
- 6 Speakers per session
- 20 minutes per speaker

Directors



**Mitchell Baer - Director, Office of Oil and Gas Analysis,
U.S. Department of Energy**

The Department of Energy's overarching mission is to advance the national, economic, and energy security of the United States; to promote scientific and technological innovation in support of that mission; and to ensure the environmental cleanup of the national nuclear weapons complex.



**John Kinsman - Senior Director, Environment,
Edison Electric Institute**

The Edison Electric Institute (EEI) is the association of U.S. Shareholder-Owned Electric Companies. Its members serve 95 percent of the ultimate customers in the shareholder-owned segment of the industry, and represent approximately 70 percent of the U.S. electric power industry. EEI also has more than 70 international electric companies as Affiliate Members, and more than 200 industry suppliers and related organizations as Associate Members. Organized in 1933, EEI works closely with all of its members, representing their interests and advocating equitable policies in legislative and regulatory arenas.



**Bryan Hannegan - Vice President,
Electric Power Research Institute**

The Electric Power Research Institute (EPRI), is an independent, nonprofit center for public interest energy and environmental research. EPRI brings together member organizations, the Institute's scientists and engineers, and other leading experts to work collaboratively on solutions to the challenges of electric power. These solutions span nearly every area of power generation, delivery, and use, including health, safety, and environment. EPRI's members represent over 90% of the electricity generated in the United States. International participation represents nearly 15% of EPRI's total R&D program.



Prabhu Dayal - President, C Trade

C TRADE is a global renewable energy project development company that has constructed nine turnkey Clean Development Mechanism (CDM) biogas to energy projects using waste manure and biomass to capture methane biogas to produce electricity and finance using carbon credits in the Philippines and India.

Exhibit Schedule

EXHIBIT SET UP

Sunday Jan 27th 1 pm to 7 pm

SHOW TIMES

Mon. Jan 28th - 11 am to 7 pm

Tue. Jan 29th - 9 am to 7 pm

Wed. Jan 30th - 9 am to 12 pm

EXHIBIT TEAR DOWN

Wed. Jan 30th - 12 to 4 pm

Conference Schedule

Sunday | January 27, 2013

7:00 am - 7:00 pm	Registration
7:30 am - 1:00 pm	Golf Tournament
1:00 pm - 5:00 pm	Pre-Conference Workshops
1:00 pm - 7:00 pm	Exhibitor Set-Up

Monday | January 28, 2013

7:00 am - 7:00 pm	Registration
8:00 am - 11:00 am	Plenary Session
11:00 am - 7:00 pm	Exhibit Hall Open
11:00 pm - 1:00 pm	Networking Lunch - Exhibit Area
1:00 pm - 3:00 pm	Technical Session - 1
3:00 pm - 3:30 pm	Networking Break - Exhibit Area
3:30 pm - 5:30 pm	Technical Session - 2
4:00 pm - 7:00 pm	Exhibitor Invited Guests
5:00 pm - 7:00 pm	Networking Reception- Exhibit Area

Tuesday | January 29, 2013

7:30 am - 9:30 am	Technical Session - 3
9:00 am - 7:00 pm	Exhibit Hall Open
9:30 am - 10:00 am	Networking Break - Exhibit Area
10:30 am - 12:00 pm	Technical Session - 4
12:00 pm - 1:00 pm	Networking Lunch - Exhibit Area
1:00 pm - 3:00 pm	Technical Session - 5
3:00 pm - 3:30 pm	Networking Break - Exhibit Area
3:30 pm - 5:30 pm	Technical Session - 6
4:00 pm - 7:00 pm	Exhibitor Invited Guests
5:00 pm - 7:00 pm	Networking Reception - Exhibit Area

Wednesday | January 30, 2013

7:30 am - 9:30 am	Technical Session - 7
9:00 am - 12:00 pm	Exhibit Hall Open
9:30 am - 10:00 am	Networking Break - Exhibit Area
10:00 am - 12:00 pm	Technical Session - 8
12:00 pm - 4:00 pm	Exhibit Tear-Down
1:00 pm - 3:00 pm	Technical Session - 9

Keynote

Monday, January 28th, 8:00 AM - 11:00 AM

Phoenix Convention Center | 100 N. 3rd St. | Phoenix, AZ 85004



EPA REGULATORY UPDATE

Hon. Gina McCarthy

Assistant Administrator | U.S. Environmental Protection Agency



NATURAL GAS & AMERICA'S ENERGY SECURITY

Hon. Chris Smith

Deputy Assistant Secretary | U.S. Department of Energy



REGULATORY CHALLENGES, TECHNOLOGY SOLUTIONS

Mike Morris

Chairman | American Electric Power



IMPACTS OF ENVIRONMENTAL CONTROLS ON THE GENERATION FLEET

Dr. Bryan Hannegan

Vice President | Electric Power Research Institute



SHALE GAS: A GAME-CHANGER FOR US ENVIRONMENTAL POLICY?

Mark Brownstein

Chief Counsel | Environmental Defense Fund



EUEC: LOOKING AHEAD AFTER 15 YEARS OF SUCCESS

Dr. Prabhu Dayal

Chairman | EUEC



Mission Statement

EUEC facilitates information exchange and fosters cooperation between industry, government, regulators, academia and stake-holders for the protection of our environment and energy security.

At-A-Glance

EUEC 2013 Format | All Speakers limited to 20 minutes using PowerPoint

Each session is 2 hours with 6 Speakers

Track	A	B	C	D	E	F	G	H	I	J
Sessions	Air Policy & Regulations	Pollution Monitoring & Modeling	Mercury Multi-Pollutant Control	Natural Gas & Energy Security	Renewable Energy	Operations & Mgmt	GHG, Carbon Mgmt & CCS	Biofuels & Biomass	Sustainability & Water	Energy Efficiency
Monday January 28										
1 1:00PM to 3:00PM	Regulatory Update I	CEMS & MATS	Hg Control Demonstrations	CNG & Shale Gas	Small Scale Renewable & Electric Utilities	Economic Energy & Cybersecurity	Carbon Footprint	Algae	Energy Sustainability	Energy Efficiency
2 3:30PM to 5:30PM	Regulatory Update II	HCL Monitoring	Hg Control & Bromine	Fracking & Sustainable Development	Distributed Generation	Compliance Technologies & Strategies	Tailoring Rule/NSR/ GHG BACT	Biofuels / Ethanol	Sustainability Projects	Energy Mgmt.
Tuesday January 29										
3 7:30AM to 9:30AM	NAAQS	PM, Opacity & Visability	Control Technologies I	Energy Policy	Renewable Development Analysis	Power Plant & Boiler Optimization	Planning & GHG	Biomass	Sustainability Reporting	Smart Grid
4 10:00AM to 12:00PM	NSR	Mercury Measurement	Control Technologies II	CNG: Alternative Fuel & Fleet Mgmt	Renewable Project Development	EHS & EMIS	Corporate Strategies & Risk Mgmt.	Bio & Waste Energy	316b	Energy Efficiency & Mgmt. I
5 1:00PM to 3:00PM	Compliance Stratagies	Emission Testing & Monitoring	MATS	State, Regional & Infrastructure	IP & New Technology	EHS & Risk Management	California Cap & Trade	Landfill Gas to Energy	Water Sustainability	Energy Efficiency & Mgmt. II
6 3:30PM to 5:30PM	MACT	Monitoring & Reporting	Dry Sorbent Injection	Clean Transportation Policy	Solar & PV	ASH / CCP	GHG Stratagies	Cofiring in Power Plants	Water & Electric Utilities	Energy Conservation & Storage
Wednesday January 30										
7 7:30AM to 9:30AM	Permits & Compliance	Modeling	Activated Carbon	Energy & Climate	Wind	Operations & Management	CCS: Carbon Capture & Storage		Water - Regulatory Updates	Demand Response
8 10:00AM to 12:00PM	Clean Air Policy	CEMS	Advanced Control Technologies	Managing Risk & Project Mgmt.	EV-PHEV, CPV & Batteries	Natural Resource Mgmt. - HCP	CCS II		Sustainability Green	
9 1:00PM to 3:00PM	Regulatory Compliance - URS									

Monday | January 28

1PM - 3PM

A1. REGULATORY UPDATE I

Session Sponsor and Co-Chair

- A1.1 REPORT FROM THE SCENE OF THE TRAIN WRECK -- UPDATE ON THE IMPACT OF NEW EPA RULES & ACTIONS ON ELECTRIC UTILITY GENERATION**
Jay Holloway, Partner, Winston & Strawn LLP
- A1.2 THE NEXT FOUR YEARS: HOW THE OUTCOME OF THE ELECTION WILL IMPACT THE CLEAN AIR ACT AGENDA**
Roger Martella, Attorney, Sidley Austin LLP
- A1.3 IS FEDERALISM ALIVE UNDER THE CLEAN AIR ACT?**
Bill Wehrum, Partner, Hunton & Williams LLP
- A1.4 UTILITY REGULATORY UPDATE: IMPLICATIONS & STRATEGIC CONSIDERATIONS FOR COMPLIANCE**
Block Andrews, Strategic Environmental Solutions Director, Burns & McDonnell
- A1.5 RECENT REGULATORY DEVELOPMENTS AFFECTING PERMITTING OPTIONS**
Thomas Echikson, Partner, LeClairRyan
- A1.6 POWER GENERATOR REGULATIONS, 2010-2020**
John Kinsman, Sr. Director, Environment, Edison Electric Institute

WINSTON & STRAWN LLP
Jay Holloway

Burns & McDonnell
SINCE 1890
Block Andrews

3:30PM - 5:30PM

A2. REGULATORY UPDATE II

Session Sponsor and Co-Chair

- A2.1 UPDATE TO COAL UNIT RETIREMENTS & GRID RELIABILITY**
M. Gary Helm, Sr. Market Strategist, PJM Interconnection
- A2.2 FIRST CAIR, THEN CSAPR. WHAT'S NEXT?**
Daniel Chartier, Director - Environmental Markets & Air Quality Programs, Edison Electric Institute
- A2.3 EPA PROPOSAL TO REVISE MATS EMISSION LIMITS FOR NEW ELECTRIC GENERATING UNITS**
Ralph Roberson, President, RMB Consulting & Research
- A2.4 CLEAN AIR ACT ABACK - THE MACT CONUNDRUM**
Peter Belmonte, Sr. Partner, Environmental Resources Management; Robert Fraser
- A2.5 UTILITY REGULATORY UPDATE: IMPLICATIONS & STRATEGIC CONSIDERATIONS FOR COMPLIANCE**
Mike Borgstadt, Manager - Resource Planning, Burns & McDonnell Engineering Co.
- A2.6 STARTUP & SHUTDOWN ALLOWANCES - A CASE STUDY ON UNIT START UP**
Patrick Leming, Software Services Manager, Babcock & Wilcox Power Generation Group; John Downs

Tuesday | January 29

7:30AM - 9:30AM

A3. NAAQS

Session Sponsor and Co-Chair

- A3.1 COMPLIANCE CHALLENGES POSED BY THE NAAQS FOR SO2, NO2, & PM2.5**
Robert Paine, Technical Director, AECOM; David Heinold & Robert Iwanchuk
- A3.2 THE STATE OF THE NAAQS**
Kurt Kissling, Attorney at Law, Pepper Hamilton LLP
- A3.3 REGULATORY UPDATE & IMPLICATIONS OF THE PM2.5 NATIONAL AMBIENT AIR QUALITY STANDARD**
Robert McCann, Principal-Director, Air Resources, Golder Associates Inc.
- A3.4 AMBIENT SO2 STANDARD: NONATTAINMENT, UNCLASSIFIABLE, MODELING, MAINTENANCE (OR INFRASTRUCTURE) SIP, . . . WHERE ARE WE?**
Harold Robbins, President, Bison Engineering Inc.
- A3.5 HOW ELECTRIC POWER COMPANIES CAN BEST DEAL WITH THE CHALLENGES OF STATES DEVELOPING SIPs TO DEMONSTRATE ATTAINMENT OF THE 1-HOUR SO2 NAAQS**
Howard Ellis, President, Enviroplan Consulting; Dr. Allen Dittenhoefer & Michael Hirtler, CCM
- A3.6 RECENT HAPPENINGS REGARDING THE EXCEPTIONAL EVENT RULE**
Samuel Lofland, Attorney, Ryley Carlock & Applegate; James Sanderson

Tuesday | January 29

10AM - 12PM

A4. NSR

- A4.1 RECENT DEVELOPMENTS IN NSR**
Gary McCutchen, Principal, RTP Environmental Associates, Inc.
- A4.2 NEW SOURCE REVIEW SETTLEMENTS IN A CHANGING REGULATORY CLIMATE**
Liz Williamson, Partner, Winston & Strawn LLP
- A4.3 EPA'S REGIONAL HAZE PROGRAM - A NEW AGENDA FOR VISIBILITY**
Norman Fichthorn, Partner, Hunton & Williams LLP; Aaron Flynn
- A4.4 WEAKENING OF THE PSD/NSR HAMMER**
Karl Karg, Partner, Latham & Watkins LLP
- A4.5 THE UTILITY NEW SOURCE REVIEW ENFORCEMENT INITIATIVE -- MORE THAN A DECADE OLD & IT KEEPS GOING, & GOING, & GOING.**
Makram Jaber, Partner, Hunton & Williams
- A4.6 CAUSALITY & EFFECT: EMISSIONS ANALYSES IN RETROSPECTIVE NSR CASES**
Marc Chupka, Principal, The Brattle Group

Session Sponsor and Co-Chair

A5. COMPLIANCE STRATEGIES

- A5.1 PRACTICAL NSR COMPLIANCE**
Mack McGuffey, Partner, Troutman Sanders LLP
- A5.2 PRACTICAL OPERATING PERMIT COMPLIANCE**
George Lipka, Consulting Engineer, Tetra Tech EC
- A5.3 PRACTICAL COMPLIANCE EXPERIENCE**
Maureen Gannon, Executive Director of Environmental Services, PNM Resources Inc.
- A5.4 PRACTICAL CONSIDERATIONS FOR ENVIRONMENTAL COMPLIANCE STRATEGY DEVELOPMENT**
Brian Toth, Climate & Renewable Strategy Manager, Southern Company
- A5.5 EPA'S CROSS STATE RULE, THE LITIGATION, IMPLEMENTATION COMPLIANCE**
Dave Tripp, Partner, Stinson Morrison Hecker, LLP; Daniel R. Wilkus, Westar Energy
- A5.6**
Randy Brogdon, Partner/Environmental Practice Group Leader, Troutman Sanders LLP

1PM - 3PM

Session Sponsor and Co-Chair

TROUTMAN SANDERS
Randy Brogdon

Tt
TETRA TECH
George Lipka

A6. MACT

- A6.1 THE UTILITY MACT RULE: ONE YEAR LATER**
Michael Rossler, Manager - Environmental Programs, EEI
- A6.2 BOILER MACT ENERGY ASSESSMENTS**
Robert McCann, Principal Director Air Resources, Golder Associates Inc.; Dorothy Austin, Ying Ng
- A6.3 MACT COMPLIANCE TECHNOLOGIES**
Scott Bayon, Director of Sales, Anguil Environmental Systems, Inc.
- A6.4 INJECTION OF GAS-PHASE BROMINATED PAC UPSTREAM OF WET SCRUBBERS FOR HG CONTROL**
Ron Landreth, Manager Customer Technical Service, Albemarle Environmental Division
- A6.5 STATISTICS IN ENVIRONMENTAL POLICY MAKING & COMPLIANCE IN AIR QUALITY: SOURCE TEST DATA INTERPRETATION IN BOILER & UTILITY MACT**
Joy Brooks, Senior Associate, ENVIRON International Corporation; Glenn England & Joe Hower
- A6.6 OVERVIEW OF THE NON-HAZARDOUS SECONDARY MATERIAL RULE: IS YOUR FUEL A SOLID WASTE?**
Melissa Hillman, Managing Consultant, Trinity Consultants

