

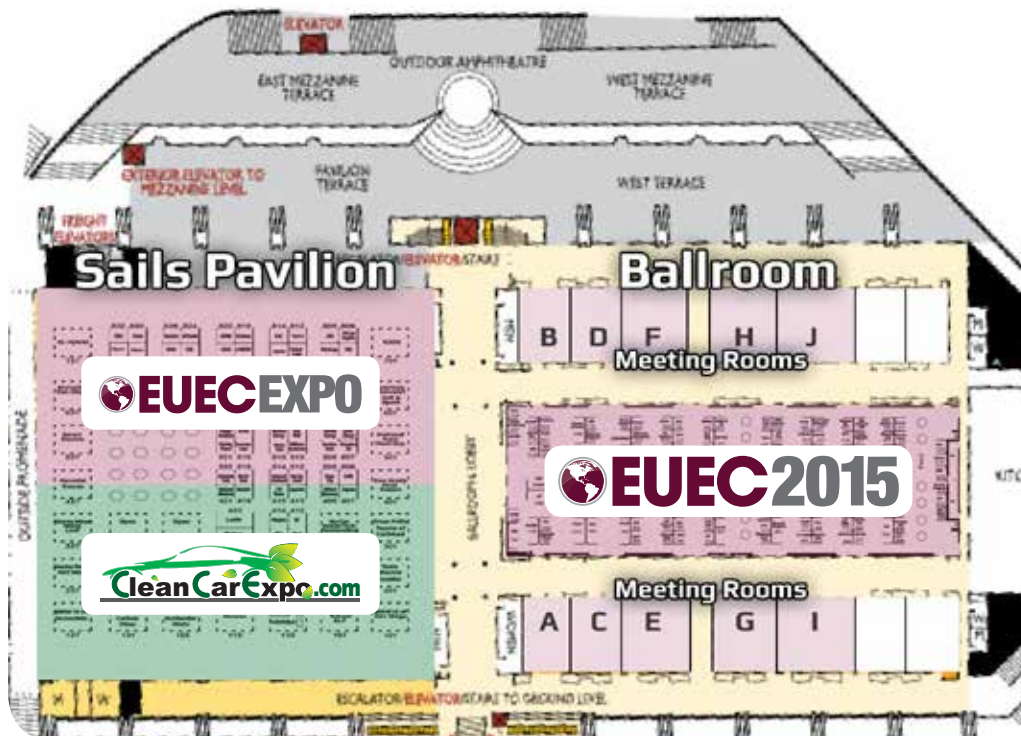
EXHIBIT SHOW HOURS

Mon.	9 am to 7 pm
Tues.	9 am to 7 pm
Wed.	9 am to 12 pm
Breakdown	12 pm to 4 pm

EUEC NETWORKING RECEPTIONS

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

Location Map of Co-Located Events



REGISTRATION COST INCLUDES:

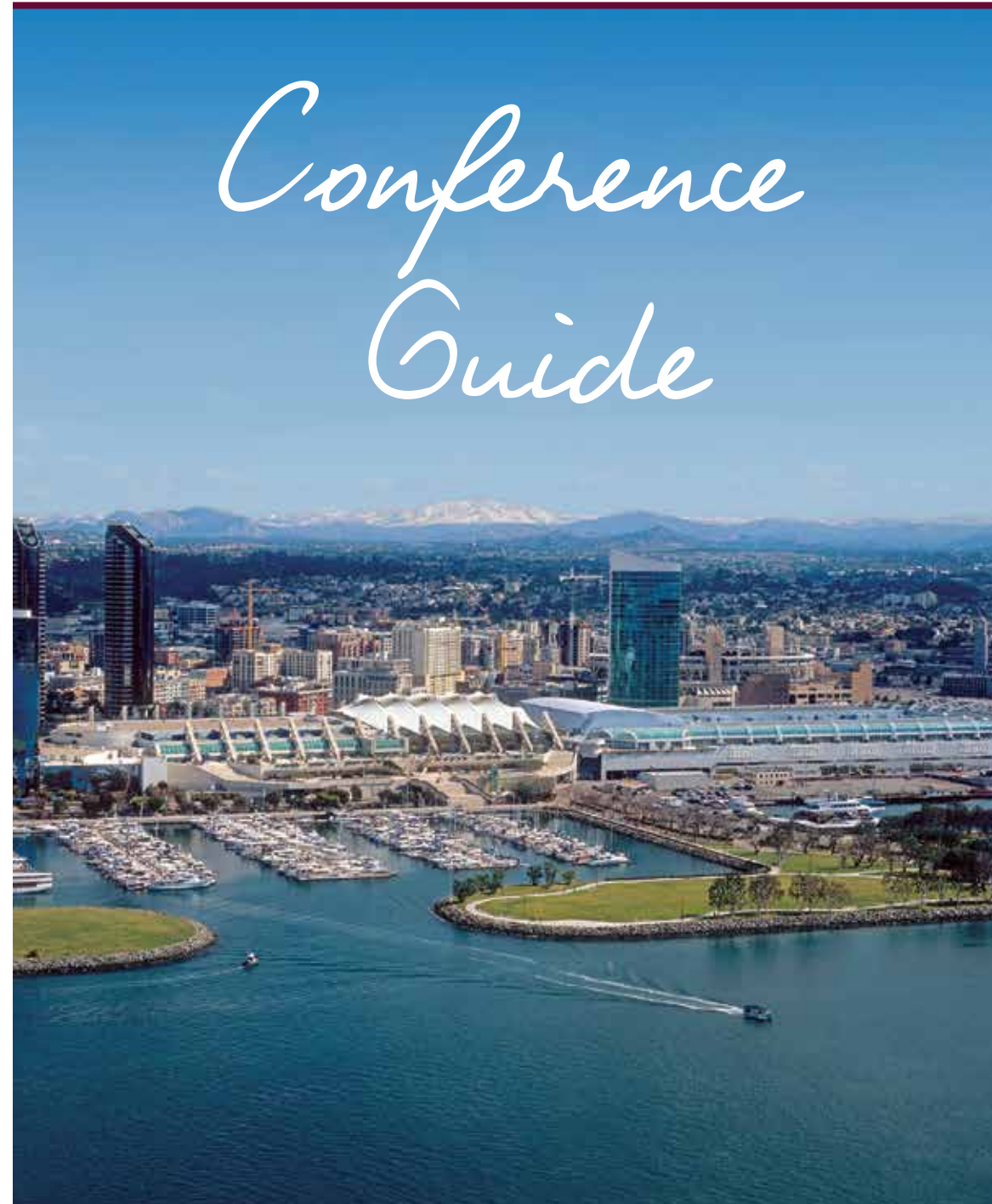
- 11 networking meals tickets for 3 days (\$300 value)
- Flash Drive proceedings with 400 speakers audio (\$495 value)
- Attend all 500 presentations & both events for 3 days

REGISTER ONLINE	NOW	FEB 12.	ON SITE
Attendee (Full Reg)	\$995	\$1,095	\$1,395
Exhibitor / Speaker/Govt	\$695	\$795	\$1,295
Utility Employee	\$595	\$695	\$1,295
EUEC Exhibitor Pass	\$395	\$495	\$595
Clean Car Expo Pass	FREE	\$100	\$200

Ballroom

Sails Pavilion

Conference Guide



San Diego Convention Center, 111 W Harbor Dr., San Diego, CA 92101

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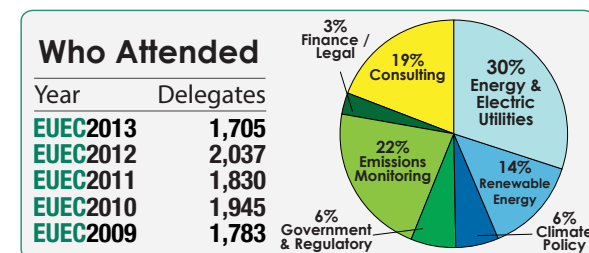
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What is EUEC?

EUEC2015: The 18th Annual Energy, Utility & Environment Conference & Expo, is USA's largest professional networking & educational event of its kind, held Feb 16 - 18, 2015, at the San Diego Convention Center, San Diego, California.

The technical program consists of over 400 speakers in 10 concurrent tracks held in the meeting rooms A to J across the EUEC 2015 exhibit ballroom.

Over 2,000 delegates pre-registered for the joint events.



What is Clean Car Expo?

EV • CNG • NGV • Biofuels • Hybrid • Fleet



**CO-LOCATED
IN SAILS PAVILION**

Clean Car Expo is held concurrently in the Sails Pavilion, showcasing alternate fuel vehicles, technology companies, suppliers, fuel providers, and consultants including EV, CNG, H2, NGV, biofuel, hybrid and fleet management companies.

The Clean Car Expo promotes the Clean Cities Program, to support alternative and renewable fuels, and implement alternative-transportation and advanced vehicle projects, and other measures that reduce U.S. reliance on petroleum consumption in the transportation sector.

Clean Car Expo promotes the program by offering free exhibit space for alternate fuel vehicles, and free admission passes to Clean City Coalitions, fleet operators, and other transportation professionals. Registration is required for the free passes.

Track J of the technical program, held in Ballroom is dedicated to speakers in the Clean Car Session.

The Clean Car Expo is located in the Sails Pavilion across, from the EUEC 2015 Ballroom. Free passes may be upgraded for admission the EUEC 2015 conference in the Ballroom. EUEC delegates get free access to the Clean Car Expo and EUEC Expo in the Sails Pavilion.

Media Partners



Mission Statement

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

EUEC2015 Exhibit & Network Schedule

Sunday | Feb. 15th

7:00 am - 7:00 pm Registration

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

5:00 pm - 8:00 pm Welcome Reception

Monday | Feb. 16th

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

5:00 pm - 7:00 pm Network Reception 3

Tuesday | Feb. 17th

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

5:00 pm - 7:00 pm Network Reception 7

Wednesday | Feb. 18th

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

Show Hours | Feb 16 - 18, 2015

Sun Setup 2/15	1 pm - 7 pm
Mon Carry In 2/16	7 am - 10 pm
Mon 2/16	12pm - 7 pm
Tue 2/17	9 am - 7 pm
Wed 2/18	9 am - 12 pm
Breakdown 2/18	12 pm - 4 pm

Keynote

Monday, February 16th, 9:00 AM - 12:00 PM

San Diego Convention Center | 111 W. Harbor Dr. | San Diego, CA



UPDATE ON CLEAN AIR ACT ACTIONS

JANET MCCABE — 9:00 AM - 9:30 AM

Assistant Administrator | U.S. Environmental Protection Agency



COMMERCIAL DEPLOYMENT OF CARBON CAPTURE AND STORAGE PROJECTS

DR. JULIO FRIEDMANN — 9:30 AM - 10:00 AM

Deputy Assistant Secretary for Clean Coal | US DOE



UTILITY SOLUTIONS FOR REGULATORY CHALLENGES

WARNER L. BAXTER - 10:00 AM - 10:30 AM

Chairman, President and CEO | Ameren Corporation



SHARED SOLUTIONS FOR LOCAL AIR POLLUTION, CLIMATE CHANGE, AND ENERGY SECURITY

DR. BARRY R. WALLERSTEIN - 10:30 AM - 11:00 AM

Executive Officer | South Coast Air Quality Management District



ACCELERATING THE TRANSITION TO CLEAN TRANSPORTATION

LEN HERING, RADM, USN (RET.) - 11:00 AM - 11:30 AM

Executive Director | California Center for Sustainable Energy



HIGHLIGHTS OF EUEC2015 & CLEAN CAR EXPO

DR. PRABHU DAYAL — 11:30 AM - 12:00 PM

Chairman | EUEC



EUEC Program At - A - Glance

Track	A	B	C	D	E	F	G	H	I	J
Sessions	AIR POLICY & REGULATIONS	CEMS & AQ MONITORING	MERCURY CONTROL	ENERGY POLICY & SECURITY	CONTROL TECHNOLOGIES	RENEWABLE ENERGY	OPERATIONS & MGMT	CCS & FUEL TECHNOLOGIES	WATER 316(b)	TRANSPORTATION
Monday February 16										
1 1:00PM to 3:00PM	Regulatory Update	CEMS & Air Quality	Hg Control Demonstrations	Energy Policy & Security	Control Technologies	Renewable Energy Markets	Decommissioning of Power Plants	Carbon Footprint & Green Projects	Wastewater Mgmt.	Fleet
2 3:30PM to 5:30PM	Regulatory Update - GHG	CEMS & MATS	Activated Carbon - Hg	Sustainability Projects	ESP	Distributed Generation	Power Plant & Boiler Optimization	GHG & eGrid Updates	Water & Electric Utilities	
Tuesday February 17										
3 7:30AM to 9:30AM	NAAQS	HCL Monitoring	Hg Control Technologies	Energy Efficiency	PM, Opacity & Visibility	Renewable Development Analysis	EHS & EMIS	Biofuels, Ethanol & Biodiesel	316b	EV, PHEV, Hybrid Systems
4 10:00AM to 12:00PM	NSR	Monitoring, DAS & Protocol Gasses	Dry Sorbent Injection	Smart Grid & Energy Rates	111(d)	Renewable Project Development	EHS & Risk Mgmt.	Biomass	316b	Battery & Storage Systems
5 1:00PM to 3:00PM	CAA Compliance	Sorbent Traps & CEMS	Hg MATS Compliance	Energy Policy & Finance	SO2, SO3 & Additives	Solar & Wind	Remediation, Ecological Design & Mitigation	Coal Ash / CCP	FGD Wastewater -ZLD	H2 Fuel Cells
6 3:30PM to 5:30PM	Compliance Strategies	Modeling	Hg Demonstration & Installation	Energy Efficiency & Data	NOx CONTROL	Solar & PV	Operations & Optimization	Alternative Energy	FGD Wastewater	
Wednesday February 18										
7 7:30AM to 9:30AM	Permits & Compliance	Monitoring & Reporting	Hg Control	Natural Gas	SCR & Control Technologies	Community Solar	Compliance Technologies & Strategies	California Climate Management	Water Sustainability	
8 10:00AM to 12:00PM	MATS Compliance & Air Policy		HG Control & ESP	Climate Change - Risk Management		Batteries & Storage	Operations & Mgmt.	CCS: Carbon Capture & Storage		
9 1:00PM to 3:00PM				Energy Technology		Renewable Energy		CCS II		

Monday | February 16

1PM - 3PM

A1. REGULATORY UPDATE

Session Sponsor
and Co-Chairs

 SUTHERLAND

Jay Holloway

A1.1 REGULATORY UPDATE

John Kinsman, Sr. Director - Environment, Edison Electric Institute

A1.2 THE POST-CLEAN POWER PLAN COAL FLEET & COMPLIANCE WITH OTHER AIR, WATER & WASTE RULES

Jay Holloway, Partner, Sutherland Asbill & Brennan LLP

A1.3 STRATEGIC IMPLICATIONS OF NEW ENVIRONMENTAL RULES

Block Andrews, Strategic Environmental Solutions Director, Burns & McDonnell

A1.4 EXPERT TESTIMONY AT ADJUDICATED PERMIT HEARINGS

Gale Hoffnagle, Senior Vice President & Technical Director, TRC Environmental Corporation

A1.5 NSR 2015 - NEW & CONTINUING CHALLENGES FOR ELECTRIC UTILITIES

Kenneth Weiss, Partner, ERM

A1.6 UARG V. EPA: WHAT DOES IT MEAN FOR EPA'S GHG REGULATORY PROGRAM?

William Wehrum, Partner, Hunton & Williams

 Edison Electric
Institute
Power by Association

John Kinsman

3:30PM - 5:30PM

A2. REGULATORY UPDATE - GHG

Session Sponsor
and Co-Chair

 Minnesota power

Michael Cashin

A2.1 PROPOSED CLEAN POWER PLAN REGULATION, STRATEGIC RESPONSE FOR STATE & UTILITY COMPLIANCE

Michael Cashin, Environmental Policy Advisor, Minnesota Power(ALLETE)

A2.2 COMING SOON TO A UTILITY NEAR YOU – THE SOCIAL COST OF CARBON. . .

Ron Crum, VP, AECOM

A2.3 GREENHOUSE GAS PERFORMANCE STANDARDS FOR POWER GENERATION: A SURVEY OF ISSUES & APPROACHES

Jeff Chaffee, President, Bison Engineering, Inc.; Kevin Matthews

A2.4 POLICY ARCHITECTURE & CLEAN POWER PLAN: SOLID FOUNDATION OR HOUSE OF CARDS?

Marc Chupka, Principal, The Brattle Group

A2.5 POTENTIAL IMPACTS OF EPA'S PROPOSED GHG RULE ON PJM

Gary Helm, Lead Market Strategist, PJM Interconnection

A2.6 GHG REGULATIONS FOR EVERYONE - NOT JUST UTILITIES

William Campbell, Principal Engineer, Environmental Consulting & Technology, Inc.

