

# Program At - A - Glance

USA's Largest  
**EUEC2014**  
 Energy, Utility & Environment Conference  
 Feb 3 - 5 | Phoenix, AZ

600 Speakers  
 2000 Attendees  
 200 Exhibits

17th Annual  
 Phoenix Convention Center  
 100 N. 3rd St., Phoenix, AZ 85004

Track	A	B	C	D	E	F	G	H	I	J
<b>Sessions</b>	<b>Air Policy &amp; Regulations</b>	<b>CEMS &amp; Modeling</b>	<b>Mercury Multi-Pollutant Control</b>	<b>Energy Policy &amp; Security</b>	<b>Renewable Energy</b>	<b>Operations &amp; Mgmt</b>	<b>GHG, Carbon Mgmt</b>	<b>Alternative Fuel Technologies &amp; CCS</b>	<b>Sustainability &amp; Water</b>	<b>Energy Efficiency &amp; Mgmt.</b>
<b>Room</b>										
<b>Monday   February 3</b>										
<b>1</b>	1:00PM to 3:00PM Regulatory Update	HCL Monitoring	Hg Control Demonstrations	Shale Gas /LNG/ Natural Gas	Renewable Energy Mgmt & Planning	Compliance Technologies & Strategies	Carbon Footprint & Green Projects	Fossil Fuel Innovations	Energy Sustainability	Energy Efficiency
<b>2</b>	3:30PM to 5:30PM Regulatory Update - GHG	CEMS & MATS	Hg Control & Activated Carbon	Fracking & Sustainable Development	Renewable Energy/Siting /Transmission	Decommissioning Power Plants	Tailoring Rule/NSR/ GHG -BACT	Biofuels / Landfill Gas!	Sustainability Projects	Energy Mgmt.
<b>Tuesday   February 4</b>										
<b>3</b>	7:30AM to 9:30AM NAAQS	PM, Opacity & Visibility	Control Technologies	Energy Policy & Security	Renewable Development Analysis	Power Plant & Boiler Optimization	GHG Strategies	Biomass / Cofiring in Power Plants	Wastewater Mgmt.	Smart Grid
<b>4</b>	10:00AM to 12:00PM NSR	SF6 & Emissions Monitoring	BART Case Studies	Energy & Climate	Renewable Project Development	EHS & EMIS Management	Corporate Strategies & Risk Mgmt.	CCS: Carbon Capture & Storage	316b	Energy Efficiency & Mgmt.
<b>5</b>	1:00PM to 3:00PM CAA: State Rights vs. Federal Oversight	SO2, SO3, NOX & Additives	Dry Sorbent Injection	Project Finance	Wind	Operations & Management	CA Cap & Trade & GHG Strategies	CCS II	Water Sustainability	Demand Response & Energy Efficiency
<b>6</b>	3:30PM to 5:30PM Compliance Strategies	Cement & PM	MATS	EHS & Risk Management	Solar/PV/ Batteries/ Storage	Coal ASH / CCP	Electric & Natural Gas Vehicles		Water & Electric Utilities	Energy Mgmt. II
<b>Wednesday   February 5</b>										
<b>7</b>	7:30AM to 9:30AM Permits & Compliance	Modeling I	Activated Carbon						Water - Regulatory Updates	
<b>8</b>	10:00AM to 12:00PM TRI, MACT, MATS	Modeling II	SCR						Water Management	
<b>9</b>	1:00PM to 3:00PM Air Policy & Regulations	Fabric Filters/ PM/Opacity	Control Technologies							



## PROGRAM GUIDE



Sunday, Feb 2nd, 2014

3rd Annual EUEC Golf Tournament 8am-1pm  
 Super Bowl Party & Welcome Reception 3-10pm

U.S. DEPARTMENT OF ENERGY  
 Mitchell Baer

EEL Edison Electric Institute  
 John Kinsman

EPRI ELECTRIC POWER RESEARCH INSTITUTE  
 Mike Miller

CG TRADE  
 Prabhu Dayal

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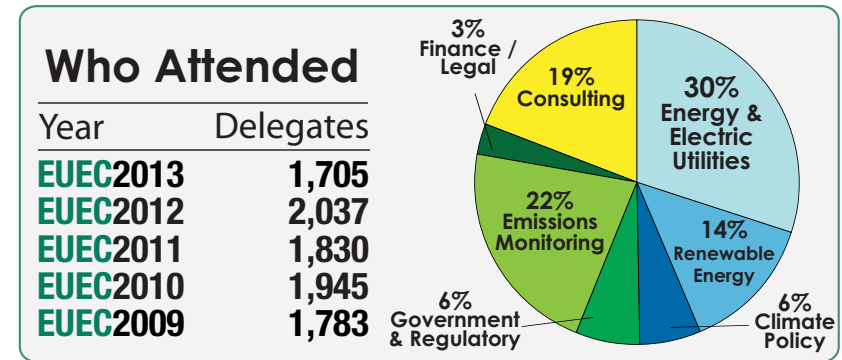
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# What is EUEC?

**EUEC2014:** The 17th Annual energy, utility & environment conference & expo is USA's largest professional networking & educational event of its kind held Feb 3-5, 2014 at the Phoenix Convention Center, Phoenix, Arizona.

### NETWORK MARKETING WITH 2,000 DELEGATES

at 11 lunches, receptions and breaks in 3-days in 200 company exhibit area.



### REGISTRATION COST INCLUDES:

- 11 networking meals tickets for 3 days ( \$300 value)
- EUEC Flash Drive with audio - (mailed after event) (\$495 value)
- Attend all 600 presentations & exhibits for 3 days

REGISTRATION COST	Nov 1	Dec 1	Jan 1	On-Site
Attendee Full	\$795	\$895	\$995	\$1,395
Speaker/Gov't/VIP	\$695	\$795	\$895	\$1,295

# 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.



**Mike Miller - Director, Environment, 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.

## EUEC2014 Exhibit & Network Schedule

### Sunday | Feb. 2nd

7:00 am - 7:00 pm Registration  
1:00 pm - 7:00 pm Exhibit Set-up

### Monday | Feb. 3rd

7:00 am - 7:00 pm Registration  
7:00 am - 10:00 am Carry in Set-up  
9:00 am - 12:00 pm Plenary Session  
**12:00 pm - 1:00 pm Network Lunch 1**  
1:00 pm - 3:00 pm Tech Session 1  
**3:00 pm - 3:30 pm Network Break 2**  
3:30 pm - 5:30 pm Tech Session 2  
**4:00 pm - 7:00 pm Network Reception 3**

### Tuesday | Feb. 4th

7:30 am - 9:30 am Tech Session 3  
**9:30 am - 10:00 am Network Break 4**  
10:00 am - 12:00 pm Tech Session 4  
**12:00 pm - 1:00 pm Network Lunch 5**  
1:00 pm - 3:00 pm Tech Session 5  
**3:00 pm - 3:30 pm Network Break 6**  
3:30 pm - 5:30 pm Tech Session 6  
**4:00 pm - 7:00 pm Network Reception 7**

### Wednesday | Feb. 5th

7:30 am - 9:30 am Tech Session 7  
**9:30 am - 10:00 am Network Break 8**  
10:00 am - 12:00 pm Tech Session 8  
12:00 pm - 4:00 pm Exhibit Tear Down

## 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.

# Keynote

Monday, February, 9:00 AM - 12:00 PM  
Phoenix Convention Center | 100 N. 3rd St. | Phoenix, AZ 85004



### EPA REGULATORY UPDATE

**Janet McCabe 9:00 AM - 9:30 AM**

Acting Assistant Administrator | U.S. Environmental Protection Agency



### ELECTRIC UTILITY SOLUTIONS FOR REGULATORY CHALLENGES

**Alan R. Hodnik — 9:30 AM - 10:00 AM**

Chairman, President & CEO | Allete



### FOSSIL ENERGY AND AMERICA'S ENERGY SECURITY

**Hon. Chris Smith — 10:00 AM - 10:30 AM**

Acting Assistant Secretary | Fossil Energy | U.S. Department of Energy



### ENVIRONMENTAL & ENERGY POLICIES

**Phil Sharp — 10:30 AM - 11:00 AM**

President | Resource for the Future



### THE CHALLENGE & PROMISE OF ENERGY SYSTEMS INTEGRATION

**Dr. Bryan Hannegan — 11:00 AM - 11:30 AM**

Associate Laboratory Director | National Renewable Energy Lab



### HIGHLIGHTS OF EUEC2014

**Dr. Prabhu Dayal — 11:30 AM - 12:00 PM**

Chairman | EUEC





Monday | February 3

Tuesday | February 4

1PM - 3PM

**A1. REGULATORY UPDATE**Session Sponsor  
and Co-Chair**A1.1 CAA REGULATION OF POWER GENERATORS THROUGH 2020**

(Chair) John Kinsman, Sr. Director - Environment, Edison Electric Institute

**A1.2 "ALL THE ABOVE" ENERGY POLICY: NOT REALLY**

Block Andrews, Strategic Environmental Solutions Director, Burns &amp; McDonnell

**A1.3 WHERE ARE WE ON INTERSTATE TRANSPORT?**

Daniel Chartier, Director - Environmental Markets &amp; Air Quality Programs, EEI

**A1.4 ENERGY FORWARD RESPONSE TO ELECTRIC GENERATION ENVIRONMENTAL CHALLENGES**

(Chair) Michael Cashin, Environmental Policy Manager, Minnesota Power (ALLETE)

**A1.5 IMMINENT DEATH OF COAL GENERATION?: AIR, WATER & WASTE REGULATIONS DURING OBAMA'S SECOND TERM**

Jay Holloway, Partner, Winston &amp; Strawn LLP

**A1.6 THE STATE OF THE NAAQS**

Kurt Kissling, Attorney, Pepper Hamilton LLP



John Kinsman



Michael Cashin

3:30PM - 5:30PM

**A2. REGULATORY UPDATE - GHG**Session Sponsor  
and Co-Chair**A2.1 UPDATE ON GREENHOUSE GAS NSPS REGULATIONS**

Tauna Szymanski, Senior Associate, Hunton &amp; Williams LLP

**A2.2 MECHANISMS & SCENARIOS FOR REGULATING EXISTING PLANTS UNDER SECTION 111D**

(Chair) Andrew Byers, Project Manager, Black &amp; Veatch

**A2.3 UTILITY PERSPECTIVE ON REGULATION OF GHG EMISSIONS FROM EXISTING POWER PLANTS UNDER CAA SEC. 111(D)**

(Chair) Nicholas Martin, Manager - Environmental Policy, Xcel Energy

**A2.4 PLANTWIDE APPLICABILITY LIMITS & GREENHOUSE GAS EMISSIONS**

(Chair) Ken Snell, Sr. Environmental Consultant, Sargent &amp; Lundy LLC; Laura Schwer

**A2.5 CLEAN AIR ACT & GREENHOUSE GAS CONTROL COST IMPACTS ON THE REFINING & PETROLEUM INDUSTRY**

Bill Smalling, Attorney, The Law Office of C. William Smalling

**A2.6 EPA'S BIOGENIC CO2 DEFERRAL RULE-- THE IMPACT OF THE RECENT COURT VACATUR**

Scott Osborn, Practice Group Leader, Golder Associates



Nicholas Martin



BLACK &amp; VEATCH

Andrew Byers

Tuesday | February 4

7:30AM - 9:30AM **A3. NAAQS**Session Sponsor  
and Co-Chair**A3.1 DEALING WITH IMPLEMENTATION OF THE 1-HOUR SO2 NAAQS: CHALLENGES & OPTIONS**

(Chair) Robert Paine, Technical Director, AECOM

**A3.2 UPDATE & IMPLICATIONS OF THE PM2.5 NATIONAL AMBIENT AIR QUALITY STANDARD, REGULATIONS, & MODELING GUIDANCE**

Robert McCann, Principal, Golder Associates Inc.

**A3.3 INTERSTATE TRANSPORT IN THE SUPREME COURT: THE COURT CONSIDERS EPA V. EME HOMER CITY GENERATION, L.P.**

E. Carter Chandler Clements, Esq., Associate, Hunton &amp; Williams LLP; Norman Fichthorn

**A3.4 1-HOUR NO2 MODELING & THE EPA SIL**

Everest Yan, Senior Engineer, PCR Services Corporation; Heidi Rous

**A3.5 RECENT REDUCTIONS IN NAAQS - GOOD SCIENCE OR PERPETUATION OF DOGMA ON HEALTH CONSEQUENCES OF LOW-LEVEL AIR POLLUTANTS?**

(Chair) Lucy Fraiser, Principal, Zephyr Environmental

**A3.6 REGIONAL AIR QUALITY MODELING ANALYSIS IN THE WEST - BACKGROUND & TRANSPORT FOR NAAQS & OTHER INDICATORS**

Tom Moore, Air Quality Program Manager, WRAP/WESTAR



Robert Paine



Lucy Fraiser

**A4. NSR****A4.1 RECENT DEVELOPMENTS IN NSR**

Gary McCutchen, Principal, RTP Environmental

**A4.2 THE UTILITY NEW SOURCE REVIEW ENFORCEMENT INITIATIVE - MORE THAN A DECADE OLD & IT KEEPS GOING, & GOING, & GOING**

(Chair) Makram B. Jaber, Partner, Hunton &amp; Williams LLP

**A4.3 THE NEW ERA OF NEW SOURCE REVIEW SETTLEMENTS: UPDATE ON SETTLEMENTS & CONSISTENT DECREE IMPLEMENTATION**

(Chair) Liz Williamson, Partner, Winston &amp; Strawn LLP

**A4.4 NSR UPDATE 2014 - CONTINUING CHALLENGES TO ELECTRIC UTILITIES**

Kenneth Weiss, Partner, ERM

**A4.5 NSR REFORM RULE-THE NEW NSR ENFORCEMENT APPROACH: PRACTICAL CONSIDERATIONS TO AVOID THE NEXT ROUND OF ENFORCEMENT**

Mark Thimke, Attorney, Foley &amp; Lardner LLP; Michael Zebell, ERM

**A4.6 POLLUTION CONTROL PROJECT EMISSIONS INCREASES & PERMITTING IMPLICATIONS**

Dave Helm, Environmental Consultant, Sargent &amp; Lundy; Ken Snell

**A5. CAA: STATES RIGHTS VS. FEDERAL OVERSIGHT****A5.1 EPA'S STARTUP, SHUTDOWN, & MALFUNCTION SIP CALL TO STATES**

Randy Brogdon, Attorney, Troutman Sanders LLP

**A5.2 EPA DISAPPROVAL OF STATE REGIONAL HAZE PLANS**

(Chair) Mack McGuffey, Partner, Troutman Sanders LLP

**A5.3 EPA'S DISAPPROVAL OF ARIZONA'S REGIONAL HAZE PLAN**

Eric Massey, Air Director, Arizona Department of Environmental Quality

**A5.4 GHG PERMITTING EXPERIENCE IN TEXAS**

Larry Moon, Principal, Zephyr Environmental Corporation

**A5.5 GHG REGULATIONS UNDER THE CLEAN AIR ACT**

Brian Toth, Manager of Environmental Assessment, Southern Company

**A5.6 BETTER THAN BART: AN ALTERNATIVE COMPLIANCE STRATEGY**

Eric Hiser, Partner, Jordan Bischoff &amp; Hiser, PLC

**A6. COMPLIANCE STRATEGIES****A6.1 WHAT IS THE BACKGROUND CONCENTRATION?**

Gale Hoffnagle, Air Quality Consulting Practice Leader, TRC Environmental Corporation

**A6.2 SO2 NAAQS COMPLIANCE CASE STUDY FOR COAL-FIRED POWER PLANTS**

Mary Kaplan, Senior Project Specialist, AECOM; Tom Weissinger, Raven Power; Frank Tringale &amp; Robert Paine, AECOM

**A6.3 HOW TO ADDRESS THE THREATS OF MANDATORY APRIL 2015 LOWER POST MATS SO2 EMISSION LIMITS**

(Chair) Howard Ellis, President, Enviroplan Consulting; Allen Dittenhofer, Michael Hirtler, Julia Shannon &amp; Ganesh Srinivasan

**A6.4 UTILITY & INDUSTRIAL BOILERS & THE NEW COMBUSTION RULES**

Lillian Woolley, Senior Environmental Engineer, Barr Engineering; Erik Boleman

**A6.5 CLOSING THE LOOP ON COMPLIANCE MANAGEMENT**

(Chair) Margery Moore, Dir. EHS Strategic Alliances, Bloomberg BNA

**A6.6 HOW TO GET A COMBUSTION TURBINE PERMITTED IN AN EXPEDITED MANNER - CASE STUDIES FROM RECENT LICENSING PROJECTS**

Anand Yegnan, Senior Consultant, ERM; Julie Ross &amp; Mark Garrison

10AM - 12PM

Session Sponsor  
and Co-Chair**HUNTON & WILLIAMS**Makram B.  
Jaber**WINSTON & STRAWN**LLP  
Liz Williamson

1PM - 3PM

Session Sponsor  
and Co-Chair

Mack McGuffey

3:30PM - 5:30PM

Session Sponsor  
and Co-Chair  
Howard EllisCo-Chair  
Margery Moore

Wednesday | February 5

Monday | February 3

7:30AM - 9:30AM

**A7. PERMITS & COMPLIANCE**Co-Chair  
Lynn Gresock**A7.1 NEW POWER PLANT DEVELOPMENT: OVERCOMING OPPOSITION**

(Chair) Lynn Gresock, Vice President, Tetra Tech, Inc.