3:30PM - 5:30PM

Session Sponsor and Co-Chair

7:30AM - 9:30AM A7. PERMITS & COMPLIANCE

Session Sponsor and Co-Chair Steven Babler, Air Quality Engineer, Sega Inc.; Brian Petermann

A7.1 PERMITTING OF NEW AIR QUALITY CONTROL EQUIPMENT ADDITIONS FOR "ALPHABET SOUP" COMPLIANCE: SUCCESSES & CAUTIONS

A7.2 CONVERTING FROM COAL TO NATURAL GAS - CHANGES TO COMPLIANCE MONITORING
John Downs, Regulatory Manager, Babcock & Wilcox Power Generation Group; Mark Holt

A7.3 QUALITY ASSURANCE REQUIREMENTS OF MAKING METEOROLOGICAL ASSESSMENTS FOR PERMITTING A NEW POWER PLANT
Ping Wan, Senior Principal Engineer, Bechtel Power Corporation

A7.4 DO I REALLY NEED TO MODEL?
Teresa Raine, Principal Consultant, ERM

A7.5 AIR PERMITTING FOR RECIPROCATING ENGINE PROJECTS FOR ELECTRICITY GENERATION
Mary Hauner-Davis, Manager, Air/Noise Department, Burns & McDonnell; Minda Nelson

A7.6 STREAMLINING THE PERMITTING PROCESS - CASE STUDIES FROM GAS-FIRED COMBUSTION TURBINE LICENSING
Anand Yegnan, Senior Consultant/Project Manager, ERM; John Sherwell, Maryland DNR; Julie Ross, Mark Garrison, & Jennifer Flannery, ERM

10AM - 12PM A8. CLEAN AIR POLICY

Session Sponsor and Co-Chair Eric Hiser, Partner, Jorden Bischoff & Hiser, PLC

A8.1 WHAT'S A PLANT TO DO? NAVIGATING CONFLICTS BETWEEN STATE PRIMACY & FEDERAL OVERSIGHT

A8.2 SUMMARY OF REGIONAL EMISSIONS & AIR QUALITY TRENDS, 1999-2010
Eugene Trisko, Attorney at Law, On behalf of ACCCE

A8.3 CHANGES TO NSPS REGULATIONS ON GHG EMISSIONS & ITS IMPACT ON ELECTRICITY GENERATING UNITS
Jagatheesan (Jack) Senthilvel, Project Manager, WorleyParsons; Joseph Takats

A8.4 WILL THE REFINING INDUSTRY SURVIVE THE CLEAN AIR ACT?(OR, WILL THE NEXT STRAW BREAK THE CAMEL'S BACK)
(m)Bill Smalling, Attorney at Law, C.William Smalling, Attorney at Law, PLLC.

A8.5 CAN THIS PROPOSED POWER PROJECT BE BUILT?
(m)Eri Ottersburg, Senior Engineer, SLR International; Ray Hendricks, Portland General Electric

1PM - 3PM A9. AIR POLICY & REGULATIONS

Session Sponsor and Co-Chair Kevin Dougherty, VP of Marketing & Business Development, Fuel Tech, Inc.; Len Johnson, Midwest Generation; Jon Horek, Sargent & Lundy; Kevin Krause, Fuel Tech, Inc.

A9.1 SNCR TECHNOLOGY FOR FLEETWIDE COMPLIANCE

A9.2 OBTAINING AN EXTENSION ON THE 18 MONTH CONSTRUCTION DEADLINE FOR YOUR PSD PERMIT
(m)Eri Ottersburg, Senior Engineer, SLR International; Ray Hendricks, Portland General Electric

B1. CEMS & MATS

B1.1 SOFTWARE CEMS & ALTERNATIVE TO HARDWARE
Joseph Miller, Technical Consultant - Environmental, Rockwell Automation

B1.2 MERCURY & AIR TOXICS STANDARDS (MATS) CEMS DESIGN & NEW MONITORING REQUIREMENTS
Tim Kuiken, Midwest Regional Sales Manager, Cemtek Environmental

B1.3 SO3 SOURCE EMISSION SAMPLING METHODOLOGIES
David Ostaszewski, Senior Managing Engineer, O'Brien & Gere Engineers

B1.4 CEMS SYSTEMS SPECIFICALLY FOR COMBINED CYCLE POWER PLANTS
Deborah Padwater, Strategic Industry Manager - Power, Sick Maihak GmbH

B1.5 MERCURY & AIR TOXICS STANDARD (MATS) EMISSION TESTING REQUIREMENTS, RECOMMENDATIONS & COST COMPARISONS
Jeff Burdette, Practice Leader, TRC Environmental Corporation

B1.6 FULL-SCALE MULTISITE EVALUATION OF THE MULTIELEMENT SORBENT TRAP SAMPLING (ME-ST) METHOD FOR HALOGEN
John Pavlish, Sr. Research Advisor, Energy & Environmental Research Center; Jeffrey Thompson

1PM - 3PM

Session Sponsor and Co-Chair



Tim Kuiken

B2. HCL MONITORING

B2.1 HCL EMISSIONS MEASUREMENTS USING FTIR
Sylvie Bosch-Charpenay, Senior Applications Scientist, MKS Instruments; Barbara Marshik, Peter Zemek

B2.2 HCL MONITORING - BEST PRACTICES & FIELD EXPERIENCE
Heimo Breton, Head of Corp. Solutions Center, SICK Process Automation

B2.3 FTIR MONITORING SYSTEM PROVIDES TIGHTER CONTROL ON EMISSIONS FROM CARBON CAPTURE PROCESS
Jim Cornish, Technical Sales & Support, Gasmet Technologies; Luc Sevrette

B2.4 FIELD TRIALS OF OPSIS TUNABLE DIODE LASER FOR HCL MONITORING
(m)James Wright, Director - Advanced Monitoring Solutions, Clean Air Engineering; J. Demkovich

B2.5 IN-DUCT HCL MONITORING
Charles Lockert, President, Breen Energy Solutions

B2.6 HCL CEMS
Seth Morrell, Sales & Marketing Coordinator, Altech Environment U.S.A.

B2.7 REQUIREMENTS OF PS-18 FOR FTIR MEASUREMENT OF HCL FOR UTILITY & CEMENT INDUSTRIES
Kevin Ramazan, Vice President, FTIR Operations, California Analytical Instruments, Inc.

3:30PM - 5:30PM

Session Sponsor and Co-Chair

B3. PM, OPACITY & VISIBILITY

B3.1 AN UPDATED REVIEW OF PM SPIKING FOR PM CEMS CALIBRATION
Robert Baxter, President, B3 Systems, Inc.; Derrick Hinkle

B3.2 DIGITAL CAMERA BASED CONTINUOUS EMISSION MONITORING
Shawn Dolan, President, Virtual Technology LLC

B3.3 PM2.5 EMISSIONS TEST METHODS COMPARISON, LIMITATIONS & BENEFITS
Kevin Crosby, Technical Director, Avogadro Group; Craig Thiry

B3.4 APPLICATION OF MOBILE DEVICES FOR VISIBLE EMISSIONS
Sue Sung, Dir - EHS Technology, Trinity Consultants; Adam Williams & Nick Petro

B3.5 PM MONITORING OPTIONS UNDER THE UTILITY MATS RULE
Steve Norfleet, Project Manager, RMB Consulting & Research, Inc.; Jon Konings, We Energies

7:30AM - 9:30AM

Session Sponsor and Co-Chair



John Watson & Judi Chow

10AM - 12PM B4. MERCURY MEASUREMENT

Session Sponsor and Co-Chair Dan Kietzer, Business Development Manager, SICK Process Automation



- B4.1 TECHNICAL ADVANCES IN HG CEM'S - UPDATE**
(m)James Wright, Director - Advanced Monitoring Solutions, Clean Air Engineering; T. Rodak, J. McKeever
- B4.2 MERCURY SPECIATION MEASUREMENTS FROM BOILER TO STACK**
Douglas Barth, Business Development Manager, Pall Corporation; Krag Petterson & Marty Ladner
- B4.3 MONITORING MERCURY & NON-MERCURY HAP METALS WITH A SINGLE CEMS**
Don Cortes, Chief Scientific Officer / VP, STAT Analysis Corporation; Surendra Kumar
- B4.4 ELEMENTAL MERCURY IN SOIL BY SEQUENTIAL EXTRACTION FOR COMPLIANCE WITH ILLINOIS RISK BASED CLEAN-UP**
Jay James, Founder, Picoyune, Donald Lucas Ph.D., Lawrence Berkeley National Laboratory
- B4.5 RESULTS FROM A GOLD NANOPARTICLE MERCURY DETECTION SYSTEM**
Johannes Kasajanow, PhD, Durag GmbH
- B4.6 DURAG'S HM 1400 TRXC @ CEMENT PLANTS**

1PM - 3PM B5. EMISSION TESTING & MONITORING

Session Sponsor and Co-Chair (m)Robert Davis, Vice President - Environmental Sustainability, Airgas

- B5.1 MEASURING ZERO POLLUTANTS**
Curtis Laush, Senior Scientist, IMACC
- B5.2 FIELD TESTING OF AN IN SITU SO3/SO2/H2O CONTINUOUS REAL-TIME MONITOR**
Kenneth Wong, Senior Staff Scientist, American Air Liquide; Morgane Riviere, Air Liquide France
- B5.3 FLUE GAS CONTAMINANT MEASUREMENT FROM OXY-COMBUSTION IN A COAL-FIRED POWER PLANT**
Jurgen Reinmann, Branch Manager, Environnement S.A Deutschland; Seth Morrell, Altech Environmental USA
- B5.4 ONGOING FIELD TEST EXPERIENCES WITH THE AUTOMATIC SORBENT TRAP MONITORING SYSTEM**
Russell Berry, Senior Project Manager, RMB Consulting & Research, Inc.
- B5.5 CONTINUED AUTOMATION OF CEMS**

3:30PM - 5:30PM B6. MONITORING & REPORTING

Session Sponsor and Co-Chair John Downs, Regulatory Manager, Babcock & Wilcox Power Generation Grp.; Joel Millard

- B6.1 MATS COMPLIANCE - HOW WILL EPA DETERMINE COMPLIANCE? HOW WILL YOUR DAHS DEMONSTRATE COMPLIANCE?**
Mark Shell, Chief Technology Officer, Environmental Systems Corporation
- B6.2 FUTURE CHALLENGES FOR CEMS DAHS SYSTEMS**
(m)Robert Davis, Vice President - Environmental Sustainability, Airgas
- B6.3 NEW RULES FOR EPA PROTOCOL GASES**
Vaughan Williams, International Sales Director, Energy Maintenance Technologies; Neil Kane, Kevin York
- B6.4 SF6 & DECOMPOSITION GAS ANALYSIS THROUGH NON DISPERSIVE INFRARED TECHNOLOGY**
Diane Fischer, Air Quality Control Services Area Leader, Black & Veatch
- B6.5 OPTIONS FOR DEMONSTRATING MATS COMPLIANCE - ADVANTAGES & DISADVANTAGES**

7:30AM - 9:30AM B7. MODELING

Leonard Levin, Technical Executive, Electric Power Research Institute; Krish Vijayaraghavan, Environ

- B7.1 MODELING LAKE RECOVERY FOLLOWING MERCURY EMISSIONS CHANGES**
- B7.2 ADVANCED DISPERSION MODELING TECHNIQUES TO ASSIST WITH NAAQS COMPLIANCE**
Robert Iwanchuk, Manager - Air Quality Engineering & Studies, AECOM; David Heinold, Richard Hamel & Robert Paine, AECOM; Eladio Knipping & Naresh Kumar, EPRI
- B7.3 DOES EPA NEED MORE ADVANCED MODELS FOR SECONDARY FORMATION**
Gale Hoffnagle, Air Quality Consulting Practice Leader, TRC Environmental Corporation
- B7.4 FORECASTING FOR EMISSION COMPLIANCE VIA OPERATIONAL MODELING**
Scott Tampke, Business Development Manager, Black & Veatch
- B7.5 SOLUTIONS TO AERMOD PREDICTED NAAQS EXCEEDANCES DUE TO BUILDING WAKE EFFECTS**
Ron Petersen, Vice President, CPP, Inc.
- B7.6 EVALUATION OF MODELING RESULTS USING A REFINED TECHNIQUE FOR PREDICTING IMPACTS FROM PORTABLE OR TRANSIENT SOURCES (TRANSVAP)**
Richard Hamel, Air Quality Meteorologist, AECOM; Thomas Damiana

7:30AM - 9:30AM
Session Sponsor and Co-Chair

10AM - 12PM B8. MONITORING & MODELING

Session Sponsor and Co-Chair Sastry Munukutla, Emeritus Prof. of Mech. Engg., Tennessee Tech. Univ.

- B8.1 A REAL-TIME MODEL FOR PERFORMANCE MONITORING USING EMISSIONS DATA**

1PM - 3PM

C1. HG CONTROL DEMONSTRATIONSSession Sponsor
and Co-Chair**C1.1 APPLYING MONITOR & CONTROL STRATEGIES FOR HG EMISSIONS ACROSS WET FGD SCRUBBERS**

Bruce Keiser, Research Fellow, Nalco, an Ecolab Company; Jianwei Yuan, Rebecca Stiles & John Meier, Nalco, an Ecolab Company; Stephen Potter, Duke Energy Corporation

C1.2 A NOVEL APPROACH TO MERCURY CONTROL FROM COAL FIRED POWER PLANTS

Jeff Kolde, Product Specialist, W.L. Gore & Associates, Inc.; John Darrow, Rich Gebert, Steve Hardwick, Stephen Stark, W.L. Gore and Associates, Inc.; Jonas Klingspor, Tom Machalek, Blake Stapper; URS Corporation; Ramsay Chang, EPRI

C1.3 PERMANENT SYSTEM INSTALLATION OF A NOVEL MERCURY REMOVAL STRATEGY

Philip Elliott, Engineering Services Manager, STEAG Energy Services LLC

C1.4 ADVANCED ACTIVATED CARBONS FOR EFFICIENT MERCURY REMOVAL

Brandon Looney, Principle Engineer, Southern Company; Jacqueline Cecil, Robert Huston & Joe Wong

C1.5 FULL SCALE & PILOT SCALE FIELD STUDIES USING NORIT'S CONCRETE COMPATIBLE CARBON

(m)Patton Adams, Developmental Engineer, Norit Inc.

3:30PM - 5:30PM C2. HG CONTROL & BROMINESession Sponsor
and Co-Chair**C2.1 EMO™**

Bobby Chen, Client Program Mgr., Shaw Environmental & Infrastructure Grp., Randall Moore

C2.2 INTERACTION OF HAPS, HG & BROMINATED ACTIVATED CARBON IN COMBUSTION FLUE GAS

Erik Rupp, Research Associate, Stanford Univ. Energy Resources Engineering; Jennifer Wilcox

C2.3 IN PURSUIT OF THE NEW-PLANT MATS HG CONTROL LIMIT: FULL SCALE TEST RESULTS USING ALSTOM'S NXTM MERCURY CONTROL TECHNOLOGY WITH NORIT'S PAC PRODUCTS

Thomas Pearson, Principal Process Engineer, Alstom Power, Inc. Environmental Control Systems; Brad Donat & John David, Norit Americas Inc.