Tuesday | February 17

7:30AM - 9:30AM

A3. NAAQS

A3.1 THE STATE OF THE NAAQS IN 2015

Kurt Kissling, Attorney, Pepper Hamilton LLP

A3.2 PRACTICAL IMPLEMENTATION OF EPA'S SO2 & PM2.5 MODELING GUIDANCE

George Schewe, Meteorologist/Principal Consultant, Trinity Consultants

A3.3 THE SO2 DATA REQUIREMENTS RULE: CHALLENGES, OPTIONS, & OPPORTUNITIES

Richard Hamel, Senior Project Manager, Environmental Resources Management (ERM)

A3.4 DEALING WITH THE SO2 NAAQS DATA REQUIREMENTS RULE: CHALLENGES & OPTIONS

Robert Paine, Associate Vice President, AECOM; David Heinold & Robert Iwanchuk

A3.5 PM2.5 MODELING GUIDANCE OVERVIEW AND CASE STUDIES FOR SECONDARY FORMATION OF PM2.5 FROM PRECURSORS

Anna Henolson, Managing Consultant, Trinity Consultants; Justin Fickas

A3.6 CHALLENGES WITH RESOLUTION OF DESIGNATED 1-HOUR SO2 NON-ATTAINMENT AREAS

Mary Kaplan, Senior Staff Specialist, AECOM; Robert J. Paine

Co-Chair
Robert Paine

A4. NSR

A4.1 RECENT DEVELOPMENTS IN NSR

Lynn Hutchinson, General Counsel & Senior Project Manager, RTP Environmental Associates, Inc.; Gary McCutcheon

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

Makram B. Jaber, Partner, Hunton & Williams LLP

A4.3 RECENT DEVELOPMENTS IN NEW SOURCE REVIEW SETTLEMENT & CONSENT DECREE IMPLEMENTATION

Liz Williamson, Partner, Sutherland Asbill & Brennan LLP

A4.4 DOMINANT AIR QUALITY ISSUES DRIVING DECISION MAKING ON PLANT SITING, CONFIGURATION, & CAPITAL EXPENDITURES

Michael Zebell, Senior Consultant, Environmental Resources Management Inc.; Mark Thimke, Foley & Lardner, LLP

A4.5 AIR PERMITTING STRATEGY FOR SMALL GAS TURBINE PROJECT BEFORE, DURING, AND AFTER THE TAILORING RULE

Leslie Witherspoon, Manager - Environmental Programs, Solar Turbines Incorporated

10AM - 12PM

Co-Chairs
Liz Williamson
Mike Zebell

A5. CAA COMPLIANCE

A5.1 EPA'S DISAPPROVAL OF STATE REGIONAL HAZE PLANS

Mack McGuffey, Partner, Troutman Sanders LLP

A5.2 EPA'S STARTUP, SHUTDOWN & MALFUNCTION SIP CALL TO STATES

Randy Brogdon, Partner, Troutman Sanders LLP

A5.3 EPA'S PROPOSED CLEAN POWER PLAN

Brian Toth, Climate & Renewable Strategy Manager, Southern Company

A5.4 EPA'S CLEAN POWER PLAN: CAN IT SURVIVE THE COURTS?

Allison Wood, Partner, Hunton & Williams LLP

A5.5 DYNAMIC IMPLICATIONS OF THE BSER

Victor Niemeyer, Program Manager, EPRI; David Young

A5.6 111(D) - PIVOT TO THE STATES

Steven Fine, Vice President, ICF International

1PM - 3PM

Session Sponsor
and Co-Chairs

 TROUTMAN
SANDERS

Mack McGuffey
&
Randy Brogdon

A6. COMPLIANCE STRATEGIES

A6.1 COMPLIANCE DETERMINATIONS FOR COAL-FIRED EGUS THAT ARE SUBJECT TO BART

Carl Weiler, Principal Consultant, CVW Consultants, LLC

A6.2 EPA'S AVERT: AVOIDING EMISSIONS FROM THE ELECTRIC SECTOR THROUGH EFFICIENCY & RENEWABLE ENERGY

Jeremy Fisher, Sr. Scientist, Synapse Energy Economics; Robyn DeYoung, EPA State & Local Climate & Energy Program

A6.3 AIR QUALITY COMPLIANCE MANAGEMENT FOR SMALL & MID-SIZE RURAL UTILITIES

Erik Haas, Principal, HMH Consulting LLC

A6.4 A LOOK AT EPA'S PROPOSED NEW OZONE STANDARDS

Jon Greene, Air Quality Engineer, 360factors; Ed Sattar

A6.5 PURSUIT OF REPRESENTATIVE PM2.5 EMISSION FACTORS FOR GAS-FIRED COMBUSTION UNITS

Louis Corio, Senior Air Quality Scientist, Zephyr Environmental Corporation

3:30PM - 5:30PM

Session Sponsor
and Co-Chair

 HMH
Consulting LLC

Erik Haas

Wednesday | February 18

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

Session Sponsor and Co-Chair
A7.1 EPA 301 STUDY ON VISIBLE EMISSIONS FROM LARGE STACKS
Allison Dolan, Visible Emission Consultant, Sustainable Skys



BLACK & VEATCH
A7.2 THE EVOLUTION OF GREENHOUSE GAS PERMITTING
Jennifer Flannery, Project Manager, All4 Inc.

Mark Bleckinger
A7.3 PROJECT RISKS IN DETERMINING STARTUP EMISSIONS LIMITS FOR AIR PERMITS
Mark Bleckinger, AQC Section Lead, Black & Veatch; Jason Zoller

A7.4 IMPLICATIONS OF ACCURATE SOURCE CHARACTERIZATION ON PERMITTING FOR THE 1-HOUR NAAQS
Ron Petersen, Vice President, CPP, Inc.

A7.5 AT THE INTERSECTION OF MODELING, PERMITTING, & COMPLIANCE - THE NO2/NOX IN-STOCK RATIO
Shirley Rivera, Principal Consultant, Resource Catalysts

A7.6 FAST STARTS VS. MODELED COMPLIANCE: A FEASIBILITY STUDY FOR NEW POWER GENERATION
Sara Head, Vice President, AECOM

10AM - 12PM A8. MATS COMPLIANCE & AIR POLICY

Session Sponsor and Co-Chair
A8.1 THE FINAL MATS RULE: LAST CALL FOR COMPLIANCE
Michael Rossler, Manager - Environmental Programs, EEI

A8.2 SUMMARY OF COMPLIANCE FOR MATS OPTIONS
Eri Ottersburg, Senior Engineer, SLR International; Bruce Macdonald

A8.3 MATS EMISSIONS AVERAGING - RESTRICTIONS & IMPLEMENTATION
Russell Bailey, Principal Consultant, Trinity Consultants

A8.4 EPA'S POWER PLANT CARBON STANDARDS: A VIEW FROM CAPITOL HILL
James McCarthy, Specialist in Environmental Policy, Congressional Research Service

A8.5 THE EFFECTS OF CHANGING PERMITTING REGULATIONS
Don Caniparoli, Air Quality Scientist, CH2M HILL; Tim Burke & Dave Weiss, US Borax

A8.6 EVALUATION OF MULTIPLE SOURCES & CONCENTRATIONS FOR PM2.5 MANAGEMENT & COMPLIANCE
Jong-Ryeul Sohn, Professor, Graduate School of Korea University; Hyeon-Ju Oh & Jinho Yang; Seung Ho Yoo, Korea University

Tuesday | February 17

B1. CEMS & AIR QUALITY

B1.1 PERFORMANCE UPDATE & REVIEW OF COATINGS USED TO IMPROVE RELIABILITY & ACCURACY OF MERCURY & SULFUR SAMPLING SYSTEMS

Gary Barone, Business Manager, SilcoTek Corporation; Marty Higgins

B1.2 MEASURING HCL EMISSIONS USING HOT/WET EXTRACTIVE FTIR CEMS

Jim Cornish, Technical Sales & Support Manager, Gasmet Technologies Inc.

B1.3 THE ALL BLUE MERCURY MESSENGER, AN IMPROVED MERCURY SORBENT TRAP ANALYZER

Philip Dufresne, President, ALL BLUE

B1.4 CEMS TECHNOLOGIES FOR THE GAS TURBINE MARKET

Malek Hattar, Sales & Marketing Manager, Altech Environment U.S.A.

B1.5 PEMS TESTING: A REAL-WORLD CASE STUDY

Ian Havard, New Business Development, Emissions Analytics

B2. CEMS & MATS

B2.1 MACT MONITORING COMPLIANCE CONSIDERATIONS & COSTS FROM FACILITY PERSPECTIVE

Anne McQueen, Senior Associate Engineer, Amec Foster Wheeler Environment & Infrastructure, Inc.

B2.2 TRAP MONITORING SYSTEMS: ONGOING VALIDATIONS & ADAPTION FOR DIFFERENT APPLICATIONS

Jurgen Reinmann, Branch Manager, Environnement S.A Deutschland

B2.3 ESP UPGRADE FOR MATS COMPLIANCE AT MARION 4

Robert Mastropietro, V. P. Technology, KC Cottrell Inc.; Michael Widico

B2.4 MERCURY CEM - EMISSIONS & PROCESS CONTROL

Dan Kietzer, Division Manager - National Product Management, SICK, Inc.

B2.5 MATS CEMS DEFINITION TO CERTIFICATION; A CONSULTANT'S CHECKLIST FOR SUCCESS

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

B3. HCL MONITORING

B3.1 EXPERIENCE USING CAVITY ENHANCED ABSORPTION SPECTROSCOPY (CEAS) FOR HCL MEASUREMENT ON A COAL-FIRED POWER PLANT

Steve Gibbons, Business Development Manager, ABB Inc.

B3.2 TUNABLE DIODE LASER (TDL) BASED HCL CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) DEVELOPMENT CHALLENGES & MONITORING TECHNOLOGIES TO MEET PERFORMANCE SPECIFICATION 18

Gary Cacciatore, Business Development Manager, Cemtek Environmental; Tim Kuiken

B3.3 A ROBUST, COMPACT & VERSATILE SOLUTION FOR HYDROGEN CHLORIDE CEM

Phil McMaster, CEMS Business Manager, Tiger Optics

B3.4 HYDROGEN CHLORIDE MONITORING BY FTIR

Kevin Ramazan, VP of FTIR Operations, California Analytical Instruments

B3.5 CONTINUOUS EMISSIONS MONITORING OF HCL: SAMPLING SYSTEM DESIGN AND OPERATION CONSIDERATIONS

Roberto Bosco, Principal Applications Engineer, MKS Instruments; Barbara Marshik & Sylvie Bosch-charpenay

Monday | February 16

1PM - 3PM

Co-Chairs
Jim Cornish
&
Malek Hattar

3:30PM - 5:30PM

Session Sponsor and Co-Chair



Mousa Zada

Co-Chair
Anne McQueen

Tuesday | February 17

Wednesday | February 18

10AM - 12PM

B4. MONITORING, DAS & PROTOCOL GASSES

B4.1 A DILUTION CALIBRATOR DESIGNED TO MINIMIZE SOURCE TESTING GAS CYLINDER COSTS WHILE IMPROVING ON-SITE FLEXIBILITY

Doug Haugen, Product Manager, Teledyne API; Ray Jalisi

B4.2 COST EFFECTIVE REMOTE SENSING OF THE UPPER ALTITUDE WIND FIELD & INVERSION HEIGHTS

Kenneth Underwood, President, Atmospheric Systems Corporation

B4.3 TOP TEN TO-DO ITEMS FOR A SUCCESSFUL EMISSION TEST OR RATA, & THE BOTTOM TEN NOT-TO-DO, FOR MERCURY, HCL, PM, NOX & OTHER MONITORS OR EMISSION LIMITS

Kevin Crosby, VP-Technical, Montrose Environmental Group, Inc.; Judith Aasland

B4.4 HOW MUCH UNCERTAINTY IS THERE IN AN STATIONARY SOURCE TEST?

Robert Davis, Project Director, TRC Solutions

B4.5 EPA ALTERNATIVE METHOD 082 DIGITAL OPACITY

Shawn Dolan, President, Virtual Technology LLC

Co-Chairs
Kevin Crosby
&
Robert Davis

1PM - 3PM

B5. SORBENT TRAPS & CEMS

B5.1 THE LATEST TIPS & TRICKS FOR GETTING THE BEST MERCURY RESULTS USING SORBENT TRAPS

Philip Dufresne, President, ALL BLUE

B5.2 SORBENT TRAP INNOVATIONS: SO3, NH3, HCL

Andrew Mertz, Analytical Engineer, Ohio Lumex; Joseph Siperstein & Anthony Schneider

B5.3 GAS TURBINE REGULATORY REGULATIONS WITH A FOCUS ON CEMS & PART 75 UPDATE

Ben Sehgal, Senior Air Resource Engineer, California Air Resource Board

B5.4 FORUM ON LOW LEVEL EMISSIONS TESTING WITH CARB

Robert Davis, Project Director, TRC; Ben Sehgal, CARBI; Bernadette Shain, CAI; Bob Finken, Montrose

B5.5 FORUM ON LOW LEVEL EMISSIONS TESTING WITH CARB

Bernadette Shain, National Applications Manager, M&C TechGroup; Ben Sehgal CARB; Bob Davis TRC; Bob Finken, Montrose

B5.6 MATS - CHALLENGES, OPPORTUNITIES & SOLUTIONS FOR COMPLIANCE MONITORING

Karl R. Wilber, PE, General Manager, Tekran Instruments Corporation

Session Sponsor
and Co-Chair


Ben Sehgal

Co-Chair
Robert Davis

3:30PM - 5:30PM

B6. MODELING

B6.1 TO 30-DAY LIMIT OR TO NOT 30-DAY LIMIT: AN EVALUATION OF ONE-HOUR MODELED EMISSION RATES & 30-DAY PERMIT LIMITS

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

B6.2 EVALUATION OF LOW WIND MODELING APPROACHES FOR TALL-STACK DATABASES

Robert Iwanchuk, North America Air Quality Practice Leader, AECOM; Robert Paine

B6.3 CHALLENGES WITH NAAQS IMPLEMENTATION USING REGULATORY AIR QUALITY MODELING GUIDANCE & TECHNIQUE

Richard Hamel, Senior Project Manager, ERM; Beth Barfield & Mark Garrison

B6.4 PREDICTIVE EMISSIONS MONITORING FOR AIR COMPLIANCE & PROCESS OPTIMIZATION

Brian Swanson, President, CMC Solutions LLC; Bryan Bush & Eugene Simon

B6.5 COMPARISON OF SACTI & AERMOD DROPLET DEPOSITION PREDICTIONS FOR A WET STACK

Anke Beyer-Lout, Project Scientist, CPP Inc.; Ron L. Petersen, Ph.D., CCM

B6.6 AMBIENT ODOUR MEASUREMENT & MODELING

Maryam Mirzajani, Environmental Engineer, Matrix-Solutions

Co-Chair
Anke
Beyer-Lout

B7. MONITORING & REPORTING

B7.1 UNDER REPORTING OF NOX EMISSIONS

Robert Muldowney, President, MonitorTech Corporation LLC

B7.2 PARTICLE LOSSES WITH A LARGE DIAMETER NAFION AIR SAMPLE DRYER

Gene Bohensky, OEM Sales Manager, Perma Pure LLC

B7.3 NEW GENERATION NOX O2 ANALYZER FOR CONTINUOUS MEASUREMENT

Tom McKarns, Principal, ECO PHYSICS, INC.

B7.4 DESIGN & OVERSIGHT OF EMISSION TESTING PROGRAMS

David Elam, Principal, TRC Environmental; Doug Austin, Institute of Clean Air Companies

B7.5 MULTI-SOURCE MONITORING VIA THE CLOUD

Joseph Montano, Regional Sales Manager, Standard Filter; Toby Wiik

B7.6 RADIOLOGICAL FORECAST MODELING SYSTEM

Bryan Matthews, Operations Manager, Lakes Environmental Software; Dr. Jesse Thé,

Michael T. Hammer, & Bryan D. Matthews

7:30AM - 9:30AM

Session Sponsor
and Co-Chairs


David Elam

Co-Chair
Robert
Muldowney

Monday | February 16

1PM - 3PM

C1. HG CONTROL DEMONSTRATIONS

C1.1 SCRUBBER ADDITIVES FOR MERCURY RE-EMISSION CONTROL

Noah Meeks, Research Engineer, Southern Company Services; Gary Blythe & Mandi Richardson, AECOM Corporation; Chuck Dene, Electric Power Research Institute

C1.2 MODIFICATION & TESTING OF FEED SYSTEMS FOR AMENDED SILICATES

Clifton Brown Jr., Vice President, Novinda; James Butz

C1.3 HG MGMT. ACROSS WET SCRUBBERS FOR MATS COMPLIANCE: WHERE DOES THE HG GO?

Bruce Keiser, Research Fellow, Nalco; Jianwie Yua, Wayne M. Carlo & Angela Zagala

C1.4 INORGANIC SCRUBBER ADDITIVE FOR ENHANCED CAPTURE OF ELEMENTAL HG

Charles Lockert, President, Breen Energy Solutions; Russ Evans, Owensboro Municipal Utilities

C1.5 MEASUREMENT OF CORROSION RATE ASSOCIATED W/ HALOGEN USE FOR HG OXIDATION

Mandar Gadgil, AQCS Engineer, The Babcock & Wilcox Company PGG; Murray Abbott, Chem Mod LLC; Steven Feeney, Babcock & Wilcox Power Generation Group, Inc.