**A7.2 AQ PERMITTING CHALLENGES FOR THE NATIONAL BIO & AGRO-DEFENSE FACILITY**

Ron Petersen, Vice President, CPP, Inc.; Anke Beyer-Lout

**A7.3 CASE STUDY OF EXISTING COMBUSTION TURBINES & THE NEW 1-HOUR NOX STANDARD**

Dwain Kincaid, Senior Consultant, Air Quality Services, LLC

**A7.4 USE OF "REPRESENTATIVE DATA" IN THE WAKE OF SIERRA CLUB V. E.P.A., 705 F.3D 458 (D.C. CIR. 2013)**

Samuel Lofland, Attorney, Ryley Carlock and Applewhite; James Sanderson &amp; Albert Acken

**A7.5 PLANNING A NEW GENERATION UNIT - DOES YOUR DESIGN TEAM INCLUDE AN AIR DISPERSION MODELER?**

Thomas Pritcher, Senior Engineer, Environmental Consulting &amp; Technology

**A7.6 QUANTIFYING & COMMUNICATING THE AIR QUALITY BENEFITS**

Frederick Sellars, Vice President, Tetra Tech, Inc.

10AM - 12PM

**A8. TRI, MACT, MATS**Session Sponsor  
and Co-Chairs**A8.1 THE FINAL MATS RULE: WHERE ARE WE NOW?**

(Chair) Michael Rossler, Manager - Environmental Programs, EEI

**A8.2 MERCURY IN FUEL & STACK GASES**

Mary Archer, Project Manager, NextEra Energy; Vic Vickery &amp; Roberto Garcia, Portnoy Environmental, Inc. (PEI); Ed Zillioux, Zillioux Environmental, LLC (ZxEnv); John Hampp &amp; Mary Archer, NextEra Energy / FPL

**A8.3 INTEGRATED ASSESSMENT OF TOXICS IN A SOUTHWESTERN REGIONAL WATERSHED**

Leonard Levin, Technical Executive, EPRI; Krish Vijayaraghavan, ENVIRON; Joel Herr, Systech; Robert Goldstein, EPRI

**A8.4 THE MATS CONUNDRUM**

(Chair) Peter Belmonte, Sr. Partner, ERM; Robert Fraser

**A8.5 TUNE-UPS & ENERGY ASSESSMENTS FOR MACT AT UTILITY PLANTS**

Brian Petermann, Manager - Air Quality Compliance, Segal Inc.

**A8.6 TRI 101**

Leah Blinn, Client Program Manager - Environmental &amp; Infrastructure, CB&amp;I; Amanda Black



Peter Belmonte



Michael Rossler

1PM - 3PM

**A9. AIR POLICY & REGULATIONS****ROOM CHANGE 221A**Session Sponsor  
and Co-Chair**A9.1 MAJOR SOURCE BOILER MACT - ARE YOU READY?**

Danielle Musa, Project Engineer, ERM; Daniel Goldstein

**A9.2 STRATEGIC ENVIRONMENTAL CONSIDERATIONS FOR EGU PROJECTS**

Deborah Walden-Hersh, Manager of Consulting Services - Austin, Trinity Consultants; Paul Greywall &amp; Melissa Dakas

**A9.3 ACCELERATING THE NEPA PROCESS**

(Chair) Carolyn Dunmire, Sr. Project Mgr., Ecosphere Environmental Services; Richard Knox

**A9.4 CONTROLLING GAS TURBINE EMISSIONS IN THE FUTURE**

(Chair) Sara J. Head, Vice President, AECOM; Bonnie Marini, PhD, Siemens Energy, Inc.

**A9.5 AIR PERMITTING CONSIDERATIONS FOR COMBUSTION TURBINE GAS PATH UPGRADES FOR TO IMPROVE OUTPUT & EFFICIENCY**

Jon Perry, Senior Project Manager, ERM; Robert Fraser &amp; Merritt McGlynn

Carolyn  
DunmireCo-Chair  
Sara J. Head**B1. HCL MONITORING****B1.1 FTIR MEASUREMENT OF HCL FOR UTILITY & CEMENT INDUSTRIES**

Matt Swanson, VP of Sales, California Analytical Instruments, Inc.; Kevin Ramazan

**B1.2 TUNABLE DIODE LASER (TDL) BASED HCL CEMS DEVELOPMENT CHALLENGES TO MEET EPA'S DRAFT PERFORMANCE SPECIFICATIONS**

Tim Kuiken, Midwest Regional Sales Manager, Cemtek Environmental; Keith Crabbe

**B1.3 HCL CONT. EMISSIONS MONITORING USING CAVITY RING-DOWN SPECTROSCOPY**

Curt Dvonch, Sales &amp; Applications Engineer, Tiger Optics; Graham Leggett

**B1.4 CONTINUOUS MONITORING OF HCL USING FTIR**

(Chair) Sylvie Bosch-Charpenay, Senior Applications Scientist, MKS; P. Zemek &amp; B. Marshik

**B1.5 MEASURING HCL USING HOT/WET EXTRACTIVE FTIR CEMS**

Luc Sevrette, Manager - CEM Products, Gasmet Technologies; Jim Cornish

**B1.6 CHALLENGES WITH HCL MONITORING & HOW TO SOLVE THEM**

Steve Gibbons, Business Development Manager, ABB Inc.

1PM - 3PM

Co-Chair  
Sylvie Bosch-  
Charpenay**B2. CEMS & MATS****B2.1 915 J MERCURY PROCESS MONITOR**

Andrew Mertz, Analytical Engineer, Ohio Lumex; Joseph Siperstein

**B2.2 PSEG FOSSIL - CEMS EMIS INTEGRATION**

Joel R Resig, Sr. Environmental Engineer, PSEG Fossil; David Hinchey Jr., PSEG Fossil; Patrick G. Hecht P.E., URS

**B2.3 HG & HCL MONITORING STRATEGIES FOR MATS**

(Chair) Russell Berry, Senior Project Manager, RMB Consulting &amp; Research, Inc.

**B2.4 SORBENT TRAP MONITORING - FIELD EXPERIENCE**

Phil McMaster, Eastern Regional Sales Manager, Altech Environment U.S.A.; Jurgen Reinmann, ESA Deutschland

**B2.5 MATS RULE NOTIFICATION & REPORTING REQUIREMENTS**

Steve Norfleet, Project Manager, RMB Consulting &amp; Research, Inc.

**B2.6 LOW EMITTING ELECTRIC UTILITY STEAM GENERATING UNIT (LEE) STATUS PRESENTS CHALLENGES & BENEFITS**

David L. Elam Jr, Principal, TRC Environmental Corporation

**B2.7 HG CEMS WITHOUT CALIBRATORS**

(Chair) Richard Hovan, Director Environmental Business Development, Durag Group

3:30PM - 6:00PM

Session Sponsor  
and Co-ChairsRichard  
HovanCo-Chair  
Russell Berry

Tuesday | February 4

**B3. PM, OPACITY & VISIBILITY****B3.1 DIGITAL OPACITY MEASUREMENT THE 301 TEST**

(Chair) Shawn Dolan, President, Virtual Technology LLC

**B3.2 CONDENSABLE PM MITIGATION USING DSI**

Steve Baloga, V.P. Environmental Services, Novinda Corporation

**B3.3 'TIS THE SEASON: DRIVERS OF WINTERTIME FINE PARTICULATE POLLUTION IN PHX AZ**

(Chair) Ira Domsy, Planning Consultant to the Director, Maricopa County Air Quality Dept.

**B3.4 EXPERIENCE IN USING PCME 181WS (WET STACK PM-CEM)**

Ed McCall, General Manager, PCME; William Averdieck

**B3.5 USING PM2.5 MEASUREMENTS FROM COAL-FIRED BOILERS IN PERMITTING OR EMISSION CALCULATIONS**

Lillian Woolley, Senior Environmental Engineer, Barr Engineering

**B3.6 PM2.5 EMISSIONS UPDATE- THREE YEARS LATER DO WE KNOW ANY MORE?**

Bob Farmer, Program Director - Air Quality, ERM; Jeff Twaddle &amp; Larry Hottenstein

7:30AM - 9:30AM

Co-Chairs  
Shawn Dolan  
&  
Ira Domsy

Tuesday | February 4

Wednesday | February 5

10AM - 12PM

Session Sponsor  
and Co-Chair

James Wacker

**B4. SF6 & EMISSIONS MONITORING****B4.1 INTERFERENCE-FREE PLASMONIC MERCURY SENSING IN SIMULATED FLUE GAS**

Jay James, Founder, Picoyune

**B4.2 NEW SULFUR HEXAFLUORIDE MEASUREMENT METHOD**

Bob Mueller, Director - Process Chemicals, Airgas Specialty Gases

**B4.3 CONTINUOUS EMISSIONS MONITORING OF SUBSTATION ASSETS**

(Chair) James Wacker, Director of Business Development, INCON

**B4.4 SF6 LEAK DETECTION PROGRAM**

Laura Brewer, Associate Compliance Specialist, Burns &amp; McDonnell; Jerry Bauer

**B4.5 EPRI VEE STUDY**

Allison Dolan, Visible Emissions Consultant, Virtual Technology LLC; Destinee Mack, Mack Inc.

**B4.6 DEMONSTRATION OF A DIFFERENTIAL ABSORPTION LIDAR FOR EMISSIONS MEASUREMENT**

Michael Wojcik, Senior Scientist, Space Dynamics Laboratory; B. Crowther &amp; R. Lemon, Space Dynamics Laboratory Prasad Valupadas; L. Fu, B. Leung, Q. Huda &amp; Z. Yeng, Alberta Environment Environmental Sustainable Resource Development; A. Chambers, Alberta Innovates Technology Futures

1PM - 3PM

Session Sponsor  
and Co-ChairsDeborah  
Padwater**B5. SO2, SO3, NOX & ADDITIVES****B5.1 SCR BYPASS SYSTEM FOR NOX MEASUREMENTS**

(Chair) Deborah Padwater, Strategic Industry Manager, SICK AG

**B5.2 POWDER-SORBENT ALTERNATIVES TO SO3 FOR ESP CONDITIONING**

Thomas Gale, Director of Technology Development, Novinda Corporation

**B5.3 PSD CRITICAL PROCESSES - MEASURING YOUR PERFORMANCE ON-LINE & IN REAL TIME**

Jeff DeNigris, Sales Mgr - Process, Malvern Instruments Inc

**B5.4 SELECTION OF A PROPER METHOD FOR MEASUREMENT OF SULFUR TRIOXIDE - SULFURIC ACID MIST EMISSIONS FROM SOLID FUEL & NATURAL GAS-FIRED GENERATION FACILITIES**

Kevin Crosby, VP- Technical, The Avogadro Group, LLC

**B5.5 A MEASUREMENT METHOD FOR ACCURATE DETERMINATION OF H2SO4/SO3 IN COLD FLUE GAS EXHAUST**

(Chair) Curtis Laush, Senior Scientist, Geosyntec

**B5.6 INACCURACIES OF NOX MONITORS & USE OF FUEL FLOW OVER STACK GAS FLOW**

Robert Mallowney, President, Monitor Tech Corporation



Curtis Laush

3:30PM - 5:30PM

Co-Chairs  
Robert John  
Schreiber

&amp;

Robert Baxter

**B6. CEMENT & PM****B6.1 USING A NIST-TRACEABLE QUANTITATIVE AEROSOL GENERATOR FOR PM CEMS CALIBRATION**

Jamie Berg, Research Scientist, Cooper Environmental Services; Troy Pittenger &amp; John A Cooper, Cooper Environmental Services; Chuck Dene, EPRI

**B6.2 DIOXIN EMISSION FROM CEMENT KILNS - LESSONS LEARNED**

(Chair) Robert John Schreiber, President, Schreiber Yonley &amp; Associates

**B6.3 CLINKER SUBSTITUTION & THE ROLE OF FLYASH**

John Kline, Principal, Kline Consulting; Charles Kline

**B6.4 IN THE ABSENCE OF DATA, HOW TO ESTIMATE PM2.5 EMISSIONS FOR CEMENT, COAL, AND LIME MATERIAL HANDLING**

Mike Remsberg, Managing Director, Trinity Consultants; Deborah Walden-Hersh &amp; Kate Gross

**B6.5 A COMPARISON OF PROPOSED PM CPMS LIMITS**

(Chair) Robert Baxter, President, B3 Systems, Inc.

**B6.6 REDUCING EMISSIONS WITH DONALDSON MEMBRANE'S TETRATEX® EPTFE FILTER MEDIA**

Edward Ricketts, Account Manager, Donaldson Membranes; Jim Griffin

**B7. MODELING I****B7.1 COLLECTING ON-SITE METEOROLOGICAL DATA IS MORE THAN JUST A GOOD IDEA**

Jared Anderson, Senior Air Dispersion Modeler, Wenck Associates, Inc.

**B7.2 ANALYSIS OF REAL-TIME & FORECAST AIR QUALITY MODELING SYSTEM**

(Chair) Jesse The, President, Lakes Environmental Software; B. Matthews &amp; M. Hammer

**B7.3 EVALUATION OF NON-DEFAULT OPTIONS IN AERMOD FOR REPRESENTATIVE INDUSTRIAL EMISSIONS SOURCES**

Idania Zamora, Senior Associate, ENVIRON; Ted Bowie &amp; Snetu Karania

**B7.4 DISPERSION MODELING AS A TOOL FOR NONATTAINMENT STUDIES FOR SO2 - A CASE STUDY FOR UTILITIES IN NORTHEAST OHIO**

(Chair) George Schewe, Principal Consultant, Trinity Consultants; Dr. Abhishek Bhat

**B7.5 VARIABLE EMISSIONS IN AIR QUALITY MODELING**

Richard Hamel, Air Quality Meteorologist, ERM; Beth Barfield &amp; Mark Garrison

**B7.6 INVESTIGATION OF BORON BEHAVIOR IN COAL-FIRED POWER PLANT**

Naoki Noda, Research Scientist, Central Research Institute of Electric Pwr. Industry; Shigeo It

**B8. MODELING II****B8.1 MACT, MATS, & MODELING: ONE "M" LEADS TO ANOTHER**

Richard Hamel, Air Quality Meteorologist, ERM

**B8.2 USING DISPERSION MODELING & THERMAL RADIATION MODELING FOR AN LNG STORAGE FACILITY SAFETY STUDY**

John Hinckley, Senior Consultant, RSG, Inc.

