

1,500 ATTENDEES

400 SPEAKERS

150 EXHIBITS

Preliminary Program Guide

**Revision Date:
 November 29, 2017**

10 TECHNICAL TRACKS

A. REGULATORY UPDATE
B. CEMS & AIR QUALITY
C. MERCURY CONTROL
D. POWER GEN & ENERGY SERVICES
E. SO₂, NO_X & SCR CONTROL

F. RENEWABLE ENERGY
G. O&M, DDD, EHS
H. GHG, ELG, CCR & CCS
I. WATER 316(B)
J. BATTERY & STORAGE

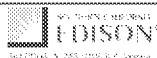
Keynote Panelists:



Administrator (invited)



Joseph Glavo III



Caroline Choi



Lance Pierce



Prabhud Dayal

What is EUEC?

EUEC 2018: The 21st Annual Energy, Utility & Environment Conference, is USA's largest professional networking & educational event of its kind, held March 5 to 7, 2018, at the San Diego Convention Center, San Diego, CA. This Program Agenda lists the papers received to-date for EUEC 2018.

CALL FOR PAPERS

- EUEC 2018 is now accepting abstracts, to speak and make a 20-minute PowerPoint presentation, in any of the 10 tracks.
- If you wish to serve on the Advisory Board, Chair or Sponsor a Session, please check the box, or comment in the Submit Abstract form.

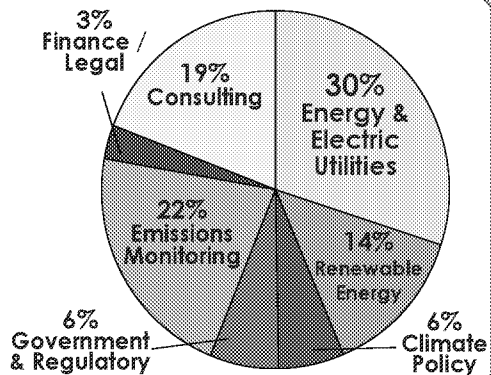
Submit abstracts on-line by December 15th at
<http://www.euec.com/submit-abstract/>

SPEAKER FORMAT

- All speakers limited to 20 minutes using PowerPoint
- Submit abstract online and select track and session of choice
- Each session is 2 hours long with 6 speakers and 2 co-chairs

Who Attended

Year	Delegates
EUEC2016	1,586
EUEC2015	1,736
EUEC2014	1,605
EUEC2013	1,705
EUEC2012	2,037
EUEC2011	1,830
EUEC2010	1,945



CHAIR/SPONSOR/ADVISORY BOARD

Chairs/Sponsors/Advisory Board are responsible for:

- overall design of program agenda & session topics,
- invite, select and place speakers and design session,
- review abstracts for duplication and QC,
- moderate the session, and ensure speakers are timely.

CONTACT: info@euec.com

MISSION STATEMENT

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

TRACK A ADVISORY BOARD



In the 21 year history of EUEC, this track is one of the most popular, with capacity attendance. Presentations are made by leaders and experts on current regulations that impact the electric utility industry. Updates on upcoming regulations, and discussions from regulatory and industry perspectives. Practical examples and case histories provide senior utility executives and decision makers options and strategies for compliance.

Monday | 1PM - 3 PM

A1. REGULATORY UPDATE - AIR



A1.1 ENERGY INDUSTRY REGULATIONS, 2017-2020 (INVITED)
Co-Chair - John Kinsman, Sr. Director - Environment, Edison Electric Institute



A1.2 RECONSIDERING EPA RECONSIDERATIONS
Session Sponsor & Co-Chair - Jay Holloway, Partner, Williams Mullen



A1.3 FURTHER TRIALS AND TRIBULATIONS OF THE GUIDELINE ON AIR QUALITY MODELS
Gale Hoffnagle, Sr. Vice President & Technical Director, TRC Environmental Corporation



A1.4 EPA'S REGULATORY AGENDA UNDER THE TRUMP ADMINISTRATION
David Jordan, Partner, ERM



A1.5 ZERO EMISSIONS CREDITS - ADDRESSING NUCLEAR GENERATION-AT-RISK THROUGH
Kenneth Dubin, Senior Electric Analyst, U.S. Energy Information Administration (EIA)



A1.6 THE CURIOUS CASE OF CAA CIVIL PENALTY INFLATION
Kurt Kissing, Attorney, Pepper Hamilton LLP

Monday | 3:30PM - 5:30PM

A2. ELECTRIC UTILITY CHALLENGES



A2.1 CLEAN AIR ACT INITIATIVES IN THE TRUMP ERA: WHAT TO EXPECT
Alexandra Bromer, Partner, Perkins Coie LLP



A2.2 ENERGY & AIR QUALITY REGULATION UNDER THE TRUMP ADMINISTRATION
Scott Osbourn, Principal, Trinity Consultants



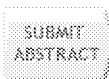
A2.3 AIR REGULATORY CHALLENGES FACING THE NATION'S ELECTRIC COOPERATIVES
Daniel Chartier, Regulatory Director, Environ. Policy, Nat'l Rural Electric Coop. Assoc.



A2.4 POLICY SHIFTS AND MARKET DIRECTIONS
Marc Chupka, Principal, The Brattle Group



A2.5 DEVELOPING A FRAMEWORK ON INTEGRATED ENERGY NETWORK PLANNING
Adam Diamant, Technical Executive, EPRI; Tom Wilson and Daniel Brooks



SPEAKING SLOTS AVAILABLE

TRACK | A | REGULATORY UPDATE

ROOM 1

Tuesday | 7:30AM - 9:30AM

A3. NAAQS, SSM & CAA

A3.1 2015 OZONE NAAQS AREA DESIGNATIONS – WHO'S AT RISK? (INVITED)
Mike Knechtel, Air Permitting Section Leader, Black & Veatch

A3.2 MODELING APPROACHES FOR STARTUP, SHUTDOWN AND MALFUNCTION EVENTS
Robert Paine, Associate Vice President, AECOM; Chris Warren

A3.3 PHOTOCHEMICAL MODELING W/ CAMX FOR OZONE INTER-PRECURSOR TRADING
Qi Zhang, Sr. Air Quality Engineer, Providence Eng. & Env. Group; James Red

A3.4 TAKING THE CAA INTO THE 21ST CENTURY AND BEYOND: A PROPOSAL
Bill Smalling, Attorney, The Law Office of C. William Smalling, PC

A3.5 OZONE AND PM2.5 - SIL'S, MERPS, AND MORE
Richard Hamel, Senior Air Quality Meteorologist, ERM



BLACK & VEATCH



Tuesday | 10AM - 12PM

A4. NSR

A4.1 NSR 2018 - UPDATE AND RECENT DEVELOPMENTS
Co-Chair - David Jordan, Partner, ERM

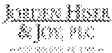
A4.2 THE UTILITY NEW SOURCE REVIEW ENFORCEMENT INITIATIVE—ONE LAST UPDATE?
Makram Jaber, Partner, Hunton & Williams LLP

A4.3 DECONSTRUCTING NSR ENFORCEMENT: MINIMIZING PLANT EXPOSURE
Eric Hiser, Partner, Jordan Hiser & Joy, PLC