C2.4 ADVANTAGE OF ALBEMARLE GAS-PHASE BROMINATED ACTIVATED CARBON FOR MERCURY CONTROL IN DRY SCRUBBERS – SDA/CDS APPLICATIONS

Behrooz Ghorishi, R&D Director, Albemarle Corp.; Emma Zhou, John Parks & Will Pickrell

C2.5 MAXIMIZING MERCURY CAPTURE UNDER CHALLENGING COMBUSTION SCENARIOS

Marcus Sylvester, VP of Sales, Midwest Energy Emissions Corporation

C2.6 ECONOMICAL, EFFICIENT AND PROVEN HG CONTROL TECHNOLOGY

Thomas Gale, Catalyst Manager, Southern Research Institute; George Blankenship

C2.7 THE INFLUENCE OF FUEL CHLORINE & BROMINE ON DIOXINS & FURANS IN THE STACK GAS OF WASTE INCINERATORS & COAL-FIRED POWER PLANTS

Bernhard Vosteen, President, Vosteen Consulting GmbH; Werner Funcke & Berthold Hülk

7:30AM - 9:30AM C3. CONTROL TECHNOLOGIES ISession Sponsor
and Co-Chair**C3.1 START UP & OPERATING EXPERIENCE NRG INDIAN RIVER NID DFGD**

Mark Fiedler, Principal Process Engineer, Alstom Power

C3.2 THE FACT & FICTION OF SCR CATALYST REGENERATION

Mark Ehrmschwender, VP of Business Development, STEAG Energy Services LLC

C3.3 MERCURY CONTROL & ITS INTERRELATION TO POWER PLANT OPERATION & OTHER AIR POLLUTION CONTROL TECHNOLOGY

Mark Sankey, Senior Engineering Specialist, Bechtel Power Corporation, Don Koza. Bechtel Power Corp; Michelle Golden, Bechtel Power Corp

C3.4 MERCURY CONTROL FOR UTILITY BOILERS THAT REQUIRE FLUE GAS CONDITIONING

David Young, Engineer III, ADA-ES, Inc., Ken Baldrey, Brian Donnelly, Greg Filippelli

C3.5 PERFORMANCE OF PEROXIDE FOR NOX CONTROL ON A FULL SCALE TRIAL ON A UTILITY COAL FIRED BOILER

Robert Crynack, Manager - Air Pollution Control, FMC Environmental Solutions; Philip Block, FMC Environmental Solutions; James Jarvis & Sterling Gray, URS Corporation

C3.6 OPERATING A CIRCULATING DRY SCRUBBER AT LOW & VARIABLE BOILER LOADS

Terence Ake, Product Manager, Babcock Power, Inc.; Roderick Beittel & Anthony Licata

10AM - 12PM

C4. CONTROL TECHNOLOGIES II**C4.1 BASF MERCURY SORBENTS - UPDATE ON MINERAL BASED TECHNOLOGIES FOR MERCURY CAPTURE IN COAL-FIRED POWER PLANTS**

William Hizny, Technical Projects Manager, BASF Corporation, Fabien Rioult, PhD - BASF Corporation; Xiaolin Yang, PhD - BASF Corporation

C4.2 GAME-CHANGING MULTI-POLLUTANT EMISSIONS CONTROL TECHNOLOGY

Kevin Crapsey, VP of Corporate Strategy & Development, Eco Power Solutions

C4.3 INITIAL OPERATION & PERFORMANCE OF THE INTEGRATED DFGD/WFGD FOR CLIFFSIDE 6

Raymond Gansley, Manager of Process Engineering, Alstom; Phil Rader & Dale Love

C4.4 CODEPENDENCE OF MULTIPOLLUTANT CONTROLS & THE AIR PREHEATER

John Guffre, Senior Research Scientist, Paragon Air Heater Technologies, Inc

C4.5 EMISSIONS CONTROL SYSTEM UPGRADES FOR INDIAN RIVER UNIT 4

Steve Bjorklun, Senior Associate Process Engineer, Burns & McDonnell Engineering Company, Inc.; Gery Hopper, NRG; Kristin Glikbarg & Paul Brandt, Burns & McDonnell

C4.6 EVALUATION OF MERCURY CONTROL TECHNOLOGIES WHILE OXY-FIRING A PRB COAL

Andrew Fry, Manager - Engineering R&D, Reaction Engineering International; Brydger Van Otten & Brad Adams, Reaction Engineering International; Jost Wendt, Geoff Silcox & Ignacio Preciado, University of Utah; Larry Bool, Praxair

Session Sponsor
and Co-Chair**C5. MATS****C5.1 HCL & MERCURY MITIGATION WITH DSI**

Brent Tidemann, Chemical Engineer - Manager, Nol-Tec Systems; Michael Thiel

C5.2 MATS COMPLIANCE SOLUTION FOR UNSCRUBBED COAL-FIRED BOILERS

Jonas Klingspor, Vice President, URS Corporation; Tom Machalek, Blake Stapper, URS; Jeff Kolde, John Darrow, Richard Gebert, Stephen Stark, W.L. Gore and Associates, Inc.

C5.3 PREPARING FOR THE MERCURY AIR TOXICS STANDARD (MATS)

Martin Dillon, PE, PMP, Project Manager, ADA-ES, Inc.; Andrew Szafarz: Alliant Energy, Inc., Sharon Sjostrom, Greg Filippelli, Thomas Campbell, David Young, ADA-ES, Inc.

C5.4 ADDRESSING MATS & MERCURY RE-EMISSIONS WITH MULTI-POLLUTANT EMISSIONS CONTROL TECHNOLOGY

Peter Kawa, Senior Vice President-Sales, Eco Power Solutions

C5.5 DECISION MAKING FOR MAT COMPLIANCE

Joel Millard, KVB-Enertec Regulatory Specialist, Babcock & Wilcox Power Generation Group; Bill Eberhardt

C5.6 FORGET ABOUT MERCURY RE-EMISSION -- HOW TO USE YOUR WET-FLUE-GAS DESULFURIZER AS A ROBUST & EFFECTIVE MERCURY ABSORBER

Joe Stuart, Director of Commercial Development, TDC, a division of Genesis Energy Limited

C5.7 A SYSTEM EVALUATION APPROACH IN IMPLEMENTING DSI FOR MATS COMPLIANCE

Anthony Silva, Advisory Engineer, Babcock & Wilcox; T. Ruppelli, S. Kumar, & J. Knapik

1PM - 3PM

Session Sponsor
and Co-Chair

Michael Thiel

Tuesday | January 29

3:30PM - 5:30PM **C6. DRY SORBENT INJECTION(DSI)**

Session Sponsor and Co-Chair



Jarret McClendon

C6.1 BENEFITS OF CONDITIONED AIR IN TRANSLOADING WHEN USING TRONA OR SBC FOR ACID GASES MITIGATION IN COAL FIRED UNITS FLUE GAS STREAM

Jarret McClendon, Applications Engineer, Natronx Technologies

C6.2 THE EFFECT OF DRY SORBENT INJECTION (DSI) REAGENTS ON COAL COMBUSTION BY-PRODUCTS

Jim Dickerman, Director FGT, Lhoist North America; Melissa Sewell

C6.3 DSI FOR SO2 SO3, HCL, & HG REMOVAL - ANSWERS TO COMMON QUESTIONS

Jon Norman, DSI Technology Manager, United Conveyor Corporation

C6.4 ACID GAS & MERCURY MATS COMPLIANCE THROUGH SORBENT INJECTION

Chris Linrud, Senior Systems Project Engineer, ADA-ES, Inc.; Cody Wilson, Greg Filippelli, Cameron Martin & Robin Stewart, ADA-ES, Bill Caputo, BCSI

C6.5 OPTIMIZATION OF DRY SORBENT INJECTION & PAC INJECTION FOR COST-EFFECTIVE MULTI-POLLUTANT CONTROL

Kevin Fisher, Senior Engineer, Element 1 Engineering, Inc.; Steve Smokey, Great River Energy

C6.6 STATUS OF THE DRY SORBENT INJECTION PROJECT AT BOARDMAN STATION

Bruce McCampbell, Project Manager, Shaw; Kenneth Fitzgerald & Christopher Wedig

Wednesday | January 30

7:30AM - 9:30AM **C7. ACTIVATED CARBON & SCR**

Session Sponsor and Co-Chair



Randy Sadler

C7.1 RECENT INJECTION TRIALS OF MATS-PAC™ NON-HALOGENATED ACTIVATED CARBON IN COAL-FIRED POWER PLANT FLUE-GAS

William Naylor, VP Operations, Carbonxt, Inc.; Dr. David Mazyck, Carbonxt, Inc.; Dr. Heather Byrne, Dr. Ameena Khan, Jack Drwiega & Caitlin Gross, Clear Carbon Innovations

C7.2 SORBENT TESTING IN THE LAB AND FIELD

(m)John Kline Principal, John Kline Consulting; Anik Delagrave, Lafarge

C7.3 HOW TO GUARANTEE THE LOWEST COST ACTIVATED CARBON TREATMENT SOLUTION

Richard Mimna, Senior Research Associate, Calgon Carbon Corporation; Michell Lomago

C7.4 ACTIVATED CARBON MARKET SUPPLY & DEMAND

Rob Nebergall, Global Business Manager - Emissions Control Technologies, Norit Inc.

C7.5 RELEASE & TRANSFORMATION OF POISONS IMPLICATED IN SCR CATALYST DEACTIVATION

(m)Balaji Krishnakumar, Sr. Computational Analyst, Niksa Energy Associates LLC; Stephen Niksa, NEA LLC; Alejandro Jimenez, EPRI

C7.6 SCR CATALYST MANAGEMENT CONSIDERATIONS

Nick Pollack, Chief Technology Officer, CoalLogix; Randy Sadler

C7.7 SELECTIVE CATALYTIC REDUCTION SYSTEMS

Joe Smith, Business Development Manager, Peerless Mfg

10AM - 12PM **C8. ADVANCED CONTROL TECHNOLOGIES**

Session Sponsor and Co-Chair

C8.1 PROSPECTS FOR PASSIVE BIOLOGICAL TREATMENT OF SELENIUM IN FGD WASTEWATERS

James Bays, Technology Fellow, CH2MHILL; Tom Higgins, Dana French, BT Thomas

C8.2 IN-FLIGHT MERCURY CAPTURE OF NORIT'S NONCARBON SORBENT VERSUS DARCO HG-LH

(m)Patton Adams, Developmental Engineer, Norit Inc.

C8.3 PARTICULATES & MERCURY REMOVAL USING KIMRE(TM) TECHNOLOGY

George C. Pedersen Jr. PE, CEO, KIMRE, INC.

C8.4 REACT MULTIPOLLUTANT SYSTEM - AN OPTION TO CONSIDER

Jim Peters, VP Business Development, Hamon

C8.5 POLLUTION CONTROL COST MINIMIZATION

Jerrold Radway, Chairman, Enerchem

C8.6 DEMONSTRATIONS OF AMENDED SILICATES FOR MERCURY CONTROL IN COAL FIRED GENERATING UNITS

Jim Butz, VP of Project Management, Novinda; Cliff Brown & Ben Bernardo

Wednesday | January 30

C9. CONTROL TECHNOLOGIES III

1PM - 3PM

Session Sponsor and Co-Chair

C9.1 REGIONAL ENVIRONMENTAL REMEDIATION

(m)Gare Henderson, Director of R&D, Gravitational Systems Engineering, Inc.

C9.2 ANALYTICAL MGMT. OF SCR CATALYST LIFETIMES & MULTIPOLLUTANT PERFORMANCE

(m)Balaji Krishnakumar, Sr. Computational Analyst, Niksa Energy Associates LLC; Stephen Niksa, Niksa Eenergy Associates LLC; Farrokh Ghoreishi & Corey Tyree, Southern Company

C9.3 MULTI-POLLUTANT CONTROL USING THE CHEM-MOD LLC TECHNOLOGY

Murray Abbott, Manager of Technical Support, Chem-Mod LLC; Sally Wasikowski & George Kotch, Chem-Mod LLC; Jay Gunderson, Energy & Environmental Research Center

C9.4 SNOXTM -THE ECONOMICAL WAY TO TURN HIGH-SULPHUR FUELS INTO POWER WITH REDUCED CO2 EMISSIONS

Peter Ibaek, Business Development Manager, Haldor Topsoe A/S

C9.5 A NOVEL FOR APPROACH FOR MERCURY CAPTURE

Christopher Poling, Vice President, Mercury Capture Systems; Tom Lesniak

C9.6 UTILITY MATS COMPLIANCE W/ HCL LIMITATIONS & THE CHALLENGES FACING AGING EGUS

Paul Johnson, Project Manager, ADA-ES, Inc.; Andrea Taylor, Tennessee Valley Authority; David Young, John Schminky & Greg Filippelli, ADA-ES, Inc

C10. ADVANCED CONTROL TECHNOLOGIES/ DSI

3:30PM - 5:30PM

Session Sponsor and Co-Chair

C10.1 DEMONSTRATION OF TECHNOLOGY FOR ENHANCED HG CONTROL WITH SDA & CDS UNITS

Rebecca Stiles, Sr. Research Chemist, Nalco, an Ecolab Company; Bruce Keiser & Nicholas Ergang, Nalco Company; Steve Smokey, GRE Stanton Station

C10.2 IS THERE A PLACE FOR DSI AT DETROIT EDISON?

William Rogers, Sr. Technological Specialist, DTE Energy; Robin Stewart, Andrew Bertelson, Jordan Copenhafer, Nathan Sonobe & Trent Lynch, ADA-ES, Inc.