**B8.3 EVALUATION OF NO2 PREDICTIONS BY THE PLUME VOLUME MOLAR RATIO METHOD (PVMRM) & OZONE LIMITING METHOD (OLM) IN AERMOD USING NEW FIELD OBSERVATIONS**

Vincent Tino, Senior Consultant, Epsilon Associates, Inc.; E. Hendrick, S. Hanna &amp; B. Egan

**B8.4 BACKGROUND CORRECTED AMBIENT NO2 MEASUREMENTS**

(Chair) Thomas McKarns, President &amp; Owner, ECO PHYSICS; W. Moser, ECO PHYSICS AG

**B8.5 AIR QUALITY IMPACT MANAGEMENT SYSTEMS FOR INDUSTRIAL UTILITIES USING COMPREHENSIVE AIR QUALITY MODELS**

Roberto San Jose, Professor, UPM; J. Pérez, R. González, A. Zamora, A. Yoldi &amp; N. Cifuentes

**B9. FABRIC FILTERS/PM/OPACITY****ROOM CHANGE 221B**

1PM - 3PM

**B9.1 NOVEL FABRIC FILTER FOR SUSTAINED REDUCTION OF HG EMISSION**

(Chair) Shulong Li, Senior Scientist, Milliken and Company

**B9.2 DESIGN CONSIDERATIONS FOR FABRIC FILTERS W/ EXTREMELY LOW EMISSION RATES**

Michael Widico, Vice President, KC Cottrell Inc.

**B9.3 DSI IMPACT ON VISUAL OPACITY**

Anthony Silva, Advisory Engineer, Babcock &amp; Wilcox; Robert Snyder

**B9.4 FABRIC FILTER MEDIA INNOVATION FOR COAL-FIRED POWER PLANTS**

(Chair) Vishal Bansal, Principal Engineer, CLARCOR Industrial Air, Formerly GE Power &amp; Water's Air Filtration; Jeff Ladwig

**B9.5 PM BETA GAUGE - FIELD EXPERIENCES**

Seth Morrell, Sales &amp; Marketing Manager, Altech Environment U.S.A.

**B9.6 NEW CONTINUOUS OPACITY MONITORING SYSTEM QA/QC & OPERATIONAL REQS**

Dave Ostaszewski, Senior Managing Engineer, O'Brien &amp; Gere

7:30AM - 9:30AM

Session Sponsor  
and Co-ChairsGeorge  
Schewe

Jesse The

10AM - 12PM

Session Sponsor  
and Co-Chair

Thomas McKarns



1PM - 3PM **C1. HG CONTROL DEMONSTRATIONS**

Session Sponsor and Co-Chair

**C1.1 FLEXIBLE FEED SYSTEMS COMPATIBLE W/ A RANGE OF ENV. CONTROL REAGENTS**  
Cliff Brown, VP Applied Engineering, Novinda Corp.; James Butz & Benjamin Bernardo, Novinda; Andrés Orlando, Jenike & Johanson

**C1.2 AUTOMATING MERCURY COMPLIANCE ON EGUS WITH WFGDS**  
(Chair) Bruce Keiser, Research Fellow, Nalco; John Meier, JerryYuan & Tommy Chen

**C1.3 MERCURY COMPLIANCE WITHOUT CO-BENEFITS ACHIEVED USING ACI**  
(Chair) Noah Meeks, Research Engineer, Southern Company; Brad Donat

**C1.4 BASF'S MERCURY SORBENT HX(TM) - A MERCURY MATS COMPLIANT TECHNOLOGY**  
William Hizny, Technical Projects Manager, BASF; Fabien Rioult PhD & Xiaolin Yang PhD

**C1.5 KILL TWO POLLUTANTS W/ ONE SORBENT - COMBINED HG & SO3 CTRL USING SBS INJECTION**  
Sterling Gray, Business Development Manager, URS Corporation; Ramsay Chang, EPRI; Carl Richardson & John Currie, URS

**C1.6 RE-EMISSION DRIVERS & OPTIONS**  
Philip Elliott, Business Unit Manager - Engineering Services, STEAG Energy Services LLC



3:30PM - 6:00PM **C2. HG CONTROL & ACTIVATED CARBON**

Session Sponsor and Co-Chair

**C2.1 MORE THAN "JUST CARBON." HOW ADVANCED ACTIVATED CARBON PRODUCTS OFFER SUPERIOR MERCURY CONTROL & ENHANCED VALUE FOR SPECIFIC CUSTOMER NEEDS**  
Richard Mimna, Senior Research Associate, Calgon Carbon Corporation

**C2.2 EMO®**  
(Chair) Bobby Chen, Client Program Manager, CB&I; Randall Moore

**C2.3 MATS HG COMPLIANCE WITH TEXAS LIGNITE & PRB BLENDS**  
Marcus Sylvester, Vice President of Sales, Midwest Energy Emissions Corp.

**C2.4 MAXIMIZING MERCURY OXIDATION BY SCRS FOR MATS COMPLIANCE**  
Bruce Keiser, Research Fellow, Nalco, an Ecolab Company; Stephen Potter, Duke Energy; John Meier, Bradley Bartz & Ed Grodecki, Nalco

**C2.5 ASSESSING FGD CORROSION RISK FOR BROMINE-BASED HG CONTROL TECH.**  
Gary Blythe, Project Manager, URS Corporation; John Grocki, Advantage Resources Consulting, LLC; Ben Bayer, URS Corporation; Casey E. Smith, LCRA

**C2.6 LATEST RESULTS IN ADVANCED POWDERED ACTIVATED CARBON MERCURY CONTROL**  
(Chair) Joe Wong, CTO, ADA Carbon Solutions; Robert Huston & Sheila Glesmann

**C2.7 HOLISTIC PERSPECTIVE ON MERCURY REMOVAL FROM FLUE GAS**  
Barna Heidel, Head of Dept., U of Stuttgart, IFK; T. Schwaemmle, F. Silvio & G. Scheffknecht



7:30AM - 9:30AM **C3. CONTROL TECHNOLOGIES**

Session Sponsor and Co-Chair

**C3.1 IMPROVED DSI PERFORMANCE WITH OPTIMIZED HYDRATED LIME**  
(Chair) Jim Dickerman, Director Flue Gas Treatment, Lhoist N. America; Melissa Sewell

**C3.2 CDS SCRUBBER HUMIDIFICATION SYSTEM - KEY ASPECTS IN THE DESIGN, O&M**  
Robert Van Durme, P.E., Market Manager - FGD, Lechler Inc.

**C3.3 AMENDED SILICATES AS-HGX AS A COST-EFFECTIVE OPTION FOR MERCURY CONTROL IN COAL FIRED GENERATING UNITS**  
Jim Butz, Vice President - Product Management, Novinda

**C3.4 REACT MULTIPOLLUTANT CONTROL FOR WPS/WESTON 3**  
H. James Peters, EVP Business Development, Hamon Corporation

**C3.5 INNOVATIVE IN-DUCT SCR SOLUTION ACHIEVES NOX REDUCTION TARGET**  
Keith Morris, Operations Director, Doosan Power Systems Americas; Robert Taylor, Doosan Babcock, UK

**C3.6 HCLEAR™ TECHNOLOGY: A SOLUTION BASED ALTERNATIVE TO DRY SORBENT INJECTION FOR HCL ABATEMENT**  
(Chair) Ian Saratovsky, Tech. Development Mgr., Fuel Tech K. Schulz, C. Smyrniotis & E. River



10AM - 12PM **C4. BART CASE STUDIES**

Co-Chair Pat Mongoven

**C4.1 ASHWORTH GASIFIER - COMBUSTOR FOR CRAWFORDSVILLE, INDIANA POWER PLANT**  
Thomas Hewson, CEO, ClearStack Power LLC; Robert Ashworth, ClearStack Power; Bill Harrington, Sterling Energy Group

**C4.2 MOVING BEYOND THE MYTH OF MERCURY RE-EMISSION -- ACHIEVING RELIABLE & ECONOMIC HG EMISSION REDUCTION IN YOUR WET FGD**  
Joe Stuart, Director of Commercial Development, TDC, a division of Genesis Energy Limited; Steve Feeney, Babcock & Wilcox

**C4.3 LIMESTONE SLURRY PROCESS TECHNOLOGY FOR FGD PROJECTS**  
Jeff Doherty, President, Semi-Bulk Systems, Inc.; Charles Alack

**C4.4 REGIONAL HAZE RULE IMPLEMENTATION - UPDATE & CHALLENGES**  
Kenneth Snell, Sr. Env. Consultant, Sargent & Lundy LLC; Bernard Mount, Sargent & Lundy

**C4.5 CASE STUDY - OPTIONS FOR HCL & SO2 REMOVAL IN CFB BOILERS**  
(Chair) Pat Mongoven, Business Development Mgr. Mississippi Lime, Inc; Mark DeGenova

**C4.6 THE REGIONAL HAZE PROGRAM - IMPLEMENTATION DURING THE FIRST PLANNING PERIOD & WHAT COMES NEXT**  
Aaron Flynn, Associate, Hunton & Williams LLP

**C5. DRY SORBENT INJECTION (DSI)**

1PM - 3PM  
Session Sponsor and Co-Chair

**C5.1 NEVER TOO MUCH DATA: USE OF ADVANCED STACK TESTING TECHNOLOGIES TO SUPPORT DRY SORBENT INJECTION EVALUATION STUDIES**  
Thomas Dunder, Lead Field Engineer, TRC Environmental Corporation

**C5.2 ELEMENTS OF A SUCCESSFUL DRY SORBENT INJECTION TRIAL**  
(Chair) Joshua Allen, Applications Engineer, Natronx Technologies

**C5.3 A CASE STUDY OF BICARBONATE DSI AT A BASELOAD PRB STATION**  
(Chair) Michael Atwell, Market Development Manager, Solvay Chemicals; Marco Riccio

**C5.4 COAL FIRED UTILITY EMISSION COMPLIANCE WITH DRY SORBENT INJECTION**  
Geoffrey Urwin, Product Mgr.-Sorberent Injection, Clyde Bergemann Pwr Grp; James Fisher

**C5.5 OPTIMIZING THE DSI/ESP INTERACTION**  
Timothy Fuller, Tech. MGR., Babcock & Wilcox Power Generation Group; Anthony Silva

**C5.6 PERFORMANCE IMPROVEMENTS FOR DSI SYSTEMS**  
Jon Norman, DSI Tenhology Manager, United Conveyor Corporation; Michael Atwell



**C6. MATS**

3:30PM - 6:00PM  
Session Sponsor and Co-Chair

**C6.1 DSI & ACI - MEETING MATS STANDARDS**  
(Chair) Michael Thiel, Technical Services Manager, Nol-Tec Systems

**C6.2 THE MATS REPORTING DILEMMA: TWO SYSTEMS IS TOO MANY**  
John Downs, Environmental Manager, B&W Power Generation Group

**C6.3 FUEL QUALITY & MATS FOR COAL-FIRED PLANTS: THE RIPPLE EFFECT**  
Connie Senior, Director-Technology Development, ADA-ES, Inc.; Greg Filippelli

**C6.4 MATS BEST PRACTICES: UNDERSTANDING THE DETAILS**  
Peter Spinney, Director - Market & Technology, NeuCo, Inc.

**C6.5 MATS COMPLIANCE CHALLENGES**  
Stephanie Sebor, Associate Attorney, Winston & Strawn LLP

**C6.6 CUSTOMIZED ELEX ELECTRODE EXPERIENCE WITH COAL-FIRED BOILERS**  
(Chair) Gary Grieco, Consultant, Air Consulting Associates Mick Chambers, Southern Env.

**C6.7 DEMONSTRATION OF SO2 CONTROL WITH BOILER MODELING & FURNACE INJECTION**  
Noah Meeks, Research Engineer, Southern Company; Mark Pastore, EES, Inc.; Robert Santangeli, Step Combustion; Jerrold Radway, ClearChem, Inc.

**C6.8 MERCURY OXIDATION IN THE SCR - LAYER BY LAYER PERFORMANCE**  
Kyle Neidig, SCR Systems and Catalyst Product Manager, Hitachi Power Systems America



Wednesday | February 5

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

- Session Sponsor and Co-Chair
- BIOGENIC REAGENTS**  
Erin B. Heupel
- C7.1 PERFORMANCE ADVANTAGES OF WOOD-BASED ACTIVATED CARBON FOR HG CONTROL**  
(Chair) James Mennell, CEO, Biogenic Reagents; Erin Heupel
- C7.2 DEVELOPMENT OF A KINETIC MERCURY CAPTURE TEST FOR ACTIVATED CARBONS**  
Nicholas Lentz, Associate Director, U of North Dakota; Joe Wong & Chris Vizcaino, ADA-CS
- C7.3 NON-HALOGENATED ACTIVATED CARBON FOR MERCURY CAPTURE FROM COAL-FIRED POWER PLANT FLUE-GAS**  
David Mazyck, CEO, Carbonxt; Heather Byrne & Jack Drwiega
- C7.4 PILOT SCALE IN-FLIGHT MERCURY CAPTURE USING CABOT NORIT NOVEL SORBENTS**  
(Chair) Brian Tucker, Director -Product Dev., Cabot Norit Activated Carbon; M.Xin, P. Adams
- C7.5 COMPUTATIONAL MODELING OF ELECTROHYDRODYNAMICALLY-INFLUENCED MERCURY ADSORPTION WITHIN ESPS**  
Herek Clack, Research Associate Professor, University of Michigan
- C7.6 UNDERSTANDING OF MERCURY (HG) BREAKTHROUGH ISSUE & APPLICATION OF SORBENT TRAP METHOD FOR HG SAMPLING & ANALYSIS**  
Sung Jun Lee, Director of Analytical Division, Apex Instruments Inc.; William H. Howe
- CABOT NORIT ACTIVATED CARBON**  
Brian Tucker

**10AM - 12PM C8. SCR**

- Session Sponsor and Co-Chair
- ALSTOM**  
Paulo Oliveira & Larry Czarnecki
- C8.1 HIGH TEMP. SCR DESIGN & FIELD EXPERIENCE WITH A COAL-FIRED UTILITY BOILER**  
(Chair) Larry Czarnecki, Principle Process Engineer, Alstom Power; T. Ekman & L. Spagnolo
- C8.2 EMERGING CHALLENGES & DESIGN STRATEGIES FOR SCR SYSTEMS**  
(Chair) Paulo Oliveira, Product Marketing Manager, Alstom Power; Larry Czarnecki
- C8.3 CFD MODELING FOR SCR PERFORMANCE OPTIMIZATION**  
Reid Thomas, Sr. Process Engineer, Fuel Tech, Inc.; Scott Hiedeman, Kansas City Power & Light – LaCygne Generating Sta.; Diane Fischer, Black & Veatch; Dale Pfaff, Fuel Tech, Inc.
- C8.4 ADVANCED TECHNOLOGY MULTI-FUNCTIONAL SCR CATALYST PERFORMANCE FOR HIGH NO2 IN MODERN TURBINE POWER PLANTS**  
Chris Bertole, Catalyst Development Manager, Cormetech, Inc.; Scot G. Pritchard & Mike Close, Cormetech; Katsumi Nochi, MHI
- C8.5 SCR CATALYST SELECTION & MANAGEMENT FOR IMPROVED HG OXIDATION**  
Christopher Reeves, Development Project Manager, Cormetech, Inc.; Chris Bertole, Chris DiFrancesco & Scot Pritchard, Cormetech, Inc.; Katsumi Nochi, MHI
- C8.6 HG CONTROL STRATEGIES IN THE PRESENCE OF SO3 USING THE MERSIM MODEL**  
Brad Adams, President, Reaction Engineering; Brydger Van Otten