C1.6 CARBON SORBENT PROPERTIES FOR OPTIMAL MERCURY REDUCTION

Emma Zhou, Albemarle Corp.; Gregory Lambeth, Jon Miller

Co-Chair
Bruce Keiser

3:30PM - 5:30PM

C2. ACTIVATED CARBON - HG

C2.1 ACTIVATED CARBON FOR MATS COMPLIANCE: GETTING THE MOST OUT OF YOUR RFP PROCESS

Erica Gonzaga, Applications Engineer, Carbonxt, Inc.; Dr. David Mazyck, Heather Byrne PhD, PE, Michelle Brown PE, & Jack Drwiega PE

C2.2 ACI FOR MERCURY CONTROL: A STATUS CHECK BEFORE THE BIG MATS PLUNGE

Richard Mimna, Sr. R&D Associate, Calgon Carbon Corporation

C2.3 THE EVOLVING POWDER ACTIVATED CARBON MARKETPLACE

Mitch Lund, Chemical Engineer, Nol-Tec Systems

C2.4 ADVANCED MINING METHODS TO PRODUCE WORLD CLASS HG REMOVAL SOLUTIONS

Jerry Adler, Senior Engineer, Cabot Corporation

C2.5 NEXT GENERATION SO3 TOLERANT PACS

Joe Wong, Chief Technology Officer, ADA-CS, LLC; Roger Cayton & Jacob Lowring

C2.6 PULVERIZED LIMESTONE & ACTIVATED CARBON SLURRIES W/ VACUCAM® EJECTOR MIXERS

Charles Alack, COO/CEO, Semi-Bulk Systems; Jeff Doherty

Session Sponsor
and Co-Chairs



Mitch Lund



David Mazyck

Tuesday | February 17

7:30AM - 9:30AM

C3. HG CONTROL TECHNOLOGIES

C3.1 FGDPLUS - AN EFFICIENCY BOOSTER FOR OPEN SPRAY TOWER TECHNOLOGY

Andreas Gruber-Waltl, Team Leader Process Development, Andritz Environmental Solutions; Christian Patterer & Michael Kramer

C3.2 THE DYNAMIC HG CAPTURE TEST: RAPID PAC PROTOTYPING FOR ENHANCED HG CAPTURE

Joe Wong, Chief Technology Officer, ADA Carbon Solutions; Chris Vizcaino, ADA Carbon Solutions; Nick Lentz, University of North Dakota

C3.3 NON-CARBON, LIQUID SORBENT FOR HG EMISSION CONTROL IN SPRAY DRY ABSORBERS

Tommy Hung-Ting Chen, Lead Chemist, Nalco, an Ecolab Company; Bruce A. Keiser, Wayne M. Carlson, Brett Showalter, Jianwei Yuan & Nicholas R. Denny

C3.4 SO3 TOLERANCE OF AMENDED SILICATE MERCURY SORBENTS

Thomas K. Gale, Director of Technology Development, Novinda Corporation; James R. Butz

C3.5 DIFFERENT OPTIONS FOR SPECIFYING A MERCURY REDUCTION SYSTEM

Conner Cox, Process Engineer, United Conveyor Corporation

Session Sponsor
and Co-Chairs



Joe Wong



Jerry Adler

Tuesday | February 17

10AM - 12PM

C4. DRY SORBENT INJECTION (DSI)

C4.1 DSI FOR HIGH LEVEL (UP TO 90%+) SO2 & MERCURY REMOVAL ON A LARGE COAL-FIRED UNIT EQUIPPED WITH AN ESP & FABRIC FILTER

Jon Norman, DSI Sales & Technology Manager, United Conveyor Corporation

C4.2 A DSI SYSTEM INSTALLATION AT A MIDWEST UTILITY - A LOW CAPITAL COST POLLUTANT CONTROL SOLUTION

Robert Broglio, Sr. Business Development Manager, NAES Corp.

C4.3 EXECUTION STRATEGIES FOR A FAST TRACK FLEET WIDE IMPLEMENTATION OF DSI & ACI TECHNOLOGY

Dennis Decator, Sr Project Manager, DTE Energy; Chris Patselas, Project Manager, Black & Veatch

C4.4 SORBIMIX™ TO IMPROVE MIXING FOR DRY SORBENT INJECTION APPLICATIONS

Guisu Liu, Director of Technology, Mobotec LLC; Baiyun Gong, Mike Klump, Alan Chadwick & Craig Paquette

C4.5 ADVANCED CHEMISTRY MODELING FOR SO2, SO3, & HCL REMOVAL BY DSI

Baiyun Gong, Combustion Modeling Manager, Mobotec LLC; Guisu Liu

C4.6 BENEFITS OF CONDITIONED AIR IN TRANSLOADING WHEN USING TRONA FOR SO2 & ACID GASES MITIGATION IN COAL FIRED UNITS FLUE GAS STREAM

Michael Brubaker, Commercial Development Manager, Natronx Technologies, LLC; Joshua Allen

Session Sponsor
and Co-Chair

DTE Energy



Deninis Decator

C5. HG MATS COMPLIANCE

C5.1 STARTUP & SHUTDOWN CONSIDERATIONS UNDER MATS

Bruce Macdonald, Principal Scientist, SLR International; Eri Ottersburg

C5.2 MATS COMPLIANCE STRATEGIES

Stephanie Sebor, Associate, Winston & Strawn LLP

C5.3 COMPREHENSIVE TRIAL PLANNING FOR ACHIEVING EPA MATS COMPLIANCE

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

C5.4 INNOVATIONS WITH MERCURY PROCESS MONITORING FOR MERCURY CONTROL

Andrew Mertz, Projects Engineer, Ohio Lumex Co.; Joseph Siperstein

C5.5 MERCURY LEE TESTING CASE STUDY

Jeremy Miller, Senior Project Manager, TRC; Dave Darnell, Nebraska Public Power District

5.6 KLEENSCRUB TECHNOLOGY UPDATE - WHY FGD OPERATIONS IS KEY TO HG REMEDIATION

Mark Pastore, VP Technology, EES, Inc.

1PM - 3PM

Session Sponsor
and Co-Chairs

WINSTON
& STRAWN
LLP

Stephanie
Sebor



Bruce
Macdonald

C6. HG DEMONSTRATION & INSTALLATION

C6.1 DEMONSTRATION & INSTALLATION OF NOVEL MERCURY OXIDATION TECHNOLOGY

Sterling Gray, Business Development Manager, AECOM; Jim B. Jarvis, Steven W., Kosler Andrew Wang

C6.2 FROM MATS HG DEMONSTRATIONS TO COMMERCIAL COMPLIANCE PROGRAMS INSTALLATION UPDATE & DEMONSTRATION RESULTS FOR PRB & LIGNITE EGU

John Pavlish, Senior Vice President & CTO, Midwest Energy Emissions Corp (ME2C); Marcus Sylvester & Jim Trettel

C6.3 HG REMOVAL IN WET SCRUBBERS & BENEFICIAL USE OF GYPSUM - A CONTRADICTION?

Andreas Gruber-Waltl, Team Leader Process Development, Andritz Energy & Environment; Michael Kramer, Dr. Harald Reissne & Christian Patterer

C6.4 EXTENDED TRIALS OF NOVINDA'S AS-HGX FOR EPA MATS MERCURY COMPLIANCE

James Butz, VP of Product Management, Novinda; Clifton Brown Jr. & Stephen Baloga

C6.5 INSTALLATION OF THE GORE MERCURY CONTROL SYSTEM AT THE CAYUGA POWER PLANT

Jonas Klingspor, VP Business Development, AECOM; Jeff Kolde, W.L. Gore; Doug Roll, Cayuga Operating Company

C6.6 DEMONSTRATING COMPLIANCE WITH MATS

Bob Fraser, Partner, ERM; Mike Zebell

3:30PM - 5:30PM

Session Sponsor
and Co-Chair



Andreas
Gruber-Waltl

Co-Chair
Jonas Klingspor



7:30AM - 9:30AM C7. HG CONTROL

Session Sponsor and Co-Chair
 William Hizny
 Co-Chair
 Keith Schofield

C7.1 INTEGRATING MERCURY SORBENT HX™ INTO EXISTING SORBENT INJECTION SYSTEMS

William Hizny, Technical Projects Manager, BASF Corporation; Conner Cox, United Conveyor Corporation; Fabien Rioult & Xiaolin Yang, BASF Corporation

C7.2 THE USE OF CEMS AS PROCESS MONITORING TOOLS FOR HG COMPLIANCE

Jerry Amrhein, Manager - CEMS Services, ADA-ES, Inc.; Cody Wilson

C7.3 UNDERSTANDING ELEMENTAL HG ABSORPTION ACROSS WFGD SCRUBBERS: AN INITIAL STUDY

Nicholas Denny, Principal Chemist, Nalco, an Ecolab Company; Bruce A. Keiser & Wayne M. Carlson

C7.4 MERCURY RE-EMISSION RE-EXAMINED – A THERMODYNAMIC MODEL TO FOLLOW

Steven Feeney, Product Line Manager - Mercury & WWT Technology, The Babcock & Wilcox Company - Power Generation Group

C7.5 HG CONTROL: A PASSIVE METHOD INVOKING HG'S NATURAL HETEROGENEOUS PROCESSES

Keith Schofield, Research Director, ChemData Research, Inc.

C7.6 REDUCING OPERATING COSTS AND RISKS OF HG CONTROL WITH NOVEL FUEL ADDITIVES

Constance Senior, Vice President of Technology, ADA-ES, Inc.; Greg Filippelli

10AM - 12PM C8. HG CONTROL & ESP

Session Sponsor and Co-Chair
 Jon Miller

C8.1 TUNING ELECTRONIC PROPERTIES OF PAC FOR ENHANCED ELECTROSTATIC PRECIPITATOR PERFORMANCE

Herek Clack, Professor, University of Michigan; Eric M. Lee & Ubong Solomon, Illinois Institute of Technology; Chris Vizcaino & Joe Wong, ADA Carbon Solutions

C8.2 REDUCING REAGENT & SORBENT COSTS FOR MERCURY & PARTICULATE MATTER CONTROL FOR UNITS WITH ESPS RE

David Young, Product Leader, ADA-ES, Inc.; Greg Filippelli & Constance Senior

C8.3 MERCURY OXIDATION BY BROMINE ADDITION: ONE EFFECTIVE RESPONSE TO PAST EXPERIENCE

Murray Abbott, Manager of Technical Support, Chem-Mod LLC; Mandar Gadgil & Steve Feeney, Babcock & Wilcox Power Generation Group, Inc.

C8.4 SORBENT PRODUCTS FOR CHALLENGING APPLICATIONS

Jon Miller, Technology Manager for Mercury Control, Albemarle Corp.; Gregory Lambeth & Daryl Lipscomb

D1. ENERGY POLICY & SECURITY

D1.1 THE QUADRANNIAL ENERGY REVIEW

Mitchell Baer, Director - Office of Energy Security Analysis, US DOE

D1.2 ECONOMIC EFFECTS ON THE U.S. REFINING INDUSTRY OF EPA CLEAN AIR ACT GREENHOUSE GAS CONTROLS & POTENTIAL CARBON TAX & CAP-AND-TRADE SYSTEMS

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

D1.3 ENERGY ROADMAP PROGRAM: A UTILITY-LOCAL GOVERNMENT PARTNERSHIP

Susan Freedman, Senior Regional Energy/Climate Planner, San Diego Association of Governments (SANDAG); Josh Brock, San Diego Gas & Electric (SDG&E)

D1.4 PROACTIVE PATENT PROSECUTION STRATEGIES IN VIEW OF POST-GRANT CHALLENGES

Peter Jackman, Director, Sterne, Kessler, Goldstein & Fox PLLC

D1.5 FERC APPROVED DEFINITION OF BES & ITS IMPACT TO YOUR ORGANIZATION

Linda Lynch, Senior Reliability Compliance Specialist, Burns & McDonnell Engineering Company; Michael C. Johnson

1PM - 3PM

Co-Chair
 Mitchell Baer

Co-Chair
 Susan
 Freedman

D2. SUSTAINABILITY PROJECTS

D2.1 INSPIRING AMERICA'S NEXT SOCIAL ENTREPRENEURS

Drew Beal, CEO, Kill the Cup

D2.2 DESIGNING FOR THE POST-CARBON ECONOMY: IT'S ZERO OR NOTHING

Eric Corey Freed, Founding Principal, organicARCHITECT

D2.3 WORKPLACE & OCCUPATIONAL SUSTAINABILITY: THINKING OUTSIDE THE BOX

Bapanaiah Penugonda, Dentist/Associate Professor, NYU College of Dentistry; Katie Baron

D2.4 ENVIRONMENTAL EVALUATION OF SIX BUILDING SHEARING LAYERS FOR THE ALLOCATION OF GREEN POINTS

Svetlana Pushkar, Lecturer, Ariel University; Oleg Verbitsky

D2.5 OPPORTUNITIES & COSTS FOR ENERGY CONSERVATION IN THE UK BUILDING STOCK

Reza Arababadi, PhD Student, ASU; Érika Mata, Angela Sasic Kalagasidis & Filip Johnsson, Chalmers University of Technology

3:30PM - 5:30PM

Session Sponsor and Co-Chair



Bapanaiah
 Penugonda

D3. ENERGY EFFICIENCY

D3.1 NON-ENERGY BENEFITS (NEBS): WHERE ARE WE & WHY DO THEY MATTER SO MUCH?

Lisa Skumatz, Principal, Skumatz Economic Research Associates

D3.2 BUILDING ENERGY EFFICIENCY IN CHINA

Ying Hu, Professor, School of Architecture & Fine Art, Dalian University of Technology; Yang Hu & Wenshu Fan, Nexant

D3.3 ENCOURAGING ENERGY EFFICIENT- LIGHTING QUALITY

Edward Bartholomew, Commercial Lighting Program Manager, National Grid

D3.4 DON'T LET YOUR MONEY JUST BLOW AWAY

Allen Ray, Director - Air - Gas Handling Group, ProcessBarron

D3.5 LIGHT-WEIGHT VAPOR CHAMBERS EFFECTED BY NANO-CAPILLARY PUMP COOLING

H. Paul Wang, Professor, National Cheng Kung University; H. Y. Kan, National Cheng Kung University; W.-K. Li, National Tsing-Hua University; James Wang, UC San Diego

D3.6 PARTNERSHIPS THAT PROMOTE ENERGY EFFICIENCY

Marta Keane, Resource Recovery Program Specialist, Will County

7:30AM - 9:30AM

Co-Chairs
 Lisa Skumatz
 &
 Allen Ray

Tuesday | February 17

10AM - 12PM

D4. SMART GRID & ENERGY RATES

D4.1 GRID MODERNIZATION & THE SMART UTILITY

Anthony Barazza, Grid Automation, Schneider Electric; Adam Caballero

D4.2 ELECTRIC RATE IMPACTS DUE TO ENVIRONMENTAL REGULATIONS

Mike Borgstadt, Manager - Business Consulting, Burns & McDonnell Engineering Co.

D4.3 WHAT HAPPENS DURING A COLD SNAP

Stephen Slocumb, Associate, Epsilon Associates

D4.4 MARGINAL ENERGY EMISSION RATES FOR THE EVOLVING ENERGY LANDSCAPE

Jessica Lau, Engineer, ISO New England; Peter Wong

D4.5 WHO'S CONTRIBUTING TO GRID STABILITY?

Roger Clarke-Johnson, Western Region Manager, American Governor

Co-Chair
Adam
Caballero

1PM - 3PM

D5. ENERGY POLICY & FINANCE

D5.1 NEW UTILITY BUSINESS MODEL - NEW YORK'S REFORMING ENERGY VISION

John Finnigan, Lead Counsel, Environmental Defense Fund

D5.2 DEVELOPING & IMPLEMENTING A NATIONAL ENERGY POLICY

Kenneth Skipka, Principal, RTP Environmental Asst., Inc.; Louis Theodore, Theodore Tutorials

D5.3 CO2 PRICE FORECAST: PLANNING FOR FUTURE ENVIRONMENTAL REGULATIONS

Patrick Luckow, Associate, Synapse Energy Economics; Joseph Daniel, Spencer Fields, Elizabeth A. Stanton & Bruce Biewald

D5.4 HOW TO SUSTAIN A BEST-IN-CLASS UTILITY WHILE IMPROVING THE BOTTOM LINE

Monte Matthews, Sr. Mgr. Disclosure & Performance, Tennessee Valley Authority

D5.5 HOW TO SUSTAINABLY REDUCE YOUR CARBON FOOTPRINT WHILE INCREASING FINANCIAL PERFORMANCE

Dr. Steven Driver, Global Energy Manager, Genzyme - Sanofi

Session Sponsor
and Co-Chair


John Finnigan

3:30PM - 5:30PM

D6. ENERGY EFFICIENCY & DATA

D6.1 BIG DATA & EFFICIENT ENERGY PRICES

Mark DeSantis, CEO, kWantera

D6.2 ENERGY DATA ACCELERATOR THE STAKEHOLDER ENGAGEMENT

Azizan Aziz, Assistant Professor & Senior Research Architect, Carnegie Mellon University, Flore Marion & Erica Cochran