C10.3 STRATIFICATION CONSIDERATION IN DSI OPTIMIZATION

Charles Lockert, President, Breen Energy Solutions

C10.4 A HIGH REACTIVE HYDRATED LIME FOR CHALLENGING DSI APPLICATIONS

Curt Biehn, Manager, Marketing & Technical Services, Mississippi Lime Compay; Mark DeGenova, Randy Griffard, Eric Van Rens & Richard Zhang

C10.5 APPLICATION OF THE DRYFINING™ TECHNOLOGY AT EXISTING POWER UNITS FIRING LOW-RANK COAL

(m)Charles Bullinger, Senior Principle Engineer, Great River Energy; Vladimir Vaysman & Yixin Lu, WorleyParsons

C10.6 THE LATEST CONTROL TECHNOLOGY OF TRACE ELEMENTS USING HEAT EXCHANGER

Naruhito Omine, Engineering Researcher, Babcock-Hitachi K.K.; Noriyuki Imada, Wakako Shimohira, Gouki Sasaki, Atsushi Katagawa, Hiroshi Ishizaka

Monday | January 28

1PM - 3PM

D1. CNG & SHALE GAS**D1.1 THE EFFECT OF SHALE GAS ON NEW ENGLAND POWER MARKETS**

Stephen Slocumb, Associate, Epsilon Associates

D1.2 OPTIONS FOR CAPTURING THE VALUE OF SHALE GAS: ENVIRONMENTAL, ECONOMIC & ENERGY SECURITY PERSPECTIVES

Joe Marriott, Lead Associate, Booz Allen Hamilton; Robert Murray, Jesse Goellner, & Gary Leatherman

D1.3 SHALE GAS & LNG EXPORT: REGULATION OF A NEW PHENOMENON

Les Lo Baugh, Shareholder/Partner, Brownstein

D1.4 ENVIRONMENTAL & ECONOMIC IMPACT ASSESSMENT OF SHALE GAS PRODUCTION & RESOURCES

Sarah Jordaán, Project Manager, EPRI; Sean Bushart

D1.5 KELLY A SYSTEMWIDE MODEL TO MEET THE CHALLENGES & MAXIMIZE THE ECONOMIC POTENTIAL FROM SHALE GAS EXTRACTION IN SMALL TOWN COMMUNITIES

Sayan Chakraborti, Senior Program Manager, MRIGlobal; Mark Abashian & Larry Brown, MRIGlobal; Gregory Proctor, Prolific Technology

3:30PM - 5:30PM D2. FRACKING & SUSTAINABLE DEVELOPMENT**D2.1 PUBLIC CONFIDENCE & HYDRAULIC FRACTURING: FINANCIAL RESPONSIBILITY AS AN ECONOMIC TOOL FOR RISK-SHARING**

Kerry Schlichting, Senior Associate, ICF International; Libby McCullough

D2.2 FRACKING: ENVIRONMENTAL REGULATORY & POLICY UPDATE

Megan Roberts-Safinsky, Associate, Venable LLP

D2.3 FRACKING POLICY: WRONG POLICY COULD DERAIL GAS PRODUCTION OVERNIGHT INCREASING COSTS TO HOMEOWNERS & INDUSTRY

(m) Stephen Sewalk, Assistant Professor, University of Denver; Qionglin Dai

D2.4 CREATING A SUSTAINABLE ENERGY SYSTEM THROUGH GAS & ELECTRIC HARMONIZATION

Kelly Daly, Chair - Energy & Environmental Division, Stinson Morrison Hecker LLP

Tuesday | January 29

7:30AM - 9:30AM D3. ENERGY POLICY**D3.1 IMPACTS OF POTENTIAL FUTURE RULES & REGULATIONS ON INVESTMENT DECISIONS TODAY**

Session Sponsor and Co-Chair Sebastian Mankowski, Consultant, NERA Economic Consulting; Scott Bloomberg

D3.2 NATIONAL CAP & TRADE LEGISLATION- WHAT YOU NEED TO KNOW TO PREPARE

Larry Goldenhersh, CEO, Enviance

D3.3 ENERGY POLICY IN THE WHITE HOUSE 2013 OBAMA VS. ROMNEY

Kelly Carnes, President, CEO, TechVision21

D3.4 CONSIDERING ENVIRONMENTAL & CULTURAL VALUES IN TRANSMISSION PLANNING

Byron Woertz, Senior Project Manager, Western Electricity Coordinating Council

D3.5 ELPIPES & BALLISTIC BREAKERS AS ENABLERS FOR AN UNDERGROUND SUPERGRID

Roger Faulkner, Founder & President, Electric Pipeline Corporation

Tuesday | January 29

D4. ENERGY POLICY SECURITY

10AM - 12PM

D4.1 LEVERAGING THE LOW COST OF NATURAL GAS TO BRING IT TO UTILIZATION

Vijayan Chomatil, Entrepreneur, Kanab Energy

D4.2 NATURAL GAS: AMERICA'S ALTERNATIVE TO GASOLINE?

Rob Barnett, Energy Analyst, Bloomberg Government

D4.3 ENERGY POLICY: WHAT'S NEXT?

Mitchell Baer, Director - Office of Oil and Gas Analysis, US DOE

D4.4 ENERGY AND ENVIRONMENT POLICY LEARNINGS FROM 'CASH FOR CLUNKERS'

Shoshannah Lenski, Associate, Strategy & Corporate Development, DTE Energy

D4.5 ELPIPES TO CREATE HIGH CAPACITY IRELAND-UK POWER LINKAGE

Joe Corbett, Head of Technical Services, Mainstream Renewable Power Ltd.; Roger Faulkner, Electric Pipeline Corporation

Session Sponsor and Co-Chair

D5. STATE, REGIONAL & INFRASTRUCTURE

1PM - 3PM

D5.1 THE VOTES ARE IN - WHAT DOES THAT MEAN FOR THE RENEWABLE INDUSTRY?

Barbara Sands, Managing Consultant, PA Consulting

D5.2 THE ARIZONA ENERGY ROADMAP: CREATING A PLAN FOR THE STATE'S ENERGY SECTOR

Michelle De Blasi, Attorney, Greenberg Traurig LLP; Christopher Davey, EnviroMission

D5.3 CUTTING THROUGH THE STATIC: INSIGHTS FOR IMPLEMENTING EFFECTIVE PUBLIC INVOLVEMENT PROGRAMS FOR ELECTRIC INFRASTRUCTURE DEVELOPMENT

Diann Strom, Principal, EnviroIssues; Diane Adams

D5.4 PRACTICING RISK-AWARE ELECTRICITY REGULATION

Dan Mullen, Senior Manager, Ceres; Ron Binz, Public Policy Consulting; Richard Sedano, Regulatory Assistance Project; Denise Furey, Regent Square Advisors

Session Sponsor and Co-Chair

D6. ENERGY & CLIMATE

3:30PM - 5:30PM

D6.1 CLIMATE & THE PUBLIC TRUST DOCTRINE: PUBLICITY STUNT OR REAL THREAT?

Allison Wood, Partner, Hunton & Williams LLP

D6.2 ACHIEVING SIGNIFICANT CARBON EMISSION REDUCTIONS FROM COGENERATION THROUGH NEW MARKET-BASED INCENTIVES

Paul MacGregor, Senior Vice President, Nexant; Tom Flynn

D6.3 ADOPT A CARBON TAX WITH REINVESTMENT & CONVERT NATURAL GAS TO GASOLINE TO REDUCE EMISSIONS OVER 50% IN 20 YEARS

(m) Stephen Sewalk, Assistant Professor, University of Denver; Vincent Buscarello

Session Sponsor and Co-Chair

Wednesday | January 30

7:30AM - 9:30AM D7. MANAGING RISK & PROJECT MGMT

Session Sponsor and Co-Chair

D7.1 EFFECTIVE PROJECT INFORMATION MANAGEMENT - THE ULTIMATE VALUE PROPOSITION
(m)Sloane Whiteley, Senior Business Consultant, AVEVA

D7.2 CHALLENGES OF SOFT TARGET SECURITY PROTECTION IN THE POWER & UTILITY SECTOR
Jeff Simmerman, Lieutenant Commander USCG (ret), Environmental Resources Management

D7.3 ENERGY PROJECTS- RISKS & MANAGEMENT
Lorne Sivertson, President, Sivertson & Associates Consulting Ltd.

D7.4 ADDRESSING THE CHANGING OIL & GAS REGULATORY LANDSCAPE WITH CLOUD-BASED COMPLIANCE SOLUTIONS
Mickey Landkof, Senior Sales Engineer, Enviance

10AM - 12PM D8. PROJECT FINANCE

Session Sponsor and Co-Chair

D8.1 INVESTING IN THE GHG CONSTRAINED FINANCIAL MARKETS IN THE LIGHT OF THE FINANCIAL REFORM LEGISLATION
Nedia Miller, Principal, Miller CTA

D8.2 FINANCING RENEWABLE ENERGY PROJECTS: THE ROLE OF EX-IM BANK
Craig O'Connor, Director - Office of Renewable Energy, Export-Import Bank of the US

D8.3 PROJECT FINANCING FOR RENEWABLE ENERGY PROJECTS
John Ravis, Principal, Scully Capital

Monday | January 28

E1. SMALL SCALE RENEWABLE & ELECTRIC UTILITIES

1PM - 3PM

Session Sponsor and Co-Chair

E1.1 ONTARIO'S FIT
Peter Black, Director, Brant Renewable Energy

E1.2 RENEWABLE ENERGY CERTIFICATES: DEMYSTIFYING THE CURRENCY OF US & STATE RENEWABLE ENERGY MARKETS
Alex Pennock, Manager, Green-e Energy - Center for Resource Solutions

E1.3 A NEW VISION FOR CONCENTRATED SOLAR
Zev Rosenzweig, CEO & President, AORA Solar Ltd

E1.4 HOW TO BUY & MARKET RENEWABLE ENERGY CREDITS & MEET STATE MANDATES IN NYISO, PJM & RGGI
Bert Spaeth, Senior Energy Engineer, RS Energy Solutions Inc.

E1.5 STATISTICAL OPTIMIZATION OF MEDIUM COMPONENTS AFFECTING FERMENTATIVE HYDROGEN PRODUCTION FROM CRUDE GLYCEROL BY THERMOTOLERANT KLEBSIELLA SP. TR17
Teera Chookaew, Ph.D Candidate, Prince of Songkla University

E2. DISTRIBUTED GENERATION

3:30PM - 5:30PM

Session Sponsor and Co-Chair

E2.1 THE ECONOMICS OF HYBRID RENEWABLE MICORGRIDS
Peter Lillenthal, CEO, HOMER Energy

E2.2 DISTRIBUTED GENERATION & THE INTELLIGENT GRID: CHALLENGES & PROMISES
Craig Lewis, Executive Director, Clean Coalition

E2.3 SYNCING SCHEDULES FOR RENEWABLE GENERATION & TRANSMISSION INTERCONNECTION
Molly Cresto, Project Manager, CH2M HILL; Cary Roberts

E2.4 LESSONS LEARNED ADMINISTERING DISTRIBUTED GENERATION INCENTIVE PROGRAMS
Terry Clapham, Distributed Generation Manager, California Center for Sustainable Energy

E2.5 RENEWABLE POWER SOURCE BASED ON LOW ENERGY NUCLEAR REACTIONS
George Miley, Professor Emeritus - University of Illinois; Xiaoling Yang, Kyu-Jung Kim, Tapan Patel, Erik Ziehm, James Madrigal, Bert Stunkard

E2.6 FEASIBILITY & CONSUMER BENEFITS OF MEETING THE RENEWABLE PORTFOLIO STANDARD FOR DISTRIBUTED GENERATION IN ILLINOIS
Jin H. Jo, Assistant Professor, Illinois State University; Jared Hayden & Sarah Noll

Tuesday | January 29

E3. RENEWABLE DEVELOPMENT ANALYSIS

7:30AM - 9:30AM

Session Sponsor and Co-Chair

E3.1 BENCHMARK SURVEY RESULTS: RENEWABLE ENERGY & CORPORATE ENERGY EFFICIENCY
(m)Margery Moore, Dir. EHS Strategic Alliances, Bloomberg BNA

E3.2 VARYING IMPACTS OF RPS
Marlys Palumbo, Partner, Van Ness Feldman

E3.3 THE ROLE OF ADVANCED PUMPED STORAGE HYDRO TECHNOLOGIES IN PROVIDING GRID SERVICES & INTEGRATION OF VARIABLE ENERGY RESOURCES
Vladimir Koritarov, Project Manager, Argonne National Laboratory

E3.4 ANCILLARY SERVICES ISSUES FROM THE PERSPECTIVE OF A PROJECT DEVELOPER'S ATTORNEY
Karl Kumli, Shareholder/Vice President, Dietze and Davis, P.C.

E3.5 TECHNICAL POTENTIAL OF PV PROJECT DEVELOPMENT IN THE US
Milo Terzich, Project Development Director - Americas, Trina USA; Krishna Shah

E3.6 DEVELOPMENT OF A RENEWABLE ENERGY MEASUREMENT SYSTEM
Zelda Roberts, Senior Specialist, National Advisory Council on Innovation

Tuesday | January 29

10AM - 12PM E4. RENEWABLE PROJECT DEVELOPMENTSession Sponsor
and Co-Chair**E4.1 NAVIGATING THE BLM ROW GRANT PROCESS FOR RENEWABLE ENERGY PROJECTS**

Robert Prohaska, Director, ESA

E4.2 UTILIZING PURPA TO MARKET RENEWABLE ENERGY

Peter Richardson, Partner, Richardson & O'Leary, PLLC

E4.3 TRES AMIGAS - CREATING A NATIONAL HUB FOR RENEWABLES

Laura Manz, Senior Vice President, Viridity Energy, on behalf of Tres Amigas

E4.4 ENVIRONMENTAL LITIGATION AGAINST RENEWABLE PROJECT DEVELOPMENT

Jim Wedeking, Staff Attorney, Sidley Austin LLP

E4.5 EFFECTIVE MESSAGING IN TODAY'S RENEWABLE ENERGY MARKET

Carolyn Parr, President & CEO, Mind Over Markets

E4.6 WHO'S THE BOSS? THE IMPACT OF THE 2012 ELECTION ON RENEWABLE ENERGY

James McTarnaghan, Partner, Duane Morris

E4.7 UTILITY SCALE RENEWABLE ENERGY PROJECT COMPLIANCE

Kevin Wedman, Vice President, Bureau Veritas

1PM - 3PM E5. NEW TECHNOLOGYSession Sponsor
and Co-Chair**E5.1 COOL PLASMA GASIFICATION**

(m)Kris Skrinak, President, adaptiveARC, Inc.

E5.2 ADVANCED GROUND-BASED INSPECTION TECHNOLOGY FOR WIND TURBINE BLADES

Stan Rosinski, Program Manager, Electric Power Research Institute; John Lindberg

E5.3 APPLYING CSP INNOVATIONS FOR CLEANER FOSSIL-FIRED POWER PLANTS IN THE US

John Robbins, Senior Director of Sales - Americas, AREVA Solar, Inc.

E5.4 SYNERGIZING ENHANCED GEOTHERMAL, WIND & HYDROGEN FOR POWER GENERATION

Edward Hinders, Canyon West LLC; Patrick Kelly

3:30PM - 5:30PM E6. SOLAR & PVSession Sponsor
and Co-Chair**E6.1 PV REACHES GRID PARITY**

Lane S. Garrett, P.E., C.E.M., CEO, ULG Energy Solutions, Inc.

E6.2 OUTLOOK FOR PV DEMAND IN A LOW INCENTIVE MARKET

Paula Mints, Director, Navigant

E6.3 SUNBEAMS FROM SPACE MIRRORS FEEDING SOLAR FARMS ON THE GROUND AT DUSK & DAWN

Lewis Fraas, President, JX Crystals Inc.

E6.4 HOW TO SURVIVE THE MULTI-FACETED U.S. SOLAR MARKET

Boris Schubert, CEO, Q.CELLS North America

E6.5 GREENING THE GRID

Troy Dalbey, North American Manager, Upsolar Group

E6.6 BEST PRACTICES FROM SCE'S SOLAR PV PROGRAM

Mark Nelson, Director of Generation Planning & Strategy, Southern California Edison

OTHER - SOLAR OBSERVING DEMONSTRATION

Chris Reich, CEO, Solar Astronomer; TeachU

Wednesday | January 30

E7. PROJECT DEVELOPMENT/ IP

7:30AM - 9:30AM

E7.1 PATENT PROTECTION BEST PRACTICES IN THE WAKE OF THE AMERICA INVENTS ACT

Lee Huddleston, Partner, Osha Liang, LLP

E7.2 PATENT A PROCESS OR KEEP IT A TRADE SECRET? HOW TO DECIDE AFTER AIA'S EXPANSION OF THE PRIOR USER RIGHTS DEFENSE

Judith Kim, Director, Sterne, Kessler, Goldstein & Fox; Katrina P. Quach

E7.3 CREATION OF A JOINT VENTURE: THE PRELIMINARY LETTER OF INTENT

Michael Manuel, Principal, Goldberg Kohn Ltd.

E7.4 EQUATOR PRINCIPLE COMPLIANCE DEMONSTRATION FOR A PROJECT IN THE US?

William Stark, Senior Consultant, SAIC Energy, Environment & Infrastructure

E7.5 VISUALIZING CHANGE: VISUAL ASSESSMENT TOOLS FOR RENEWABLE ENERGY PROJECTS

John MacDonald, Project Manager, Tetra Tech, Inc.