**1PM - 3:30PM C9. CONTROL TECHNOLOGIES**

**ROOM CHANGE 221C**

- Session Sponsor and Co-Chair
- CABOT NORIT ACTIVATED CARBON**  
Brian Tucker
- Co-Chair  
Mark Ehrnschwender
- C9.1 MEETING THE NEXT LEVEL OF WASTEWATER QUALITY FOR METALS & SELENIUM**  
(Chair) Mark Ehrnschwender, VP - Business Development & Eng. Svcs., STEAG
- C9.2 SELENIUM CONTROL USING COMBUSTION ADDITIVE**  
Mandar Gadgil, AQCS Engineer, Babcock & Wilcox Company; Gregory Bielawski
- C9.3 PILOT SCALE IN-FLIGHT TESTING OF SO3 RESISTANT CABOT NORIT NOVEL SORBENTS**  
(Chair) Brian Tucker, Director -Product Dev., Cabot Norit Activated Carbon; M. Xin, P. Adams
- C9.4 UPDATES ON THE PERFORMANCE OF SELECTED CIRCULATION DRY SCRUBBERS**  
Shiaw Tseng, Marketing & Technical Manager, Graymont
- C9.5 IMPACT OF PAC INJECTION UPSTREAM OF APH ON BASKETS CORROSION...**  
Jon Miller, Technology Manager - Mercury Control, Albemarle; E. Zhou, D. Royer & G. Lambeth, B. Ghorishi
- C9.6 BROMINE ADDITION ON LOW-TEMP CORROSION IN AIR & OXY-FIRED COAL**  
Jacob Beutler, Senior Engineer, Reaction Engineering; Brad Adams, Tim Shurtz & Kevin Davis
- C9.7 ENHANCED MERCURY CONTROL FOR BOILERS THAT REQUIRE ESP FGC**  
Richard Miller, Vice President Business Development, ADA-ES, Inc.; Ken Baldrey
- C9.8 TAKING THE MYSTERY OUT OF ESP POWER SUPPLIES**  
John Knapik, Applications Engineer, Babcock & Wilcox



**MATS/MACT regulations...**  
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Monday | February 3

1PM - 3PM

Session Sponsor  
and Co-Chair Charles River  
Associates  
Ken Ditzel **BLACK & VEATCH**  
Hua Fang**D1. SHALE GAS/LNG/NATURAL GAS****D1.1 THE EFFECT OF SHALE GAS ON POWER MARKETS IN THE NORTHEAST (N.E., NY & PJM)**  
Stephen Slocumb, Associate, Epsilon Associates**D1.2 THE GAS-ELECTRIC SYSTEM INTERFACE IN PJM**

Gary Helm, Lead Market Strategist, PJM Interconnection

**D1.3 ADEQUACY OF NATURAL GAS INFRASTRUCTURE TO SUPPORT THE ELECTRIC INDUSTRY**  
(Chair) Hua Fang, Principal Consultant, Black & Veatch**D1.4 MACROECONOMIC PROSPECTS & IMPLICATIONS OF U.S. LNG EXPORTS**

Sebastian Mankowski, Consultant, NERA Economic Consulting; Sugandha D. Tuladhar, Paul Bernstein &amp; David Montgomery

**D1.5 LNG EXPORTS: ECONOMIC CONTRIBUTIONS TO THE US ECONOMY & IMPACTS ON US NATURAL GAS PRICES**

(Chair) Ken Ditzel, Principal, Charles River Associates

**D1.6 DIMENSIONS OF GAS-ELECTRIC COORDINATION CONCERNS**

Todd Schatzki, Vice President, Analysis Group

3:30PM - 6:00PM

Session Sponsor  
and Co-Chair*Twenty-First  
Strategies*  
Daniel KleinCo-Chair  
Sayan  
Chakraborti**D2. FRACKING & SUSTAINABLE DEVELOPMENT****D2.1 FRACKING - IMPACT ON U.S. ENERGY, TRADE, & CO2 EMISSIONS**

(Chair) Daniel Klein, President, Twenty-First Strategies

**D2.2 TBD**

Phil Sharp, President, Resource for the Future

**D2.3 OIL & WATER, GAS & TSCA: EPA LOOKS AT HYDRAULIC FRACTURING**

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

**D2.4 HYDRAULIC FRACTURING & FINANCIAL RESPONSIBILITY REQUIREMENTS: A CASE STUDY OF THE REGULATORY FRAMEWORKS IN NY & PA & POTENTIAL PATHS FORWARD**

Elizabeth Kurz, Senior Associate, ICF International; Eric Reeves

**D2.5 ASSESSING POTENTIAL UPWARD MIGRATION OF HYDRAULIC FRACTURING FLUID & BRINE THROUGH FRACTURES, FAULTS, & INTACT ROCK**

Sam Flewelling, Senior Hydrologist, Gradient; Matt Tymchak &amp; Manu Sharma

**D2.6 AN INNOVATIVE LOW-TEMPERATURE WATER RECYCLE & RECOVERY PROCESS FOR TREATMENT OF FLOWBACK & PRODUCED WATER**

(Chair) Sayan Chakraborti, Sr. Program Mgr., MRIGlobal; Oguz Capan, Hittite Solar Energy

**D2.7 REUSE OF PRODUCED & FLOW BACK WATER FOR HYDRAULIC FRACTURING FLUIDS**

James Fajt, Senior Scientist, M-I SWACO a Schlumberger Co.; Tor Palmgren, Alan McKee

Tuesday | February 4

7:30AM - 9:30AM

Co-Chairs  
Jeffrey Michel  
&  
Kelly Daly**D3. ENERGY POLICY & SECURITY****D3.1 GAS - ELECTRIC COORDINATION, IS THE TIMING FINALLY RIGHT?**

(Chair) Kelly Daly, Chair - Energy &amp; Environmental Division, Stinson Morrison Hecker LLP

**D3.2 THE STATUS OF GERMANY'S ENERGY TRANSITION**

(Chair) Jeffrey Michel, Principal, Ing.-Büro Michel

**D3.3 BRAZIL'S ENERGY POLICY & REGULATION**

Stephen Sewalk, Asst Professor, PhD/JD, U of Denver- Burns School of Mgmt; Laura Newman

**D3.4 DEVELOPING & ASSESSING ECONOMIC, ENERGY, & CLIMATE SECURITY & INVESTMENT OPTIONS FOR THE US**

Thomas Peterson, President &amp; CEO, The Center for Climate Strategies; Pat Delaquil &amp; Gary Goldstein, DecisionWare Group; Hal Nelson, Claremont Graduate University; Stephen Roe &amp; Jeff Wennberg, The Center for Climate Strategies; Adam Rose, USC

**D3.5 WHAT THE WORLD CAN LEARN FROM NUCLEAR SECURITY**

Phrantceena Halres, CEO, Total Protections Services Global

**D3.6 GRID CYBERSECURITY**

John Finnigan, Senior Regulatory Attorney, Environmental Defense Fund

Tuesday | February 4

10AM - 12PM

Session Sponsor  
and Co-Chair**WINSTON  
& STRAWN  
LLP**

Avril Edwards

Co-Chair  
Stephen Sewalk**D4. ENERGY & CLIMATE****D4.1 EPA'S PWR PLANT GHG STANDARDS - NEW DEVELOPMENTS & ENERGY IMPLICATIONS**  
(Chair) Averil Edwards, Associate, Winston & Strawn LLP**D4.2 POWER MARKET PRICES, NUCLEAR GENERATION & GHG POLICY**

Marc Chupka, Principal, The Brattle Group

**D4.3 EPA REGULATIONS & CARBON TAXES - EVALUATING RELATIVE ECONOMIC IMPACTS**

Sebastian Mankowski, Consultant, NERA Economic Consulting; Scott J. Bloomberg, Mei Yuan &amp; Anne Smith

**D4.4 NUCLEAR ENERGY POLICY**

(Chair) Stephen Sewalk, Asst Professor, PhD/JD, U of Denver - Burns School; Laura Newman

**D4.5 CO2 STANDS FOR EXISTING GENERATION SOURCES - WHAT WILL MOVE THE NEEDLE?**

Chris MacCracken, Principal, ICF International

**D4.6 CLIMATE POLICY CHOICES - RPS, CAP-AND-TRADE & THE IMPLICATIONS FOR ACTIONS (AND EXITS) THAT AFFECT EMISSIONS**

Todd Schatzki, Vice President, Analysis Group

**D5. PROJECT FINANCE****D5.1 THE EQUATOR PRINCIPLES III: IMPACTS TO PROJECT FINANCE IN THE US & ABROAD**

(Chair) William Stark, Senior Consultant, Leidos

**D5.2 FINANCING INTERNATIONAL RENEWABLE ENERGY PROJECTS**

Craig O'Connor, Director - Office of Renewable Energy, Export-Import Bank United States

**D5.3 CARBON TAX W/ REINVESTMENT ELIMINATES NEED FOR ALTERNATIVE ENERGY SUBSIDIES**

Stephen Sewalk, Asst Professor, PhD/JD, U of Denver - Burns School of Mgmt; Laura Newman

**D5.4 STRESS-FREE ON-TIME COMPLETION OF REFINERY TURNAROUNDS**

Hariharasuthan Gudalurb, Project Manager, Tech Mahindra; Vishal Chikhalikar, Deborah Devadason &amp; Pritish Kanagalekar

**D5.5 ENERGY COMPANIES & ARCHAEOLOGISTS: COOPERATION OR CHAOS?**

Robert Rowe, Primary Investigator, Atkins

1PM - 3PM

Session Sponsor  
and Co-Chair **leidos**  
William Stark**D6. EHS & RISK MANAGEMENT****D6.1 RISK MANAGEMENT & ITS IMPACT ON ENVIRONMENTAL HEALTH & SAFETY**

Tom Barlow, Channel Manager, EtQ

**D6.2 A SYSTEMS APPROACH TO MANAGING ENV., HEALTH, & SAFETY PROGRAMS**

(Chair) Nick Steinke, Principal, Tellevate; Joseph Tell

**D6.3 USING PROBABILISTIC DYNAMIC SIMULATION TO MANAGE RISKS & OPTIMIZE DESIGN**

(Chair) Richard Kossik, Principal, GoldSim Technology Group; Jason Lillywhite

**D6.4 INNOVATIVE WAY TO MANAGE YOUR RISK - IRMAAS**

Vishal Chikhalikar, AVP, Tech Mahindra; Hariharasuthan GB, Jagadeesh Babu Devisetty

**D6.5 EFFECTIVE ASSET IDENTIFICATION FOR POWER PLANTS**

Jason Hary, Industrial Sales Manager, Marking Services, Inc.

3:30PM - 5:30PM

Session Sponsor  
and Co-Chair **Tellevate**  
Nick Steinke **GoldSim**  
Richard Kossik

Monday | February 3

Tuesday | February 4

1PM - 3PM

**E1. RENEWABLE ENERGY MGMT & PLANNING**

- Co-Chairs  
Mark DeSantis  
&  
Bert Spaeth
- E1.1 "STAYING APART AT THE SEAMS"**  
Rodney Lenfest, Executive VP - Business Development, Boundless Energy; E. John Tompkins
- E1.2 AN UNCERTAIN PLANNING FUTURE**  
Danielle Osborn Mills, Project Manager, Atkins
- E1.3 BIG DATA = BIG GAINS ENERGY MARKETS**  
(Chair) Mark DeSantis, CEO, kWantera; Dr. Steve Lettieri
- E1.4 GREEN PRICING PROGRAMS: BEST PRACTICES**  
Michael Leschke, Green-e Energy Associate, Green-e Energy/Center for Resource Solutions
- E1.5 EMERGING REC MARKETS**  
(Chair) Bert Spaeth, Senior Energy Engineer, Lynx Technologies Inc.
- POSTER PAPER - NEARLY NET ZERO ENERGY BUILDING USING INTEGRATED PV BUILDING**  
Ahmad Alhasan, Associate Professor, College of Technological Studies; Adel Ghoneim

3:30PM - 6:00PM

**E2. RENEWABLE ENERGY/SITING/TRANSMISSION**

- Co-Chairs  
Suzanne Leta Liou  
&  
George H. Miley
- E2.1 NEPA FOR TRANSMISSION LINE PROJECTS**  
Anntonette Alberti, Sr. Vice President, Haley & Aldrich
- E2.2 GRID TRACKER: A NEW POWER & TRANSMISSION ANALYSIS APPLICATION FOR THE WESTERN INTERCONNECTION**  
(Chair) Suzanne Leta Liou, Project Director - Clean Energy & Transmission, Atkins
- E2.3 HOW COMPREHENSIVE COMMUNITY OUTREACH PLANNING CAN BE APPLIED TO CONVENTIONAL POWER PLANT & TRANSMISSION PROJECTS**  
Marion Trieste, Public Outreach Manager, Haley & Aldrich
- E2.4 ALTERNATIVES TO ELECTRICITY FOR TRANSMISSION, FIRING STORAGE, & SUPPLY INTEGRATION OF LARGE-SCALE, STRANDED, RENEWABLE ENERGY**  
Bill Leighty, Director, The Leighty Foundation
- E2.5 RENEWABLE ENERGY PROJECT SITING USING GEOGRAPHIC INFORMATION SYSTEMS**  
Jason Sokol, GISP, GIS Group Manager, URS; Diana Smith
- E2.6 PROGRESS IN DEVELOPMENT OF A LOW ENERGY NUCLEAR REACTION POWER UNIT**  
(Chair) George H. Miley, Professor Emeritus, U of Illinois
- E2.7 OPTIMIZING RENEWABLES PROJECTS - KEYS FACTORS IN PROGRAM DEVELOPMENT**  
Dale Pennington, Managing Director, UtiliWorks Consulting, LLC.