D6.3 SECURE FILE TRANSFER VIA SATELLITE OR MOBILE

Brian Henger, Enterprise Account Manager, Globalscape; Elizabeth Laurin

D6.4 THAT'S MY IDEA: CLEAN ENERGY INVENTORSHIP DISPUTES & HOW TO AVOID THEM

Margaret Welsh, Associate, Sughrue Mion, PLLC

D6.5 UTILITY SMART METERS + INTELLIGENT BUILDING TECHNOLOGY: A LOOK TO THE FUTURE OF CONNECTED BUILDINGS

Joseph Aamidor, Senior Product Manager, Lucid

Session Sponsor
and Co-Chair


Mark DeSantis

Co-Chair
Azizan Aziz

Wednesday | February 18

7:30AM - 9:30AM

D7. NATURAL GAS

D7.1 FACILITATE INVESTMENTS IN NATURAL GAS INFRASTRUCTURE - CASE STUDIES OF TWO REGION

Hua Fang, Technical Director, ICF International

D7.2 NATURAL GAS MARKET DRIVERS: IMPLICATIONS FOR POWER GENERATORS

Ken Ditzel, Managing Director, FTI Consulting

D7.3 THE SAFETY, RELIABILITY & ECONOMIC LAYERS OF NATURAL GAS CONVERSION PROJECTS

Ajay Kasarabada, Project Manager, Black & Veatch; Steve Williams

D7.4 COAL TO NATURAL GAS CONVERSIONS, WHAT YOU NEED TO KNOW

Joe Brown, Product Manager, Mitsubishi Hitachi Power Systems America

D7.5 ANALYZING CARBON POLICY & PRICING EFFECTS ON GLOBAL NATURAL GAS MARKETS: CONSUMERS & PRODUCERS

Hakob Avetisyan, Assistant Professor, California State University

Session Sponsor
and Co-Chair


BLACK & VEATCH

Ajay
Kasarabada

D8. CLIMATE CHANGE - RISK MANAGEMENT

D8.1 ENERGY INDUSTRY VIEW ON CLIMATE CHANGE RISK, ADAPTATION AND ECOSYSTEM RISK MANAGEMENT

Sarah Ball, Manager, Environmental Affairs, Edison Electric Institute

D8.2 MANAGING ECOSYSTEM RISK: ENGINEERING ECO-SOLUTIONS TO CLIMATE CHANGE ADAPTATION

John B. Christopher, Water/Wastewater Senior Project Manager, Louis Berger

D8.3 CLIMATE CHANGE IMPACTS TO ELECTRICAL DISTRIBUTION NETWORKS: MANAGING RISKS, ENHANCING RESILIENCE

Claire Bonham-Carter, Principal, AECOM; Allan Klindworth & Chee Chan

D8.4 IRRATIONAL GREEN: REVEALING TODAY'S GREAT, GREEN DECEPTIONS

Randy Hughes, Manager - Planning & Rates, Independence Power & Light

D8.5 AMMONIA FUEL FROM RENEWABLE-SOURCE ELECTRICITY, WATER, & AIR: TECH OPTIONS & ECONOMICS MODELING

Bill Leighty, Director, The Leighty Foundation

10AM - 12PM

Session Sponsor
and Co-Chair


Sarah Ball

Co-Chair
Bill Leighty

D9. ENERGY TECHNOLOGY

D9.1 COMMERCIALIZED; INDUSTRIAL SCALE PLASMA GASIFICATION TECHNOLOGY

Allison Yeckel, Sales Engineer, Westinghouse Plasma Corp.; Bruce Leonard, Richard Fish & Walter Howard

D9.2 OPPORTUNITIES & CHALLENGES OF INDUSTRY-WIDE ADOPTION OF COGENERATION IN NEW & OPERATING OIL SANDS FACILITIES

Experience Nduagu, Postdoctoral Scholar, University of Calgary; Dr. Ian D. Gates

D9.3 TWENTY-FIVE YEARS OF FUEL IMPACT ANALYSES - WHAT HAVE WE LEARNED, & WHERE ARE WE GOING?

Una Nowling, Technology Lead - Fuels, Black & Veatch

D9.4 TRENDS IN ENERGY & CARBON MANAGEMENT AT SEA PORTS

Matthew Wartian, Regional Global Practice Manager, Burns & McDonnell; Eric Putnam & Lit Chan, ENVIRON

1PM - 3PM

Session Sponsor
and Co-Chairs


BLACK & VEATCH

Una Nowling

Co-Chair
Paul Grod

Monday | February 16

Tuesday | February 17

1PM - 3PM

E1. CONTROL TECHNOLOGIES

E1.1 AIR QUALITY CONTROL TECHNOLOGIES FOR COMBUSTION TURBINES - COMBINED CYCLE & SIMPLE CYCLE CONFIGURATIONS

Chris Wedig, Senior AQCS Specialist, CB&I

E1.2 CONTROL PARTICLE SIZE, CONTROL YOUR PROCESS

Jeff DeNigris, Sales Mgr, Malvern Instruments

E1.3 ADVANCEMENTS IN SEMI-DRY SCRUBBERS

Jeromy Jones, AQCS Manager, Burns & McDonnell

E1.4 100% AVAILABILITY - THE HOLY GRAIL OF AQCS DESIGN

Chris Tovee, Senior Engineer, Hatch; Dr. Michael Trovant

E1.5 HOW TO MAKE POLLUTION CONTROL PROFITABLE

Jerrold Radway, Chairman & Chief Technical Officer, ClearChem LLC; Shuman Moore

E1.6 THE ROLE OF MICROGRIDS IN THE SMART CITY

Terry Mohn, CEO, General MicroGrids, Inc

Co-Chair
Chris Wedig

3:30PM - 5:30PM

E2. ESP

E2.1 CORONA DEAD ZONES HURT ELECTROSTATIC PRECIPITATOR PERFORMANCE

John Knapik, ESP Applications Engineer, Babcock & Wilcox Precipitech

E2.2 POWDER-SORBENT ALTERNATIVES TO SO3 FOR ESP CONDITIONING

Thomas K. Gale, Director of Technology Development, Novinda Corporation; James R. Butz

E2.3 WHY SATISFYING ICAC EP-7 CRITERIA ALONE IS NOT ENOUGH FOR OPTIMUM ESP PERFORMANCE

Jim Daniel, Senior Engineer, Alden; Gary Grieco, Air Consulting Associates

E2.4 WET ESP CONTINUOUS WATER WASHING ADVANCES FOR LOW GRADE MATERIALS OF ELECTRODES

Anthony Silva, Advisory Engineer, Babcock & Wilcox; Tommy Liu

E2.5 NOVEL RECIRCULATION SCRUBBER FOR BART COMPLIANCE

Pramodh Nijhawan, Executive Vice President, Industrial Accessories Company


Pramodh
Nijhawan

Co-Chair
Jim Daniel

Tuesday | February 17

7:30AM - 9:30AM E3. PM, OPACITY & VISIBILITY

Session Sponsor
and Co-Chair

William
Averdieck

Co-Chair
Richard Hovan

E3.1 CALIBRATION OF LIGHT SCATTER PM-CEMS TO SATISFY PS-11 ON WET STACKS IN COAL FIRED EGUS

William Averdieck, President, PCME Inc; Ed McCall

E3.2 MATS RULE: HIGH-SENSITIVITY PM MEASUREMENT EVEN AT THE LOWEST CONCENTRATIONS OF DUST

Richard Hovan, Director - Environmental Business Development, DURAG GROUP; Lori McCloud

E3.3 PM CEM'S TECHNOLOGIES & BEST PRACTICES

Andy Rudolph, Product Manager, SICK Engineering GmbH

E3.4 HOW THE USE OF BAG LEAK DETECTORS CAN REDUCE YOUR PM AND POSITIVELY IMPACT YOUR BOTTOM LINE

John Brown, Sales Manager, PCME Inc.

E4. 111(D)

E4.1 SMALL UTILITY PLANNING FOR EPA'S 111(D) RULE

Eric Hiser, Partner, Jorden Bischoff & Hiser, PLC

E4.2 THE MATS CONUNDRUM - HOW DOES SECTION 111(D) IMPACT OLD SMOKEY POWER

Peter Belmonte, Partner, ERM

E4.3 COMPLIANCE STRATEGIES FOR PROPOSED GREENHOUSE GAS RULES IN EXISTING POWER PLANTS

Edward Malley, Vice President, TRC Companies, Inc.; Ryan Bliss, Greg Coleman & Samantha Motley

E4.4 THE EPA CLEAN POWER PLAN & EMISSION QUANTIFICATION APPROACHES

David Sumi, Principal, The Cadmus Group, Inc.; Kate Swayne Wilson & Kimberlee Rankin

E4.5 CLEAN POWER PLAN: CRITICAL ISSUES FACING POWER GENERATION COMPANIES & STATES

Robert Fraser, Partner, ERM, INC; Julie Ross & David Shotts

10AM - 12PM

Session Sponsor
and Co-Chair

Peter
Belemonte

Co-Chair
Davis Sumi

E5. SO2, SO3 & ADDITIVES

E5.1 THE BENEFITS OF HIGH REACTIVITY HYDRATED LIME IN A CIRCULATING DRY SCRUBBER

Curt Biehn, Manager - Marketing & Technical Services, Mississippi Lime Company; Mark DeGenova

E5.2 SUCCESSFUL OPERATION OF FLUE GAS HUMIDIFICATION/COOLING USING SPRAY NOZZLES UPSTREAM OF DRY SORBENT INJECTION (DSI)

Robert Van Durme, P.E., Key Account Manager, Lechler Inc.; Ashwin Patni, Lechler Inc.; Leon Lenertz, P.E., Xcel Energy

E5.3 BENEFICIATION OF HIGH SODIUM FLY ASH

Michael Atwell, Market Development Manager, Solvay Chemicals

E5.4 SULFUR DIOXIDE MITIGATION USING HYDRATED LIME DSI & HUMIDIFICATION

Carl Laird, Sr. Technical Specialist - FGT & Glass Markets, Carmeuse Lime and Stone

E5.5 APPLICATION & BENEFITS OF SO3 REMOVAL UPSTREAM OF THE LJUNGSTROM® AIR PREHEATER

Gus Shearer, Product Director, ARVOS Inc. LJUNGSTROM Division; Sterling M. Gray, PE, AECOM Corporation

E5.6 DRY SORBENT INJECTION HISTORY & FUTURE APPLICATION

Keith Day, Business Development Manager, Nol-Tec Systems

1PM - 3PM

Session Sponsor
and Co-Chairs


Curt Biehn



Michael Atwell

3:30PM - 5:30PM

E6. NOx CONTROL

E6.1 IMPROVED NOx REDUCTIONS IN A COMBUSTION OPTIMIZATION SYSTEM USING A NOVEL NEURAL NETWORK TRAINING ALGORITHM

Steve Piche, Director of Research & Development, NeuCo; Daxhang Gu & Fred Pickard

E6.2 NOVEL LOW NOx EMISSIONS SOLUTIONS TO ACHIEVE 20 PPM NOx

Richard Conn, Sr. Director of Technology, Sunco-International Inc. Co. Ltd.; Jeff Shan, Sunco-International Inc.; Denis Fallon, Celanese Corp.

E6.3 ELEVATED NOx REDUCTION & COMBUSTION OPTIMIZATION FOR COAL-FIRED UTILITY BOILERS BY IMPROVING FURNACE MIXING

Mike Klump, Director of Plant Optimization, Mobotec LLC; Guisu Liu, Baiyun Gong, Joe Aletto, Chris Clemmer, Vivek Savarianadam & Pat Crotty

E6.4 LOTOX™ - NOVEL NOx CONTROL SOLUTION

Peter Studer, Chemical & Environmental Industry Program Manager, LINDE; Naresh J. Suchak, Monica Caldwell, Frank Fitch & Steve Finley, LINDE; Bob Ferrell, AECOM

E6.5 LOW NOx COMBUSTION W/NOVEL ANTI-CORROSION SYS. FOR WALL-FIRED BOILERS

Jeff Shan, President, Sunco International Inc. Co. Ltd.; Richard Conn

E6.6 DIRECT MEASUREMENT & MODELING OF SULFURIC ACID CONCENTRATIONS IN COAL-FIRED POWER PLANT FLUE GAS

Brian Adair, Senior Chemical Engineer, Geosyntec Consultants, Inc; Dr. Brian Adair, Dr. Curtis Laush & Darwan Pursao

Co-Chair
Steve Piche

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Monday | February 16

7:30AM - 9:50AM

Session Sponsor
and Co-Chair

Co-Chair
Clayton Erickson

E7. SCR & CONTROL TECHNOLOGIES

E7.1 DEVELOPMENT OF NOVEL SCR-DENOX CATALYSTS - REVIEWING THE RESULTS OF RECENT EUROPEAN RESEARCH PROJECTS

Barna Heidel, Head of Department, Institute of Combustion & Power Plant Technology, University of Stuttgart; Tobias Schwämmle & Günter Scheffknecht

E7.2 INCREASES IN NOX EMISSIONS IN COAL-FIRED SCR-EQUIPPED ELECTRIC GENERATING UNITS

Tom McNevin, Research Scientist, NJDEP

E7.3 TECHNICAL SCR DEVELOPMENT FOR ENHANCED & COST-COMPETITIVE PERFORMANCE

Larry Czarnecki, Principle Process Engineer, Alstom Power; Paulo Oliveira

E7.4 HOT SCR SYSTEMS FOR LARGE FRAME SIMPLE CYCLE GAS TURBINES

Robert McGinty, Senior Product Manager - Gas Turbine & Industrial SCR Systems, Mitsubishi Hitachi Power Systems Americas, Inc.; Rand Drake

E7.5 DELTA WING® MIXING SYSTEM RETROFIT FOR IMPROVED SCR PERFORMANCE

Clayton Erickson, VP Environmental Technology & Products, Babcock Power Environmental; Roderick Beittel, Riley Power Inc

E7.6 UPDATES ON THE PERFORMANCE OF SELECTED LIME-BASED CIRCULATION DRY SCRUBBERS

Shiaw Tseng, Marketing & Technical Manager, Graymont

E7.7 SO2 CONTROL USING DRY SORBENT INJECTION TECHNOLOGY WITH HYDRATED LIME

Jerry Hunt, Specialist Flue Gas Treatment, Lhoist North America; Jim C. Dickerman

F1. RENEWABLE ENERGY MARKETS

1PM - 3PM

F1.1 BEST PRACTICES FOR VOLUNTARY RENEWABLE ENERGY PROGRAMS

Robin Quarrier, Chief Counsel, Center for Resource Solutions; Sarah Busch

F1.2 INDUSTRY TRENDS IN RENEWABLE ENERGY SYSTEMS

Joseph DiMatteo, Managing Partner, Engineered Solar

F1.3 STRUCTURES AND STRATEGIES FOR CORPORATE CLEAN POWER PROCUREMENT

Joshua Bushinsky, Associate - Energy & Infrastructure Finance, Wilson Sonsini Goodrich & Rosati

F1.4 THE IMPORTANCE OF WORKING GREEN WHILE GENERATING RENEWABLE CLEAN ENERGY

Paul Raiford, Director of Energy Services, Williams Scotsman

F1.5 SUSTAINABILITY & EV CHARGING - YOU CAN HAVE BOTH IN A PAINLESS MANNER WHILE ADDING REAL VALUE TO YOUR ASSET

Desmond Wheatley, President & CEO, Envision Solar International

Co-Chair
Joseph
DiMatteo

F2. DISTRIBUTED GENERATION

3:30PM - 5:30PM

F2.1 MICROTURBINE DISTRIBUTED GENERATION & PERMITTING UPDATE

Peter Moore, Principal Engineer, Yorke Engineering; Steve Acevedo, Regatta Solutions

F2.2 ROI OF DISTRIBUTED POWER GENERATION VS. TRADITIONAL CENTRALIZED PRODUCTION

Brian Korgaonkar, Sr. Product Manager, Enphase Energy

F2.3 RUGGED & RELIABLE MICROGRID SYSTEMS FOR TOUGH ENVIRONMENTS

Frank Pendleton, Program Manager, MRIGlobal; Sayan Chakraborti & Dr. Martin Smith

F2.4 ENERGY STORAGE USING HYDROGEN FOR CLEAN DISTRIBUTED POWER

Susan Schoenung, President, Longitude 122 West, Inc.

F2.5 IMPLEMENTATION OPTIONS FOR MEETING NET METERING POLICY OBJECTIVES

Joseph Daniel, Associate, Synapse Energy Economics; Dr. Tommy Vitolo



Peter Moore


Brian
Korgaonkar

Tuesday | February 17

F3. RENEWABLE DEVELOPMENT ANALYSIS

7:30AM - 9:30AM

F3.1 PROMOTING HYDROPOWER DEVELOPMENT THROUGH PERMITTING OPPORTUNITIES

Sarah Howard, Senior Environmental Scientist, Black & Veatch

F3.2 OPTIMIZING THE LEVEL OF RENEWABLE PENETRATION IN A HYBRID SYSTEM

Peter Lilienthal, CEO, HOMER Energy

F3.3 A UNIQUE ASSESSMENT PROCESS IN CANADA'S YUKON - DOES IT WORK?

Ken McKinnon, Chair, Yukon Environmental & Socio-Economic Assessment Board

F3.4 "BANKABLE" RENEWABLE ENERGY PROJECTS IN ASIA: POTENTIAL & CHALLENGES

William Byun, Managing Director, Asia Renewables; William I.Y. Byun

F3.5 USING SOCIAL MEDIA IN YOUR PUBLIC OUTREACH CAMPAIGN

Brian Lee, President, Revelation PR, Advertising & Social Media

F3.6 THREE CENT PER KWH POWER FROM SPACE BY 2023

Keith Henson, Retired, L5 Society

F3.7 THE EFFECT OF A ROOF GRASS ON THE THERMAL PERFORMANCE OF A HOUSE IN A HOT-ARID REGION

Nasser Alhemididi, Professor, King Saud University

Session Sponsor
and Co-Chair


BLACK & VEATCH

Sarah Howard

Tuesday | February 17

10AM - 12PM

Session Sponsor
and Co-Chair


John King

Co-Chair
Valentino
Tiangco

F4. RENEWABLE PROJECT DEVELOPMENT

F4.1 SITING ENERGY PROJECTS ON FEDERAL LANDS – OVERCOMING CHALLENGES

John King, Principal, Environmental Management & Planning Solutions, Inc.