E7.6 CAPTURING VALUE THROUGH INTELLECTUAL ASSET MANAGEMENT

Thomas McGurk, President & Mngng Member, Advanced Biofuel Solutions/McGurk Intellectual Property Advisors

Session Sponsor
and Co-Chair

Stan Rosinski

E8. BATTERIES, STORAGE & RE DEVELOPMENT

10AM - 12PM

E8.1 ELECTROVAYA'S UTILITY ENERGY STORAGE SOLUTIONS USING LITHIUM ION SUPERPOLYMER BATTERY TECHNOLOGY

Rajshekar DasGupta, Vice President - Energy Storage, Electrovaya

E8.2 CHARGING, TESTING & MONITORING: EV BATTERY CHARGING SYSTEMS & TECHNOLOGY

Don Kerner, President of ECOtality North America, ECOtality

E8.3 FEASIBILITY OF ENERGY STORAGE ON ITALIAN POWER EXCHANGES ANCILLARY MARKET

Francesco Vallone, CEO, Celertech; Faddy Ardian

E8.4 MAPS: MAGLEV POWER STORAGE SYSTEM

Robert Coullahan, President, Readiness Resource Group Incorporated; James Powell, Gordon Danby & James Jordan, Maglev 2000; F.H. Griffis New York Polytechnic University

E8.5 NATIONAL UTILITY RATES DATABASE

David Loomis, Professor of Economics, Illinois State University

Session Sponsor
and Co-Chair

Monday | January 28

1PM - 3PM **F1. ECONOMIC ENERGY & CYBERSECURITY**
 Session Sponsor and Co-Chair **F1.1 A PARADIGM SHIFT IS REQUIRED IF THE U.S. IS GOING TO HAVE A MORE SECURE SMART GRID**
 Brian Lenane, Senior Principal, SRA International
F1.2 CONDUCTING A RISK BASED METHODOLOGY FOR COMPLIANCE & CYBER SECURITY REQUIREMENTS
 (m)Jerome Farquharson, Practice Manager, Burns & McDonnell Engineering Company; Michael Welch
F1.3 EFFECTIVE REGULATORY APPROACHES TO SMART GRID CYBER SECURITY
 Terry Jarrett, Commissioner, Missouri Public Service Commission
F1.4 DESIGNING AN EFFECTIVE SECURITY PROGRAM
 Joachim Gloschat, Physical Security Specialist, Security Management Solutions, LLC
F1.5 CYBER THREATS TO INDUSTRIAL CONTROL SYSTEMS: FACT OR FICTION
 Marty Edwards, Director - Control Systems Security Program; Department of Homeland Security
F1.6 SECURITY OPERATIONS CENTER: A ADAPTIVE APPROACH
 Jeff Hawks, Director, Information Systems, Wyle Laboratories; Scott Sanders (Wyle)

3:30PM - 5:30PM **F2. COMPLIANCE TECHNOLOGIES & STRATEGIES**
 Session Sponsor and Co-Chair **F2.1 ASSESSMENT OF GREENHOUSE GAS RETROFIT ISSUES FOR COAL FIRED POWER PLANTS**
 Joy Gloria, Engineer, Sargent & Lundy, LLC; David Bahr, Sargent & Lundy, LLC; John Chang, USEPA
F2.2 LOWER RISK AND REDUCED COST - ESP TO PJFF CONVERSION
 Mark Aldrich, Regional Executive, Hamon
F2.3 RE-ENGINEERING COAL-FIRED GENERATING PLANTS
 Keith Moore, President, Castle Light Energy Corp
F2.4 STRATEGIES FOR PATENTING "GREEN" TECHNOLOGIES
 Erica Lowthers, Patent Agent, Sim. IP Practice
F2.5 ADVANCES IN FUEL LEAN GAS REBURN
 Charles Lockert, President, Breen Energy Solutions
F2.6 WET FGD NOZZLE TECHNOLOGY - CAN A BETTER NOZZLE SELECTION HELP IMPROVE SCRUBBER PERFORMANCE?
 Robert Van Durme, P.E., Senior Account Manager, Lechler Inc.
F2.7 AIR PERMITTING OF IPL'S EAGLE VALLEY PROPOSED REPLACEMENT COMBINED CYCLE PLANT
 Richard Benedict, Director of Project Development, Indianapolis Power & Light Co. (IPL); Tom Rarick & Robert Fraser, Environmental Resources Management

Tuesday | January 29

7:30AM - 9:30AM **F3. POWER PLANT & BOILER OPTIMIZATION**
 Session Sponsor and Co-Chair **F3.1 USE OF CHLORINE DIOXIDE IN RO SYSTEMS FOR TREATMENT OF BOILER FEED WATER**
 Bob Mueller, Director - Process Chemicals, Airgas Specialty Gases
F3.2 IN FURNACE LASER-BASED MEASUREMENTS SYSTEM TO OPTIMIZE COAL COMBUSTION ON 600MW COAL-FIRED BOILER
 Scott Affelt, Vice President, Zolo Technologies
F3.3 IMPROVED HEAT TRANSFER MANAGEMENT THROUGH SOOTBLOWING OPTIMIZATION ON A CYCLONE FIRED UNIT
 Jeremy Brown, Project & Applications Engineer, Babcock & Wilcox PGG
F3.4 COAL FLOW OPTIMIZATION WITH B&W PGG'S EVENFLOW SYSTEM
 Tim Fuller, Technology Manager, Babcock & Wilcox Power Generation Group; Bijan Hosseinijad & Eric Fuller, B&W PGG; Alan Murkerson & Joe Krajina, Lakeland Electric; Dr. Harun Biligren, Lehigh University
F3.5 USE OF OXYGEN ENHANCED COMBUSTION TO ENHANCE BOILER OPERATIONS
 Larry Bool; Sr. Development Professional, Praxair, Inc; Stefan Laux, David Thompson & Sho Kobayashi
F3.6 COMBUSTION OPTIMIZATION FOR DECREASED EMISSIONS & IMPROVED EFFICIENCY
 David Earley, President, Combustion Technologies Corporation; Joe Estrada, Duke Energy

Tuesday | January 29

10AM - 12PM **F4. EHS & EMIS**
 Session Sponsor and Co-Chair **F4.1 ENSURING REGULATORY COMPLIANCE IN A DECENTRALIZED ORGANIZATION**
 Sponsor & Co-Chair - Richard Waterman, Vice President, EA Engineering, Science, & Technology, Inc.; Kathy French, LS Power Development, LLC
F4.2 EMIS - INCIDENT REPORTING SYSTEM
 Mark Chrisos, Director of HSE & Security, InterGen
F4.3 EMIS DESIGN & IMPLEMENTATION PLANNING FOR ONE OF THE LARGEST US STATE-OWNED UTILITIES
 Rick Mock, Principal, E2ManageTech; Brian Holmes, Santee Cooper
F4.4 EHS GLOBAL AUDITING TRENDS
 (m)Margery Moore, Dir. EHS Strategic Alliances, Bloomberg BNA
F4.5 LEVERAGING MODERN TECHNOLOGY FOR EMIS SUCCESS
 Don Smith, Regional Director, Perillon Software
F4.6 THE SAFETY LEADERS BRAIN-HOW SAFETY LEADERS ARE WIRED DIFFERENTLY & WHY THIS MAKES ALL THE DIFFERENCE TO BUSINESS
 Michelle Brown, Operations Manager, Sentis USA; Elizabeth Prazeres



1PM - 3PM **F5. EHS & RISK MANAGEMENT**
 Session Sponsor and Co-Chair **F5.1 OIL SPILL RISK EVALUATION FOR SUBSTATION OIL-FILLED EQUIPMENT**
 Kris Macoskey, Principal, Civil & Environmental Consultants, Inc.; Emory McLean
F5.2 RISK MANAGEMENT & ITS IMPACT ON ENVIRONMENTAL HEALTH & SAFETY
 Tom Barlow, Channel Manager, EtQ; Glenn McCarty
F5.3 MANAGING AND REDUCING RISK: ENVIRONMENTALLY PREFERRED CHEMICALS IN YOUR COMPANY'S MAINTENANCE PROGRAM
 Jim Collins, Business Development Mgr.- Energy Markets, CRC Industries
F5.4 ENVIRONMENTAL GREEN SHOP AWARD PROGRAM
 Robert Trapani, Environmental Engineer, State of Arizona Department of Transportation
F5.5 IMPLEMENTING ISO 31000 INTO EHS
 Johannes Swanepoel, Product Marketing Manager, Enablon
F5.6 MOVING FROM EHS COMPLIANCE TO PERFORMANCE
 David Hoffman, Sustainable Supply Chain SME, Enablon
F5.7 REDUCING HUMAN HEALTH RISKS FROM CARBON DIOXIDE VENTING ASSOCIATED WITH CARBON CAPTURE OPERATIONS
 John Shrock, Senior Scientist, ECT, Inc.



3:30PM - 5:30PM **F6. ASH / CCP**
 Session Sponsor and Co-Chair **F6.1 COAL ASH MANAGEMENT -- THE CHANGING LEGAL LANDSCAPE**
 Jeffrey N. Martin, Partner, Hunton & Williams LLP
F6.2 COAL ASH STORAGE & DISPOSAL - LITIGATION & REGULATORY DEVELOPMENTS
 Nash Long, Partner, Winston & Strawn, LLP; May Wall
F6.3 UPDATE ON ASTM COAL ASH REUSE STANDARDS
 A. Gwen Eklund, Director - Power Generation Services, TRC
F6.4 BEYOND ASH PONDS
 Thomas Higgins, Global Technology Leader - Power Water & Process, CH2M HILL; Dennis Fink & Dana French
F6.5 COAL COMBUSTION RESIDUALS CASE STUDY: GHENT GENERATING STATION
 Stephen Henson, Process Engineer, Kiewit Power; Raymond Eric Zbacnik, Kiewit Power; Scott Straight, LG&E and KU Energy

7:30AM - 9:30AM F7. OPERATIONS & MANAGEMENT

Session Sponsor and Co-Chair



- F7.1 TRUE GRIT: 7 CORE PRACTICES OF RESILIENT LEADERS**
Autumn Krauss, Chief Scientist, Sentis; Kellie Lewis
- F7.2 ENERGY BENCHMARKING IN NYC**
David Ahrens, Managing Director, Energy Spectrum
- F7.3 OUTAGE MANAGEMENT 101 – A GUIDE TO THE EFFECTIVE PLANNING, EXECUTION & CLOSE OUT OF GENERATING PLANT MAINTENANCE OUTAGES**
Phil Webster, Project Manager, Black & Veatch Corporation; Stephen Nelson, Dominic DiBari & Mike Dammann
- F7.4 MILL PRE-FIRE DETECTION SYSTEMS**
Richard Hovan, Principal Consultant, EPA Systems, LLC
- F7.5 MANAGING ENVIRONMENTAL COMPLIANCE AND RESOURCE RECOVERY DURING TRANSMISSION & DISTRIBUTION SYSTEM CONSTRUCTION**
Robert Ferrell, Sr. Mgr, Business Development, URS Corporation; Lauren Andersen, Ray Hinkle
- F7.6 VALUE OF DESIGN FLEXIBILITY**
Gill Eapen, CFO, VEEDIMS

10AM - 12PM

Session Sponsor and Co-Chair



- F8. NATURAL RESOURCE MGMT. - HCP**
- F8.1 PROGRAMATIC PERMITTING FOR VEGETATION MANAGEMENT**
Michael Warner, President - Project Manager, Transcon Environmental, Inc.
- F8.2 AN INTEGRATED ECOLOGY & DESIGN APPROACH TO WETLAND RESTORATION**
Mark Laska, Ph.D., CEO / President, Great Ecology
- F8.3 RESILIENCE & ADAPTABILITY: WEIGHING THE RISKS & BENEFITS OF FISH CONSUMPTION IN RURAL ALASKA**
Lawrence Duffy, Professor of Chemistry and Biochemistry, University of Alaska Fairbanks; Philip Loring, Kriya Dunlap, Arleigh Reynolds & Ralston Purina
- F8.4 THE BUSINESS CASE FOR AN OPERATIONS & MAINTENANCE HABITAT CONSERVATION PLAN**
William Coleman, Supervisor, Habitat Conservation Plan Program, Pacific Gas & Electric
- F8.5 GREEN INFRASTRUCTURE & HCP'S - A NEW TOOL FOR BETTER CONSERVATION**
(m)Kris Hoellen, Director, The Conservation Fund
- F8.6 PROJECT STREAMLINING & STEWARDSHIP BENEFITS OF PARTNERING WITH THIRD PARTY MITIGATION PROVIDERS**
(m)Kris Hoellen, Director, The Conservation Fund
- F8.7 PROACTIVELY PINPOINTING HAZARDOUS VEGETATION ON THE FRINGES OF POWER LINE RIGHT-OF-WAY CORRIDORS USING LIDAR & IMAGERY DATA**
Alex McCracken, Product Consultant, Exelis

1PM - 3PM

Session Sponsor and Co-Chair

- F9. OPERATIONS MANAGEMENT & EHS**
- F9.1 PLANNING THE POWER PRODUCTION: SHORT-TERM FORECASTING OF ITALIAN ELECTRICITY MARKET & COMBINATORIAL OPTIMIZATION**
Faddy Adrian, Staff, Celertech; Ilaria Cannata & Francesco Vallone
- F9.2 OPTIMIZATION OF SCR CATALYST MANAGEMENT PLANNING**
Kyle Neidig, Product Manager - SCR Catalyst, Hitachi Power Systems America, Ltd.
- F9.3 ON PREVENTING SERIOUS INJURIES & FATALITIES**
Jim Spigener, Senior Vice President, BST
- F9.4 CONTRACTOR SAFETY: ISSUES, BEST PRACTICES & APPROACHES**
Jim Spigener, Senior Vice President, BST

G1. CARBON FOOTPRINT

1PM - 3PM

Session Sponsor and Co-Chair

- G1.1 NATURAL VS ANTHROPOGENIC GHG EFFECT: A COMPENDIUM**
Dejan Ristic, Pressure/Energy Systems Engineer-Group Leader, Argonne National Laboratory
- G1.2 "MASS PRODUCED" PRODUCT CARBON FOOTPRINTS TO FACILITATE BUSINESS DECISIONS & LCA EDUCATION IN LARGE COMPANIES**
Christoph, Meinrenken, Associate Research Scientist, Columbia University, Klaus S. Lackner & Anthony N. Garvan
- G1.3 USING EGRID DATA FOR CARBON FOOTPRINTING GRID SUPPLIED ELECTRICITY**
Art Diem, Environmental Engineer, USEPA; Cristina Quiroz, TranSystems
- G1.4 IS WOOD BIOENERGY CARBON NEUTRAL?**
Roger Sedjo, Senior Fellow, Resources for the Future; Xiaohui Tian, Ohio State University

G2. TAILORING RULE/NSR/GHG-BACT

3:30PM - 5:30PM

Session Sponsor and Co-Chair

- G2.1 UPDATE ON GREENHOUSE GAS NSPS REGULATIONS**
Tauna Szymanski, Senior Associate, Hunton & Williams LLP
- G2.2 GHG BACT AS CO2 INJECTION FOR EOR**
Mary Ellen Ternes, Attorney, McAfee & Taft
- G2.3 BEST AVAILABLE CONTROL TECHNOLOGY FOR GREENHOUSE GASES**
Deanne Dutton Hughes, Principal, Cardinal Engineering
- G2.4 IMPLICATIONS OF THE EGU GHG NSPS ON GHG BACT DETERMINATIONS: WHAT DOES IT ALL MEAN?**
Kate Graf, Senior Consultant, Geosyntec Consultants
- G2.5 NSR APPLICABILITY UNDER TAILORING RULE**
Angela Morrison, Attorney, Hopping Green & Sams, PA; Max Lee, Koogler and Associates, Inc.
- G2.6 NSR APPLICABILITY UNDER TAILORING RULE, PART II**
Max Lee Ph.D., P.E., President, Koogler and Associates, Inc.; Angela Morrison, Hopping Green & Sams
- G2.7 HURDLES OF IMPLEMENTING THE TAILORING RULE AT LANDFILLS**
David Thorley, Director of Air, Waste Management; Angela Morrison, Hopping Green & Sams, P.A.