Tuesday | February 4

**7:30AM - 9:30AM E3. RENEWABLE DEVELOPMENT ANALYSIS**

- Co-Chairs  
Michael Messinger  
&  
William Leighty
- E3.1 GUIDE FOR DEVELOPING LARGE-SCALE RENEWABLE PROJECTS AT FEDERAL FACILITIES**  
Boyan Kovacic, Project Manager, U.S. Department of Energy
- E3.2 IN RESPONSE TO SUPER-STORMS, STATE INITIATIVES FOR DG DEV. FOR GRID SECURITY**  
Paul MacGregor, Senior Vice President, Nexant; Thomas Flynn
- E3.3 ACQUIRING INTELLECTUAL PROPERTY - DUE DILIGENCE ISSUES THAT ARISE OUT OF TECHNOLOGY TRANSACTIONS**  
Lee Huddleston, Partner, Osha Liang LLP
- E3.4 NEW PATENT STRATEGIES IN AN ERA OF PATENT REFORM**  
(Chair) Michael Messinger, Partner, Sterne Kessler
- E3.5 ALASKA'S SOLID STATE AMMONIA SYNTHESIS PILOT PLANT (SSAS-PP) DEONSTRATION SYSTEM FOR RENEWABLE ENERGY (RE)**  
(Chair) William Leighty, Principal, Alaska Applied Sciences, Inc.
- E3.6 BOOT STRAPPING POWER SATELLITES**  
Keith Henson, Founder, L5 Society
- E6.7 RENEWABLE ENERGY MANAGEMENT PROJECT**  
Shree Pal Dangol, Vice President, HEEDS/Nepal

**E4. RENEWABLE PROJECT DEVELOPMENT**

10AM - 12PM

- E4.1 RENEWABLE ENERGY M&A: RECENT TRENDS & DEVELOPMENT JOINT VENTURES**  
C. Thomas Paschall, Senior Attorney, Milbank, Tweed, Hadley & McCloy LLP
- E4.2 RECENT PURPA DEVELOPMENTS AT FERC**  
Peter Richardson, Partner, Richardson & Adams, PLLC
- E4.3 COMBINING RENEWABLE ENERGY TAX CREDITS & NEW MARKETS TAX CREDITS**  
James Duffy, Partner, Nixon Peabody LLP
- E4.4 THE DEVELOPMENT OF RENEWABLE ENERGY ON BROWNFIELD SITES**  
Diane Sullivan, Vice President Energy Development, Haley & Aldrich, Inc.
- E4.5 RENEWABLE ENERGY & PUBLIC CONTROVERSY IN THE SAN BERNARDINO COUNTY GREENHOUSE GAS REDUCTON PLAN**  
Michael Hendrix, Project Director-Air Quality & Climate Change, Atkins; Suzanne Liou
- E4.6 SITE SUITABILITY ASSESSMENT**  
John MacDonald, Project Manager, Tetra Tech

**E5. WIND**

1PM - 3PM

- E5.1 WIND & THE UPPER LIMIT OF STORAGE**  
Doug Houseman, Vice President of Innovation, EnerNex
- E5.2 MIND THE GAP**  
Aaron Anderson, Project Manager - Renewable Energy Group, Burns & McDonnell
- E5.3 WINDGRABBER™ - A MULTIPHASED WIND, VERTICAL AXIS WIND TURBINE SYSTEM WITH ADJUSTABLE INLET AIR SCOOP & EXIT IMPACT-DRAG SECTIONS**  
Brett Krippene, Owner & President, BCK Consulting; K. L. Starcher & D. Carr, West Texas A&M
- E5.4 FERC ESCALATES PURPA DISPUTE IN WEST: IDAHO CASES**  
Malcolm McLellan, Member, Van Ness Feldman LLP; Marlys Palumbo
- E5.5 OPTIMUM PENETRATION OF UTILITY-SCALE GRID-CONNECTED WIND SYS. IN ILLINOIS**  
Jin Jo, Assistant Professor, Illinois State University
- E5.6 INVELOX: AN EFFECTIVE ALTERNATIVE APPROACH FOR WIND POWER PLANTS**  
Dr. Dayoush Allaei, CTO, SheerWind; Professor Yiannis Andreopoulos, CCNY

Co-Chair  
Doug Houseman**E6. SOLAR/PV/BATTERIES/STORAGE**

3:30PM - 6:00PM

- E6.1 CHP SOLAR PANELS: THE TRIFECTA OF ENERGY**  
Jeff Seaton, CFMO Deputy Chief of Staff - Energy, Arizona Army National Guard; Knut Herrmann, CEM
- E6.2 ROOFTOP SOLAR FROM A REAL ESTATE PERSPECTIVE**  
Michael Manuel, Principal, Goldberg Kohn Ltd.
- E6.3 PV END OF LIFE MANAGEMENT**  
Jim Larson, Principal Consultant, EORM
- E6.4 INCREASING UTILITY-SCALE SYSTEM EFFICIENCY & OUTPUT WITH SOLAR TRACKERS**  
Jay Johnson, VP of Business Development, Exosun
- E6.5 COMMUNITY SOLAR: INTELLIGENT PROGRAM DESIGN FOR UTILITIES**  
(Chair) Paul Spencer, CEO, Clean Energy Collective; Genevieve Liang
- E6.6 MAGLEV 2000 POWER STORAGE SYSTEM (MAPS)**  
Robert Coullahan, President, Readiness Resource Grp; J. Powell & G. Danby, Maglev 2000
- E6.7 ROOFTOP SOLAR: CLOUDS ON THE HORIZON FOR ELECTRIC UTILITIES?**  
(Chair) Greg Odegard, Principal, GO Global Environmental

Session Sponsor  
and Co-Chair

Paul Spencer

Co-Chair  
Greg Odegard

Monday | February 3

1PM - 3PM

Session Sponsor  
and Co-ChairChristopher  
Wedig

Terry Farmer

**F1. COMPLIANCE TECHNOLOGIES & STRATEGIES****F1.1 HOW CAN OIL & GAS COMPLY WITH EVER INCREASING REGULATIONS?**

Mikey Landkof, Technical Lead, Enviance

**F1.2 IMPACT OF RETROFIT MATS COMPLIANCE AQCS TECHNOLOGIES ON EXISTING WFGD WASTE WATER TREATMENT SYSTEMS**

(Chair) Christopher Wedig, Senior AQCS Specialist, CB&amp;I

**F1.3 MOBILE TECHNOLOGY FOR ENVIRONMENTAL COMPLIANCE**

Elizabeth Drake, President, CS2 Inc.

**F1.4 HOLISTIC APPROACHES FOR ACHIEVING & MANAGING ENV. COMPLIANCE**

Jeremy Timmons, Vice President Engineering, Neundorfer

**F1.5 ELECTROSTATIC PRECIPITATOR POWER & CONTROL LIFE EXTENSION**

(Chair) Marty Watson, Business Development Manager, NWL

**F1.6 ASSESSING BEST FIT OPERATING PROFILES TO MAXIMIZE EMISSIONS COMPLIANCE EFFICIENCY & EFFECTIVENESS**

Scott Tampke, Business Development Manager, Black &amp; Veatch

3:30PM - 6:00PM

Co-Chairs  
Edward Malley  
&  
Keith Moore**F2. DECOMMISSIONING OF POWER PLANTS****F2.1 "RE POWER™ - TRANSFORMING AGING GENERATING SITES THROUGH RETIREMENT, RETROFIT, REPOWERING OR REDEVELOPMENT"**

(Chair) Edward Malley, Vice President, TRC Companies, Inc.

**F2.2 PLANNING FOR RETIRED PLANT DECOMMISSIONS**

Stephen Mitchell, Vice President, Weston Solutions, Inc

**F2.3 ENVIRONMENTAL ISSUES FOR DECOMMISSIONING**

Russell Light, Environmental Engineer, Sargent &amp; Lundy LLC

**F2.4 OPTIMIZED DEMOLITION OF COAL FIRED GENERATION UNITS**

Michael T. Hebert, Sr. Consultant, Environmental Consulting &amp; Technology; Marc D. Florian

**F2.5 BEST MANAGEMENT APPROACHES TO POWER PLANT DECOMMISSIONING**

Christopher Carleo, Senior Program Mgr./VP, AECOM; Gregory Sampson &amp; Michael Malley

**F2.6 GENERATION RETIREMENT DECISIONS - UTILITY PERSPECTIVE**

John Lescenski, Manager - Engineering &amp; Technical Services, NV Energy

**F2.7 RE-ENGINEERING COAL-FIRED POWER PLANTS**

(Chair) Keith Moore, President, CastleLight Energy Corp.

Tuesday | February 4

**7:30AM - 9:30AM F3. POWER PLANT & BOILER OPTIMIZATION**Session Sponsor  
and Co-Chair

Neel Parikh



We drive industry

William Horvath

**F3.1 SOOTBLOWING OPTIMIZATION AT KCPL, HAWTHORN STATION**

(Chair) Neel Parikh, Principal Eng., Siemens; P. Rogge &amp; K. Luebbert, Kansas City Pwr &amp; Light

**F3.2 IN-FURNACE COMBUSTION BALANCING IMPROVES EFFICIENCY FOR A DUAL TANGENTIAL FIRED BOILER**

Scott Affelt, Vice President, Zolo Technologies; Eric Huelson

**F3.3 SAFELY INSTALLED TURN-KEY MODULAR SPACE SOLUTIONS FOR ENERGY & UTILITIES**

Paul Raiford, Director of Energy Services, Williams Scotsman

**F3.4 IMPROVING PLANT PERFORMANCE & MAINTAINABILITY THROUGH PLANT UPGRADES**

Justin Schnegelberger, Lead Senior Performance Engineer, Burns &amp; McDonnell

**F3.5 ENERGY SAVINGS UTILIZING VFD FOR BOILER FORCED & INDUCED DRAFT FANS**

(Chair) William Horvath, General Industries A.E. Team Leader, TMEIC; Marty McDonough

**F3.6 IS NOW THE TIME TO DISPATCH MY COAL-FIRED POWER PLANT SEASONALLY?**

Mike Borgstadt, Manager - Resource Planning, Burns &amp; McDonnell

Tuesday | February 4

10AM - 12PM

Session Sponsor  
and Co-Chair

John Easton

Rod  
Hildebrand**F4. EHS & EMIS MANAGEMENT****F4.1 DON'T GET RID OF YOUR SPREADSHEET SOLUTIONS, AUGMENT THEM!**

David Gloski, President, xOverTime Inc.; Michael Lehane

**F4.2 QUALITY MGMT. SYSTEMS TO ACHIEVE BUSINESS STANDARDIZATION & PERFORMANCE**

Izak Maitin, Senior Manager, Environmental Standards, Inc.

**F4.3 SELECTION & IMPLEMENTATION OF A MOBILE-ENABLED EHS & EMIS**

(Chair) Mauri Paz, Sr. Project Manager, E2 ManageTech; Rick Mock

**F4.4 KEY FACTORS OF IMPLEMENTING A SUCCESSFUL RISK MANAGEMENT PROGRAM**

(Chair) John Easton, Director - Product Management, Medgate, Inc.

**F4.5 USING VIRTUAL INVENTORY TO BUILD A BETTER SUPPLY CHAIN**

Bob Gibson, Director Business Development, Curtiss Wright

**F4.6 ASSET MANAGEMENT IN THE ENERGY & UTILITY SECTOR**

Ian Woodbury, CEO, Riva Modeling Systems Inc

**F5. OPERATIONS & MANAGEMENT****F5.1 MAXIMIZING ENERGY OUTPUT & REVENUE WITH ADVANCED O&M**

Chris Lambert, Global Commercial Manager, First Solar, Inc.; Troy Lauterbach

**F5.2 DISCOVER THE DIFFERENCE: OIL-FREE VERSUS OIL-INJECTED**

Chuck Westhofen, Business Development Manager, Atlas Copco Rental

**F5.3 SCR CATALYST MAINTENANCE & REPAIRS: LIFE EXTENSION**

(Chair) Mark Ehrnschwender, VP - Business Development &amp; Engineering Services, STEAG Energy Services LLC

**F5.4 EMISSIONS & OPERATIONAL FLEXIBILITY**

(Chair) Scott Tampke, Business Development Manager, Project Manager, Black &amp; Veatch

**F5.5 AIR EMISSIONS & THE ENDANGERED SPECIES ACT**

Andrew Turner, Partner, Hunton &amp; Williams LLP

**F5.6 HYDROGEN PURITY & MOISTURE MONITORING IN HYDROGEN COOLED GENERATORS**

Christopher Breslin, Dir. Engineering, Environment One Corp; Gus Graham &amp; Steve Kilmartin

1PM - 3PM

Session Sponsor  
and Co-Chair**BLACK & VEATCH**  
Scott Tampke

Co-Chair

Mark  
Ehrnschwender**F6. COAL ASH / CCP****F6.1 COAL ASH MANAGEMENT -- THE CHANGING LEGAL LANDSCAPE**

(Chair) Jeffrey N. Martin, Partner, Hunton &amp; Williams LLP

**F6.2 DENSE SLURRY MANAGEMENT OF ASH & WASTE WATER**

Dale Timmons, Program Manager/Business Development, NAES Corporation

**F6.3 UPDATE ON ASTM COAL ASH STANDARDS**

Gwen Eklund, Director - Power Generation Services, TRC Environmental Corp

**F6.4 ASH LANDFILL OPERATION 101**

Thomas Gredell, President, GREDELL Engineering Resources, Inc.

**F6.5 COAL ASH MANAGEMENT REGULATORY & INDUSTRY UPDATE - PART A**

Mike McLaughlin, Senior Vice President, SCS Engineers; May Wall, Winston &amp; Strawn

**F6.6 COAL ASH MANAGEMENT: REGULATORY & INDUSTRY PRACTICES UPDATE - PART B**

May Wall, Partner, Winston &amp; Strawn LLP

**F6.7 DRY BOTTOM ASH CASE STUDY & OTHER BOTTOM ASH SOLUTIONS**

Ron Grabowski, VP Business Development, Clyde Bergemann Power Group

**F6.8 PLASMA CONVERSION OF COAL ASH INTO SALABLE CONSTRUCTION MATERIALS**

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

**F6.9 ENERGY PLANNING - SAN JOSE/SANTA CLARA REGIONAL WASTEWATER FACILITY**

Arvind Akela, Senior Project Manager, CDM Smith; Joanna De Sa, City of San Jose

3:30PM - 6:00PM

Session Sponsor  
and Co-Chair

Jeffrey N. Martin



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Tuesday | February 4

1PM - 3PM

Session Sponsor  
and Co-Chair

Art Diem

**G1. CARBON FOOTPRINT & GREEN PROJECTS****G1.1 USING EGRID DATA FOR CARBON FOOTPRINTING GRID SUPPLIED ELECTRICITY**

(Chair) Art Diem, Environmental Engineer, EPA; Cristina Quiroz, Radium Consulting Group

**G1.2 GREEN CARROTS - UTILITY INCENTIVE PROGRAMS & THE IT INDUSTRY**

Christa Ansbergs, Field Engineer Sr., Lockheed Martin Corporation; C. Lester, Lockheed Martin Corporation; E. Young &amp; S. Bryant, Philadelphia Gas Works; C. Strecker, PECI

**G1.3 NYU INITIATIVES ON OFFICE GREENING & COMMUNITY ENGAGEMENT**

Bapanaiiah Penugonda, Director Group Practice/ Associate Professor, NYU College of Dentistry; Coby Kalter, Annette Cutugno &amp; Staci Ripkey, New York University

**G1.4 BIOENERGY, LAND USE CHANGE AND CARBON EMISSIONS: CHALLENGING THE SEARCHINGER HYPOTHESIS**

Roger Sedjo, Senior Fellow, Resources for the Future; Brent Sohngen, Ohio State University; Anne Riddle, Resources for the Future

3:30PM - 6:00PM

Co-Chair  
David Shotts**G2. TAILORING RULE/NSR/GHG-BACT****G2.1 THE GHG TAILORING RULE AT AGE 3: HOW MATURE ARE THE GHG BACT DETERMINATIONS FOR POWER GENERATION UNITS**

Art Samberg, Senior Consultant, Golder Associates Inc.

**G2.2 THE TAILORING RULE - WHAT A DIFFERENCE THREE YEARS MAKES**

Kristine Baranski, Project Engineer, Cardinal Engineering, Inc.