F4.2 SMUD COMMUNITY RENEWABLE ENERGY DEPLOYMENT (CRED) PROJECTS

Valentino Tiangco, Biomass Program Manager, Sacramento Municipal Utility District

F4.3 BIG DATA MEETS THE MICROGRID -- THE FUTURE OF RENEWABLE ENERGY SYSTEM DESIGN

Katrina Prutzman, Assistant Director - System Design, UGE; Sarah Newman

F4.4 MILENA-OLGA: MOST EFFICIENT ENERGY FROM WASTE

Jan-Willem Konemann, Sales Manager - Renewable Technology, Royal Dahlman

F4.5 REGULATORY & PERMITTING INFORMATION DESKTOP (RAPID) TOOLKIT

Aaron Levine, Legal & Regulatory Analyst, NREL; Katherine Young

F4.6 DEVELOPING ROBUST PATENT PORTFOLIOS WHILE NAVIGATING PATENT THICKETS

Salvador Bezos, Director, Sterne, Kessler, Goldstein & Fox

1PM - 3PM

Co-Chairs
Oguz Capan
&
Doug Dietrich

F5. SOLAR & WIND

F5.1 VALUE OF SOLAR PROGRAM DESIGN

Joyce McLaren Sr., Market & Policy Analyst, National Renewable Energy Laboratory

F5.2 THE NEW WAVE OF SOLAR: AN END-TO-END SOLUTION

Ed Feo, COO, Coronal

F5.3 COMBINED CSP & WATER TREATMENT SYSTEM

Oguz Capan, CEO & Chief Tech. Officer, HITITE Solar

F5.4 WHITE NOSE SYNDROME: IMPLICATIONS FOR WIND ENERGY DEVELOPMENT

Ed Shadrick, Senior Ecologist, Black & Veatch; Doug Timpe

F5.5 CASE STUDY: ENVISION STEPPING UP SUSTAINABILITY AS YOU NEGOTIATE WINDS OF CHANGE

Doug Dietrich, Program Manager - Envision Sustainable Infrastructure, Burns & McDonnell; Robert Healy, Burns & McDonnell; TBD, Portland General Electric

F5.6 A GIS MODEL FOR DETERMINING LOCATIONS OF SOLAR VORTEX (SOV) POWER GENERATION FACILITIES

Amy Moore, Ph.D. Student, Georgia Institute of Technology; Dr. Michael O. Rodges & Dr. Yanzhi Xu

3:30PM - 5:30PM

Co-Chair
Arun Gupta

F6. SOLAR & PV

F6.1 FLAT-PANEL SOLAR COGENERATION FOR COMMERCIAL ROOFTOPS

Arun Gupta, Founder and CEO, Skyven Technologies, LLC

F6.2 ROOFTOP SOLAR VS ELECTRIC UTILITIES - DAVID BATTLES GOLIATH

Greg Odegard, Principal, GO Global Environmental

F6.3 VALUE OF SOLAR: PROGRAM DESIGN

Joyce McLaren, Sr. Energy Analyst, National Renewable Energy Laboratory; Karlynn Cory, NREL; Mike Taylor, John Sterling, Ted Davidovich & Miriam Makhoun, SEPA

F6.4 ANALYZING PV SYSTEM EFFECTS ON LOCATIONAL MARGINAL PRICES (LMPS) & TRANSMISSION LOSSES

Mesude Bayrakci, PhD Candidate, The Pennsylvania State University; Jeffrey R. S. Brownson & Seth A. Blumsack

F6.5 PV HOUSE ENERGY SYSTEM APPRAISALS (VISUAL LIBRARY)

Dr. Adel El Shahat, Assistant Professor, Suez University & University of Illinois

Wednesday | February 18

F7. COMMUNITY SOLAR

F7.1 COMMUNITY SOLAR SESSION

John Nangle, Senior Engineer, National Renewable Energy Laboratory; Joyce McLaren

F7.2 SHARED/COMMUNITY SOLAR: POLICY & REGULATORY CONSIDERATIONS

Joyce McLaren Sr. Market & Policy Analyst, National Renewable Energy Laboratory

F7.3 THE RISKS AND REWARDS OF COMMUNITY SOLAR GARDENS

Emily Artale, Principal Engineer, Lotus Engineering and Sustainability, LLC

F7.4 COMMUNITY SOLAR PROJECT DEVELOPMENT

Tom Hunt, Director of Research & Government Affairs, Clean Energy Collective

F7.5 AB 2188: IMPLEMENTATION OF THE CALIFORNIA SOLAR RIGHTS ACT AT THE LOCAL LEVEL

Joe Kaatz, Staff Attorney, Energy Policy Initiatives Center; Scott Anders

7:30AM - 9:30AM

Session Sponsor
and Co-Chairs

John Nangle
&
Joyce McLaren

F8. BATTERIES & STORAGE

F8.1 ENERGY STORAGE & CALIFORNIA BILL 2514

Alexander Schneider, Intern, Leidos Inc.; Sean McPherson

F8.2 DEVELOPMENT OF LITHIUM ION BATTERY MATERIALS FOR GRID APPLICATIONS

Dee Strand, CSO, Wildcat Discovery Technologies

F8.3 PLANNING & OPERATIONAL STRATEGY OF A LI-ION BATTERY POWERED BASE STATION

Sungwoo Bae, Assistant Professor / PhD, Yeungnam University; Sung-Yul Kim, Keimyung University

F8.4 INTEGRATING LIQUID AIR ENERGY STORAGE (LAES) TECHNOLOGY WITHIN INDUSTRY TO PROVIDE OPERATIONAL FLEX

Travis Starns, General Manager- Projects Unit, ADA-ES, Inc.; Cameron Martin, Ron Hanson, Jon Lagarenne, ADA-ES, Inc.; Matthew Barnett, Highview Power Storage

F8.5 UTILIZING MOLTEN SALT THERMAL STORAGE AT THERMAL POWER PLANTS TO REDUCE GHG EMISSIONS

Justin Raade, CEO, Halotechnics, Inc.; Travis Starns, Cam Martin, Ron Hanson & Jon Lagarenne, ADA-ES

F8.6 THE POTENTIAL OF GLASS AS HYDROGEN STORAGE MATERIAL

Ronald Meyer, Ph.D. Student, BAM Federal Institute for Materials Research and Testing; Christian Groeschl & Dr. Kai Holtappels, BAM; Dan Eliezer, C.EN Stand for Clean Energy

F8.7 AFFORDABLE FLYWHEEL ELECTRICITY STORAGE CHANGES EVERYTHING

Darin Olson, CTO, QuinteQ Energy Storage; Joris Benninga, Paul Vosbeek & Matthew Ross

10AM - 12PM

Co-Chairs
Dee Strand
&
Travis Starns

F9. RENEWABLE ENERGY

F9.1 RENEWABLE ENERGY FROM FOOD WASTE: A PRACTICAL CASE

Laetitia d'Ursel, Business Development Manager, Waterleau

F9.2 FERC ORDER 1000 ENCOURAGES RENEWABLE ENERGY

Bijoy Chatt, Director - Energy, Navigant Consulting Inc.

F9.3 WORLD'S ONLY HYBRID ANAEROBIC DIGESTION SYSTEM THAT EFFICIENTLY & EFFECTIVELY PROCESSES MIXED WASTE

Shane Chrapko, CEO, Himark BioGas Inc.

F9.4 DEVELOPING A MODEL TO SELECT THE BEST SITES TO INSTALL WIND FARMS

Nazanin Naderi, PhD candidate & Instructor, Texas Tech University; Dr. Milton Smith

F9.5 HIGH SPEED MICRO-TURBINE MODELING & CONTROL FOR MICRO GRIDS APPLICATIONS

Dr. Adel El Shahat, Assistant Professor, Suez University & University of Illinois

1PM - 3:00PM

Co-Chair
Bijoy Chatt

Monday | February 16

1PM - 3PM

G1. DECOMMISSIONING OF POWER PLANTS

G1.1 LESSONS LEARNED FROM THE PREPARATION OF ABATEMENT, DEMOLITION, PLANT ASSET VALUATION, AND ENVIRONMENTAL REGULATED MATERIALS COST ESTIMATES TO SUPPORT THE RETIREMENT OF THREE COAL-FIRED POWER GENERATION STATIONS

Jerry Archer, D&D/Repurposing Initiative Leader, Amec Foster Wheeler Environment & Infrastructure, Inc.; Keith D. Welcher, Decommissioning Program Manager, Consumers Energy

G1.2 THE END OF LIFE: COAL-FIRED POWER PLANT CLOSURE FACTORS & IMPLEMENTATION

Jennifer Cave, Partner, Bingham Greenebaum Doll LLP; Jeffery L. Pope, PE, Burns & McDonnell Engineering Co., Inc.

G1.3 PLANNING FOR CLOSURE: ASH PONDS, LANDFILLS & COAL PILES

Jeffery Pope, Manager - Facility Decommissioning & Demolition Services, Burns & McDonnell Engineering Co., Inc.

G1.4 PLANT DECOMMISSIONING – A MASTER PLAN FOR ENSURING MAXIMUM RETURN & MINIMUM LIABILITIES

Jeff Jaros, Sr. Vice President, NTH Consultants, Ltd.; Frank Johnson, R.E. Warner & Associates, Inc.; Doug Hartman, FirstEnergy Corporation

Co-Chairs
Jeffery Pope
&
Jennifer Cave

3:30PM - 5:30PM

G2. POWER PLANT & BOILER OPTIMIZATION

G2.1 OPTIMIZING FOAM CONTROL FOR WET FLUE GAS DESULPHURIZATION SYSTEMS

Kristin Glikbarg, Associate Process Engineer, Burns & McDonnell Engineering Company, Inc.; Paul N. Dyer & Paul T. Brandt, Burns & McDonnell; Misty Worcester, Minnesota Power

G2.2 OPTIMIZATION OF FOSSIL FUEL FIRED BOILERS WITH VIDEO-BASED THERMOGRAPHY

Roland Zepeck, Managing Director, DURAG; Egarat Chaiyarith, Processplus Company Limited; Maurizio Dal Cin, Power Generation Systems

G2.3 IMPROVE HEAT RATE & ENHANCE OPERATIONAL FLEXIBILITY THROUGH SOOTBLOWING OPTIMIZATION AT LA CYGNE UNIT 1

Neel Parikh, Sr. Engineer, Siemens Energy, Inc.; Jim Stewart & Kenneth Luebbert, KCP&L

G2.4 BURNER AIR & FUEL MEASUREMENT & CONTROL FOR COMBUSTION OPTIMIZATION

David Earley, President, Combustion Technologies Corporation

G2.5 THERMODYNAMIC OPTIMIZATION OF POWER PLANTS

Yousef Haseli, Visiting Assistant Professor, Western New England University

G2.6 RE-ENGINEERING COAL-FIRED POWER PLANTS TO MEET EPA REGULATIONS

Keith Moore, President, Castle-Light Energy Corp.

Co-Chairs
Roland Zepeck
&
Yousef Haseli

Tuesday | February 17

7:30AM - 9:30AM

G3. EHS & EMIS

G3.1 A TECHNOLOGY-DRIVEN, SYSTEMS APPROACH TO MANAGING EHS PROGRAMS

Joseph Tell, Managing Partner, Tellevate

G3.2 IMPROVING PERFORMANCE BY LEVERAGING AUDIT INFORMATION TECHNOLOGY

Evan Fitzgerald, Principal, Kestrel Management Services

G3.3 MANAGING RISK WITH AN ENVIRONMENTAL AUDIT PROGRAM

Nick Steinke, Principal, Tellevate

G3.4 AUTOMATING EHS PROCESSES WITH SOFTWARE

John Easton, Director - Product Management, Medgate, Inc.

G3.5 TOP 5 SIGNS TO REPLACE SPREADSHEETS

John Niemoller, President, Perillon Software; James Jensen

G3.6 SAAS AUGMENTS EXCEL FOR EMISSION CALCULATIONS

David Gloski, President, xOverTime Inc.; Don Ahearn

Co-Chairs
Nick Steinke
&
David Gloski

Tuesday | February 17

10AM - 12PM

G4. EHS & RISK MANAGEMENT

G4.1 EHS RISK MANAGEMENT & COMPLIANCE FOR OPERATIONAL EXCELLENCE

Denise Wecker-Seipke, EHS Technical Manager, BSI; Carl Mead

G4.2 APPS & BEST PRACTICES TO MANAGE COMPLIANCE

Sameer Vyas, Partner, Huco Consulting; Meredith Foggin

G4.3 BRIEF SUMMARY ON REGULATORY CHANGE MGMT - ENVIRONMENTAL HEALTH & SAFETY

Ed Sattar, CEO, 360factors

G4.4 HIGH SPEED, HIGH RESOLUTION METHANE MAPPING

Michael Gaura, Marketing Manager, LI-COR Biosciences; George Burba

G4.5 RISK MANAGEMENT & FIRE PREVENTION BY CREATING & MAINTAINING AN ALWAYS-ON REDUCED-OXYGEN (HYPOXIC) ENVIRONMENT

Cory Bryars, Program Manager, ZeroBurn

Session Sponsor
and Co-Chair



Ed Sattar

Co-Chair
Sameer Vyas

G5. REMEDIATION, ECO. DESIGN & MITIGATION

G5.1 A FRAMEWORK FOR ECOLOGICAL RE-USE OF DISTURBED ECOSYSTEMS

Mark S. Laska, Ph.D., Founder & CEO, Great Ecology

G5.2 A GREENER SHADE OF BROWNFIELDS - A CORPORATE PERSPECTIVE

Jane Anderson, Strategy Advisor, Chevron Environmental Management Company

G5.3 A CASE STUDY OF WETLAND MITIGATION IN A HEAVILY INDUSTRIALIZED WATERFRONT

Brian Kellmann, Wetlands Project Manager, Kinder Morgan; Mark S. Laska, Ph.D., Great Ecology

G5.4 PRIVATE CAPITAL INVESTMENT IN LARGE SCALE RESTORATION

Adam Davis, Partner, Ecosystem Investment Partners

G5.5 RESTORATION OF IMPAIRED ECOSYSTEMS: AN OUNCE OF PREVENTION OR A POUND OF CURE?

Timothy Hoelzle, VP Technical Services, Great Ecology; Hooper, Larson & Farag, US Geological Survey; Hull, Intrinsik Env. Sciences; Clements, CO State Univ.; Stahl, Dupont; Stauber, CSIRO; Kaputska, LK Consultancy; Luoma, Univ. CA Davis; Univ. Ruhr, South FL; Wagner, Chevron Energy Tech. Co.; Glomb, USDO

1PM - 3PM
Session Sponsor
and Co-Chair



GREATECOLOGY

Mark Laska

G6. OPERATIONS & OPTIMIZATION

G6.1 OPERATIONAL IMPROVEMENTS WITH HIGH REACTIVITY HYDRATED LIME DSI

Pat Mongoven, Business Development Manager, Mississippi Lime; Curt Biehn

G6.2 THE APPLICATION OF FUEL ADDITIVES TO IMPROVE ESP PERFORMANCE

Paul Farber, Principal, P. Farber & Associates; Pedro Bardessi & Carlos Rojas, AES Gener

G6.3 INTEGRATING ADAIR-MIXER™ TECHNOLOGY TO OPTIMIZE SYSTEM PERFORMANCE WITH ACI & DSI APPLICATIONS

Elizabeth Morley, AQC Process Engineer, ADA-ES, Inc.; Travis Starns & Connie Senior, ADA-ES, Inc.; Dave Dorste, Blender Products

G6.4 BOILER OPTIMIZATION & MATS COMPLIANCE TESTING USING DELTA CO/O₂ EXTRACTIVE MONITORING SYSTEMS

Nicholas Ferri, Co-Owner, Combustion Technologies Corporation

G6.5 TRULY OPTIMIZED OPERATIONS: UNIFYING THE STRATEGIC PLANNING PROCESSES

Steve Podesta, Project Manager, Black & Veatch

G6.6 OPERATIONS CONUNDRUM: WHEN SHOULD UTILITIES CONSIDER OUTSOURCING PLANT O&M

Douglas Machon, Director - Business Development, NAES Corporation

3:30PM - 5:30PM

Session Sponsor
and Co-Chair



BLACK & VEATCH

Steve Podesta

Co-Chair
Paul Farber

Wednesday | February 18

7:30AM - 9:30AM

G7. COMPLIANCE TECHNOLOGIES & STRATEGIESSession Sponsor
and Co-Chair**DURAG**
GROUP

Richard Hovan

Co-Chair
Renee Keys**G7.1 PERMITTING A NEW UNIT WITH "EYES WIDE OPEN"**

Renée Keys, Senior Environmental Analyst, Entergy Services, Inc.; Deborah Saxton, CB&I Environmental & Infrastructure

G7.2 MODERN MODULAR DESIGNED ENVIRONMENTAL & PROCESS DATA MGMT. SYSTEMS

Richard Hovan, Director - Environmental Business Development, DURAG; David Triebel

G7.3 A NEW STRAP-ON SENSOR SYSTEM FOR MEASURING REAGENT MASS FLOW RATES IN PIPING FOR DRY SORBENT INJECTION & ACTIVATED CARBON INJECTION

John Stencel, President, Tribo Flow Separations; A. Ghasemi, Tribo Flow Separation; D. Herri, K. Chen & G. Cheng, University of Kentucky; C. Lockert, Breen Energy Solutions

G7.4 IS THE F-WORD KILLING YOUR ORGANIZATION?