G3. PLANNING & GHG REPORTING

7:30AM - 9:30AM

Session Sponsor and Co-Chair

- G3.1 WISCONSIN'S APPROACH TO QUANTIFYING EMISSION IMPACTS OF CLEAN ENERGY INITIATIVES (FOCUS ON ENERGY)**
David Sumi, Executive Director, The Cadmus Group
- G3.2 COMPILATION & ANALYSIS OF NEW MEXICO'S GHG EMISSIONS INVENTORY DATA 2008 - 2011**
Michael Schneider, Environmental Scientist, State of NN Environment Department Air Quality Bureau
- G3.3 EXPERIENCES WITH GHG PERMITTING UNDER NSR**
David Jordan, Partner, ERM
- G3.4 APPLICATION OF HESTIA METHODS TO THE CITY OF PHOENIX, USA**
Igor Razlivanov, Postdoc, ASU; Kevin Gurney & Yang Song, ASU; Yuyu Zhou, Joint Global Change Research Institute, College Park,
- G3.5 HIGH-RESOLUTION GLOBAL FOSSIL FUEL CO2 EMISSION INVENTORY FOR 1992 TO 2010 USING INTEGRATED IN-SITU & REMOTELY SENSED DATA IN A FOSSIL FUEL DATA ASSIMILATION SYSTEM**
Salvi Asefi-Najafabady, Postdoctoral Scholar, Arizona State University; Peter Rayner, Jianhua Huang, Yang Song, Kevin Gurney
- G3.6 VULCAN: NATIONAL SCALE HIGH RESOLUTION QUANTIFICATION OF FOSSIL FUEL CO2 EMISSIONS**
Kevin Gurney, Associate Professor, Arizona State University; Yuyu Zhou, DOE; Daniel Mendoza, Purdue Univ; Vandhana Chandrasekaran & Igor Razlivanov, ASU

10AM - 12PM G4. CORPORATE STRATEGIES & RISK MGMT

Session Sponsor and Co-Chair
G4.1 CREATING GREENHOUSE GAS EMISSIONS OFFSETS BY REDUCING NITROGEN FERTILIZER USE IN U.S. AGRICULTURAL CROP PRODUCTION
 Adam Diamant, Technical Executive, EPRI; Neville Millar, Ph.D. & G. Philip Robertson, Ph.D., Michigan State University (MSU).
G4.2 SUMMARY OF RECENT OBSERVATIONAL STUDIES OF THE IMPACTS OF CLIMATE CHANGE & IMPLICATIONS FOR THE ELECTRIC UTILITY INDUSTRY
 Howard Balentine Technical Leader - Air Quality, AECOM; Gregory Derevianko
G4.3 CARBON TAX OR "CAP-&-TRADE" SYSTEMS & ITS COST & PRICE EFFECT ON U.S. REFINING & MARKETING
 (m) Bill Smalling, Attorney at Law, C. William Smalling, PLLC
G4.4 HESS CORPORATION'S NEXT GENERATION CLIMATE CHANGE STRATEGY
 (m) Michal Pelzig, Senior Manager Reporting, Hess Corporation
G4.5 ENVIRONMENTAL & CARBON REPORTING & DISCLOSURE: A NEW PARADIGM
 (m) John Fillo, Principal Consultant, Trinity Consultants Inc
G4.6 INVESTING IN THE GHG CONSTRAINED FINANCIAL MARKETS IN THE LIGHT OF THE FINANCIAL REFORM LEGISLATION
 Nedra Miller, Founder, MILLER, CTA

1PM - 3PM G5. CALIFORNIA CAP-AND-TRADE

Session Sponsor and Co-Chair
G5.1 CAP-&-TRADE IN CALIFORNIA
 Gillian Marks, President, The Climate Advisor
G5.2 CARBON CREDIT CAPITAL - DECISION SUPPORT TOOL FOR COST EFFECTIVE COMPLIANCE TO AB-32 CAP-AND-TRADE
 Luca Nencetti, Director of Engineering, Carbon Credit Capital, LLC
G5.3 KICK-OFF FOR CALIFORNIA'S AB 32: HOW WILL THE MARKET WORK?
 Andrew Van Horn, Managing Director, Van Horn Consulting
G5.4 CARBON PROJECT TYPES TARGETED FOR CALIFORNIA COMPLIANCE MARKET PROTOCOLS
 Dick Kempka, Vice President Business Development, The Climate Trust
G5.5
 Steve Fine

3:30PM - 5:30PM G6. GHG STRATEGIES - POST KYOTO

Session Sponsor and Co-Chair
G6.1
 Olof Bystrom Ph.D, Team Lead - Project Assessments, UNFCCC
G6.2
 Dirk Forrester, IETA
G6.3 CARBON FOOTPRINT OF A PRESIDENTIAL ELECTION
 Art Samberg, Senior Consultant, Golder Associates Inc.
G6.4 THE EMERGING POST-KYOTO CLIMATE POLICY FRAMEWORK AS EXPLAINED THROUGH NEW ENVIRO-ECONOMIC METRICS
 (m) Stephen Sewalk, Assistant Professor, University of Denver; Vincent Buscarello



G7. CCS: CARBON CAPTURE & STORAGE

G7.1 CARBON CAPTURE UTILIZATION & STORAGE (CCUS) KNOWLEDGE BASED TOOLS FROM THE DOE/NETL CARBON STORAGE
 Brian Dressel, Project Manager, DOE/National Energy Technology Laboratory; John Litynski
G7.2 CO2 CAPTURE VIA SORBENT ENHANCED WATER GAS SHIFT
 William Steen, Sr. Chemical Engineer, URS; Carl Richardson & Tom Machalek, URS; Yongqai Lu, Hong Lu & Massoud Rostam-Abadi, ISGS; Elaine Everitt, DOE
G7.3 ENZYMATIC TECHNOLOGY FOR LOW-COST CARBON DIOXIDE CAPTURE
 Jonathan Carley, Vice-President - Business Development, CO2 Solutions Inc.; Dr. Luan Nguyen, Codexis, Inc.; Dr. Sylvie Fradette, CO2 Solution Technologies Inc.; Dr. Geert Versteeg, Procede Group BV
G7.4 A CASE STUDY OF PERFORMANCE, COST & FEASIBILITY OF A CO2 CAPTURE-READY COAL POWER PLANT
 Eric Grol, Energy Analyst, U.S. Department of Energy/National Energy Technology Laboratory; Steve Herron & Paul Myles, Worley Parsons
G7.5 INTEGRATION OF SHALE GAS PRODUCTION WITH CCS
 Jincheng Wang, Research Scientist, CanmetENERGY, Natural Resources Canada; David Ryan, Edward J. Anthony, Andrew Wigston
G7.6 FUNDING MECHANISMS ADDRESSING THE LONG-TERM LIABILITY OF CCS ACTIVITIES
 Terry Unger, Associate, ICF International; Kerry Schlichting

7:30AM - 9:30AM
 Session Sponsor and Co-Chair

G8. CCS II

G8.1 POST-COMBUSTION CO2 CAPTURE & THE RELATIVE BENEFITS OF SOLID SORBENTS
 Travis Starns, Director of Projects, ADA-ES, Inc.; Holly Krutka, Martin Dillon, Sharon Sjoström
G8.2 500 MTPD COAL-FIRED CO2 CAPTURE PROJECT UPDATE, INCLUDING MHI AMINE EMISSION REDUCTION TECHNOLOGY & HEAT INTEGRATION SYSTEM
 Steven Holton, Dir. Business Development, Mitsubishi Heavy Industries America, Inc.; Steven Holton, Tatsuya Tsujiuchi, Takahito Yonekawa, & Paul Wood, MHIA; Takuya Hirata, Hiromitsu
G8.3 APPLICATION OF A NOVEL FROTH-BASED STRUCTURED PACKING FOR ABSORPTION BASED POST COMBUSTION CCS
 Zhenshuo Liu, Sr. Staff Engineer, Westec Environmental Solution; William H. Hargrove, Frank Hubner
G8.4 CARBON CAPTURE & STORAGE AT NATURAL GAS COMBINED CYCLE POWER PLANTS IN CALIFORNIA
 Julian Isham, Geology Manager, Shaw E&I
G8.5 THE PLAINS CO2 REDUCTION (PCOR) PARTNERSHIP: A REGIONAL CARBON SEQUESTRATION PARTNERSHIP IN THE INTERIOR PLAINS OF NORTH AMERICA
 Edward Steadman, Deputy Associate Director for Research, Energy & Environmental Research Center; J. Harju, C. Gorecki, L. Botnen, D. Daly, W. Peck, M. Jensen, S. Smith, J. Sorensen, J. Hamling, R. Klapperich & K. Anagnost
G8.6 EVALUATION OF CO2 CAPTURE FROM EXISTING COAL FIRED PLANTS BY HYBRID SORPTION USING SOLID SORBENTS (CACHYS™)
 Nicholas Lentz, Associate Director for Energy Technology Applications, University of North Dakota; Charles K. Thumbi, Daniel A. Laudal & Steven A. Benson, UND; Srivats Srinivasachar, Envergen LLC

10AM - 12PM
 Session Sponsor and Co-Chair

G9. CCS III

G9.1 EVALUATION OF ADVANCED SOLVENTS & OTHER COMPETING TECHNOLOGIES FOR CO2 CAPTURE FROM FOSSIL FUEL-FIRED SYSTEMS
 Brandon Pavlish, Research Manager, Energy & Environmental Research Center University of North Dakota, Nathan Fiala & John Kay
G9.2 HITACHI'S CARBON DIOXIDE SCRUBBING TECHNOLOGY WITH H3-1 ABSORBENT FOR COAL FIRED POWER PLANTS
 Eiji Miyamoto, Engineering Researcher, Babcock-Hitachi K.K.; Koichi Yokoyama, Shigehito Takamoto, Hirofumi Kikkawa, Toshio Katsube, Jun Shimamura (Babcock-Hitachi K.K.), Song Wu, Sandhya Eswaran (Hitachi Power Systems America, Ltd.)

1PM - 3PM
 Session Sponsor and Co-Chair

Monday | January 28

1PM - 3PM

H1. ALGAESession Sponsor
and Co-Chair**H1.1 RENEWABLE SOLAR BIOBUTANOL PRODUCTION UTILIZING CARBON DIOXIDE AS THE SOLE FEEDSTOCK**

Bruce Dannenberg, CEO & Founder, Phytonix Corporation

H1.2 UTILIZATION OF LIQUID EFFLUENT FROM AN ANAEROBIC DIGESTER (DLE) AS A NUTRIENT SOURCE FOR ALGAE GROWTH

(m)Greg Karr, Program Manager, MRIGlobal; Jennifer Jackman, Scott Shore & Kristine Krebs

H1.3 WATER SUSTAINABILITY THROUGH THE USE OF AN ALGAE-BASED ADVANCED BIOLOGICAL TREATMENT

Rick Johnson, Director, Business Development, AlgEvolve

H1.4 ENERGY & WATER RESOURCE EFFICIENT PRODUCTION OF MICROALGAE LIPIDS

Kelsey Price, Student Researcher, University of New Hampshire; Ihab Farag

H1.5 ALGAE GROWTH IN PHOTOBIOREACTORS USING A REMOVABLE JACKET OF COLORED LEDS

Daniel Eltringham, Student Researcher, University of New Hampshire; Marian Elmoraghy & Ihab Farag

3:30PM - 5:30PM H2. BIOFUELS / ETHANOL / BIODIESELSession Sponsor
and Co-Chair**H2.1 EVALUATION OF AS-RECEIVED & PRETREATED NORTHEAST BIOMASS FOR PRODUCTION OF BIOFUELS & VALUE-ADDED PRODUCTS**

Nii Ofei Mante, Research Associate - Thermochemical Conversion Research, Brookhaven National Laboratory; Thomas E. Amidon & Timothy A. Volk (1) & Suresh P. Babu (2)

H2.2 CATALYTIC CONVERSION OF SYNTHESIS GAS INTO FUEL ETHANOL

Girish Srinivas, Principal Engineer, TDA Research, Inc.; Michael V. Mundschau, Erik W. Andersen, Steven D. Dietz, Brady J. Clapsaddle & Steven C. Gebhard

H2.3 POST ELECTION POLITICS & CELLULOSIC ETHANOL DEVELOPMENT

Christopher Standlee, Executive Vice President, Abengoa Bioenergy

H2.4 STATISTICAL OPTIMIZATION OF ENZYMATIC HYDROLYSIS OF OIL PALM TRUNK FOR PRODUCTION OF GLUCOSE, XYLOSE & ETHANOL

Pongsak Noparat, Student, Department of Industrial Biotechnology, Faculty of Agro-Industry, Prince of Songkla University; Sompong O-Thong, Poonsuk Prasertsan

H2.5 UTILIZATION OF AN AIR BLANKET TO KEEP BIODIESEL DRY

Scott Grossbauer, Global Sales Manager, Donaldson Company

Tuesday | January 29

7:30AM - 9:30AM H3. BIOMASSSession Sponsor
and Co-Chair**H3.1 EUCALYPTUS PLANTATIONS IN FLORIDA USA: ECONOMIC ANALYSIS OF BIO-ENERGY & CARBON SEQUESTRATION POTENTIAL**

Jeff Wright, Manager, Hardwood Development, ArborGen Inc

H3.2 INNOVATIONS IN FLUIDIZED BED TECHNOLOGY: IMPROVING EFFICIENCY WITH INBED HEAT TRANSFER & STAGED GASIFICATION

Patrick Travis, Business Development Manager, Outotec Energy Products

H3.3 CFD MODELING OF BIOMASS COMBUSTION FOR A 500MW COAL-FIRED BOILER CONVERSION

Baiyun Gong, Staff Scientist, Nalco Mobotec; Guisu Liu, Liming Shi, Brian Higgins & Ed Pozzobon

H3.4 PRODUCTION & PROPERTIES OF SOLID FUELS FROM HYDROTHERMAL CARBONIZATION (HTC) OF LIGNO-CELLULOSIC BIOMASS

S. Kent Hoekman, Research Professor, Desert Research Institute; Larry Felix, Gas Technology Institute; Grady Coble, Parker Towing Company

Tuesday | January 29

H4. BIO & WASTE ENERGY

10AM - 12PM

H4.1 PERMITTING A NEW & INNOVATIVE WASTE CONVERSION TECHNOLOGY IN NEW JERSEY

Alan Sawyer, Managing Director, NRG Energy, Inc.; Greg Seher, Atlantic County Utilities Authority; Marcus Scrimgeour & Greg McCarran, SCS Engineers, PC

H4.2 CARBON CAPTURE FROM CEMENT FLUE GAS & CONVERSION OF CARBON TO NEW VALUE IN BIOPLASTICS

(m)John Kline, Principal, John Kline Consulting; Brian Sefton & Shannon LaGuardia, Oakbio Inc.