**G2.3 CHALLENGES FOR A SOURCE IN TEXAS GETTING A PSD PERMIT FOR GHG**

Andrea Adams, Senior Env. Scientist, SAIC; John Packard, South Texas Electric Cooperative

**G2.4 TURNING UP THE HEAT: NEW DEVELOPMENTS IN GHG PERMITTING**

Doug Huxley, Principal Technologist, CH2M HILL

**G2.5 SIMPLE CYCLE AIR PERMITTING IN THE GHG BACT ERA**

(Chair) David Shotts, Partner - Air Quality &amp; Climate Change, ERM; Jon Perry

**G2.6 GHG BACT DETERMINATIONS & NSPS FOR ELECTRIC UTILITIES**

Maren Seibold, Managing Consultant, Trinity Consultants

**G2.7 A PREVIEW OF UTILITY AIR REGULATORY GROUP V. EPA: WHAT DOES THIS SUPREME COURT CASE MEAN FOR MY COMPANY?**

Allison Wood, Partner, Hunton &amp; Williams LLP

Tuesday | February 4

7:30AM - 9:30AM

Co-Chair  
Heidi Rous**G3. GHG STRATEGIES****G3.1 REFLECTION OF THE NEW FINANCIAL REFORM LEGISLATION IN THE GHG CONSTRAINED MARKETS**

Nedia Miller, Principal, MILLER CTA

**G3.2 CHALLENGES IN EVALUATING GHGS FROM POWER PROJECTS UNDER CEQA**

(Chair) Heidi Rous, Vice President, PCR Services Corp

**G3.3 CARBON ACCOUNTING METHODS FOR ESTIMATING SCOPE 3 EMISSIONS**

Chet Chaffee, Director of Sustainability, FirstCarbon Solutions (FCS)

**G3.4 IMPACTS OF CARBON PRICE ON TRANSMISSION EXPANSION**

Byron Woertz, Sr. Project Mgr., Western Electricity Coordinating Council; Keegan Moyer

**G3.5 GHG/SUSTAINABILITY REPORTING & VERIFICATION: ADDING VALUE & CREDIBILITY**

Kevin Johnson, Vice-President, Cventure LLC; Wiley Barbour

**G4. CORPORATE STRATEGIES & RISK MGMT****G4.1 UPDATE ON ASTM CLIMATE CHANGE STANDARDS**

Gwen Eklund, Director - Power Generation &amp; GHG Services, TRC Environmental Corporation

**G4.2 LEVERAGING GRI REPORTING & ISO 14001 ENVIRONMENTAL SYSTEMS BY IMPROVING ENERGY PERFORMANCE METRIC PROCESSES**

Don MacDonald, Director - Sustainability, UL DQS

**G4.3 A CLIMATE FOR CHANGE: IMPACTS OF CARBON REGULATION**

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

**G4.4 CLIMATE OUT OF BALANCE - LIVING IN THE NEW CLIMATE NORMAL**

(Chair) Howard Balentine, Technical Leader, AECOM

**G4.5 NEW OFFSET SUPPLY: COASTAL WETLANDS**

Doug Huxley, Principal Technologist, CH2M HILL

10AM - 12PM

Co-Chair  
Howard  
Balentine**G5. CA CAP-AND-TRADE & GHG STRATEGIES****G5.1 CAP & TRADE LEGISLATION - MAPPING A PATH FROM CALIFORNIA TO D.C. BY 2016**

(Chair) Larry Goldenhersh, CEO &amp; Founder, Enviance

**G5.2 CALIFORNIA CAP-AND-TRADE: ITS TRACK RECORD SO FAR & THE CHALLENGES AHEAD**

(Chair) Lily Mitchell, Senior Associate, Hanna and Morton LLP

**G5.3 MAGLEV SPACE LAUNCH**

Robert Coullahan, President, Readiness Resource Group, Inc.; James Powell &amp; Gordon Danby, Maglev 2000

**G5.4 CO2 CAPTURE & CONVERSION: CO2 UTILIZATION STRATEGY**

Kevin Crapsey, Vice President, Corporate Strategy &amp; Development, Eco Power Solutions; Sanjeev Jolly &amp; Wayne Littleford

**G5.5 WHAT I HEARD AT EPA'S GHG NSPS LISTENING SESSION**

Bob Fraser, Partner, ERM

1PM - 3PM

Session Sponsor  
and Co-Chair

Lily Mitchell

Co-Chair  
Larry  
Goldenhersh**G6. ELECTRIC & NATURAL GAS VEHICLES****G6.1 MEASUREMENT OF GASEOUS IMPURITIES IN HYDROGEN FUEL**

(Chair) Randall Bramston-Cook, Principal, Lotus Consulting; Edward Bramston-Cook, Lotus Consulting; David Blekman, PhD, California State University Los Angeles

**G6.2 NATURAL GAS VEHICLES: ADDRESSING THE INFRASTRUCTURE CHALLENGE**

(Chair) Robert Kaineg, Senior Associate, Charles River Associates

**G6.3 EVALUATING THE RISKS & OPPORTUNITIES FOR UTILITIES WITH THE GROWTH OF ELECTRIC VEHICLES & ROOFTOP PHOTOVOLTAICS**

Kiran Kumaraswamy, Senior Manager, ICF International

**G6.4 CONNECTING SOLVING CHALLENGES FOR THE PLUG-IN NETWORK**

Forrest North, COO, Recargo Inc

3:30PM - 5:30PM

Session Sponsor  
and Co-Chair

Robert Kaineg

Co-Chair  
Randall  
Bramston-Cook

Monday | February 3

1PM - 3PM

Co-Chair  
Christopher  
Zygarlicke**H1. FOSSIL FUEL INNOVATIONS****H1.1 INNOVATIVE POLYGENERATION: THE KEY TO LOW-RISK COAL UTILIZATION**  
(Chair) Christopher Zygarlicke, Deputy Associate Director for Research, EERC**H1.2 GAS CONVERSION APPROACHES**

John West, Director AMS Proposals, Hitachi Power Systems America

**H1.3 PROGRESS IN ENERGY & COMBUSTION SCIENCE - ELSEVIER JOURNAL**

Norman Chigier, Editor: Progress in Energy &amp; Combustion Science, Carnegie Mellon

**H1.4 NATURAL GAS GENERATION OPTIONS - THE PATH TO AN AIR PERMIT**

Mary Hauner-Davis, Manager, Air/Noise Department, Burns &amp; McDonnell; Minda Nelson

**H1.5 INNOVATION & FOSSIL FUELS CAN PROFITABLY REDUCE CO2 EMISSIONS**

Matthew Sindlinger, CEO, Unlimited Green Fuel

3:30PM - 6:00PM

Co-Chairs  
Randall  
Bramston-Cook  
&  
Arthur Nash**H2. BIOFUELS / LANDFILL GAS****H2.1 LARGE SCALE BIOMASS GASIFICATION PLANT INTEGRATED TO A PC-BOILER**

Tyler Biddle, Service Engineer, Metso; Juhani Isaksson

**H2.2 CASE STUDY: CHALLENGES OF PERMITTING LANDFILL GAS TO ENERGY PROJECTS**

Thomas Durham, Sr. Environmental Engineer, DTE Biomass Energy; Michael Kotyk, DTE Biomass Energy; Christopher Locke, Farella Braun + Martel; Steven Branoff, Environ Corp

**H2.3 TANANA RIVER SCHOOL DIST.- CONVERTING WOOD INTO HEAT & EDU. DOLLARS**

(Chair) Arthur Nash, Assistant Energy Extension Prof, U of Alaska Coop Extension; D. Huang

**H2.4 NEXT-GENERATION PLANTS & THE OPERATIONS CONUNDRUM**

Douglas Machon, Director - Business Development, NAES Corporation

**H2.5 ONLINE, DIRECT MEASUREMENT OF VOLATILE SILOXANES IN ANAEROBIC DIGESTER & LANDFILL GASES BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRIC DETECTION**

(Chair) Randall Bramston-Cook, Principal, Lotus Consulting; Edward Bramston-Cook

**H2.6 CALIBRATION STANDARDS FOR MEASUREMENT OF VOLATILE SILOXANES IN ANAEROBIC DIGESTER & LANDFILL GASES**

Edward Bramston-Cook, Technical Director, Lotus Consulting; Randall Bramston-Cook, Lotus Consulting; Santos Puente, VICI Metronics

**H2.7 CELLULOSIC SUGARS TO FUELS & BEYOND**

Christopher Standlee, Executive Vice President, Abengoa Bioenergy

Tuesday | February 4

**7:30AM - 9:30AM H3. BIOMASS/ COFIRING IN POWER PLANTS**Session Sponsor  
and Co-ChairS. Kent  
Hoekman**H3.1 HUMAN HEALTH RISK ASSESSMENT FOR A BIOMASS-FUELED POWER PLANT PROJECT**

Christopher Long, Principal Scientist, Gradient; Peter A. Valberg

**H3.2 BIO-ENERGY FOREST PLANTATIONS FOR THE SOUTHEASTERN UNITED STATES**

Jeff Wright, Manager Hardwood Development, ArborGen Inc.

**H3.3 WATERPROOF WOOD PELLETS VIA HYDROTHERMAL CARBONIZATION (HTC)**

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

**H3.4 ASH DEPOSITION MODELING INCORPORATING MINERAL MATTER TRANSFORMATIONS APPLIED TO BIOMASS CO-FIRING**

Brad Adams, President, Reaction Engineering; K. Davis, H. Wang &amp; J. Valentine

**H3.5 ALLOCATION OF CARBON FOOTPRINT IN AN INTEGRATED ALGAL BIOREFINERY USING FUZZY FRACAMMING**

Aristotle Ubando, Assistant Professor, De La Salle University; Joel L. Cuello, The University of Arizona; Alvin B. Culaba &amp; Raymond R. Tan, De La Salle University

Tuesday | February 4

**H4. CCS: CARBON CAPTURE & STORAGE**

10AM - 12PM

**H4.1 RECLAIMER WASTE DISPOSAL OPTIONS FOR AMINE-BASED POST-COMBUSTION CO2 CAPTURE PROCESSES**

Katherine Dombrowski R&amp;D Project Manager, URS Corporation; Jean Youngerman, URS Corporation; Andrew Sexton, Trimeric Corporation; Paul Nielsen, Eric Chen &amp; Gary Rochelle, UT Austin; Prachi Singh, IEAGHG

**H4.2 INTEGRATION OF SOLID SORBENT CO2 CAPTURE TECHNOLOGY TO PROVIDE FLEXIBLE CO2 CAPTURE OPTIONS IN A TIME OF REGULATORY UNCERTAINTY**

William Morris, Sr. Research Engineer, ADA-ES, Inc.; Sharon Sjoström

**H4.3 EVALUATION OF THE IMPACT OF ION'S CO2 CAPTURE PROCESS ON PULVERIZED COAL POWER PLANT EMISSIONS**

(Chair) Nathan Brown, Director of Research &amp; Development, ION Engineering; Nathan Brown, Greg Staab, John Kay, Rene Kupfer, Jason E. Bara, Alfred E. Brown

**H4.4 THE PLAINS CO2 REDUCTION (PCOR) PARTNERSHIP: A REGIONAL CARBON SEQUESTRATION PARTNERSHIP IN THE INTERIOR PLAINS OF NORTH AMERICA**

Wesley Peck, Research Manager, EERC; E. Steadman, J. Harju, C. Gorecki, L. Botnen, D. Daly, M. Jensen, J. Sorensen, S. Smith, J. Hamling, R. Klapperich, &amp; K. Anagnost

**H4.5 CO2 CAPTURE & CONVERSION IN CEMENT INDUSTRY**

John Kline, Principal, Kline Consulting; Charles Kline

**H5. CCS II**

1PM - 3PM

**H5.1 WORLD'S LARGEST RECTISOL WASH UNIT**

Wolfgang Schoerner, Project Director, Linde Engineering

**H5.2 ESTIMATING CARBON CONTENT OF ARBORGEN POPULUS CLONES AT FOUR RESEARCH TRIALS IN NORTH CAROLINA**

Shawn Shifflett, Graduate Student, North Carolina State University; Jeff Wright, ArborGen; Dennis Hazel &amp; Elizabeth Nichols, NCSU

**H5.3 CRYOGENIC CARBON CAPTURE**

(Chair) Larry Baxter, Founder/Owner, Sustainable Energy Solutions; David Frankman

**H5.4 PROJECT UPDATE OF 500 TPD DEMONSTRATION PLANT FOR COAL-FIRED POWER PLANT**

Tatsuya Tsujiuchi, Research Eng., Mitsubishi Heavy Industries America; T. Wu, T. Yonekawa, P. Wood, Mitsubishi Heavy Industries America; T. Hirata, H. Nagayasu, T. Kamijo, Y. Kubota, Mitsubishi Heavy Industries.; M. French, T. Wall &amp; N. Irvin, Southern Company Services

Co-Chair  
Larry Baxter

Monday | February 3

Tuesday | February 4

1PM - 3PM

**11. ENERGY SUSTAINABILITY****11.1 ARE ENERGY FORECASTING MODELS DRASTICALLY UNDERSTATING THE NEED FOR NEW BASELOAD GENERATION?**

Chris Nichols, Analyst, National Energy Technology Laboratory

**11.2 SUSTAINABLE ENERGY IN AMERICA 2013 FACTBOOK**

Lisa Jacobson, President, Business Council for Sustainable Energy; Bloomberg

**11.3 ENVIRONMENTAL SUSTAINABILITY: THE FIVE FORCES ANALYSIS**

Dejan Ristic, Energy Systems Engineer - Gr. Leader, Argonne National Laboratory

**11.4 COMPARATIVE ANALYSIS OF BEST-IN-CLASS UTILITIES**

Lee Matthews, Sr. Mgr Env. Systems &amp; Analysis, TVA

**11.5 ADVANCING SUSTAINABILITY IN THE ELECTRIC UTILITY SUPPLY CHAIN**

Barbara Gomez, Vice President &amp; Chief Procurement Officer, APS &amp; Chair, Electric Utility Industry Sustainable Supply Chain Alliance

3:30PM - 5:30PM

**12. SUSTAINABILITY PROJECTS**Co-Chairs  
Mark Edwards  
&  
Scott Sanders**12.1 KILL THE CUP: WASTE REDUCTION AT COFFEE SHOPS**

Drew Beal, Co-Founder &amp; Executive Director, Social Ventures for Sustainability; Mike Taylor

**12.2 ABUNDANCE: PRODUCING FOOD & FUEL WITH NET ZERO WATER**

(Chair) Mark Edwards, Professor, Arizona State University

**12.3 THE "LIVING LANDFILL" A DESIGN FOR SUSTAINABLE WASTE MANAGEMENT**

(Chair) Scott Sanders, VP Strategic Innovation, Wyle, Inc.; Keith Coble

**12.4 SUSTAINABILITY 2.0**

Evan Birenbaum, Program Manager, Southern California Edison

**12.5 ONLINE DETERMINATION OF AS, SE & HG IN POWER PLANT DISCHARGE WATER**

Warren Corns, Technical Director, PS Analytical

**12.6 SUSTAINABILITY PROJECT BASED LEARNING MODEL & USING THE CROSS-FUNCTIONAL TEAM APPROACH**

Thomas Miller, President, ZMassociates Environmental Corporation; Tamara Sicard, PhD

Tuesday | February 4

7:30AM - 9:30AM

**13. WASTEWATER MANAGEMENT**Session Sponsor  
and Co-Chair

Bernard Duesel

Co-Chairs  
Kenneth  
Braunstein**13.1 POWER PLANT WASTEWATER MANAGEMENT - FOCUS ON ZLD**

(Chair) Bernard Duesel, VP Technology Heartland Technology Partners, LLC; Craig Clerkin

**13.2 SUSTAINABLE WASTEWATER TREATMENT SOLUTION PROVIDES ENERGY REDUCTION & IMPROVED NUTRIENT REMOVAL**

Bulbul Ahmed, Research &amp; Development Manager, In-Pipe Technology Company, Inc.; Andrew Newbold, In-Pipe Technology Company, Inc.