A4.4 PSD PERMITTING UNDER THE 2017 GUIDELINE ON AIR QUALITY MODELS
J. Stephen Beene, Sr. Consultant, Trinity Consultants; N. Sule & C. Otto Chambers

A4.5 IS NSR REFORM POSSIBLE? SETTLEMENT TRENDS AND YOUR REAL NSR RISK
Liz Williamson, Attorney, Williams Mullen

A4.6 THE FUTURE OF NEW SOURCE REVIEW - OPTIONS AND PROSPECTS FOR REFORM
Joel Beauvais, Partner, Latham & Watkins



Tuesday | 1:00PM - 3:00PM

A5. UTILITY IMPACTS

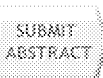
A5.1 TURNING THE BATTLESHIP: HOW THE TRUMP EPA IS CHARTING A NEW COURSE
Session Sponsor & Co-Chair - Mack McGuffey, Partner, Troutman Sanders LLP

A5.2 MERCURY & AIR TOXICS STANDARDS: REGULATORY & LITIGATION UPDATE (INVITED)
Angela Levin, Partner, Troutman Sanders LLP

A5.3 IS FEDERALISM ALIVE UNDER THE CLEAN AIR ACT (REDUX)? (INVITED)
William Wehrum, Partner, Hunton & Williams

A5.4 CORONADO GENERATING STATION REGIONAL HAZE BART ALTERNATIVE
Bill McClellan, Manager, Air Quality Services, Salt River Project

A5.5 BACK TO BASIC ON COMPLIANCE
Claudette Horn, Sr. Manager, Environmental Services, PNM Resources



SPEAKING SLOTS AVAILABLE

TRACK | A | REGULATORY UPDATE

ROOM 1

Tuesday | 3:30PM - 5:30PM

A6. PERMITS & COMPLIANCE

A6.1 (INVITED)

Nicholas Martin, Environmental Policy Manager, Xcel Energy; Lauren Quillian

A6.2 THE PIECEMEAL APPROACH TO THE CLIMATE REGULATION PUZZLE

Megan Berge, Partner, Baker Botts LLP

A6.3 STRATEGIC ANALYSIS OF GHG PROGRAMS: MITIGATION AND ADAPTATION

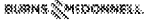
Jesse Frederick, Vice President, WZL, Inc.

A6.4 CHALLENGES WITH PERMITTING FOR INCREASED CAPACITY

Mary Haurer-Davis, Manager, Air/Noise Department, Burns & McDonnell Engineering

A6.5 CHALLENGES OF PERMITTING COMBINED CYCLE COMBUSTION TURBINES

J. Dwain Kincaid, Senior Consultant, Air Quality Services, LLC



Wednesday | 7:30AM - 9:30AM

A7. AIR PROGRAMS & PERMITTING

A7.1 OVERVIEW AND UPDATE OF INTERSTATE TRANSPORT ISSUES (INVITED)

Riaz Mohammed, Manager, EEI

A7.2 SCE SANTA BARBARA EM. GENERATOR PROJECT - PART 1: SITING & PERMITTING

Michelle Nuttall, Sr. Project Manager, Southern California Edison; Sara Head, Yorke Eng.

A7.3 SCE SANTA BARBARA EMERGENCY GENERATOR PROJECT - PART 2: PROPOSITION 65

Sara Head, Principal Scientist, Yorke Engineering; Michelle Nuttall, Southern Calif. Edison

A7.4 PERMITTING CHALLENGES FOR RICE GENERATION TO SUPPLEMENT RENEWABLE ENERGY SOURCES

Mary Kaplan, Air Quality Meteorologist, AECOM



SUBMIT
ABSTRACT

SPEAKING SLOTS AVAILABLE

Wednesday | 10AM - 12PM

A8. REGULATORY UPDATES

A8.1 NSR OFFSETS FOR NEW POWER PROJECTS IN SOUTH COAST; COST AND AVAILABILITY

Bhaskar Chandan, AQ Analysis and Comp. Supervisor, South Coast Air Quality Mgmt

A8.2 GAS TURBINE REGULATORY REGULATIONS AND ENFORCEMENT CASE STUDIES

Ben Sehgal, Senior Staff Engineer, California Air Resources Board



SUBMIT
ABSTRACT

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TRACK B ADVISORY BOARD



An excellent "must attend" training session for experts and operators at CEMs. This Track includes EPA policy and procedures for accurate monitoring, reporting, and auditing of emissions pursuant to Part 75 of the Acid Rain Program and the Clean Air Interstate Rule. Presentations on how to submit monitoring plans, QA/QC tests, and emissions data using the Emissions Collection and Monitoring Plan System (ECMPS).

Other expert presentations and programs include MATS, egrid, RATA, Appendix D & E, Electronic Monitoring data, QA/QC program for Cylinder gases, AQ and fence line monitoring, and modeling.

Monday | 1PM - 3 PM

B1. CEMS & PEMS

B1.1 TBA

Gary Cacciatore, Business Development Manager, Cemtek Environmental

B1.2 PEMS DEPLOYMENT IN SAUDI ARABIA

Brian Swanson, President, CMC Solutions; Jessica Palmer

B1.3 LASER DISPERSION SPECTROSCOPY FOR REMOTE SENSING

Mohammed Belal, Business Development Director, MIRICO; Damien Weidmann, Arun Kannath, Johnny Chu

B1.4 PEMS SYSTEM EVOLUTION TO MEET CHANGING POWER PLANT CONDITIONS

Brian Swanson, President, CMC Solutions

B1.5 TBA

John Kelley, Vice President of Business Development, AMP-Cherokee

B1.6 LASER DISPERSION SPECTROSCOPY AND CEM APPLICATIONS

Graham Leggett, Vice President, Product Management, MIRICO Ltd.

Monday | 3:30PM - 5:30PM

B2. CEMS & TESTING

B2.1 SUCCESSFUL TESTING MANAGEMENT FOR CEMS RATA, PERMIT LIMITS, MACT COMPLIANCE, AND EQUIPMENT CONTRACTS

Brian Petermann, POWER Engineers, Inc.

B2.2 MEETING DEMAND WHILE COMPLYING WITH STARTUP AND SHUTDOWN EMISSIONS

Brian Fowler, Director of Implementation & Marketing, Environmental Systems Corp (ESC)

B2.3 NH3 SLIP BY EXTRACTIVE METHODS

Matt Swanson, Vice President, Sales, CAI, Inc.

B2.4 STRATIFICATION TESTING - WHEN IS IT REQUIRED?