Dr. Maria Church, CEO, Corporate Leadership Solutions

G7.5 DIFFERENT FINANCIAL PERFORMANCE RESPONDING TO CORPORATE SOCIAL RESPONSIBILITY

Xiping Pan, Student, China University of Geosciences; Jinghua Sha

G7.6 TBD

American Greener Technologies

10AM - 12PM

G8. OPERATIONS & MANAGEMENT**G8.1 ROADMAP TO SITING, PERMITTING, & OPERATING FACILITIES IN SAGE GROUSE HABITAT**

David Batts, Principal, EMPSi - Environmental Management & Planning Solutions, Inc.

G8.2 IMPLICATIONS OF FOAMING IN WFGD OPERATION & DESIGN

Jeffery Russell, Fossil Power Director, MPR Associates, Inc.; Eric ten Siethoff

G8.3 OPERATIONAL PLANS TO REDUCE ELECTROMAGNETIC FIELDS IN AN INDOOR ENVIRONMENT

Eitidal Al-Bassam, Research Scientist, Kuwait Institute for Scientific Research

G8.4 LEADING THOUGH CHANGE: DISMANTLING SILOS IN FACILITY MANAGEMENT

Brian MacDonald, Senior Project Manager, Tetra Tech; Colby Hoefar

G8.5 THE IMPORTANCE OF FLEXIBLE SPACE SOLUTIONS FOR ENERGY COMPANIES OF ALL SHAPES & SIZES

Paul Raiford, Director of Energy Services, Williams Scotsman

G8.6 THE FUNDAMENTALS OF INTERNAL CONTROL

Linda Lynch, Senior Reliability Compliance Specialist, Burns & McDonnell; Ingrid D. Rayo

G8.7 MANAGING CULTURE FOR PERFORMANCE & SAFETY - A UTILITY CASE STUDY

Kevin Smith, Partner / Sr. Consultant, Ephektiv; Martin Marquardt, Tosan

Co-Chairs
Eitidal
Al-Bassam
&
Brian
MacDonald

Monday | February 16

1PM - 3PM

H1. CARBON FOOTPRINT & GREEN PROJECTS**H1.1 STRATEGIES TO COMPLY WITH NEW FINANCIAL REGULATIONS IN THE GHG CONSTRAINED MARKET**

Nedia Miller, Founder, MILLER, CTA

H1.2 ALTERNATIVE SOLUTIONS FOR LOWERING CO2 EMISSIONS FROM FOSSIL FUEL EGUS

Tim Donnelly, Senior Project Manager, POWER Engineers, Inc.; Gary Baranowski

H1.3 FIVE YEARS OF OPERATING EXPERIENCE WITH DRYFINING FUEL ENHANCEMENT PROCESS

Sandra Broekema, Manager, Business Development, Great River Energy; Charlie Bullinger, Great River Energy; Nenad Sarunac, Power System Associates

H1.4 THE EFFECTS OF POLLUTION & CLIMATE CHANGE ON HUMAN HEALTH

Katie Baron, Dental Student, NYU College of Dentistry; Bapanaiah Penugonda

H1.5 SUGARCANE TO LOW CARBON ENERGY IN CALIFORNIA

David Rubenstein, President / CEO, California Ethanol & Power, LLC (CE+P)

H1.6 KINETICS OF THE CO2 METHANATION REACTION OVER ALUMINA SUPPORTED NI & NI-FE CATALYST

Atul Kumar, Student, IIT Kanpur; Deepak Kumar & Goutam Deo

Co-Chairs
Nedia Miller
&
Tim Donnelly**H2. GHG & EGRID UPDATES****H2.1 ANALYSIS OF POTENTIAL CO2 REDUCTION USING THE EPA'S GHG REGULATION BLOCK STRATEGIES FOR EXISTING EGUS**

Emily Kunkel, Environmental Associate, Sargent & Lundy, LLC; Rajendra Gaikwad

H2.2 GHG PERMITTING: CURRENT STATUS & RECENT UPDATES

Maren Seibold, Managing Consultant, Trinity Consultants

H2.3 EGRID UPDATES

Travis Johnson, Environmental Protection Specialist, US Environmental Protection Agency; Jeremy Schreifels, US EPA; Cristina Quiroz, Radium Consulting

H2.4 PLASMA GASIFICATION OFFSETS OF GHG EMISSIONS FROM COAL-FIRED POWER PLANTS

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

3:30PM - 5:30PM

Co-Chair



Travis Johnson

Co-Chair

Maren Seibold

Tuesday | February 17

7:30AM - 9:30AM

H3. BIOFUELS, ETHANOL & BIODIESEL**H3.1 NHSM REGULATIONS - WHAT IS YOUR "COMFORT" STATUS?**

Thomas Pritcher, Senior Engineer II, Environmental Consulting & Technology

H3.2 RAPID, CONTINUOUS PRODUCTION OF SOLID BIOFUEL USING REACTIVE TWIN-SCREW EXTRUSION

Amber Broch, Associate Research Engineer, Desert Research Institute; S. Kent Hoekman, Desert Research Institute; Larry Felix & Bill Farthing, Gas Technology Institute

H3.3 SHREDDED WASTE DOWNDRAFT GASIFIER FOR OVERSEAS CONTINGENCY OPERATIONS WASTE TO ENERGY CONVERSION

Matt Reed, Research Materials Engineer, Infoscitex Corporation; Mike Cushman, Jim Belcher & Simeon Schlis, Infoscitex Corporation; Harris Gold, Consultant

H3.4 WHY POPULARIZING HOUSEHOLD BIOGAS DIGESTERS IN RURAL CHINA FAILED?

Wei Lin, Research Fellow / PhD Candidate / Policy Consultant, Tsinghua-Rio Tinto Research Center for Resources, Energy & Sustainable Development; Liwei Hong, Global Environmental Institute

H3.5 FUEL DISPLACEMENT IN CALIFORNIA: A 2025 VIEW

Alejandro Zamorano, Head of Advanced Transport Research, Bloomberg New Energy Finance

H3.6 BIODIESEL & BIOHEAT FUEL

Jessica Robinson, Director of Communications, National Biodiesel Board

Session Sponsor
and Co-Chair

Amber Broch

Co-Chair
Alejandro
Zamorano

10AM - 12PM

H4. BIOMASS

H4.1 12 MW BIOMASS POWER PLANT AND DEDICATED ENERGY CROP PLANTATION IN NICARAGUA

Carl Kukkonen, CEO, VIASPACE Inc.

H4.2 ADVANCED BIOMASS PELLETS - A RENEWABLE, LOW EMISSIONS ALTERNATIVE FOR COAL FIRED GENERATING FACILITIES

Dammon Frecker, Project Manager, Thermogen Industries, LLC

H4.3 CONCEPT FOR SUSTAINABLE ENERGY, FORESTS, SOILS, WATER & COMMUNITIES

Timothy McDonald, Retired Engineer

H4.4 WOOD BIOENERGY & LAND USE: A CHALLENGE TO THE SEARCHINGER HYPOTHESIS

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

H4.5 REAL-TIME CORROSION MONITORING DURING CO-FIRING OF ACCORDANT ENERGY'S REENGINEERED FEEDSTOCK

Jacob Beutler, Senior Engineer, Reaction Engineering International; K. Davis, REI; W. Cox, Corrosion Management Ltd.; D. Bai & R. Jafari Accordant Energy LLC

H4.6 ONLINE ELEMENTAL ANALYSIS POSSIBILITIES IN COAL AND BIOMASS APPLICATIONS

Nichelle Worthington, Director of Operations, SABIA

Co-Chair
Roger Sedjo

1PM - 3PM

H5. COAL ASH / CCP

H5.1 U.S. EPA CCR COMPLIANCE. MAXIMIZE CAPACITY & TRANSITION YOUR EXISTING DISPOSAL SITE

James T. Perry, Project Associate, Sargent & Lundy LLC; Douglas Dahlberg

H5.2 THEY'RE HERE!!! REVIEW OF THE NEW FEDERAL REGULATIONS FOR CCR

Mark Rokoff, National Practice Lead, CCP Management, AECOM Corporation

H5.3 STAR FLY ASH BENEFICIATION - PROCESSING RECLAIMED CCP'S

William Fedorka, Director - Engineering, The SEFA Group

H5.4 MANAGING ASH W/ DENSE SLURRY WHILE CUTTING COSTS & COMPLYING W/ CCR & ELG

Dale Timmons, Program Manager - Business Development, NAES Corporation

H5.5 COAL ASH—A REGULATORY & LITIGATION UPDATE

Sam Boxerman, Partner, Sidley Austin LLP; Ben Tannen

H5.6 ASH SWEEPERS - THE STATE OF THE ART ONLINE CATALYST CLEANING SYSTEM

Nick Pollack, Chief Technology Officer, SCR Tech; Jake Shelton

Co-Chair
Nick Pollack

3:30PM - 5:30PM

Co-Chair



Andrew Kugler

H6. ALTERNATIVE ENERGY

H6.1 CONSIDERATION OF ALTERNATIVE ENERGY SOURCES IN LICENSING OF NUCLEAR REACTORS

Andrew Kugler, Senior Project Manager, U.S. Nuclear Regulatory Commission

H6.2 THE ALGAE ALTERNATIVE - CARBON CAPTURE & REUSE

Tim Zenk, Executive VP - Business Development, Algenol Biofuels; Paul Woods

H6.3 ALGAE - WASTE REMEDIATION AND ENERGY PRODUCTION

Samuel Shepherd, Chief Technical Officer, Missing Link Technology, LLC; Samuel Shepherd

H6.4 LAND USE CHANGE, CARBON, & BIOENERGY RECONSIDERED

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

7:30PM - 9:30PM

H7. CALIFORNIA CLIMATE MANAGEMENT

H7.1 SIMPLE AB32 GHG POSITION MANAGEMENT SOLUTION

David Gloski, President, xOverTime Inc.; Todd Barth & Michael Lehan, xOverTime; Ken Nold, Turlock Irrigation District

H7.2 COMPARATIVE ANALYSIS OF GHG DATA COLLECTED UNDER EPA'S GREENHOUSE GAS REPORTING PROGRAM & CALIFORNIA'S MANDATORY GHG REPORTING REGULATION

Sean Hogan, Environmental Protection Specialist, U.S. Environmental Protection Agency

H7.3 SAN DIEGO FORWARD: THE REGIONAL PLAN: CLIMATE CHANGE MITIGATION & ADAPTATION WHITE PAPER

Susan Freedman, Senior Regional Energy/Climate Planner, SANDAG; Allison Wood

H7.4 REAL-TIME INTERACTIVE DASHBOARD OF ZERO EMISSION VEHICLE DEVELOPMENT IN CALIFORNIA

Ria Langheim, Research Analyst, Center for Sustainable Energy; John Anderson

H7.5 UNDERSTANDING THE CALIFORNIA CARBON MARKET: THE TIMING EFFECT

Jonathan Ornelas, Director of US Emissions, ICIS; Jan Frommeyer & Judith Schroeter

Co-Chair
David Gloski

H8. CCS: CARBON CAPTURE & STORAGE

H8.1 W.A. PARISH POST-COMBUSTION CO2 CAPTURE & SEQUESTRATION PROJECT

Ted McMahon, Project Mgr., U.S. Department of Energy; Anthony Armpriester, Petra Nova

H8.2 ION'S ADVANCED CO2 CAPTURE SOLVENT: INITIATION OF SLIPSTREAM PILOT DEMONSTRATION

Nathan Brown, VP - Research & Development, ION Engineering; Greg Staab, Sr. & Rene Kupfer, ION Engineering; Jason E. Bara, The University of Alabama

H8.3 STUDY OF CO2 ADSORPTION MECHANISM UNDER EXISTENCE OF H2O ON NOVEL CEO2-BASED ADSORBENT

Kohei Yoshikawa, Researcher, Hitachi, Ltd., Hitachi Research Laboratory; Masato Kaneeda, Hitachi, Ltd.; Hidehiro Nakamura & Toshiaki Shirasaka, Hitachi Chemical

H8.4 SEQUESTRATION OF CARBON IN FORESTS IN NORTHEAST BC UNDER THE UN FRAMEWORK CONVENTION ON CLIMATE CHANGE

Christopher Maundrell, President, Peace Carbon Trades Ltd

10AM - 12PM

Co-Chair
Nathan Brown

H9. CCS II

H9.1 DEVELOPMENT OF INNOVATIVE MANGANESE OXIDE BASED OXYGEN CARRIERS FOR CHEMICAL LOOPING COMBUSTION

Ngozi Ekpe, PhD Student, University of Nottingham; Colin E. Snape, Cheng-Gong Sun & Hao Liu

H9.2 REACTIVE & PORE STRUCTURE CHANGES IN CARBON DIOXIDE SEQUESTRATION

Hyukmin Kweon, Ph.D candidate, University of Utah; Christian Payne & Milind Deo

H9.3 A PILOT-SCALE PROTOTYPE CO2 ADSORPTION WITH TVSA PROCESS

Fengsheng Su, Post-doc, National Chung Hsing University; Chungsyng Lu

H9.4 COMPARATIVE STUDIES OF CO2 CAPTURE VIA PRESSURE SWING ADSORPTION FOR ZEOLITES & AMINE MODIFIED MESOPOROUS SILICAS & METAL ORGANIC FRAMEWORKS

Eleni Tsalaporta, PhD researcher - Chemical Engineer, University College Dublin (UCD); Chuan Liu & Professor Don MacElroy

H9.5 EFFECTS OF CONTAMINANTS TO PRE-COMBUSTION CO2 CAPTURE SOLVENTS

Fan Shi, Sr. Materials Scientist, AECOM/NETL; Brian Kail, AECOM Corp.; Hunaid Nulwala & David Luebke, CMU; Nicholas Siefert, NETL

1PM - 3:00PM

Co-Chair
Christopher
Maundrell

Monday | February 16

1PM - 3PM

11. WASTEWATER MANAGEMENT

Session Sponsor
and Co-Chair



Ian Saratovsky

Co-Chair
Manitia Moultrie

11.1 TESTING TO MEET LOW HG LIMITS IN FGD PURGE WATER AT A COAL-FIRED PLANT

Paul Pigeon, Senior Engineer, Golder Associates Inc.; Troy Patton, Seminole Electric Cooperative Inc.; Rachel Hanson & Kristen Sealey, Golder Associates Inc

11.2 MIXED ASH LANDFILL EMERGING ISSUES

Ivan Cooper, Practice Leader, Civil & Environmental Consultants, Inc.

11.3 TREATMENT OF SELENIUM, ARSENIC, MERCURY, & NITRATE FROM FGD WASTEWATER

Joon Min, President, BKT; Behrang (Ben) Pakzadeh, Jay Wos & Jay Renew, SRI; Richard Breckenridge, EPI; Jason Teng, Southern Compan; Allen Chan, JK Kim & GT Park, BKT

11.4 HOLISTIC APPROACH TO WATERSHED-LEVEL RISK ANALYSIS & MGMT OF BROMIDE

Robert Strange, Associate Project Manager, Southern Research Institute; Brian Mastin, PhD

11.5 HCLAR™ TECHNOLOGY: A SOLUTION-BASED APPROACH TO HCL ABATEMENT

Ian Saratovsky, Technology Development Manager, Fuel Tech, Inc.; Kent W Schulz, Chris R Smyrniotis, Emil P. Rivera & Heng Wang

12. WATER & ELECTRIC UTILITIES

3:30PM - 5:30PM

12.1 THE USE OF PORTABLE FLOWMETERS FOR WATER BALANCE VERIFICATION

Karen Burchardt, Senior Environmental Engineer, Burns & McDonnell; Maggie Skelton, Minnesota Power; Samantha Tewel, Burns & McDonnell

12.2 WATER BALANCE & RECOVERY AT CONEDISON'S GENERATING STATIONS

Angele Kwimi, Engineer, ConEdison; Gary Thorn & Keith Guberman

12.3 WATER SCARCITY CHANGING THE ECONOMICS OF POWER GENERATION

Alex Klaessig, Senior Analyst, IHS CERA

12.4 TREATED WASTEWATER IN POWER PLANTS FOR COOLING & DEMINERALIZATION

Behrang Pakzadeh, Senior Process Engineer, Kiewit Power Engineers Co.; Brad Buecker, Brian Clarke, P.E., & Michael McMenus

12.5 IDENTIFICATION OF AROCLORS IN ENVIRONMENTAL SAMPLES BY PATTERN MATCHING

Randall Bramston-Cook, Principal, Lotus Consulting; Edward Bramston-Cook, Lotus Consulting; Mark Scesny, M Solutions

12.6 UPDATE ON ELECTRIC UTILITY INDUSTRY WASTEWATER ISSUES

Tisha Scroggin, Section Manager, Burns & McDonnell Engineering Company, Inc.