H4.3 BRINGING BIOGAS TECHNOLOGY TO ORGANIC WASTE MARKETS IN THE US

Emily Viau, CEO, Bioenergy Frontiers, Inc

H4.4 PARTNERING WITH COAL: PROGRESS, OPPORTUNITIES & CHALLENGES WITH MSW-DERIVED FUELS

Mark Hall, Executive Vice President, Lakeside Energy/Dongara; Melissa Hillman, Trinity Consultants

H4.5 SUSTAINABILITY IN AN URBAN ENVIRONMENT THROUGH ANAEROBIC DIGESTION

John McDowell, Project Manager, Eisenmann Corporation

H5. BIOGASIFICATION & SWM

1PM - 3PM

H5.1 BIOMETHANE VEHICLE FUEL

Harrison Clay, President, Clean Energy Renewable Fuels

H5.2 BIOCHAR. A SOLUTION FOR SOLID WASTE MANAGEMENT

Ricardo Aguirre, Director of Stormwater Engineering, CVL Consultants

H5.3 DISTRIBUTED-SCALE BIOMASS GASIFICATION POWER

Chris Zygarlicke, Deputy Associate Director for Research, Energy & Environmental Research Center

H5.4 BIOCHAR UTILIZATION IN AN INTEGRATED SYSTEM FOR BIOENERGY CROP PRODUCTION & CARBON SEQUESTRATION

(m)Greg Karr, Program Manager, MRIGlobal; Andrew Miller, Ryan Krause & Donnie Bowman, MRIGlobal; Nathan Nelson & Arthur Fink, Kansas State University

H6. COFIRING IN POWER PLANTS

3:30PM - 5:30PM

H6.1 LOW-CARBON CO-FIRING

Paula Calabrese, Senior Vice-President & Chief Strategy Officer, ReCommunity Energy LLC

H6.2 ZERO WASTE POWER PLANTS USING PLASMA GASIFICATION TECHNOLOGY

Louis Circeo, Chief Scientist, Applied Plasma Arc Technologies, LLC

H6.3 GIANT KING GRASS AS AN ENERGY CROP IN THE UNITED STATES

Carl Kukkonen, CEO, VIASPACE Inc.

H6.4 COOL PLASMA GASIFICATION

(m)Kris Skrinak, President, adaptiveARC, Inc.

H7. BIOMASS - SWM/ LFG

7:30AM - 9:30AM

H7.1 ENERGY FROM MUNICIPAL SOLID WASTE WITH ZERO CARBON EMISSION

Surendra Saxena, Professor, CleanHydro-Innovision

H7.2 CASE STUDIES DEMONSTRATING VIABLE LFG BENEFICIAL USE PROJECTS AT SMALL LANDFILLS

Brian Stuver, Client Service Manager, Joyce Engineering

H7.3 LANDFILL GAS-TO-ENERGY: SOLUTION OR PROBLEM?

Mike Ewall, Director, Energy Justice Network

E7.4 KEY CONSIDERATIONS FOR LANDFILL GAS TO METHANE PROJECTS

(m)Joel Cervelloni, Principal Consultant, PA Consulting; TBD

Wednesday | January 30

Session Sponsor
and Co-Chair

Monday | January 28

1PM - 3PM

11. ENERGY SUSTAINABILITY**11.1 RENEWABLE ENERGY - SHOW ME THE GREEN!**

Greg Odegard, Consultant, GO Environmental

11.2 GREEN CLAIMS & GREENWASHING - THE GRASS REALLY GREENER?

Charles Franklin, Senior Counsel, Akin Gump Strauss Hauer & Feld

11.3 SUSTAINABLE ENERGY FUTURES: DEVELOPMENT & APPLICATION OF A STRATEGIC ENVIRONMENTAL ASSESSMENT PROCESS FOR ELECTRICITY SECTOR PLANNING

Lisa White, Environmental Engineer, Clifton Associates Ltd.; Bram Noble, University of Saskatchewan

11.4 YESAB - THE YUKON WAY

Ken McKinnon, Executive Committee Member, Yukon Environmental & Socio-economic Assessment Board

11.5 OPTIMAL USE OF ALTERNATIVE ENERGY SOURCES FOR SUSTAINABLE ENERGY MANAGEMENT

Duane Rosa, Professor of Economics, West Texas A&M University

11.6 COLLABORATIVE ADVANCEMENT OF SUSTAINABILITY IN THE ELECTRIC POWER INDUSTRY

Jessica Fox, Manager Sustainability, EPRI; Todd Maki

3:30PM - 5:30PM

12. SUSTAINABILITY PROJECTS**12.1 SUSTAINABLE ALTERNATIVES: REDUCING FOSSIL FUELS CONSUMPTION IN MILITARY FAMILY HOUSING COMMUNITIES**

Ryan Mielke, Senior Marketing Manager, Lend Lease; John Karelis

12.2 SUSTAINING THE LIFE OF A HISTORIC STRUCTURE: REMEDIATION OF THE NV ENERGY ELKO, NEVADA POWERHOUSE USING OZONE OXIDATION

Edward Handl, Division Manager, JBR Environmental Consultants, Inc.; Jason Benson, NV Energy

12.3 CREATING THE MINDSET OF SUSTAINABILITY

Warren Te Bruuge, CEO & Founder, Manzimvula Ventures, Inc.

12.4 EMPLOYEE ENGAGEMENT & PROJECT INVESTMENTS: CREATING A SUSTAINABILITY CONTINUUM

Devin Hodge, Sustainability Program Manager, Argonne National Laboratory

12.5 WIRE & CABLE EFFICIENCY

Evan Birenbaum, Program Manager, Southern California Edison; Carol Godfrey, Southwire

Tuesday | January 29

7:30AM - 9:30AM

13. SUSTAINABILITY REPORTING**13.1 SUSTAINABILITY: MORE THAN "CHECKING THE BOX"**

(m)Joel Cervelloni, Principal Consultant, PA Consulting, TBD

13.2 PRIDE & PREJUDICE – REPORTING IN CIVIL SOCIETY IN THE 21ST CENTURY

Yolanda Pagano, Director, Sustainable Strategies & Solutions, O'Brien & Gere

13.3 RAISING THE BAR: NEW CHALLENGES FOR CORPORATE SUSTAINABILITY REPORTING

Jacob Kislewitz, Senior EHS&SR Specialist, Hess Corporation; Michal Pelzig

13.4 SUSTAINABILITY REPORTING & VERIFICATION: A SYMBIOTIC RELATIONSHIP

(m)John Fillo, Principal Consultant, Trinity Consultants, Inc.

Tuesday | January 29

10AM - 12PM

14. 316B**14.1 SELECTION OF BEST TECHNOLOGY AVAILABLE FOR 316(B) COMPLIANCE**

David Bailey, Sr. Project Manager, EPRI

14.2 EPA'S PROPOSED EFFLUENT GUIDELINES & 316(B) RULES – OPERATING IN THE MIDST OF UNCERTAINTY

Averil Edwards, Associate, Winston & Strawn LLP

14.3 A NEW LOOK AT THE 316(B) COOLING WATER INTAKE RULE - NOW WHAT?

Manitita Moultrie, U. S. Power Sector Leader, Golder Associates

14.4 WHAT DO EPA'S NEW 316(B) COOLING WATER INTAKE STRUCTURE REGULATIONS MEAN TO EXISTING POWER GENERATION

Stephen Petron, Global Ecosystem Services Director, CH2M HILL; Christopher Wiggins

14.5 STRATEGIES FOR COMPLIANCE WITH UPCOMING 316(B) REQUIREMENTS

Erik Heinen, Sr. Scientist, Environmental Consulting & Technology; Mark Gerath & Steve Cibik, ECT

14.6 COMPARISON OF ENTRAINMENT AT ADJACENT INTAKES WITH & WITHOUT LARGE SLOT-WIDTH WEDGE-WIRE SCREENS: A CASE FOR WEDGE-WIRE SCREENS TO REDUCE ENTRAINMENT

Robert Blye, Vice President, Normandeau Associates, Inc; Paul L Harmon & Brian Lees, Normandeau; Robert Matty, Exelon Power; Jason Kinnel, Veritas Economic Consulting

Session Sponsor
and Co-Chair**15. WATER SUSTAINABILITY****15.1 DEVELOPMENT OF POTENTIAL GAME CHANGING COOLING TECHNOLOGIES FOR POWER PLANT WATER CONSERVATION**

Jessica Shi, Sr. Project Manager, Electric Power Research Institute; Sean Bushart

15.2 USE OF NON-DISINFECTED MUNICIPAL EFFLUENT

John Oster, Water Engineer, CH2M HILL; Charlie Nichols

15.3 TAKING ZEEWEED* MBR TECHNOLOGY TO THE NEXT LEVEL

Brian Arntsen, Global Domain Leader UFMBR, GE Water & Process Technologies

15.4 COMMERCIAL ENERGY EFFICIENT WASTEWATER TREATMENT & WATER REUSE - IMET TECHNOLOGY

Mehmet A. Gencer, CEO, IMET Corporation

15.5 ZERO LIQUID DISCHARGE FOR COMPLIANCE

Kristen Jenkins, Global Technology Lead - Industrial Water, CH2MHILL; Thomas Higgins

15.6 NEW AERATOR FOR WASTE LAGOONS

Jim Dartez, President, Reliant Water Technologies

15.7 USE MUNICIPAL RECLAIM WATER & HIGH CYCLES OF CONCENTRATION FOR COOLING TOWERS - SAVE WATER & ENERGY - BUT WAIT, THERE'S MORE....

Ivan Cooper, Practice Leader, Golder Associates

1PM - 3PM

Session Sponsor
and Co-Chair

3:30PM - 5:30PM

Session Sponsor
and Co-Chair**16. WATER & ELECTRIC UTILITIES****16.1 UNDERSTANDING THE ENERGY/WATER NEXUS & DEVELOPING CONSENSUS-BASED SOLUTIONS**

Mary Doyle Kenkel, Executive Director, Center to Advance Energy & Water Management

16.2 MHI'S SIMPLE ZERO LIQUID DISCHARGE SYSTEM FOR WET FGD

Shintaro Honjo, Research & New Technologies Engineering Manager, Mitsubishi Heavy Industries America, Inc.; M. Ito, N. Inaba, & S. Sugita, MHI America, Inc.; T. Ushiku, T. Nagayasu, T. Fukuda & S. Kagawa, MHI, Ltd.

16.3 AN OVERVIEW OF THE WATER RESEARCH CENTER

Jeff Wilson, Principal Research Engineer, Southern Company; Richard Breckinridge EPRI; Jay Wos SRI

16.4 DESIGN & OPERATIONAL CHALLENGES ASSOCIATED WITH CONDITIONING

Zachry Bahr, Mechanical Engineer, Burns & McDonnell

16.5 WATER RISK & OPPORTUNITY FOR ELECTRIC UTILITIES

Peter Flaherty, Sr. Engineer, ERM; Skelly Holmbeck

16.6 IMPINGEMENT MONITORING & MODELING AT 15 POWER PLANTS ON THE OHIO RIVER

Greg Seegert, Chief Ichthyologist, EA Engineering, Science, & Technology; Ron King, Joe Vondruska, Doug Dixon

16.7 ADDRESSING THE NEW EFFLUENT STANDARDS THROUGH PLANT-WIDE MANAGEMENT

Andrew Byers, Associate VP, Black & Veatch; Mike Preston

Wednesday | January 30

7:30AM - 9:30AM 17. WATER - REGULATORY UPDATESSession Sponsor
and Co-Chair**17.1 CALIFORNIA STORM WATER & RENEWABLE ENERGY & ELECTRIFYING MIX**

S. Wayne Rosenbaum, Partner, Stoel Rives LLP

17.2 ELECTRIC POWER RESEARCH INSTITUTE (EPRI) FISH PROTECTION R&D REVIEW: FINE MESH (=2.0 MM) TRAVELING WATER SCREENS & FISH RETURN SYSTEM PERFORMANCE

Douglas Dixon, Technical Executive, Electric Power Research Institute; Jon Black, Alden Research Laboratory

17.3 RECENT CHANGES IN STATES' SUSTAINABLE WATER USE POLICY

David Van Wie, Associate, AMEC Environment & Infrastructure

17.4 THE EVOLVING REGULATION OF THERMAL DISCHARGES

Erik Heinen, Senior Scientist, Environmental Consulting & Technology; Mark Gerath, Steve Cibik & Larry Danek

10AM - 12PM

18. SUSTAINABILITY GREENSession Sponsor
and Co-Chair**18.1 DODO-SAPIENS: WHY WE NEED REGENERATIVE, BIO-BASED BUILDINGS**

(m)Eric Corey Freed, Founding Principal, organicARCHITECT

18.2 BIODEGRADABLE HYDRAULIC OILS & CLEANERS

Dr. Todd Tarrant, President, Hydro Safe, Inc.

18.3 SPILLS, SINS & STARBUCKS: HOW WE DESIGNED OUR CITIES AROUND OIL

(m)Eric Corey Freed, Founding Principal, organicARCHITECT

18.4 ACCELERATING SUSTAINABILITY SOLUTIONS FOR ORGANIZATIONS

Raj Buch, Practice Lead, Arizona State University

18.5 FRESHWATER FREE FOOD PRODUCTION WITH NO WASTE

(m)Mark Edwards, Professor, ASU

18.6 CLIMATE INDEPENDENT FOOD PRODUCTION WITH ALGAE

(m)Mark Edwards, Professor, ASU

Monday | January 28

J1. ENERGY EFFICIENCY

1PM - 3PM

J1.1 ENERGY EFFICIENCY THROUGH POWER ELECTRONICS: NAVIGATING THE LANDSCAPE & ASSESSING OPPORTUNITIES FOR MATERIALS INNOVATION

Pallavi Madakasira, Analyst, Lux Research

J1.2 COGENERATION UPGRADES FOR INCREASED ENERGY EFFICIENCY

Arvind Akela, Project Manager, CDM Smith

J1.3 DOING WELL & GOING GOOD: PROFITING IN THE HOME PERFORMANCE BUSINESS

Mark Berman, Principal, Davis Energy Group

J1.4 COLLABORATION FOR SMALL BUSINESS ENERGY EFFICIENCY SUCCESS

Judy Sunde, Project Manager Market Strategies, Omaha Public Power District; Kristi Wamstad-Evans, City of Omaha

J1.5 MOVING THE HOUSING MARKET TO ENERGY EFFICIENCY

Steve Baden, Executive Director, RESNET

J1.6 HIGH INTENSITY LIGHTING WITH NEXT GENERATION LIGHT SOURCES: A TECHNOLOGY SURVEY WITH KEY PRODUCT INSIGHTS

Ahmed Shuja, CTO, BritePointe Inc.