Dan Todd, President, Air Quality Services, LLC; Paul Siegel and Chris Wehner

B2.5 NEXT-GEN CRDS ANALYZERS FOR MONITORING AMMONIA SLIP IN SCR PROCESSES

Jeremiah Riddle, President, Tiger Optics

SUBMIT
ABSTRACT

SPEAKING SLOTS AVAILABLE

B3. DUST EMISSIONS & PM

B3.2 MONITORING LOW LEVEL DUST EMISSIONS & DETECTION OF ABATEMENT FAILURE
 Dave Gager, Regional Manager, Altech Environment USA

B3.3 DUST EMISSION AND EFFECT OF PM10 & PM2.5 IN URBAN INFRASTRUCTURE
 Afrim Sylja, Air Quality Specialist, University of Prishtina - Kosovo



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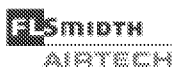
SPEAKING SLOTS AVAILABLE**B4. PM, CEMS, ESP**

B4.1 COROMAX FOR POWER PLANTS
 Mads Kirk Larsen, Global Sales Manager, FLSmidth Airtech

B4.2 THE EFFECT OF 3-PHASE POWER SUPPLY AND SMART CONTROLLER ON ESP
 Reza Sharafy, Product Manager, KraftPowercon Sweden AB

B4.3 MORE CASE STUDIES OF THREE PHASE POWER SUPPLIES IMPROVING ESP PERFORMA
 John Knapik, ESP Solutions Consultant, Babcock and Wilcox

B4.4 TBD
 Mark de Garbolewski, Market Specialist, W.L. Gore and Associates



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SPEAKING SLOTS AVAILABLE**B5. AIR QUALITY MODELING**

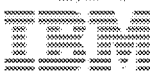
B5.1 CHARACTERIZING PARTICULATE EMISSIONS FROM EVAPORATION POND MISTERS
 Mannie Carpenter, Sr. Engineer, Stantec Consulting Svcs; Amber Summer, Kathy Houed

B5.2 BACKGROUND VS. NEARBY SOURCES - TESTING EPA'S NEW GUIDANCE
 Co-Chair - George Schewe, Principal Meteorologist, Trinity Consultants; Brian Otten

B5.3 NOX TO NO2 CONVERSION METHODS IN CALPUFF DISPERSION MODE
 Tina Liu, Atmospheric Specialist, Advisian

B5.4 AIR QUALITY FORECASTING AND MGMT USING MACHINE LEARNING AND IOT
 Neil Gerber, Director, New Energy & Environment, IBM

B5.5 SOLUTIONS TO NEW U.S. EPA MODELING REGULATIONS
 Christopher Occhipinti, Project Professional, NTH Consultants, Ltd.



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ABSTRACT

SPEAKING SLOTS AVAILABLE

B6. MEASUREMENT TECHNOLOGIES



B6.1 IMPROVED MEASUREMENT OF LOW PARTICULATE EMISSIONS FROM GAS TURBINES
Kevin Crosby, V.P., Technical, Montrose Air Quality Svcs; Glenn England, Ramboll-Environ



B6.2 SOLVING COMPLIANCE ISSUES USING FTIR MULTIGAS MEASUREMENT TECHNOLOGY
Jim Cornish, Sales and Support Manager, Gasmeter Technologies

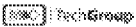


B6.3 UNDER-REPORTING OF NOX BY AS MUCH AS 80%. WITH REGULATORY APPROVAL
Robert Mallowney, President, MonitorTech Group



B6.4 CONTINUOUS EMISSION MONITORING SYSTEM(CEMS) PROGRAM BEST PRACTICES
Eric Wiley, Managing Consultant, Trinity Consultants

B7. ADVANCED TECHNOLOGIES



B7.1 M&C ANNOUNCES NEW LASER MEASUREMENT TECHNOLOGY
Bernadette Shahin, National Applications Manager, M&C TechGroup North America



B7.2 AGING TR SETS ON ELECTROSTATIC PRECIPITATORS - THE HIDDEN LIABILITY
Paul Leanza, Business Development Manager, KraftPowercon



B7.3 TBA
Bruce Herman, ABB Process Analytics

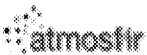


B7.4 DSI SAVINGS THROUGH REAL TIME SO3/H2SOV MEASUREMENT
Dan Kietzer, National Product Manager, SICK, Inc.

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ABSTRACT

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B8. FENCELINE MONITORING & AQ



B8.1 THE D-FENCELINE MEASUREMENT SYSTEM - ADVANCED REMOTE SENSING SOLUTION
Gilad Shpitzer, CEO, Co-Founder, Atmosfir Optics; Dr. Robert Kagann, Dr. Yael Etzioni



B8.2 OPTICAL REMOTE SENSING FOR FENCE-LINE MONITORING USING QCL
Peter Zemek, SVP - Emerging Tech., Montrose Env. Grp; Daniel Cavicchio, Jr., Block Eng.



B8.3 COMMUNITY-BASED AIR TOXICS FENCELINE MONITORING AND INITIATIVES
Steve Walters, Principal Consultant, Trinity Consultants

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ABSTRACT

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ADVISORY BOARD



& ALREMARBLE



DTE Energy



This Track provides current presentations on Advanced Mercury Control technologies and strategies, for compliance with MATS emission limits including Hg, DSI, MATS, ACI, & Amended Silicates.

Monday | 1PM - 3 PM

C1. HG MATS COMPLIANCE



C1.1 LOWERING MERCURY COMPLIANCE COSTS THROUGH OPTIMIZATION

Richard MacPherson, President/CEO, ME2C; John Pavlish, Nicholas Lentz, Marcus Sylvester, James Trettell



C1.2 COST SAVINGS ASSOCIATED W/ MATS COMPLIANCE OPERATING AS LOW EMITTING

Brandon Kibler, Project Manager, Novinda Holdings, Inc.; Jeremy Hayes, Black Hills Energy; Clifton Brown and James Butz, Novinda Holdings, Inc.



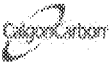
C1.3 A SORBENT INJECTION TECHNOLOGY UPDATE

Mitch Lund, Product Manager - Air Pollution Control, Nol-Tec Systems



C1.4 HOW THE RIGHT OPTIMIZATION TEAM CAN IMPROVE YOUR MATS COMPLIANCE

Regina Rodriguez, Chief Operating Officer, Carbonxt; Christine Valcarce, Lindsey Costin, David Mazyck



C1.5 OPTIMIZING ACI COST-PERFORMANCE WITH ADVANCED PAC PRODUCTS

Martin O'Brien, Applications Engineer, Calgon Carbon; Richard Mimna, Jenalle Brewer and Michael Pealer



C1.6 EFFECTIVENESS OF MERCURY CONTROL STRATEGIES: A SURVEY OF MATS IMPLEMENTATION

Connie Senior, VP of Technology, ADA-ES, Inc.; Sharon Sjoström

Monday | 3:30PM - 5:30PM

C2. ACTIVATED CARBON



C2.1 KINETIC CHEMISTRY MODEL FOR MERCURY REMOVAL BY ACI

Guisu Liu, Founder, Reaction Analytics Solutions Corp.



C2.2 HG BEHAVIOR IN HYBRID FILTER WITH INJECTION AND COATING OF AC IN CPP

Jin-Ho Sung, Researcher, Yonsei University; Yong-Chil SEO, Se-Won Park, Ha-Na Jang & Seung-Ki Back



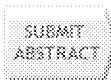
C2.3 FUTURE OF THE ACTIVATED CARBON INDUSTRY

David Mazyck, Chief Executive Officer, Carbonxt



C2.4 TBD (INVITED)

Michael Pealer, Calgon Carbon



SPEAKING SLOTS AVAILABLE

TRACK | C | MERCURY CONTROL

ROOM 3

Tuesday | 7:30AM - 9:30AM

C3. HG CONTROL TECHNOLOGIES



C3.1 AS-ULTRA PERFORMANCE IN THE MOST CHALLENGING CONFIGURATIONS
Thomas Gale, Director of Technology Development, Novinda Holdings, Inc.