12.7 TBD

American Greener Technologies

Tuesday | February 17

7:30AM - 9:30AM

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and Co-Chair



Sean
McGaughan

Co-Chair
Bret DeRousse

13. 316B

13.1 REVIEW & IMPLICATIONS OF THE FINAL SECTION 316(B) RULE

Gregory Howick, Senior Aquatic Ecologist, Burns & McDonnell Engineering Company, Inc.; Steve Gruber

13.2 COMPLIANCE TO EPA 316(B) UTILIZING OPTION 5 MODIFIED TRAVELING SCREENS

Sean McGaughan, Global Product Mgr. - Intake Systems, Evoqua Water Technologies

13.3 DESIGN OF FISH RETURN SYSTEMS & OPERATIONS/MAINTENANCE GUIDELINES

Nathaniel Olken, Project Engineer, ALDEN, Inc.; Dan Giza & Jonathan Black, Alden Research Laboratory, Inc.; Douglas Dixon, Electric Power Research Institute

13.4 INTAKE RETROFITS WITH RETRIEVABLE CYLINDRICAL SCREENS

Jason Eichenberger, Senior Civil Engineer, Burns & McDonnell Engineering Company, Inc.; Terry Larson, Burns & McDonnell Engineering Company; Karen Hinkforth, We Energies

13.5 FISH SURVIVAL FROM A HYDROLOX TRAVELING WATER SCREEN & FISH RETURN SYSTEM

Brett DeRousse, National Account Manager, Intralox; Doug Dixon, EPRI; Justin Mitchell, Alabama Power

13.6 FINE MESH SCREENS AS ENTRAINMENT BTA UNDER THE EXISTING FACILITIES RULE

Mark Gerath, Principal Scientist - Water Resources, Environmental Consulting & Technology; John Burnett, HDR; Jon Black, Alden

Tuesday | February 17

10AM - 12PM

14. 316B

14.1 316B COOLING TOWER EFFICIENCY IMPACTS & RELATED SOCIAL COSTS

Matthew Bingham, Principal Economist, Veritas Economics; Grant Crownfield

14.2 HOW TO ADDRESS THE BIOLOGICAL STUDIES REQUIRED AS PART OF THE 316B RULE

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

14.3 IMAGING SONAR: FISH MONITORING IN COOLING WATER INTAKE STRUCTURES

Peter Johnson, Sr. Research Scientist, LGL Alaska Research Associates, Inc.; Jonathan Leiman, Environ International Corp.

14.4 316B THE SOCIAL COSTS OF LOST FLOW

Matthew Bingham, Principal Economist, Veritas Economics; Jason Kinnell & Dawn Woodard

14.5 WILL CLEAN WATER ACT 316B REGULATIONS END CHEMICAL COOLING WATER TREATMENT PROGRAMS?

Mary Wolter Glass, President, Mexel USA, LLC

Co-Chair
Greg Seegert

15. FGD WASTEWATER - ZLD

15.1 ACHIEVING FGD WASTEWATER ZLD THROUGH ENCAPSULATION: CHALLENGES, BENEFITS, & TECHNOLOGY READINESS

Morgan French, Research Engineer, Southern Company Services; Kirk Ellison

15.2 INTEGRATING ZERO LIQUID DISCHARGE (ZLD) TECHNOLOGY INTO THE DESIGN OF A 6X800 MW FGD RETROFIT PROJECT

Mike Preston, Chemical Engineering Section Leader, Black & Veatch; Steve E. Russell

15.3 POZZOTEC – A SIMPLE PATH TO ZERO LIQUID DISCHARGE

Scott Fraley, Sr. Technical Specialist - FGT Markets, Carmeuse Lime & Stone

15.4 PROCESSING POWER PLANT WASTE TO HIGH MARKETABLE COMMODITIES. AN OUTLOOK

Robert Bobeck, PhD, Process Development, Dustex

15.5 CIRCULATING FLUID BED EVAPORATOR FOR POWER PLANT WASTEWATER TREATMENT

Angelos Kokkinos, Chief Technology Officer, Babcock Power, Inc.; Matt Quitadamo

15.6 ZLD SOLUTIONS FOR POWER PLANTS

Paulo Oliveira, Product Marketing Manager, Alstom; Philip Rader & Ray Gansley

1PM - 3PM

Session Sponsor
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Kirk Ellison

Co-Chair
Scott Fraley

16. FGD WASTEWATER

16.1 ONLINE MONITORING OF HG, SE AND AS IN FGD WASTEWATER TREATMENT PLANTS

Warren Corns, Research Director, PS Analytical Ltd; Bin Chen

16.2 MINIMIZING THE COST OF ELG COMPLIANCE BY REDUCING FGD BLOWDOWN

Kristin Glikbarg, Associate Process Engineer, Burns & McDonnell Engineering Company, Inc.; Dave Guinta

16.3 THE ELECTRIC GENERATING UTILITIES WATER RESERACH CENTER

Morgan French, Research Engineer, Southern Company Services Inc.

16.4 ONLINE MULTI-METAL WATER ANALYZER BASED ON X-RAY FLUORESCENCE

Troy Pittenger, Research & Development Director, Cooper Environmental Services; Josh Katz, Brian Edge & John Cooper

16.5 NEW EPA ENDORSED METHOD FOR THE ANALYSIS OF FGC WASTEWATERS BY ICP/MS

Richard Burrows, Corporate Technical Director, TestAmerica Inc

16.6 FGD WASTEWATER USING VIBRATORY SHEAR ENHANCED PROCESSING MEMBRANE

Robert Strange, Associate Project Manager, SRI; Behrang Pakzadeh, SRI; L. Stowell & A. DeSchutter, New Logic Research; R. Breckenridge, EPRI; J. Teng, Southern Company

3:30PM - 5:30PM

Session Sponsor
and Co-Chair



Robert Strange

Co-Chair
Warren Corns

7:30AM - 9:30AM 17. WATER SUSTAINABILITY

17.1 CONSTRUCTED WETLAND TREATMENT SYSTEMS IN THE POWER INDUSTRY: AN INNOVATIVE DESIGN FOR POLISHING OF FGD WASTEWATER

Katie Bland, Senior Environmental Engineer, Burns & McDonnell; Paul Von Hertsenber, Westar Energy; Chris Snider, Burns & McDonnell

17.2 LIFE CYCLE WATER USAGE FOR PHOTOVOLTAIC ELECTRICITY PRODUCTION: MANUFACTURING WATER REQUIREMENTS

Jordan Macknick, Energy and Environmental Analyst, NREL; Garvin Heath & Ariel Miara

17.3 BOILER FEED WATER DECHLORINATION USING HYDRO-OPTIC UV TECHNOLOGY

Ken Jeffers, Manager - SCR Catalyst Services Southern Research Institute; Jay Wos & Behrang Pakzadeh, Southern Research Institute; Dennis Bitter & Ytzhak (Itzik) Rozenberg, Atlantium Technologies, Inc.; Tracy Underwood, Georgia Power Company; Richard Breckenridge, Electric Power Research Institute

17.4 TREATMENT OF OIL-CONTAMINATED SPRING WATER IN A VILLAGE IN IRAN FOR AGRICULTURAL USAGE

Karim Ghasemippanah, Senior Researcher, Research Institute of Petroleum Industry (RIPI); Ebrahim Alaei

17.5 WATER FOOTPRINTING & MAPPING FOR COMMERCIAL/INDUSTRIAL FACILITIES: STRATEGIES FOR WATER CONSERVATION, TREATMENT, & REUSE

Hari Gupta, Principal Engineer, Coriolis Enterprises, Inc.

Co-Chairs
Hari Gupta
&
Katie Bland



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Monday | February 16

1PM - 3PM

J1. FLEET

J1.1 ALTERNATIVE FUELS FLEET ANALYSIS TO REDUCE FUEL COSTS & GHG EMISSIONS

Kevin Wood, Project Mgr - Clean Transportation, Center for Sustainable Energy; Randy Wilde

J1.2 CLEAN VEHICLES TECHNOLOGY: FUELING WITH H2 GENERATED FROM ALTERNATIVE FUELS

Dara Grigorova, CEO, Adventure AD

J1.3 THE DEVELOPMENT OF CALIFORNIA LIGHT-DUTY VEHICLE (LDV) REQUIREMENTS TO SUPPORT CLIMATE STABILIZATION: FLEET-EMISSION RATES & PER-CAPITA DRIVING

Michael Bullock, Transportation Committee Chair, San Diego Sierra Club

J1.4 IMPROVING TURN TIMES: HARNESSING GPS DATA FOR DRAYAGE TRUCK EFFICIENCY

Yair Crane, Associate, E2 ManageTech; Greg Alexander

J1.5 WEST COAST ELECTRIC FLEETS

Randy Wilde, Project Associate, Center for Sustainable Energy

Co-Chair
Yair Crane
&
Randy Wilde

Tuesday | February 17

7:30AM - 9:30AM

J3. EV, PHEV HYBRID SYSTEMS

J3.1 MULTI-UNIT DWELLING VEHICLE CHARGING - CHALLENGES & RESOURCES

Joel Pointon, Electric Trans. Manager, San Diego Gas & Electric

J3.2 SAN DIEGO REGIONAL ELECTRIC VEHICLE READINESS PLAN: ACCELERATING THE ADOPTION OF PLUG-IN VEHICLES

Anna Lowe, Associate Regional Energy/Climate Planner, San Diego Association of Governments (SANDAG)

J3.3 HOW HYBRID ELECTRIC FLEETS BOOST SUSTAINABILITY & BRAND AWARENESS

Edward Lovelace, Chief Technology Officer, XL Hybrids

J3.4 ELECTRIC VEHICLES AND WORKPLACE CHARGING

Randy Schimka, Project Manager - Clean Transportation, San Diego Gas & Electric

J3.5 HAVE ELECTRIC VEHICLES ALREADY WON?

Andrew Went, PhD Student, Curtin University Sustainability Policy Institute (CUSP)

J3.6 WORKPLACE CHARGING IS CRUCIAL FOR EV ADOPTION

Bill Williams, Head of North American Sales - EV Chargers, Telefonix, Inc.; John Hipchan

Co-Chairs
Joel Pointon
&
Edward
Lovelace

10AM - 12PM

J4. BATTERY & STORAGE SYSTEMS

J4.1 ADVANCED LEAD ACID BATTERY TECH. FOR MICRO & MILD HYBRID EV APPLICATION

Shawn Peng, V.P of Technology, Leoch Battery Corp.

J4.2 SECONDARY USE APPS. OF PLUG-IN ELECTRIC VEHICLE LITHIUM-ION BATTERIES

Mike Ferry, Senior Specialist - Advanced Energy Projects, Center for Sustainable Energy; Michele Bogen

J4.3 HOW CAN INTELLIGENT ENERGY STORAGE BE COST EFFECTIVE?

Victor Shao, CEO, Green Charge Networks

J4.4 LAPS CYCLE FOR BULK ENERGY STORAGE

William Conlon, President, Pintail Power LLC

J4.5 LI-ION BATTERY TECHNOLOGY BASED ENERGY STORAGE SYSTEM - CHALLENGES, OPPORTUNITIES AND APPLICATIONS

Yuan Dao, PhD, Elite Power Solutions, LLC

J4.6 NMP FREE MANUFACTURING PROCESSES APPLIED TO GRID SCALE LITHIUM ION ENERGY STORAGE APPLICATIONS

Rajshakar DasGupta, Vice President Technology, Electrovaya

J4.7 OPERATING ZONES IDENTIFICATION FOR INDEPENDENT-ENERGY-STORAGE

Hussein Abdeltawab, Teaching Assistant, U. of Alberta; Yasser Mohamed Abdel Rady

Session Sponsor
and Co-Chair



Victor Shao

Co-Chair
William Conlon

Tuesday | February 17

1PM - 3PM

J5. H₂ FUEL CELLS

J5.1 DESIGN OF A HYDROGEN FUEL ANALYZER

Edward Bramston-Cook, Principal, Lotus Consulting; Randall Bramston-Cook, Lotus Consulting; David Blekman, California State University; Yu Chen, Tiger Optics, LLC

J5.2 CONVERTING A 14-TURBINE STRANDED WINDPLANT TO PRODUCE HYDROGEN FUEL FROM 100% OF AEP

Bill Leighty, Principal, Alaska Applied Sciences, Inc.

J5.3 COMMERCIALLY VIABLE FUEL CELL TELECOM BACKUP POWER SOLUTIONS

Kevin White, Director of Sales - Americas, Ballard Power Systems Inc.

J5.4 RENEWABLE & SUSTAINABLE ENERGY - SOLAR TO HYDROGEN FOR FUEL CELL ELECTRICITY

Thomas W. Oakes, PhD, CEO, Solar Hydrogen Energy Co

J5.5 PERFORMANCE OF HYDROGEN FUEL ANALYZER

Randall Bramston-Cook, Principal, Lotus Consulting; Edward Bramston-Cook, Lotus Consulting; David Blekman, PhD, California State University; Yu Chen, Tiger Optics LLC

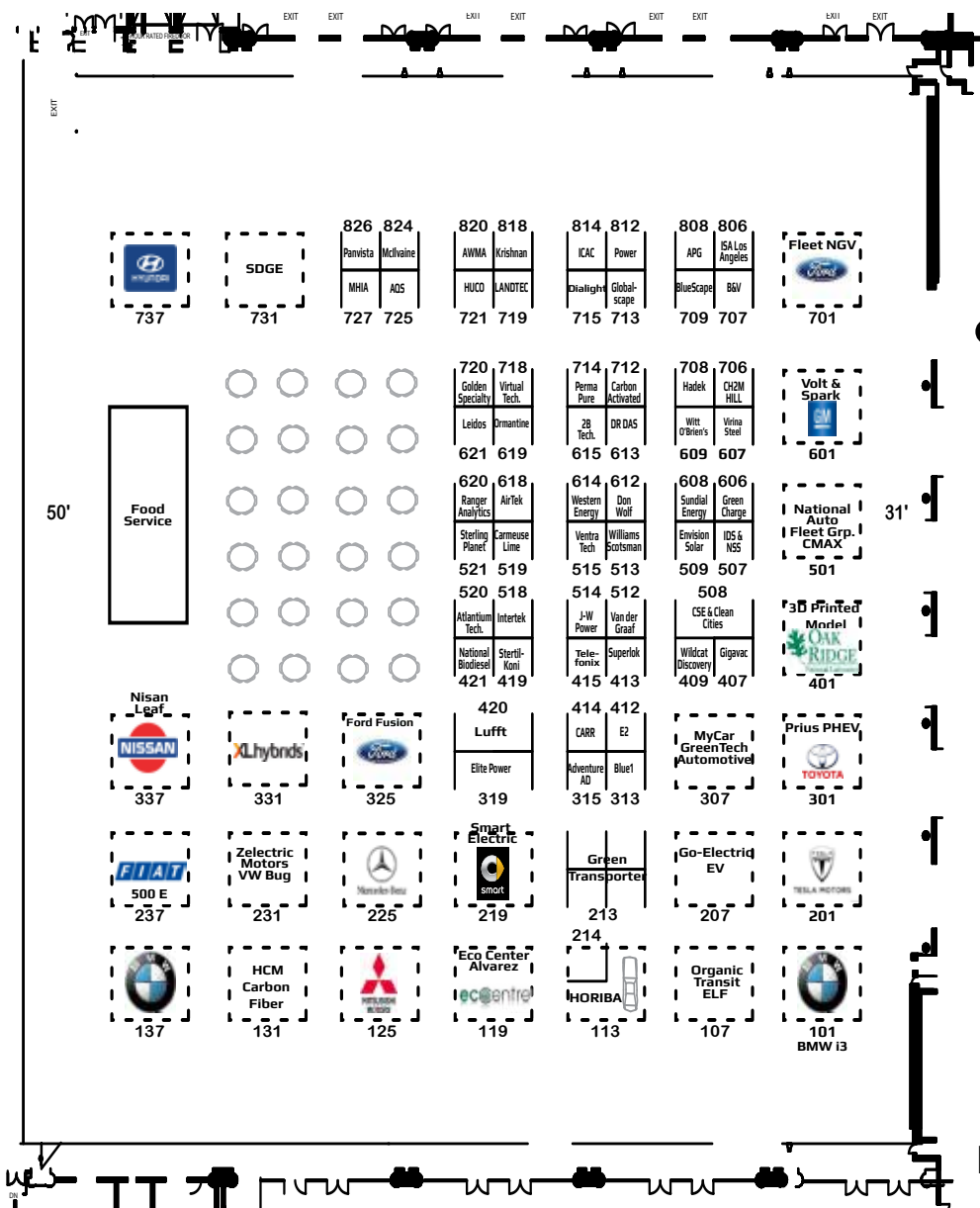
Co-Chair
Randall
Bramston-Cook

Conference

CLEAN CAR EXPO (CCE)

CCE & EUEC EXPO EXHIBITS
(FREE Admission - Registration Required)

SAILS PAVILION



Layout

EUEC2015

MEETING ROOMS & EXHIBITS

(Ticketed Admission to meetings and 8 networking events with meals)