**13.3 PERFORMANCE EVALUATION OF A VORTEX GENERATING MEMBRANE FOR FLUE GAS DESULFURIZATION WASTEWATER TREATMENT**

Behrang Pakzadeh Senior Civil &amp; Environmental Engineer, Southern Research Institute; J. Vos &amp; J. Renew, P.E., Southern Research Institute; J. H. Min, Ph.D., C. Wardle, J. Kim, Ph.D. &amp; H. Hwang, Ph.D., BKT; R. Breckenridge, EPRI; J. Teng, Southern Company Services

**13.4 GETTING READY FOR ZERO LIQUID DISCHARGE - SOFTENING OF FGD WASTEWATER**

(Chair) Kenneth Braunstein, P.E., Consulting Process Engineer - Water/Wastewater Treatment, URS; Michael Riffe &amp; Dave Berger, Siemens Industry Inc., Water Technologies

**13.5 THE POTENTIAL ROLES OF NATIONAL MARINE FISHERIES & US FISH & WILDLIFE SERVICES IN WATER RESOURCES PERMITTING OF POWER PLANTS**

Mark Gerath, Principal Scientist - Water Resources, ECT; Andy Flajole, NextEra Energy; John Burnett, HDR; Steve Cibik, ECT

**13.6 EFFECTIVE TREATMENT FOR ZEBRA MUSSELS**

David Provence, Envirochemical Supervisor, OG&amp;E Energy

Preliminary Program - Subject to Change

25

**14. 316B****14.1 TECH. CONSIDERATIONS FOR 316(B) IMPINGEMENT MORTALITY COMPLIANCE ALTERNATIVES**

(Chair) Gregory Allen, Director of Environmental &amp; Engineering Services, Alden

**14.2 COMPLYING WITH EPA'S NEW 316(B) RULE - IMPLICATIONS FOR ELECTRIC UTILITIES**

Steve Gruber, Project Manager, Burns &amp; McDonnell Engineering Co. Inc.; Gregory Howick

**14.3 316(B) REGULATORY CONTROLS & AFFECTS ON EXISTING POWER PLANT COOLING**

Brett DeRousse, National Account Manager, Intralox

**14.4 UPDATE ON THE 316B WATER INTAKE RULE**

Greg Seegert, Chief Ichthyologist, EA Engineering, Science &amp; Technology

**14.5 EPRI FISH PROTECTION RESEARCH IN CONTEXT WITH FINAL 316(B) REQUIREMENTS**

David Bailey, Senior Project Manager, Electric Power Research Institute (EPRI)

**14.6 IMPACT OF FUTURE CLIMATE CHANGE, CLIMATE POLICY, & REQS FOR ADVANCED COOLING SYSTEMS ON THE ENERGY-WATER NEXUS FOR THERMAL POWER PLANT SITING**

Jennie Rice, Senior Research Scientist, Pacific Northwest National Laboratory; L Clarke, M Hejazi, M Huang, R Leung, H Li, M Kintner-Meyer, P Kyle, S Morris, T Seiple, N Voisin, N Zuljevic

10AM - 12PM

Co-Chair  
Gregory Allen**15. WATER SUSTAINABILITY****15.1 DYNAMIC PROCESS MODELING OF WATER AT POWER PLANTS**

Jason Curl, Senior Technologist, CH2M HILL; Kristen Jenkins

**15.2 IMET, SUSTAINABLE WASTEWATER RECOVERY & RE-USE TECHNOLOGY**

Mehmet Gencer, CEO, IMET Corporation; Paul Zakrski

**15.3 INTEGRATION OF ADVANCED BIOLOGICAL NUTRIENT RECOVERY™ FOR USE IN SUSTAINABLE WATER REUSE APPLICATIONS**

Rick Johnson, Vice President, Business Development, Clearas Water Recovery

**15.4 TAPPING INTO HIDDEN CAPITAL FOR INFRASTRUCTURE RENEWAL**

Dave Robinson, Sales Engineer, Honeywell

**15.5 ZLD LANDFILL OPERATIONS - PRAIRIE STATE GENERATING COMPANY**

(Chair) Dan Whalen, Vice President, Hanson Professional Services Inc.; Nathan Higginson, Prairies State Generating Company

**15.6 CHARACTERIZING TRACE ELEMENTS EMISSIONS FROM COAL-FIRED POWER PLANTS**

Naf Sekhar, Senior Consultant, CH2M Hill

1PM - 3PM

Co-Chair  
Dan Whalen**16. WATER & ELECTRIC UTILITIES****16.1 FGD SCRUBBER WSTWATER ZLD SOLID WASTE CHARACTERIZATION & DISPOSAL OPTIONS**

Kirk Ellison, Research Scientist, Southern Company Services

**16.2 SECONDARY CONTAINMENT AT LARGEST US SOLAR PROJECT**

Jamie Aderhold, VP, C.I. Agent StormWater Solutions

**16.3 ZERO LIQUID DISCHARGE & SOLID WASTE STABILIZATION SYSTEM FOR FGD WASTEWATER**

Shintaro Honjo, Engineering Manager, Mitsubishi Heavy Industries America, Inc.; S. Miller, Advatech - URS; M. Ito, N. Inaba &amp; S. Sugita, T. Ushiku, T. Nagayasu, T. Fukuda &amp; S. Kagawa

**16.4 WASTEWATER TREATMENT & ZERO LIQUID DISCHARGE TECHNOLOGIES**

Gordon Maller, Senior Project Manager, URS Corporation, Process Technologies

**16.5 THE WATER RESEARCH CENTER (WRC) - A RESOURCE FOR THE INDUSTRY**

(Chair) George Offen, Sr. Technical Executive, EPRI; Richard Breckenridge, EPRI; Jeff Wilson, Southern Company; Jay Vos, Jay Renew, &amp; Ben Pakzadeh, Southern Research Institute

**16.6 ANTICIPATING COMING REGULATORY CHANGES**

Kristen Jenkins, Senior Technologist, CH2M HILL

**16.7 PATENT INCREASES POWER PLANT EFFICIENCY & PRESERVES COOLING WATER TEMPS**

Vince Marshall, Chief Engineer, Cherokee Energy

3:30PM - 6:00PM

Session Sponsor  
and Co-Chair

George Offen

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Wednesday | February 5

**7:30AM - 9:30AM 17. WATER - REGULATORY UPDATES**Session Sponsor  
and Co-Chair

Manitia Moultrie

**17.1 SURVIVING NEW EFFLUENT GUIDELINES**

Ivan Cooper, Practice Leader/Principal, Civil &amp; Environmental Consultants

**17.2 IMPLICATIONS OF EPA'S PROPOSED CLEAN WATER ACT 316(B) REGULATIONS ON THE POWER INDUSTRY**

Kurtis Schlicht, Sr. Consultant, Environmental Resources Management

**17.3 THE IMPACT OF THE CWA ON THE UTILITY INDUSTRY**

(Chair) Manitia Moultrie, U. S. Power Sector Leader, Golder Associates

**17.4 ELG: COMPLIANCE STRATEGY REVIEWS**

Patricia Scroggin, Process Section Manager- Energy Division, Burns &amp; McDonnell

**17.5 THE IMPORTANCE OF SITE-SPECIFIC FACTORS FOR COMPLIANCE WITH THE FINAL 316(B) EXISTING FACILITIES RULE**

Mark Gerath, Principal Scientist - Water Resources, ECT; John Burnett, HDR; Steve Cibik &amp; Erik Heinen, ECT

**17.6 DOES FINANCIAL ASSURANCE BELONG IN NEPA?**

Paul Bailey, Senior Fellow, ICF International

**10AM - 12PM**Session Sponsor  
and Co-Chair**BLACK & VEATCH**  
Kelly SandersCo-Chair  
Sayan  
Chakraborti**18. WATER MANAGEMENT****18.1 MEETING PROPOSED EPA EFFLUENT LIMITATION GUIDELINES FOR STEAM GENERATORS**

Michael Preston, Chemical Engineer, Black &amp; Veatch

**18.2 LOW COST & HIGH EFFICIENCY WATER DEMINERALIZATION/DESALINATION SYSTEM FOR POWER PLANTS USING LOW TEMPERATURE VACUUM EVAPORATION**

(Chair) Sayan Chakraborti, Senior Program Manager, MRIGlobal; Oguz Capan, Hittite Solar Energy; Martin Smith, MRIGlobal

**18.3 A NEW COMBINED DESALINATION & REFRIGERATION SYSTEM FOR ENERGY & EXERGY EFFICIENT FRESH WATER & COOLING GENERATION**

Iman Janghorban Esfahani, Ph.D student, Kyung Hee University; ChangKyoo Yoo &amp; JeungTai Kim, Kyung Hee University

**18.4 WATER CRISIS & WATER REQUIREMENTS OF WHEAT CULTIVATED ON NW COAST**

Abd Rab El-Nabi Abd El-Hady, Chairman of Dep. Natural Resources &amp; Agric.Eng., Damanhour University; Eamd Fawzy Abdelaty

**18.5 IS THE POWER SECTOR AN UNTAPPED OPPORTUNITY FOR WATER CONSERVATION?**

(Chair) Kelly Sanders, Assistant Professor, The University of Southern California

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Monday | February 3

**1PM - 3PM**

**J1. ENERGY EFFICIENCY**

**J1.1 CUTTING YOUR BOTTOM LINE BY IMPROVING INDOOR AIR QUALITY**  
Ray Markey, Western Region Manager, Dynamic Air Quality Solutions

**J1.2 COMPELLING REASONS TO ACTIVELY ENGAGE YOUR CUSTOMER**  
Victor Brown, Vice President - Business Development, Tendril

**J1.3 ESTIMATION OF ENERGY SAVING EFFECT OF ELECTRIC PROPULSION SHIP EQUIPPED WITH SUPERCONDUCTING SYSTEM BASED ON ACTUAL NAVIGATION DATA**  
Masayoshi Numano, Research Specialist National Maritime Research Institute of Japan

**J1.4 PREPARATION OF PARAMAGNETIC CUNI@C NANOPARTICLES**  
H. Paul Wang, Professor, National Cheng Kung University; Y.-M. Chiu & C.-L. Wong, Department of Environmental Engineering, National Cheng Kung University

**J1.5 COATINGS AND ENERGY CONSERVATION**  
Michael Eberbach, Senior Consultant, Measurement & Verification Engineering

**J1.6 MARKETING ENERGY EFFICIENCY WITH RENEWABLE ENERGY**  
Alden Hathaway, SVP Business Development, Sterling Planet

**3:30PM - 6:00PM**

**J2. ENERGY MANAGEMENT**

**J2.1 PERSUADING CONSUMERS TO UNDERTAKE DEMAND REDUCTION ACTIONS**  
V. Rory Jones, President, PlanetEcosystems, Inc.; Steve Malloy

**J2.2 HOME AREA NETWORKS - CONSTRUCTIVE OR COSTLY?**  
Dale Pennington, Managing Director, UtiliWorks Consulting, LLC.

**J2.3 ENVIRONMENTAL LIFE CYCLE ASSESSMENT OF UTILITY DISTRIBUTION POLES**  
Mark Thimons, Director- Construction Sustainability, American Iron and Steel Institute; Keith Killpack, SCS Global Services

**J2.4 COMMUNITY SOLAR: THE NEXT GENERATION OF UTILITY GREEN PRICING PROGRAMS**  
(Chair) Dan Lieberman, Senior Manager - Utility Partnerships, 3Degrees Inc.

**J2.5 RIGHT PORTFOLIO OF RENEWABLE, DEMAND RESPONSE & ENERGY EFFICIENCY**  
Prateek Saxena, VP - Utilities, Tech Mahindra

**J2.6 USING BIG DATA TO ACHIEVE BOTH BREAD & DEPTH SAVINGS**  
Steven Meyers, President, EnerPath

**J2.7 A FRESH TAKE ON DEMAND RESPONSE**  
Scott McGaraghan, Business Development, Nest Labs

Tuesday | February 4

**7:30AM - 9:30AM**

**J3. SMART GRID**

**J3.1 BUILDING A "SMART GRID"-- HOW TO GET IT DONE**  
Dale Pennington, Managing Director, UtiliWorks Consulting, LLC.

**J3.2 THE SMART GRID IS COMING: WHY HOURLY PRICING IS KEY**  
David Becker, Director of Dynamic Pricing, CNT Energy

**J3.3 OPTIMIZING GENERATION, DISTRIBUTION, RENEWABLES, & DEMAND RESPONSE**  
(Chair) John Dirkman, Sr. Product Manager, Schneider Electric

**J3.4 MANAGING GRID DYNAMICS WHILE MINIMIZING GHG EMISSIONS & WATER USAGE**  
Matthew Fisher, Sales Manager, Wartsila; Mikael Backman

**J3.5 RETHINKING UTILITY CYBER SECURITY**  
Eamonn McCormick, Senior Director, Alvarez and Marsal; Brian Lenane

Tuesday | February 4

**10AM - 12PM**

**J4. ENERGY EFFICIENCY & MGMT**

**J4.1 COMMERCIAL BUILDINGS: SMART GRID, DEMAND RESPONSE & ENERGY MGMT**  
(Chair) Mike Zimmerman, Founder & CEO, BuildingIQ

**J4.2 AGGRESSIVE BUILDING STANDARDS ACROSS THE US**  
Michael Scott, Senior Staff Economist, Pacific Northwest National Laboratory; DS Daly, C Lansing, HC McJeon, PL Patel, M Peterson, JS Rice, Y Zhou

**J4.3 CREATING WEALTH FROM EFFICIENCY**  
Willem Lange, Director - Utility Market Development, WaterFurnace International

**J4.4 DO 5 THINGS: ENGAGING CUSTOMERS IN ENERGY EFFICIENCY BEHAVIOR CHANGE**  
Suzanne Shelton, CEO, Shelton Group

**J4.5 THE PSYCHOLOGY OF SAVING ENERGY**  
Joel Cervelloni, Engagement Manager, Opower

**J4.6 SHIFTING PEAK ENERGY DEMAND: LAX TO LAGUARDIA**  
Brock Treece, Staff Scientist, AECOM; Michael Conrardy

**J5. DEMAND RESPONSE/ENERGY EFFICIENCY**

**J5.1 DEMAND SIDE MANAGEMENT & THE SMART GRID**  
Dale Pennington, Managing Director, UtiliWorks Consulting, LLC.

**J5.2 OPENADR - STANDARDIZE, AUTOMATE & SIMPLIFY DEMAND RESPONSE**  
Barry Haaser, Managing Director, OpenADR Alliance

**J5.3 HEAT BALANCE IMPACTS OF WALL CLEANING, COMBUSTION MODIFICATIONS, & HEAT TRANSFER SURFACE MODIFICATIONS IN COAL-FIRED BOILERS**  
(Chair) Marc Cremer, VP - Engineering Analysis, Reaction Engineering Intl.; Andrew Chiodo

**J5.4 ADVANCED DMS FOR FORECASTING, RENEWABLES, DISTRIBUTED ENERGY RESOURCES, & MICROGRID MANAGEMENT**  
John Dirkman, Sr. Product Manager, Schneider Electric

**J5.5 EFFECT OF THERMAL BRIDGES IN INSULATED WALLS ON AIR-CONDITIONING LOADS USING WHOLE BUILDING ENERGY ANALYSIS**  
Mohamed Fouad Zedan, Professor, King Saud University; Sami AL-SANEA, King Saud University, Saudi Arabia

**J5.6 "THIRD MILLENNIUM SCORE CARD" - GREEN, LEAN AND CLEAN**  
Vishal Chikhalikar, AVP, Tech Mahindra; Hariharasuthan GB, M. Kartik & D. Devadason

**J6. ENERGY MANAGEMENT II**

**J6.1 AUTOMOTIVE THERMOELECTRIC GENERATORS & HVAC**  
John Fairbanks, Technology Development Manager, US Dept of Energy

**J6.2 REAL TIME DATA CENTER COOLING SYSTEM**  
Darrell Richardson, CEO, R4 Ventures LLC; Mike Reytblat

**J6.3 INNOVATION METHODS**  
Shridar Ayer, President, Ambreen and Associates; N. Jayaram

**J6.4 UTILITY-CONTRACTOR PARTNERSHIPS INCREASE CONVERSION RATES**  
Jason Hanleybrown, CEO, Fast Water Heater Company

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# Sunday Workshops

Workshop 1 - Room 221A(9am -12pm)

### Permitting & Compliance

Eric Hiser, Jordan, Bischoff & Hiser

Phone: 480-505-3927

Email: [ehiser@jordanbischoff.com](mailto:ehiser@jordanbischoff.com)

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.