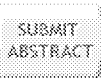
C3.2 CIRCULATING DRY SCRUBBER MERCURY CONTROL PRB COAL-FIRED POWER PLANTS
Terence Ake, Principal Engineer, Babcock Power, Inc.; Roderick Beittel



C3.3 INNOVATIVE SORBENT TRAP MEASUREMENT TECHNIQUES: HG, SO₃, NH₃, HCL, SE
Alexandra Sipershteyn, Product Manager, Ohio Lumex



C3.4 TBD (INVITED)
Calgon Carbon



SPEAKING SLOTS AVAILABLE

Tuesday | 10AM - 12PM

C4. DSI & ACI



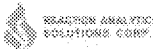
C4.1 EXPERIENCE WITH RETROFITTING HYDRATED LIME INJECTION SYSTEMS
Jon Norman, Manager - Sales and Technology, United Conveyor Corporation



C4.2 LANCE-LESS DSI TECH ALLOWS CONT. OPERATION OF EXISTING ESPS
Bob Mastropietro, Technical Sales Engineer, Nol-Tec Systems



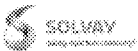
C4.3 EFFECTIVE AND SIMPLE MERCURY CONTROL IN PLANTS CONFIGURED WITH WET FGD
Thomas Gale, Director of Technology Development, Novinda Holdings, Inc.



C4.4 USE CHEMISTRY-BASED CFD TO INVESTIGATE DSI OPTIMIZATION OPTIONS
Guisu Lu, Founder, Reaction Analytics Solutions Corp



C4.5 STRATEGIC USE OF TEMPORARY INJECTION SYSTEMS (PAC AND DSI)
Mike Gregory, Business Development - Capital Equipment, IAC



C4.6 SODIUM SORBENTS FOR HIGHER EFFICIENCY
Sponsor & Co-Chair - Michael Atwell, Manager, Solvay Chemicals; Cornelia Cretiu

Tuesday | 1:00PM - 3:00PM

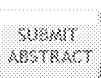
C5. HG CONTROL & OPTIMIZATION



C5.2 DEMONSTRATION-HIGH DSI COMPATIBILITY - COMMERCIALY AVAIL.ACII (INVITED)
John Satterfield, Sr. Field Service Engineer, Cabot Norit Activated Carbon



C5.3 SUSTAINABLE PROCESS FOR POLYPROPYLENE PRODUCTION: A CFD STUDY
Naser Jamshidi, Crisis Management & Passive Defense Manager, National Petrochemical Co.; Reza Marandi



SPEAKING SLOTS AVAILABLE

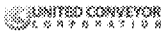
C6. YOUNG POWER PROFESSIONAL (2017)



C6.1 GROWING YOUR CAREER: ADVICE FOR THE YOUNG POWER PROFESSIONAL
Co-Chair - Priscilla Kissinger, Special Projects Manager, Carbonxt



C6.2 INTEGRATING YOUNG PROFESSIONALS & NEW EMPLOYEES: A UTILITY'S PERSPECTIVE
Tom Durham, Manager of Environmental Field Services, DTE Energy



C6.3 YOUNG PROFESSIONAL PROGRAMS IN ACTION
Conner Cox, Strategic Project Mnager, United Conveyor Corporation



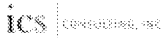
C6.4 A UTILITY SUCCESSFULLY ENSURES NEW HIRES & YOUNG PROFESSIONALS THRIVE
Philip Imber, Manager Air Section, Environmental Affairs, LG&E



C6.5 COMPANY INTERNSHIPS CREATE SUCCESSFUL NEW HIRES
Jessica Keller, Environmental Analyst, Xcel Energy



C6.6 MENTORSHIP & PROFESSIONAL GROWTH: HELPING EMPLOYEES STEADILY PROGRESS
Todd Svoboda, Environmental Compliance, East Kentucky Power Cooperative



C6.7 LEVERAGING INDUSTRY RELATIONSHIPS TO INCREASE CUSTOMER SUCCESS
Ann Arney, Utility Services, ICS Consulting; Michael Piper

ADVISORY BOARD FOR TRACK D



This Track includes Mitsubishi Power sponsored exhibits & presentations on Advanced Gas Turbine technologies and emission controls for:

- Power plant conversions from coal to natural gas,
- GT Technologies adapting to CNG, LNG and fracturing industry,
- GT Adaptations and strategies for west coast utilities, (CA, AZ, NV, etc)
- Gas Turbines Technologies for Renewable Energy Industry
- Transmission & Distribution; Demand and Rates
- Energy Policy, Security, & Rates

Monday | 1PM - 3 PM

D1. ADVANCED GAS TURBINE TECHNOLOGIES

D1.1 NEW ULTRA-LOW NOX BURNER CAN SAVE MILLIONS ON O&M & CAPITAL COSTS (INVITED)

Joe Brown, AMS Product Manager, Mitsubishi Hitachi Power Systems America

D1.2 GAS TURBINES & INDUSTRIAL SCR SYSTEMS (INVITED)

Co-Chair - Robert McGinty, Sr. Product Manager, Mitsubishi Hitachi Power Systems

D1.3 ELECTRICAL ENERGY MGMT IN HOUSEHOLD REFERIGERATORS AND FREEZERS

Seyed Mojtaba Sadrameli, Professor, Tarbiat Modares Univ., L. Abdolmaleki, A. Pirvaram

D1.4 7 TRAITS OF HIGHLY EFFECTIVE ENERGY EFFICIENCY PROJECTS

Ricson Chude, Project Manager, Southern California Edison



SPEAKING SLOTS AVAILABLE

Monday | 3:30PM - 5:30PM

D2. POWER PLANT CONVERSION TECHNOLOGIES

D2.1 THE CARBON CHALLENGE FOR THE POWER INDUSTRY

Bruce Rising, Executive Advisor, ADI Analytics, LLC

D2.2 THE IMPORTANCE OF POWER PLANT PERFORMANCE TESTS

William Stark, Vice President, Environmental Services, Leidos; Michael Giampetro

D2.3 IOT WILL NOT DELIVER ITS POTENTIAL - UNLESS IT SOLVES THIS CHALLENGE

Harry Sim, CEO, Cypress Envirosystems

D2.4 COAL TO GAS CONVERSION ADVANTAGES: CASE STUDY

Joe Brown, Head of Aftermarket Sales, MHPS



SPEAKING SLOTS AVAILABLE

TRACK | D | POWER GEN & ENERGY SERVICES ROOM 4

Tuesday | 7:30AM - 9:30AM

D3. ENERGY AND CYBER SECURITY

D3.1 WHAT THE WORLD MUST KNOW URGENTLY ABOUT NUCLEAR SECURITY
Phrantceena Thate-Halres, CEO, Total Protections USA LLC

D3.2 SAFETY IN THE ELECTRICITY AND PETROLEUM INDUSTRIES
Fred Mayes, Senior Energy Analyst, U.S. Energy Information Administration

SUBMIT
ABSTRACT

SPEAKING SLOTS AVAILABLE

Tuesday | 10AM - 12PM

D4. DISTRIBUTED GENERATION, T&D

SIEMENS **D4.1 GAS FUEL FLEXIBILITY FOR GAS TURBINE DISTRIBUTED POWER GENERATION**
Michael Welch, Industry Marketing Manager, Siemens Industrial Turbomachinery Ltd.