BALLROOM

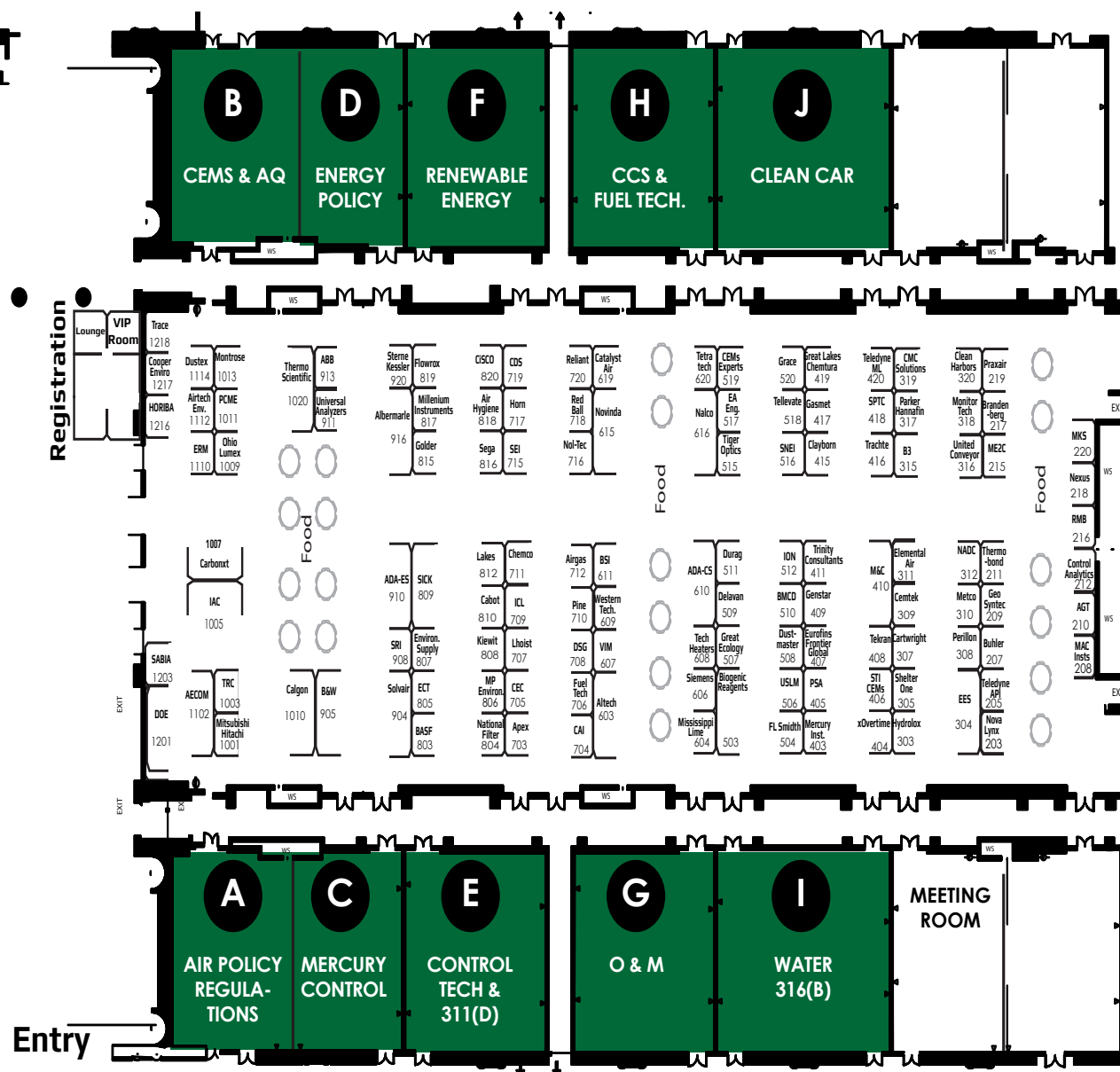


EXHIBIT HOURS	
SUN (2/15)	12 noon - 6:00 pm Move In / Set Up
MON (2/16)	9:00 am - 7:00 pm
TUE (2/17)	9:00 am - 7:00 pm
WED (2/18)	9:00 am - 12 noon
WED (2/18)	12 noon - 3:00 pm Tear down

615* 2B Technologies, Inc.	713* Globalscape	826* Panvista
618* AirTek	720* Golden Specialty, Inc.	714* Perma Pure
808* APG Analyzer Systems	708* Hadek Protective Systems	812* Power Magazine
725* AQS, LLC	721* Huco Consulting	620* Ranger Analytics
520* Atlantium Technologies, Inc.	814* ICAC	521* Sterling Planet, Inc.
820* AWMA	507* IDS & NSS	518* Stertil-Koni
707* Black & Veatch	518* Intertek	608* Sundial Energy
709* BlueScape Environmental	514* J-W Power Company	512* Van der Graaf
712* Carbon Activated Corporation	806* ISA	515* Ventra Technology
519* Carmeuse Lime & Stone	818* Krishnan & Associates	607* Virina Steel
706* CH2M Hill	719* LANDTEC	718* Virtual Technology, LLC
715* Dialight	621* Leidos	614* Western Energy Systems
612* Don Wolf & Associates, Inc.	824* McIlvaine	513* Williams Scotsman
613* DR DAS LTD	727* Mitsubishi Heavy Industries	609* Witt O'Brien's
509* Envision Solar	619* Ormantine	

EV • NGV • H2 • Biofuels • Hybrid • Fleet Vehicles



Clean Car Expo

Booth Company

315	Adventure AD
313	Blue1USA
137	BMW of Escondido
101	BMW of San Diego
414	CARR
508	Center for Sustainability
601	Courtesy Chevrolet
412	E2 ManageTech
119	EcoCentre Alvarez
201	Electric Car Insider
319	Elite Power Solutions
407	Gigavac
207	Go-Electric EV
606	Green Charge Networks
307	GreenTech Automotive
213	Green Transporter
131	HCM
214	HORIBA Instruments, Inc.
113	HORIBA Automotive Test Sys.
737	Hyundai Tucson
237	KM Fiat and Alfa Romeo
337	KM Nissan Leaf
701	Kearny Pearson Ford
325	Ken Grody Ford
420	Lufft
225	Mercedes Ben of SD
125	MMNA (Mitsubishi Motors)
501	National Auto Fleet Grp. CMAX
421	National Biodiesel
107	Organic Transit
401	ORNL
731	San Diego Gas & Electric
219	Smart Center San Diego
413	Superlok, USA
301	Toyota Carlsbad
415	Telefonix
409	Wildcat Discovery
331	XL hybrids
231	Zelectric Motors

Entrance

737	SDGE	731	727	725	721	719	715	713	709	707	701
720	718	714	712	708	706	621	619	615	613	609	607
620	618	614	612	608	606	521	519	515	513	509	507
520	518	514	512	508	506	421	419	415	413	409	407
420	418	414	412	408	406	337	331	325	319	315	313
337	331	325	319	315	313	237	231	225	219	213	207
237	231	225	219	213	207	137	131	125	119	113	107
137	131	125	119	113	107	101	101	101	101	101	101

EUEC Exhibits in Ballroom

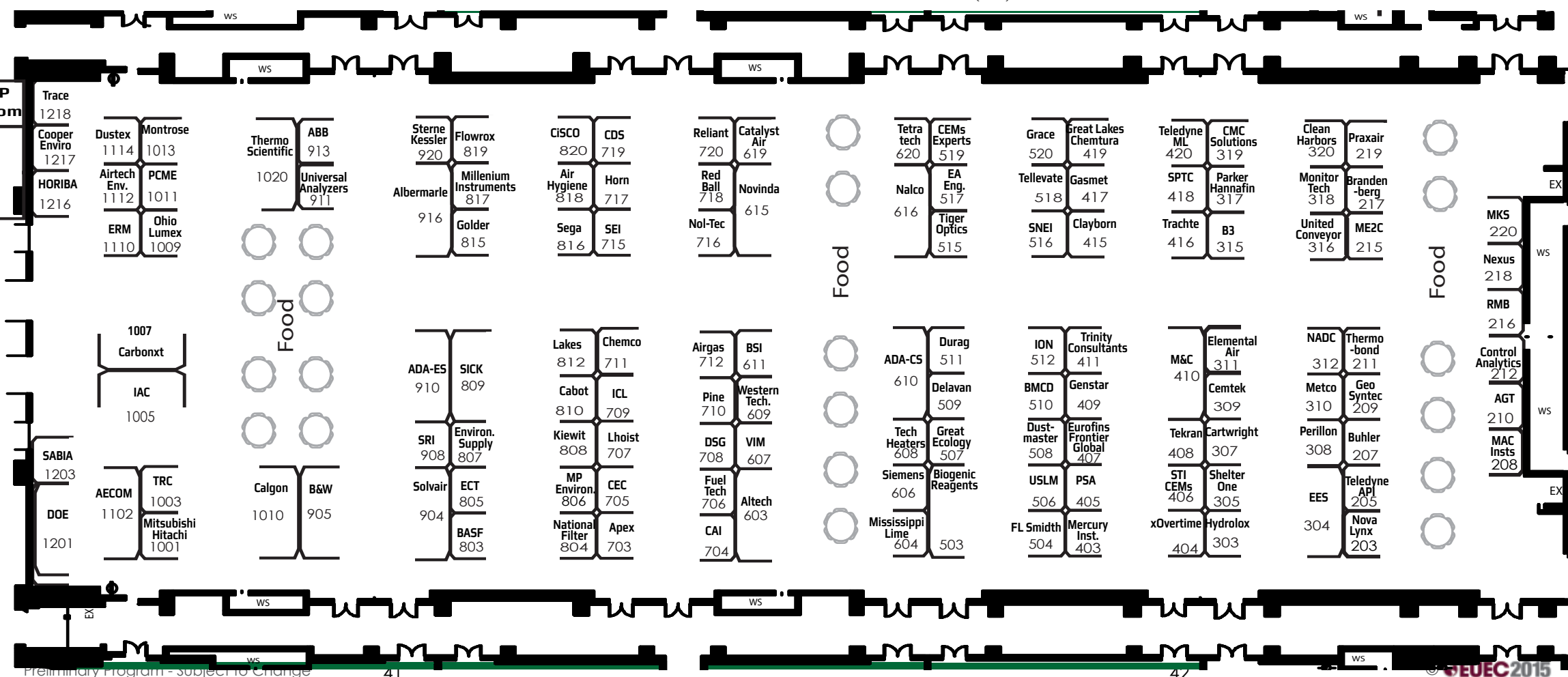
913e	ABB	810e	Cabot Norit Activated Carbon
610e	ADA Carbon Solutions	1010e	Calgon Carbon
910e	ADA-ES, Inc.	704e	California Analytical Inst. Inc.
1102e	AECOM, Inc.	1007e	Carbonxt, Inc.
818e	Air Hygiene	307e	Cartwright & Associates
712e	Airgas	619e	Catalyst Air Mgmt., Inc.
1112e	Airtech Environmental Svcs	719e	CDS Engineering
916e	Albemarle	519e	CEMS Experts
603e	Altech	309e	Cemtek
210e	America Greener Tech. Corp.	711e	Chemco Systems
703e	APEX Instruments, Inc.	705e	Civil & Env. Consultants (CEC)
315e	B3 Systems, Inc.	415e	Clayborn Labs
905e	Babcock & Wilcox	320e	Clean Harbors
803e	BASF	319e	CMC Solutions
503e	Biogenic Reagents	212e	Control Analytics, Inc
217e	Brandenburg Industrial	1217e	Cooper Environmental Svcs.
611e	BSI	820e	CiSCO
207e	Buhler Technologies, LLC	509e	Delavan Spray Technologies
510e	Burns & McDonnell	708e	DSG Solutions Inc.

511e	Durag, Inc.
1114e	Dustex Corporation
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507e	Great Ecology

419e	Great Lakes Solutions
1216e	Horiba Instruments, Inc.
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215e	Midwest Energy Emissions
817e	Millennium Instruments, Inc.
604e	Mississippi Lime Company
1001e	Mitsubishi Hitachi Power Sys.
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218e	Nexus Solutions, Inc.
716e	Nol-Tec Systems, Inc.
312e	North American Dismantling
203e	Novalynx Corp.
615e	Novinda
1009e	Ohio Lumex
405e	P S Analytical
317e	Parker Hannifin Corporation
1011e	PCME
308e	Perillon Software Inc.
710e	Pine
219e	Praxair
718e	Red Ball Technical Gas Svcs.
720e	Reliant CEM Services
216e	RMB Consulting & Research
1203e	SABIA, Inc.
816e	Sega, Inc.
305e	Shelter One
809e	SICK
606e	Siemens Industry, Inc.
516e	SNEI Biological
904e	SOLVAir Solutions / Solvay
715e	Southern Environmental, Inc.
908e	Southern Research Institute

418e	SPTC USA Corp.
920e	Sterne Kessler Goldstein & Fox
406e	STI CEMs
608e	Technical Heaters, Inc.
408e	Tekran
205e	Teledyne API
420e	Teledyne Monitor Labs
518e	Tellevate
620e	Tetra Tech, Inc.
211e	Thermo Bond Buildings, LLC
1020e	Thermo Scientific
515e	Tiger Optics, LLC.
1218e	Trace Environmental Systems
416e	Trachte, Inc.
1003e	TRC Environmental Corp.
411e	Trinity Consultants
316e	United Conveyor Corp.
506e	USLM
911e	Universal Analyzers, Inc.
1201e	US DOE, Office of Clean Coal
607e	VIM Technologies, Inc.
609e	Western Technology Lights
404e	xOvertime



4th Annual EUEC Golf Tournament



WHAT: 18 holes, shot-gun start. Lunch, drinks, and awards included.

WHEN: 8:00am, Sunday, February 15th, 2015.

WHERE: Rancho Bernardo Inn Golf Resort

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Sunday Feb 15, 2015
 5pm to 8pm

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Welcome Reception

Map & Hotels

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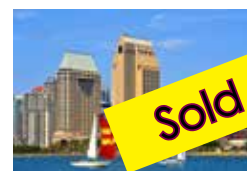


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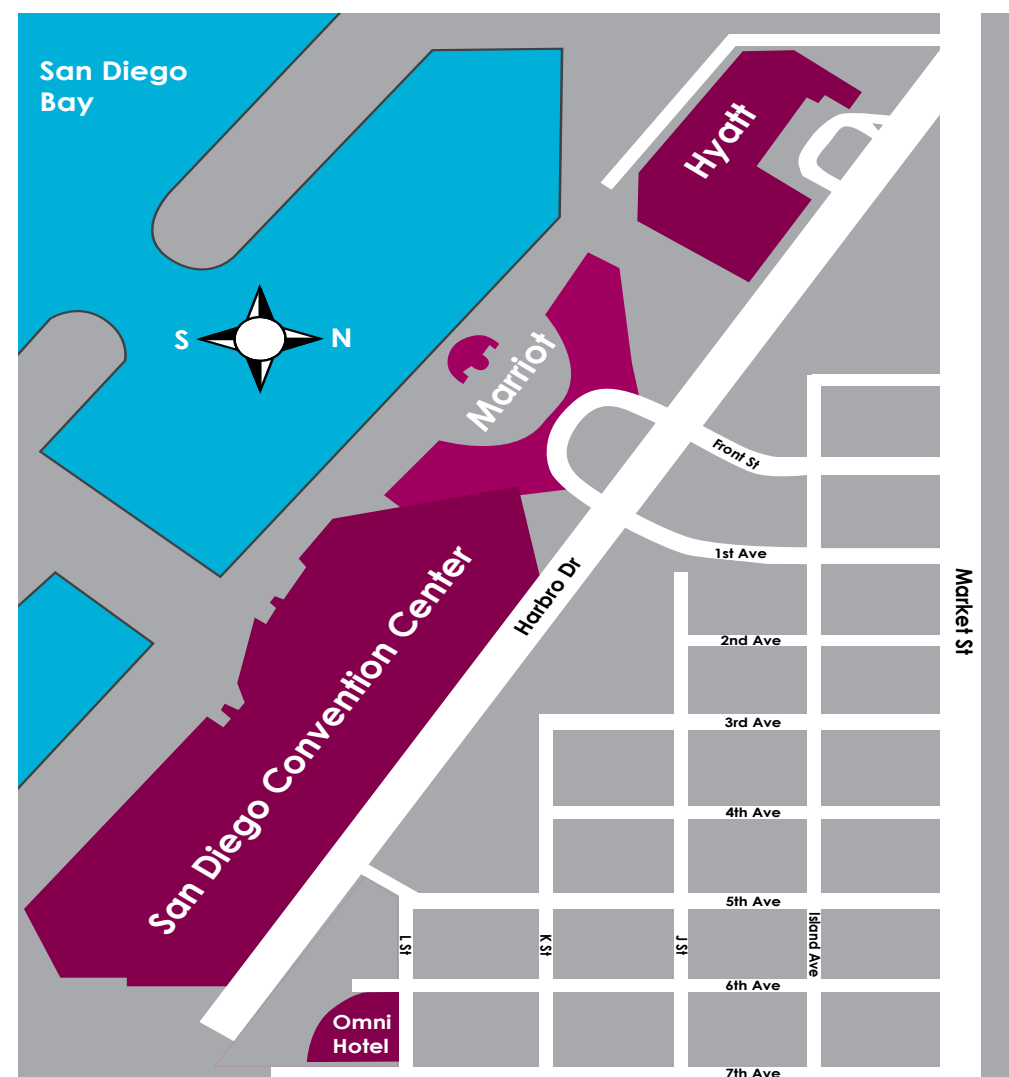


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<input type="checkbox"/> NGV	<input type="checkbox"/> Battery	<input type="checkbox"/> Advanced Tech
<input type="checkbox"/> Biofuels	<input type="checkbox"/> Hybrid Systems	<input type="checkbox"/> EUEC EXPO - Sails Pavilion
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The Show Guide is the official, up-to-date information on the EUEC event. One page color Advertisement distributed to 2,000 delegates, is continuously referenced multiple times a day by all attendees. You can have your logo included or do two facing page ads.

3. YOUR LOGO ON EVENT TICKET - \$3,000 +

As a Network event sponsor you will have your name and logo in each ticket used by conference attendees at the network event breaks in the exhibit hall.

4. LOGO ON FLASH DRIVE CONFERENCE PROCEEDINGS - \$5,000

This package allows maximum take-home exposure with your logo on the top of every credit-card type flash drive. A full electronic brochure advertisement of your company is included in the flash drive.

RESERVATION FORM

Name: _____

Company Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Email: _____ phone: _____

COMMENT: _____

Fax to EUEC : (602-296-0199) or email info@euec.com