**JORDEN BISCHOFF  
& HISER, PLC**  
— ATTORNEYS AT LAW —

Workshop 2 - Room 221B (9am - 12pm)

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

Robert Iwanchuk, CCM (AECOM)

Robert Paine, CCM, QEP (AECOM)

Phone: 978-905-2352

Email: [bob.paine@aecom.com](mailto:bob.paine@aecom.com)

This workshop will provide an overview of SO2, NO2, and PM2.5, NAAQS regulatory implementation and dispersion modeling procedures, with AECOM-suggested refinements as appropriate.

**AECOM**

Workshop 3 - Room 221C (10am - 2pm)

### Emerging Air Quality, Greenhouse Gas and Energy Requirements

Rich Pandullo, Trinity Consultants

Email: [rpandullo@trinityconsultants.com](mailto:rpandullo@trinityconsultants.com)

This workshop will review and assess the regulatory and stakeholder impacts of the new regulations and provide attendees with tools and response strategies to improve the chances for survival

**Trinity  
Consultants**

Workshop 4 - 222A (1pm - 5pm)

### Designing and Implementing a Cost-effective MATS Filterable Particulate Matter Compliance Demonstration Strategy

TRC Solutions

Our four-hour workshop will be divided into two sessions to address critical issues governing the design and implementation of emission testing programs for Mercury Air Toxics Standards (MATS) compliance. The first session will focus on filterable particulate matter (FPM) measurement, helping participants understand the various FPM compliance demonstration options allowed by MATS. The second session will focus on emission test program design for dry sorbent injection (DSI) systems, helping participants understand how to design test programs that optimize DSI system placement and operation.

**TRC**

Workshop 5 - 222C (8am - 5pm)

### AERMOD Air Dispersion Modeling Course

Lakes Environmental

The AERMOD Air Dispersion Modeling Course provides attendees with a full understanding of the AERMOD modeling system by balancing theory with actual presentation of real world casestudies. At the end of this course, participants should be able to understand the basics of AERMOD the US EPA regulatory air dispersion mode for permit applications and risk assessment. This course is intended for air quality professionals working, or planning to work, in the assessment of air pollution impact.

**Lakes  
Environmental**



# Exhibit Floorplan

Phoenix Convention Center  
North Building, 3rd Floor

## AVAILABLE BOOTHS

	Premium Corner (10'x10')	\$4,500
	Bronze on red carpet (10'x10')	\$5,000
	Silver Double Booth (20'x10')	\$10,000

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## Companies Exhibiting at EUEC 2014

821 ADA Carbon Solutions (ADA-CS)	829 GoldSim Technology Group LLC	426 Universal Analyzers, Inc.
440 ADA-ES, Inc.	815 Grace Consulting, Inc.	327 URS Corporation
227 AECOM, Inc.	627 Great Lakes Solutions	800 US DOE Office of Clean Coal
634 Air Hygiene	402 Heartland Technology Partners, LL	934 Vensoft
326 Airgas	221 Horn Industrial Services	243 VICI Metronics
435 Airtech Environmental Services	441 Hydrazine Neutralizing Solutions	300 VIM Technologies, Inc.
201 Albemarle Corporation	614 Hydrolox	135 xOverTime
926 Albarrie USA	833 ICL Industrial Products	628 Zequanox by MBI
733 Alicat Scientific Inc.	133 IEEE	
340 All Erection & Crane Rental	241 IMACC	
640 Altech Environment USA	701 Industrial Accessories Company	
732 America Greener Technologies	627 Kiewit	
728 American Fire Equipment	626 Lakes Environmental Software	
722 APCS	235 Lhoist North America	
741 APEX Instruments, Inc.	234 Lifting Gear Hire	
117 AQS	940 M&C Tech Group North America	
443 Atum Services Inc.	920 Mcllvaine	
315 Avogadro Group, LLC	420 METCO Environmental	
127 AWMA	232 Midwest Energy Emissions Corp.	
421 B3 Systems, Inc.	417 Millennium Instruments	
641 Babcock & Wilcox	223 Mississippi Lime Company	
622 BASF	214 Mitsubishi Heavy Industries	
826 Biogenic Reagents	727 MKS Instruments, Inc.	
226 Buhler Technologies LLC	840 Nalco Air Protection Technologies	
320 Burns & McDonnell	217 Nexus	
633 BWF Envirotec, USA	600 NREL	
900 C Trade	316 Nol-Tec Systems, Inc.	
841 Cabot Norit Activated Carbon	822 North American Dismantling Corp	
801 Calgon Carbon Corporation	740 Novinda	
321 California Analytical Instruments	220 Ohio Lumex Company, Inc.	
617 Carbonxt, Inc.	820 P S Analytical	
735 Catalyst Air Management, Inc.	229 Parker Hannifin Corporation	
401 CB&I	715 PCME Ltd	
714 CEM Service Group	932 Perma Pure, LLC	
121 Cemtek Environmental, Inc.	322 Pine	
333 Chemco Systems	129 Power	
615 CISO - Custom Instr. Services	734 Praxair	
328 Civil & Environmental Consultants	228 Red Ball Technical Gas Services	
716 Claybom Lab	422 RMB Consulting & Research, Inc.	
400 CleanAir Engineering	216 Roto Wind System	
402 CleanAir Instruments	433 Segal, Inc.	
432 Clean Harbors	700 SICK	
233 Contec Systems Industrial Corp.	323 Siemens Industry, Inc.	
415 Control Analytics, Inc.	215 SNEI Biological	
827 Creative Communications	341 SOLVAir	
623 credit360	334 Southern Environmental, Inc.	
817 Dakota Software Corporation	726 Southern Research Institute	
834 Day & Zimmermann	434 Spectrum Systems, Inc.	
835 Delavan Limited	123 Sper Scientific	
743 DSG Solutions, LLC	314 STEAG Energy Services, LLC	
814 Durag, Inc.	332 Sterling Planet Inc.	
222 EA Engineering, Science & Tech.	922 Superlok USA	
616 Enviance, Inc.	629 Technical Heaters, Inc.	
429 Environmental Consulting & Tech.	335 Teledyne API	
414 Environmental Energy Services	717 Teledyne Monitor Labs	
723 Environmental Supply Co., Inc.	317 Tetra Tech, Inc.	
301 ERM	423 Thermo Bond Building, LLC	
721 ETQ, Inc.	601 Thermo Scientific	
428 Eurofins Frontier Global Sciences	115 Thematize	
832 FLSmidth-AFT Division	635 Tiger Optics, LLC	
621 Fuel Tech, Inc.	729 Trachte Inc.	
720 Gasmel Technologies, Inc.	416 TRC Environmental Corp.	
816 Genstar Tech. Co., Inc(GENTEC)	329 Trinity Consultants	
241 Geosyntec	303 Trinity Services, Inc.	
632 Golder Associates, Inc.	620 United Conveyor Corp.	

## Show Hours | Feb 2 - 5, 2014

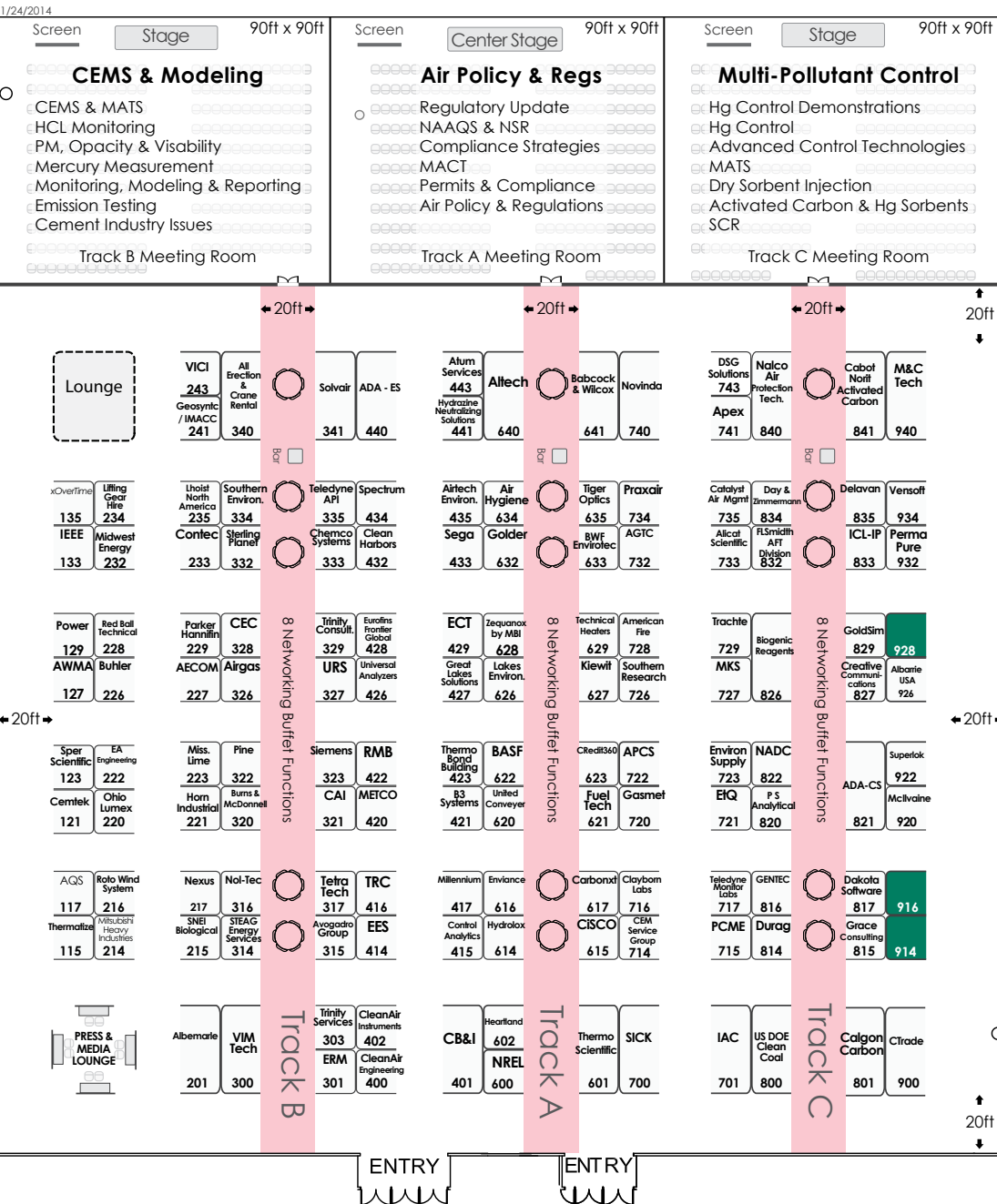
Setup 2/2	1 pm - 7 pm
Carry In 2/3	7 am - 10 pm
Mon 2/3	12 pm - 7 pm
Tue 2/4	9 am - 7 pm
Wed 2/5	9 am - 12 pm
Breakdown 2/5	12 pm - 4 pm

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AM Breaks	9:30 am - 10 am
Lunches	12 pm - 1 pm
PM Breaks	3 pm - 3:30 pm
Receptions	5 pm - 7 pm

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- One Free registraton
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- Marketing in Guide, Web & Newsletter



# Map

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



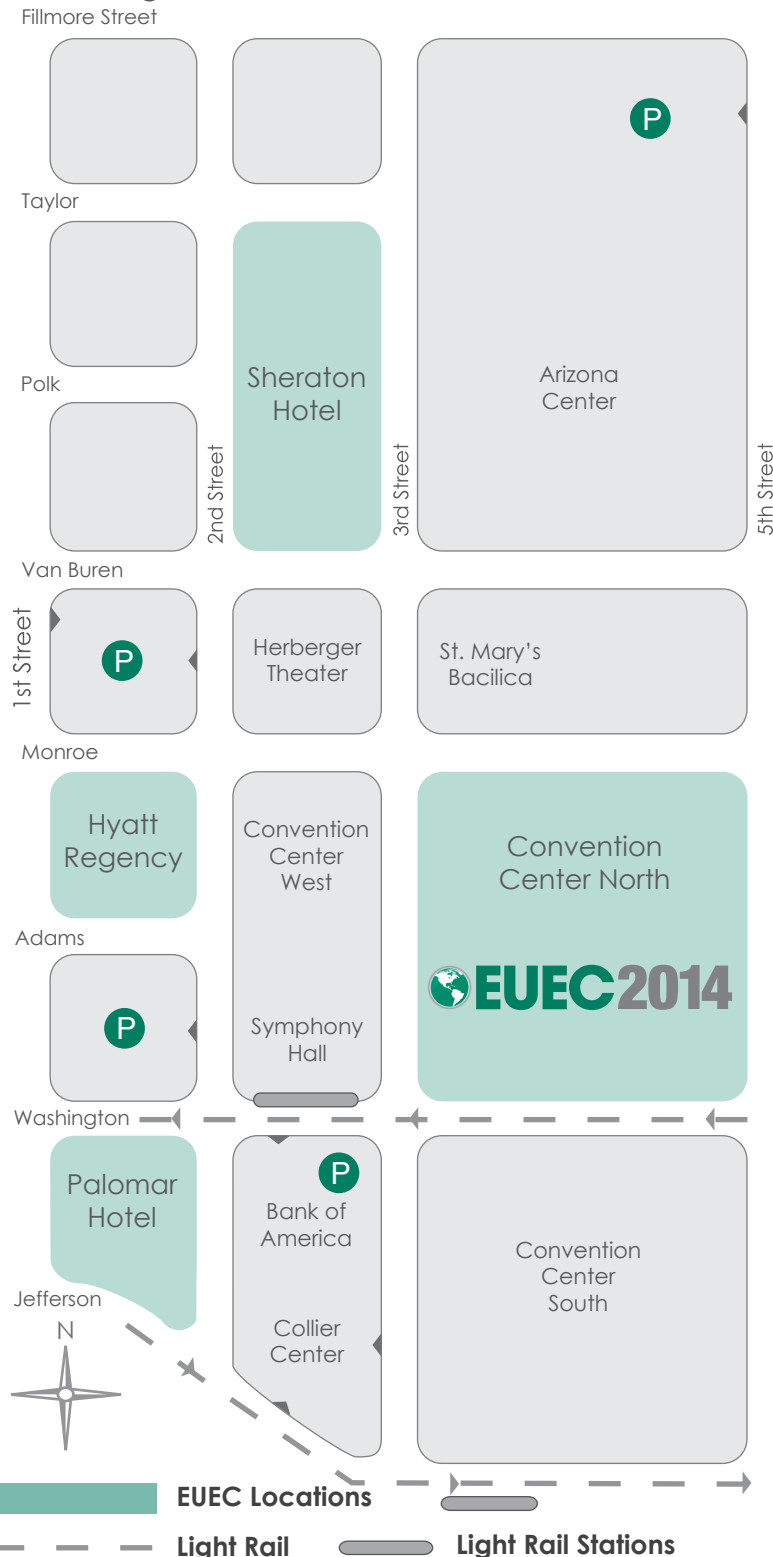
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As a Network Reception sponsor you will have your name and logo in front of conference attendees on each meal ticket

## 7. Golf Sponsor – \$3,000

Exclusive sponsorship of the 2013 EUEC golf tournament with recognition at the opening breakfast, and closing awards luncheon. Includes two foursomes in the tournament, welcome banner at the course, tee signs and sponsor logo on the pairings form. A custom golf gift with company logo will be given to each player.

## Rewards of Sponsorships:

- Face-to-face contact with potential new customers among 2,000 delegates
- Unparalleled exposure for you and your brand
- Strategic marketplace positioning

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