THE LEIGHTY FOUNDATION **D4.2 FUTURE "ENERGY" UTILITY: DEEP DECARBONIZATION OF ENTIRE ENERGY ECONOMY**
Bill Leighty, Founder, The Leighty Foundation

GA&P **D4.3 WIRELESS POWER TRANSFER SMALL-SCALE PROTOTYPE**
Adel El-Shahat, Assistant Professor, Georgia Southern University; Dylan Nelms

algorithmic **D4.4 PREDICTING AND DETECTING GAS TURBINE MALFUNCTIONS**
Patrick Bangert, CEO, Algorithmic Technologies, Inc.

GEOSPATIAL TECHNOLOGIES GROUP **D4.5 INNOVATIVE AND INSPIRING GIS TECHNOLOGY FOR PUBLIC WORKS**
Matthew McLamb, Chief Technology Officer, Geographic Technologies Group, Inc.

SUBMIT
ABSTRACT

SPEAKING SLOTS AVAILABLE

Tuesday | 1:00PM - 3:00PM

D5. ENERGY POLICY, DEMAND AND RATES

D5.1 A TALE OF TWO ISSUES
Stephen Slocomb, Principal, Epsilon Associates

USNRC **D5.2 ENERGY ECONOMICS AND A SUSTAINABLE ELECTRICITY POLICY**
Daniel Mussatti, Senior Energy Economist, US NRC

EDF **D5.3 LATEST DEVELOPMENTS IN GRID MODERNIZATION**
Co-Chair - John Finnigan, Lead Counsel, Environmental Defense Fund

TRC **D5.4 ONE GOAL, MANY PATHS TO RESILIENCY**
Carmen Henriksen, Associate Vice President, TRC Energy Services

BURNS & MCDONNELL **D5.5 CURRENT TRENDS AND DEVELOPMENTS FOR ELECTRIC UTILITY RATES**
Ted Kelly, Principal & Senior Project Manager, Burns & McDonnell

Tuesday | 3:30PM - 5:30PM

D6. BUILDING TECHNOLOGIES

D6.1 INNOVATION IN ENERGY EFFICIENCY PROGRAM DESIGN

Ian Metzger, Program Development Engineer, Lockheed Martin Energy

D6.2 LOWER GLOBAL WARMING POTENTIAL WITH CO2 HEAT PUMP WATER HEATERS

Cheryn Metzger, Senior Research Engineer, Pacific Northwest National Laboratory

D6.3 ON THE ROAD TO ZNE - CITIES REACHING AHEAD

Farhad Farahmand, Project Manager, TRC Energy Services

D6.4 INCENTIVISING HIGH-PERFORMANCE BUILDING-FINANCING

Teresa Lopez, CEO, Green Energy Money, Inc.

D6.5 SMARTPNEUMATICS - MAKING DUMB BUILDINGS SMART

Harry Sim, CEO, Cypress Envirosystems

D6.6 IMPROVING ENERGY STORAGE PERFORMANCE OF CONCRETE CONTAINING FORMS

Seyed Mojtaba Sadrameli, Professor, Tarbiat Modares University; S. Hasanabadi

Wednesday | 7:30AM - 9:30AM

D7. CHP

D7.1 COMBINED HEAT AND POWER SOLUTIONS FOR DISTRICT HEATING APPLICATIONS

Dalia El Tawy, Director-Thermal Power Solutions, Siemens

D7.2 ENERGY & AIR POLLUTION REDUCTION FROM COGENERATION AT JOHNS HOPKINS

John Kumm, Senior Engineer, EA Engineering, Science and Technology

D7.3 KILLING TWO BIRDS WITH ONE STONE: 'SMART' COUPLING ENERGY-EFFICIENT CH

Anthony Cirillo, Senior Project Director, AECOM - Power Division

D7.4 MEDIUM VOLTAGE AUXILIARY BOILERS AND FUEL GAS DEWPOINT HEATING SYSTEMS

David Taylor, Director of Technical Sales, Chromalox

D7.5 POWER/WATER SOLUTIONS: USING THERMAL ENERGY FROM CHP PLANTS TO

Ben Laurent, Senior Process Engineer, Heartland Water Technology, Inc

Wednesday | 10AM - 12PM

D8. NATURAL GAS & GRID TECHNOLOGY

D8.1 HYBRID SOLUTIONS PROVIDING GRID STABILITY AND RENEWABLE INTEGRATION

Dalia El Tawy, Director-Thermal Power Solutions, Siemens

D8.2 WATER-FREE COMBINED CYCLE DISTRIBUTED POWER GENERATION

Michael Welch, Industry Marketing Manager, Siemens Industrial Turbomachinery, Ltd.

D8.3 NATURAL GAS ASSETS TO SUPPORT THE EVOLVING ELECTRIC GRID

Hua Fang, Director, Black & Veatch Management Consulting, LLC

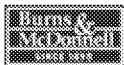
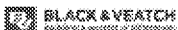
D8.4 SMART CIT-HY WINDBUS AUXERRE FRANCE

Emmanuel Schuddinck, CEO, Justy Energies Engineering

SUBMIT
ABSTRACT

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ADVISORY BOARD TRACK E



This Track provides current presentations on Advanced technologies and strategies, for compliance with SO₂, NO_x, CO₂ emission limits at coal-fired boilers. Includes SCR, DSI, and measurement and control in the cement and ash industry.

TRACK SPONSOR & CO-CHAIRS: (SUBMIT TO INFO@EUEC.COM)

Monday | 1PM - 3PM

E1. CONTROL TECHNOLOGIES



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



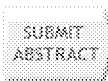
E1.2 EVALUATION AND APPLICATION OF AN AIR QUALITY MODELING SYSTEM TO ANALYZ
 Roberto San Jose, Head Professor, Technical University of Madrid (UPM); Juan L. Pérez, and Rosa Maria Gonzalez Barras



E1.3 ACID GAS REMOVAL CHARACTERISTICS OF CA(OH)₂ IN A REAL SITE
 Han Jae-Won, Han-Yang University; Young-Ok Park, Korea Institute of Energy Research; Hui-Taek Kim, Han-Yang University



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



SPEAKING SLOTS AVAILABLE

Monday | 3:30PM - 5:30PM

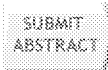
E2. DSI, SORBENTS, SCR & NO_x CONTROL



E2.1 EXPLORING OXIDATION AND SCR CATALYST ON GAS FIRED UNITS
 Emily Kunkel, Senior Environmental Associates, Sargent & Lundy

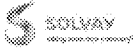


E2.2 MINIMIZING NO_x AND HEAT RATE IN CHINESE COAL FIRED UTILITY BOILERS
 Richard Conn, Sr. Director of Technology, Sunco International; Jeff Shan, Sunco International; May Chen, Blue Horizon



SPEAKING SLOTS AVAILABLE

E3. SO₂, NO_x & SNCR



E3.1 SODIUM SORBENTS FOR HIGHER EFFICIENCY

Sponsor & Co-Chair - Michael Atwell, Manager, Solvay Chemicals; Cornelia Cretiu



E3.2 HIGH ACCURACY IN-SITU SO₃, SO₂ & H₂SO₄ SENSOR FOR COMBUSTION SOURCES

Bob Finken, Senior Vice President, Montrose Air Quality Services; Dr. Peter Zemek



SPEAKING SLOTS AVAILABLE

E4. SCR & NO_x CONTROL



E4.1 SOFT SENSORS FOR SO_x AND NO_x EMISSIONS

Patrick Bangert, CEO, algorithmica technologies Inc.