Session Sponsor
and Co-Chair**J2. ENERGY MGMT**

3:30PM - 5:30PM

J2.1 ISO 50001 - IMPLEMENTATION & ALTERNATIVES

Bryan Chen, Senior Engineer, ARCADIS US; William Allemon

J2.2 ENERGY MANAGEMENT IMPLEMENTATIONS USING ISO 50001 & SEP - CRITICAL RISK & BUSINESS ECONOMIC BENCHMARK'S

Don MacDonald, Director - Sustainability & Energy Management, UL DQS

J2.3 CUSTOMER ENGAGEMENT BEYOND CUSTOMER ENROLLMENT

Gail Allen, Sr. Manager - Customer Solutions, KCP&L

J2.4 ON-BILL REPAYMENT PROGRAMS SPUR GREEN JOBS, CLEAN ENERGY & RATEPAYER SAVINGS

Brad Copithorne, Director of Financial Innovation, Environmental Defense Fund

J2.5 HARNESSING WASTED ENERGY FROM GAS PIPES

Lee Palles, Vice President - Sales & Marketing, Langson Energy; Richard Langson

J2.6 THE BENEFITS OF REAL TIME ENERGY PRICING FOR UTILITIES & THEIR CUSTOMERS

Pritesh Gandhi, CEO, Ambient Devices

Session Sponsor
and Co-Chair

Tuesday | January 29

J3. SMART GRID

7:30AM - 9:30AM

J3.1 CYBER SECURITY IMPLEMENTATION APPROACH FOR UTILITY SMARTGRID INITIATIVES

(m)Jerome Farquharson, Practice Manager, Burns & McDonnell Engineering; Rahul Chhabra

J3.2 INTEGRATED SMART GRID POWER DISTRIBUTION & ENERGY CONSERVATION SYSTEM FOR REMOTE & EXTREME CONDITIONS

Frank Pendleton, Program Manager, MRIGlobal; Sayan Chakraborti & Scott Klamm

J3.3 HURRICANE SANDY TURNS SMART GRID PLANS UPSIDE DOWN

John Finnigan, Senior Regulatory Attorney, Environmental Defense Fund

J3.4 EXTRACTING VALUE OUT OF AMI DATA

(m)Peter Siggins, Partner, PA Consulting Group

J3.5 ACHIEVING CONSUMER ENGAGEMENT REQUIRES MORE THAN SOCIAL MEDIA, A DIGITAL STRATEGY IS ESSENTIAL

(m)Peter Siggins, Partner, PA Consulting Group

Session Sponsor
and Co-Chair

10AM - 12PM J4. ENERGY EFFICIENCY & MGMT I

Session Sponsor and Co-Chair

J4.1 APPLICATION OF THE DRYFINING™ TECHNOLOGY AT EXISTING POWER UNITS FIRING LOW-RANK COAL

(m)Charles Bullinger, Senior Principle Engineer, Great River Energy; Vlad Vaysman & Yixin Lu, Worley Parsons

J4.2 EDUCATION & COLLABORATION WILL HELP US BECOME MORE ENERGY EFFICIENT SOCIETIES

Chris Hartmann, Executive Vice President & CEO, Rexel Holdings USA

J4.3 IMPACTS OF SEVERE WEATHER PHENOMENA ON THE ELECTRICITY INFRASTRUCTURE

Michael Kintner-Meyer, Staff Engineer, Pacific Northwest National Laboratory; Jim Dirks, Chunlian Jim, Will Gorrissen, Jennie Rice

J4.4 NEW BIO-CONTROL APPROACH BOOSTS POWER PLANT PRODUCTION BY 10%

Tom Muilenberg, Commercial Operations Manager, MIOX Corporation

J4.5 RESULTS & LESSONS LEARNED FROM A BEHAVIOUR-BASED CONSERVATION PILOT PROGRAM FOR SMALL BUSINESSES

Owen Rogers, Lead Developer, Pulse Energy

1PM - 3PM

Session Sponsor and Co-Chair

Ryn Hamilton CONSULTING
Ryn Hamilton

J5. DEMAND RESPONSE

J5.1 ROLE OF DEMAND RESPONSE BASELINES IN ESTIMATING PARTICIPANT IMPACTS

Ryn Hamilton, Consultant, Ryn Hamilton Consulting; Mark Martinez, Southern California Edison

J5.2 DEMAND RESPONSE ENVIRONMENTAL IMPACT STUDY

Rebecca Butler, Field Operations Project Manager, EnerNOC, Inc.

J5.3 IMPORTANCE OF AVAILABILITY PAYMENTS TO DEMAND RESPONSE

Aaron Breidenbaugh, Director of Regulatory Affairs, EnerNOC, Inc.; Phil Martin & Dr. Paul Troughton

J5.4 MARKET SOLUTIONS TO INCENTING ENERGY EFFICIENCY

Craig Glazer, Vice President Federal Govt. Policy, PJM Interconnection

J5.5 DEMAND RESPONSE & THE VALUE IT OFFERS UTILITY, COMMERCIAL, & INDUSTRIAL USERS

Laurie Wiegand-Jackson, CEO & President, North America Power Partners

3:30PM - 5:30PM J6. ENERGY CONSERVATION & STORAGE

Session Sponsor and Co-Chair

J6.1 GRID STORAGE UNDER THE MICROSCOPE: USING LOCAL KNOWLEDGE TO FORECAST GLOBAL DEMAND

Hilary Flynn, Senior Analyst, Lux Research; Brian Warshay, Steven Minnihan, Matthew Feinstein

J6.2 MACRO LEVEL ENERGY HARVESTING

(m)Gare Henderson, Director of R&D, Gravitational Systems Engineering, Inc.

J6.3 ENERGY CONSERVATION HYBRID STREET SWEEPER

Toshihiko Furukawa, Senior Manager, United Chemi-Con; Abas Goodarzi, Ph.D US Hybrid Corporation

J6.4 REGULATION, DEVELOPMENT & FINANCING OF GRID-SCALE ENERGY STORAGE SYSTEMS

Donald Ousterhout, Partner, Reed Smith LLP; Amy Koch

J7. ENERGY EFFICIENCY & MGMT II

7:30AM - 9:30AM

J7.1 INTERN PROGRAM HELPS INDUSTRIES ACHIEVE ENERGY & WATER SAVINGS

David Carter, Pollution Prevention Specialist, Kansas State University

J7.2 WHAT BUSINESSES CHOOSE ENERGY RETROFITS? THE CHARACTERISTICS THAT PREDICT PARTICIPATION IN THE ENERGIZE PHOENIX PROJECT

Michael Kuby, Professor, Arizona State University; Anna Berlin, Samantha Neufeld, Scott Kelley, George Oliver, Michael Dalrymple, Alex Castelazo

J7.3 OPPD INTERN BENCHMARKS HEALTHCARE CONSORTIUM FOR ENERGY EFFICIENCY SUCCESS

Andrew Smith, Energy Efficiency Intern, Kansas State University

Session Sponsor and Co-Chair

J8. POWER PLANT OPERATIONS & EFFICIENCY

10AM - 12PM

J8.1 RECAPTURING LOST MW & BOOSTING PLANT EFFICIENCY FROM LOWER RANK COALS

(m)Charles Bullinger, Senior Principle Engineer, Great River Energy

J8.2 IMPROVING BOILER PERFORMANCE AT XCEL'S COMANCHE STATION USING GE'S ZONAL COMBUSTION MONITORING SYSTEM

Antonio Marquez, Lead Engineer, General Electric; Neil Widmer, Santosh Nareddy & David Moyeda, General Electric; Gregory George, Xcel Energy

J8.3 VERSATILITY OF NEW GENERATION DS@ LOW NOX BURNER

Joe Brown, Aftermarket Services Product Manager, Hitachi Power Systems America; Peter Jin

J8.4 A STANDARDS BASED INFORMATION & OPERATIONS INTEGRITY MANAGEMENT MATURITY MODEL

(m)Sloane Whiteley, Senior Business Consultant, AVEVA

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Call the EUEC office (520-615-3535) or email info@euec.com

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B. GOLD NETWORK LUNCHEON SPONSOR – \$8,000

Your Logo on Monday & Tuesday 12 to 1 pm Luncheon Coupons

Help quench your target audience's appetite for new ideas, products and services that they are looking for. As a Network Lunch sponsor you will have your name and logo in front of conference attendees on each meal ticket, and signs during the luncheon on Monday or Tuesday, as well as a full page ad in the official show guide distributed to 2,000 delegates.

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Pre-Conference Workshops & Golf

Sunday, January 29th

1:00 pm to 5:00 pm

Workshop 1

Permitting & Compliance

Eric Hiser, Jorden, Bischoff & Hiser

This seminar will provide participants with critical information on new developments in clean air regulation, including recent developments in NAAQS, new source review, NESHAP regulation and GHG reporting. The seminar will also address current EPA enforcement priorities, planning and preparing for an inspection, and using the permit process to minimize your enforcement exposure.

Workshop 2

Challenges for Compliance With Short-term PM2.5, NO2, and SO2 Ambient Standards

Robert Iwanchuk, CCM (AECOM)
Robert Paine, CCM, QEP (AECOM)

This workshop will provide an overview of PM2.5, NO2, and SO2 NAAQS (and PSD increment, as appropriate) implementation and dispersion modeling procedures. It will also review the current status of litigation filed against USEPA to challenge the new 1-hour NAAQS for NO2 and SO2.

Workshop 3

Emerging Air Quality, Greenhouse Gas and Energy Requirements

Rich Pandullo, Trinity Consultants
Allan F. Bedwell, CantorCO2e

Power generators are facing a tsunami of emerging new regulations that will affect their ability to operate cost-effectively. These include Federal Clean Air Act regulations - such as the GHG Tailoring Rule, Boiler MACT, and Clean Air Transport Rule - that will impose new emission limitations and operational restrictions on combustion sources.



Golf Tournament

The Legacy Golf Resort
32nd St., Phoenix, AZ
Sunday January 27, 2013

7:30 am Breakfast
8:30 am shotgun start
1:00 pm Awards Luncheon



Cost:

\$140 with clubs
\$100 without clubs

Includes:

Green fees, cart, range balls, bag handling, gratuities & commissions
Breakfast & Awards Lunch in Pavilion.

Check Option for Golf Tournament when you register online or

Contact:

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Ph: 520-615-3535

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1st Prize:

EUEC 2014 Registration for you and a guest with hotel included, entry into 2014 EUEC Golf tournament and the second annual EUEC Golf Trophy

All participants receive a free entry into a \$10,000 hole in one contest

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Your **one page company advertisement** in the EUEC Program Guide **distributed to 2,000 delegates.**

Full page (if received by Dec. 31st) — \$1,000

Submit your 6" x 9" (with 1/4" bleed) advertisement in pdf (x-3 or higher) in CMYK color format

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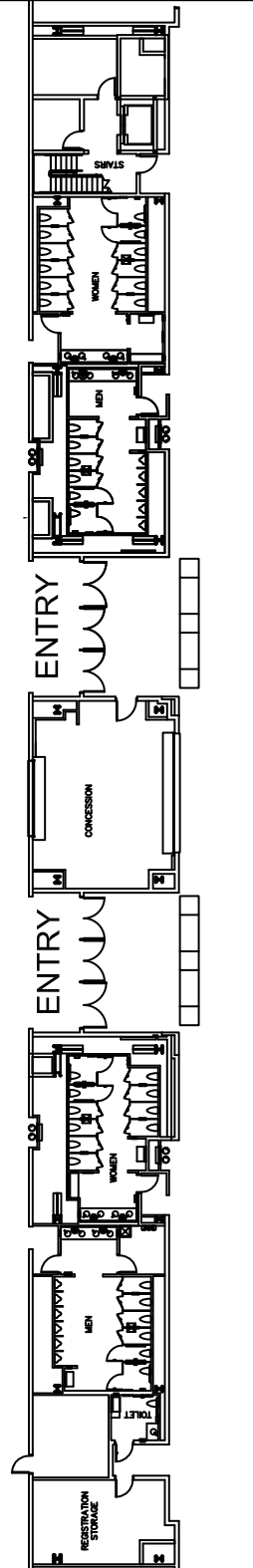
\$4500 Exhibit Booth Includes:

- One 10'x10' booth
- 6' draped table, two chairs, waste basket & carpet
- One exhibitor registration
- Resource book with attendee list
- 8 Networking functions in Exhibit area
- 10 free Network Reception passes for clients
- One speaking opportunity
- Flash drive with 600 PowerPoint & audio
- Marketing company logo, website link and contact info
- Additional exhibitors discounted to \$695 (\$1395 regular)

Aitech Environ. 141	Erablon 238	CRC 241	Southern Environ. 340	Telechyme API 341	Spectrum 440	Avogadro Group 441	Air Hygiene 640
139	239	239	338	339	Tank 438	439	ADA-CS 638
Energy & Environmental Enterprises 135	PennWell 234	235	Mclvaine 334	Contec 335	Sentis 434	Catalyst Air Mgmt 435	Siemens 634
Timly Services 133	Power 232	Airtox 233	Grand Canyon 332	ICL-IP 333	432	Sega 433	Goldier 632
STAT Analysis 129	PE International 228	Carwright 229	STI CEMS 328	Trinity Control 329	MET 428	United Conveyor 429	C.E.M. Solutions 628
US Lime 127	GEA EGI 226	AECOM 227	AIRGas 326	DHS ICOS-CEM Analyzers 327	Universal Analyzers 426	CEC 427	ADA-ES 626
EA Engineering 123	222	Miss. Lime 223	Ashtead 322	RMB 323	422	Durang 423	BASF 622
Parker Hamlin 121	Great Lakes Sales 220	Shelter One 221	Burns & McDonnell 320	FMC 321	Metco 420	ES Systems 421	BNA 620
ECT 117	216	217	No-Tec 316	Tetra Tech 317	TRC 416	Nalco Air Protection 415	Enviros 616
Mitsubishi Heavy Industries 115	CDI 214	Babcock Power 215	STEAG Energy Services 314	QA Support 315	EES 414	CH2M HILL 414	414
UK Pavilion 109	209	Bechtel 209	Urs 309	408	Altech 608	Pall 409	608
101	200	Fuel Tech 200	201	300	VIM Tech 300	Abemate 201	Clean Air Engineering 400
					ERM 301	Shaw 401	EPRI 600

Praxair 740	United Chem-Con 840	Penna Pure 841	940
Babcock & Wilcox 639	Turner Environmental 739	839	Norit Americas 938
Coalogix 738	838		
US DOE GTP & ETP 735	Buhler 834	835	Pentair 934
NIST 733	832	833	932
Technical Heaters 629	Ohio Lumex 828	829	928
Kiewit 627	PCME 826	827	926
Novinda 623	Environ Supply 723	822	922
Gasmet 720	EQ 721	820	920
Carbonat 617	Telechyme Monitor Labs 717	816	916
Cisco 615	ENKON 715	814	914
Naatron, 609	EPA Systems 711	808	908
	Apex 709	801	900
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Red Carpet Center



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Phoenix, AZ 85004
Ph: (602) 262-2500
EUEC RATE: \$235



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Phoenix, AZ 85013
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EUEC 2013 Sponsorship Form



FAX TO: 1-602-296-0199
Registration Questions? View our website at www.euec.com or Contact EUEC at 1-520-615-3535 or info@euec.com.

Conference Sponsorship	Price	Amount
1. One page advertisement in show guide	\$1,000 <input type="checkbox"/>	
2. Technical session sponsor & logo ad	\$500 <input type="checkbox"/>	
3. Hotel key cards	\$8,000 <input type="checkbox"/>	
4. Your logo on flash drive EUEC proceedings	\$8,000 <input type="checkbox"/>	
5. Attendee lanyard and badge holders	\$8,500 - SOLD OUT <input type="checkbox"/>	
6. Attendee registration bags or folio	\$10,000 <input type="checkbox"/>	
7. Golf sponsor	\$5,000 <input type="checkbox"/>	

Event Sponsorships	Price	Monday	Tuesday
A. Platinum network reception sponsor	\$10,000	<input type="checkbox"/>	<input type="checkbox"/>
B. Gold network luncheon sponsor	\$8,000	<input type="checkbox"/>	<input type="checkbox"/>
C. Silver delegate breakfast sponsor	\$5,000	<input type="checkbox"/>	<input type="checkbox"/>
D. Bronze delegate event break sponsor	\$3,000	<input type="checkbox"/>	<input type="checkbox"/>

Total _____

Maximize your exposure as a sponsor at EUEC 2013: USA's largest Energy Utility & Environment Conference

- A variety of sponsorship packages designed to maximize your company's visibility
- You choose one of our exclusive packages or we can help you create one
- Create a package customized to fit your specific needs or desired investment level
- Sponsorship Program will help you focus directly on your target audience
- Each package promotes your leadership in the power generation market
- Provides maximum branding, recognition and return on investment.

Contact Information:

Name: _____

Company Name: _____

Address: _____

Email: _____ Phone: _____

Comment: _____

Send back to EUEC via either email, fax or mail