E4.2 PRE AND POST COMBUSTION NO_x CONTROL SYSTEM USING MICROWAVE TECH.

Valentino Tiangco, Biomass Program Manager, SMUD



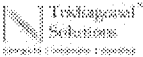
E4.3 FAST RAMP HOT SCR'S & UPGRADES TO COMPLY WITH FUTURE NO_x BARCT RULES

Robert McGinty, Sr. Product Mgr Gas Turbine & Ind. SCR Sys, Mitsubishi Hitachi Power Sys



E4.4 COMBINED CYCLE PLANT NO_x REDUCTIONS

Jeff Williams, Manager, Emerson; J. Nyenhuis



E4.5 CFD MODELING FOR EVALUATING CONVERSION OF COAL TO GAS FIRED BOILER

Praveen Gonuguntla, Senior CFD Engineer, Tridiagonal Solutions, Inc; Abhay Panwalkar, Bharat Heavy Electricals Limited



E4.6 SELECTABLE CONTROL SYSTEM FOR SCR MANAGEMENT

Bernadette Shahin, National Applications Manager, M&C TechGroup

E5. COAL ASH & CEMENT



E5.1 SELECTABLE CONTROL SYSTEM FOR SCR MANAGEMENT

Rabindra Sinha, VP - Sales, Marketing & Technology, ARKAY Technologies



LafargeHolcim

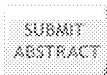
E5.2 CEMENT STABILIZATION OF CONTAMINATED SOIL AND CCR

Paul Ruehl, US Environmental Remediation Coordinator, Lafarge Holcim



E5.3 CONCRETE AND CEMENT SPEC. COAL FLY ASH FROM A WASTE FLY ASH

Christopher Poling, Engineering Director, SCB International Materials



SPEAKING SLOTS AVAILABLE



E6. COMPLIANCE TECHNOLOGIES & STRATEGIES

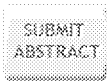
E6.1 MERCURY AND PYRITIC SULFUR REDUCTION IN CLEANED ILLINOIS BASIN COALS

Allan Kolker, Research Geologist, U.S. Geological Survey, Lilliana Lefficariu, Southern Illinois University; Maria Mastalerz, Indiana Geological Survey; Agnieszka Drobnik, Indiana Geological Survey, Clint Scott, U.S. Geological Survey; Anne Scott, U.S. Geological Survey



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

David Shotts, Partner, ERM



SPEAKING SLOTS AVAILABLE

ADVISORY BOARD TRACK F



This Track provides current presentations on Renewable Energy technologies and strategies, including, solar, PV, wind, Nuclear, waste-to-energy, biogas, biomass, biodiesel, financing, and development case studies for peak shaving and FIT programs.

TRACK SPONSORS & CO-CHAIRS: (SUBMIT TO INFO@EUEC.COM)

Monday | 1PM - 3PM

F1. BIOGAS, BIOMASS, BIODIESEL

F1.1 ANAEROBIC MBBR PROCESS FOR HIGH-STRENGTH WASTEWATERS
Siva Angappan, Headworks Bio, Inc.; Dr. Somnath Basu

F1.2 TORREFIED BIOMASS SUCCESS AT THE PGE BOARDMAN PLANT
Una Nowling, Service Area Leader, Black & Veatch; Randy Curtis, Portland General Electric Boardman Power Plant

F1.3 INDUSTRIAL SYMBIOSIS THROUGH EFFECTIVE PUBLIC-PRIVATE PARTNERSHIPS
Barry Edwards, Director of Utilities & Engineering, Catawba County

F1.4 DIRECTED BIOGAS SUCCESS AT THE UC SAN DIEGO MICROGRID FUEL CELL
Clark Crawford, Director, Business Development, FuelCell Energy; Robert Nielsen

F1.5 POWER PRODUCTION FOR FUTURE SOLID WASTE RESOURCE RECOVERY FACILITY
Matt Dunn, Principal Engineer, AECOM

F1.6 COMPUTATIONAL FLUID DYNAMICS SIMULATIONS OF ALGAE PHOTOBIOREACTORS
Andres Philip Mayol, USAID STRIDE Visiting Scholar, The University of Arizona; Aristotle T. Ubando, Alvin B. Culaba and Joel L. Cuello

Monday | 3:30PM - 5:30PM

F2. WASTE TO ENERGY & WASTE MANAGEMENT

F2.1 PLASMA GASIFICATION; THE NEXT GENERATION OF WASTE-TO-ENERGY SERVICES
Richard Fish, President, ALTER NRG CORP.

F2.2 FASTOX GASIFICATION: PROFITABLY ACIEVE 100% RECYCLING
Mike G. Hart, Chief Executive Officer, Sierra Energy

F2.3 EMISSIONS ADN WASTE-TO-ENERGY SYSTEMS
Tina Liu, Atmospherics Specialist, Advisian

F2.4 ELECTRICITY PRODUCTION FROM SRP USING A DOWNDRAFT GASIFICATION PROCESS
Se-Won Park, Researcher, Yonsei University; Lee, Sung, Seo, Yonsei University; Oh, Samho environ-Tech; Gu, Institute for Advanced Engineering

F2.5 RECLAIMING CONTAMINATED LAND: DEPLOYING SOLAR ON BROWNFIELDS
Cynthia Christensen, Commercial/Utility Sales Director, Namaste Solar

F2.6 WASTED ENERGY FROM COMPRESSED AIR LEAKS: WHAT ONE PILOT PROJECT FOUND
Dan Nickey, Interim Director, Iowa Waste Reduction Center, University of Northern Iowa

F2.7 ENERGY FROM MUNICIPAL SOLID WASTE WITH MINIMAL CARBON EMISSION
Surendra Saxena, Professor Emeritus, FIU; Siva Pillai, Innovision

F3. RENEWABLE ENERGY & MICROGRID



F3.1 MICROGRIDS AN EFFECTIVE INFRASTRUCTURE ALTERNATIVE

Gregg Edeson, Partner, PA Consulting Group; Jared Smith and Walter Rojowsky



F3.2 INTEGRATION OF A MICROGRID CONTROLLER & FAULT PROTECTION WITHIN AMEREN

Christopher Evanich, Applications Director of Microgrids, S&C Electric



F3.3 PLANNING FOR THE FUTURE: NATIONAL'S FIRST CYBER-SECURE UTILITY MICROGRID

Christopher Evanich, Applications Director of Microgrids, S&C Electric



F3.4 STANFORD'S ENERGY SYSTEM LEADING BY EXAMPLE IN EMISSIONS REDUCTION

Fahmida Ahmed, Director, Sustainability and Business Services, Stanford University

F3.5 NATURAL DISASTERS: A CALL TO ACCELERATE RESILIENCE

Edward Rightor

F4. RENEWABLE PROJECTS & DEVELOPMENT



F4.1 REDEVELOPMENT OF ELECTRIC UTILITY SITES - INTEGRATING RENEWABLE ENERGY

Steven Putrich, Principal Engineer, Haley & Aldrich



F4.2 BIGGER MARKET THAN GRID: RE-SOURCE HYDROGEN TRANSPORTATION FUEL

Bill Leighty, Director, The Leighty Foundation



F4.3 EVALUATION OF THE ENVIRONMENTAL IMPACT OF THE THERMAL SPACES

Nasser Alhemiddi, Professor, King Saud Univ.; Abdulrahman Alhemiddi, Abdulaziz Alhemiddi



F4.4 BIRD IN THE HAND: SHOTGUNS, DEADLY OIL PITS, CUTE KITTENS & THE MBTA

Samuel Panarella, Associate Professor of Law, University of Montana School of Law



F4.5 RENEWABLE ENERGY PROD. AS MEANS FOR LOCAL ECONOMIC DEVELOPMENT

Thobeka Radebe, Researcher, Human Science Research Council

F5. WIND ENERGY



F5.1 CONVERTING WINDPLANTS TO DEDICATED, OFF-GRID HYDROGEN FUEL PRODUCT

Bill Leighty, Director, The Leighty Foundation



F5.2 CONTROL OF A SELF-EXCITED INDUCTION GENERATOR IN A WIND TURBINE SYSTEM

Woonki Na, Assistant Professor, California State University, Fresno; Edurad Muljadi



F5.3 OFFSHORE WIND ENERGY VS CONVENTIONAL IMPLEMENTATIONS

Adel El-Shahat, Assistant Professor, Georgia Southern University; DeAnndra Dixon



F5.4 WIND ENERGY MARKET TRENDS AND CHALLENGES

Nathan Higgerson, Power Generation Project Manager, Hanson Professional Services, Inc.



SPEAKING SLOTS AVAILABLE

F6. SOLAR & PV



F6.1 SIMULATING SOLAR PHOTOVOLTAIC TECHNOLOGY DIFFUSION AND GRID STABILITY
Jacob Monroe, PhD Student, North Carolina State University; Emily Berglund



F6.2 DEMAND CHARGE SAVINGS FROM SOLAR AND ASSOCIATED UTILITY COST SAVINGS
Naim Darghouth, Sr. Scientific/Engineering Assoc., Lawrence Berkeley Nat'l Lab.; Galen Barbose, Andrew Mills, and Ryan Wiser; Pleter Gagnon and Lori Bird, NREL



F6.3 IMPACT OF DEGRADATION RATES ON SOLAR PV PROJECT FINANCIALS
Matthias Gewalt, Manager of Solar Practice, Leidos Engineering



F6.4 A RESOURCE EVALUATION MODEL FOR A SOLAR VORTEX POWER GENERATION SYSTEM
Amy Moore, Post Doctoral Research Assistant, Oak Ridge National Laboratory



SPEAKING SLOTS AVAILABLE

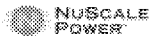
F7. HYDRO, GEOTHERMAL, & NUCLEAR



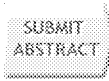
F7.1 WHAT 1,000 GEOTHERMAL HEAT PUMPS WILL DO TO YOUR UTILITY
Will Lange, Director of Sales and utility Marketing, WaterFurnace Renewable Energy



F7.2 A MICRO-SCALE HYDRO POWER SYSTEM FOR THE PHILIPPINE INDIGENOUS PEOPLES
Randell Espina, Dean, Ateneo de Davao Univ; Renyl Barroca, Angelito Saluague, Leah Aportadera, Lourdesita Chan



F7.3 BEYOND BASELOAD: NUSCALE DIVERSE ENERGY PLATFORM
Lenka Kollar, Director, Strategy & External Relations, NuScale Power; Chris Colbert



SPEAKING SLOTS AVAILABLE

F8. RENEWABLE ENERGY



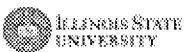
F8.1 SAN DIEGO STATE UNIVERSITY DEMONSTRATION & PROOF-OF-CONCEPT CENTER
John McMillan, Co-Director SD-REIN, San Diego State University



F8.2 FEDERAL FACILITIES: DEVELOPING & FINANCING ENERGY RESILIENCE
Seth Kirshenberd, Partner, Kutak Rock LLP



F8.3 HOW CORPORATE PPAS ARE DRIVING RENEWABLES GROWTH
Scott Nystrom, Director, FTI Consulting; Ken Ditzel



F8.4 PARAMETRIC ANALYSIS FOR COST-OPTIMAL RENEWABLE ENERGY INTEGRATION
Jin Jo, Associate Professor, Illinois State University

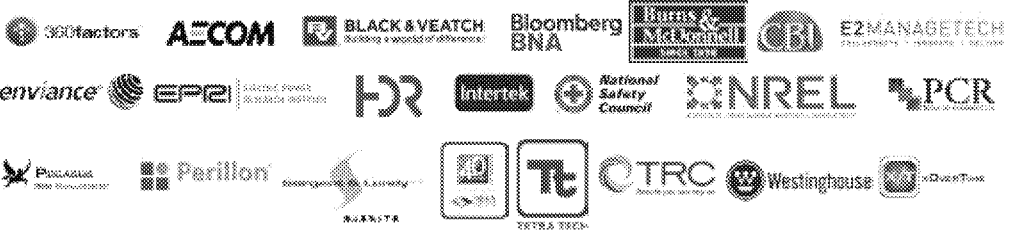


F8.5 PV DEGRADATION MITIGATION - A COMMERCIAL PERSPECTIVE
Matthias Gewalt, Manager of Solar Practice, Leidos Engineering



F8.6 SOLAR TECHNOLOGY EVOLUTION
Matthias Gewalt, Manager of Solar Practice, Leidos Engineering

ADVISORY BOARD TRACK G



This Track provides current presentations on current technologies and strategies, for decommissioning of power plants, boiler optimization, project finance, risk management, EMIS, EHS, Health & Safety, operation and maintenance in the electric utility industry.

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Monday | 1PM - 3PM

G1. DECOMMISSIONING OF POWER PLANTS



G1.1 IN-PLACE RETIREMENT OF POWER PLANTS - KEY CONSIDERATIONS AND APPROACH
 Co-chair - Jeffery Pope, Decommissioning & Demolition Services Mgr., Burns & McDonnell



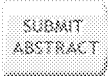
G1.2 CLOSURE OF THE D-AREA CCR FACILITIES AT THE SAVANNAH RIVER SITE
 Tammy DeRamo, Technical Director, Envirocon; Andrew White and Tripp Winfree



G1.3 SOLVING PCB IMPEDIMENTS TO DECOMMISSIONING
 Stephen Mitchell, Senior Vice President, Weston Solutions, Inc.; J.D Groesbeck



G1.4 CHANGES TO PROJECT OBJECTIVES REQUIRES CHANGES TO PROJECT SCOPE
 Co-chair - Richard Cheatham, Scientist 5, CB&I; Gene Scott, Ken Beard & Andrew Schaaf



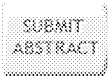
SPEAKING SLOTS AVAILABLE

Monday | 3:30PM - 5:30PM

G2. COMPLIANCE STRATEGIES & DECOMMISSIONING



G2.1 KCOM'S RIVERTON, KS EMPIRE DISTRICT ELECTRIC POWER PLANT IMPLOSION.
 Joel Spirtas, KCOM Demolition, Commercial / Industrial Demolition and Env. Remediation



SPEAKING SLOTS AVAILABLE

G3. OPERATIONS AND OPTIMIZATION



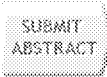
G3.1 MITIGATING CLIMATE EFFECTS ON PERFORMANCE OF CCGT-CO2 CAPTURE PLANTS
Hugo Rodriguez, Project Manager, Rengen Energy Solutions



G3.2 MORE EFFICIENT POWER GENERATION THROUGH ENVIRONMENTAL RESPONSIBLE CI
David Watson, Director, Business Development - Energy and Services, Cold Jet, LLC



G3.3 SF6 EMISSIONS FROM GAS INSULATED SWITCHGEAR (GIS)
Yasmeen Sultana, Principal, Stantec; Jonya Blahut



SPEAKING SLOTS AVAILABLE

G4. EHS & EMIS



G4.1 EXECUTION MEASUREMENTS TO INCREASE SAFETY PERFORMANCE
Carrie Young, Managing Director, Sphera Solutions



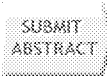
G4.2 BETTER MANAGEMENT OF THE COVERSACTIONS ABOUT YOUR DATA
David Gloski, President, xOverTime; Michael Lehane



G4.3 CONTINUOUS COMPLIANCE MANAGEMENT FOR UTILITY OPERATIONS
Adam Jackson, Managing Consultant, Trinity Consultants; Colt Sommers, Randall Nelson

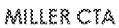


G4.4 SPREADING AN EHS CULTURE USING SIMPLIFIED SOFTWARE AND DATA ANALYTICS
John Niemoller, President, Perillon Software



SPEAKING SLOTS AVAILABLE

G5. PROJECT FINANCE, RISK MGMT



G5.1 INVESTMNT STRATEGIES FOR ENV. MKTS UNDER CURRENT STATE OF NEW REGS
Nedia Miller, Principal, MILLER CTA



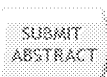
G5.2 SAUDI ARAMCO UPSTREAM ENVIRONMENTAL FOCUS – PAST, PRESENT, AND FUTURE
Ensan El-Ayoubi, Southern Area Oil Operations Technical Support Department, Saudi Aramco



G5.3 HEALTH RISK: KEEPING YOUR POWER PROJECT AFLOAT DURING THE EARLY STAGE
Joseph Sabao, Senior Scientist, Epsilon Associates



G5.4 MANAGING CONTRATOR CHANGE WITH UPFRONT AND AGREED UPON RATES
Brendan O'Brien, Project Engineer, Burns and McDonnell; Jeff Pope



SPEAKING SLOTS AVAILABLE

G6. OPERATIONS & OPTIMIZATION



G6.1 HIGH-FREQUENCY DATA COLLECTION AND ENVIRONMENTAL ACCOUNTING
Carrie Young, Vice President, Sphera Solutions



G6.2 A THREE YEAR INTERNATIONAL ENERGY CHALLENGE
Steven Driver, Global Energy Manager, Sanofi



G6.3 OPERATIONAL EFFICIENCY GAINS THROUGH GEOSPATIAL TECHNOLOGY ADVANCES
Randy Rhoads, Geospatial Industry Manager, Utilities, Harris Corporation



G6.4 BEST PRACTICES TO REDUCE VENTING AND FLARING WITH ECONOMIC BENEFIT
Jeff Voorhis, Engineer, HY-BON Engineering



G6.5 OPTIMIZATION OF PLANT PERFORMANCE USING MACHINE LEARNING
Patrick Bangert, CEO, algorithmica technologies Inc.



G6.6 WIND EFFECTS ON AIR-COOLED CONDENSERS: WIND-TUNNEL 2-D FLOW FIELDS
Ryan Parker, Project Engineer, CPP Wind Engineering

G7. HEALTH & SAFETY



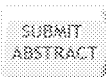
G7.1 FIT-FOR-DUTY TESTING IN THE ENERGY INDUSTRY
Richard Bunch, CEO, WorkSaver Systems



G7.2 LAYERING DO'S AND DON'TS FOR ARC FLASH PROTECTION
Derek Sang, Technical Training Manager, Bulwark Protective Apparel



G7.3 SAFE AND EFFICIENT COMBUSTION CONTROL IN GAS-FIRED BOILERS / TURBINES
Barbara Marshik, Power Market Segment Mgr, Servomex; Stephen Firth, Josh Christian



SPEAKING SLOTS AVAILABLE

G8. OPERATIONS & MANAGEMENT



G8.1 FAILURE POTENTIAL OF RETROFITTED VFD IN COOLING TOWER
Sarah AlKanderi, Research Assistant, Kuwait Institute for Scientific Research, Al-Bassam



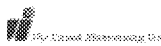
G8.2 PERMIAN BASIN ENVIRONMENTAL SUCCESS STORY: REVENUE SHARING WITH VENT G
Jeff Voorhis, Engineer, HY-BON Engineering



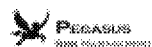
G8.3 DISRUPTION IN THE UNDERGROUND
Sean Gesell, Manufacturer's Rep, Armorcast Products Company



G8.4 INTEGRATING DEMAND RESPONSE INTO SYSTEM RELIABILITY PLANNING
Paul Grod, President, Rodan Energy Solutions



G8.5 CONNECTICUT UTILITIES TURNKEY SOLUTION TO BENCHMARKING 95% OF THE STATE
Sheri Borrelli, Senior Business Manager, United Illuminating; Samantha Sojka, Eversource Energy



G8.6 CREATING AN OPERATING CULTURE FOR PREDICTABLE, CONSISTENT PERFORMANCE
Peter Bridle, Managing Partner, Pegasus Risk Management

ADVISORY BOARD TRACK H

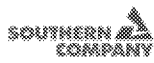

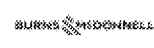

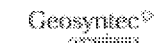


This Track provides current presentations on current technologies and strategies concerning CCS, CCR, ELG and coal ash in the electric utility industry.

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Monday | 1PM - 3PM

H1. CCR & ELG COMPLIANCE MGMT.

- 
H1.1 NOVEL APPROACHES TO ELG COMPLIANCE
 Tyler Cromey, Research Engineer, Southern Company Services
- 
H1.2 DESIGNING A PERFORMANCE TEST PROGRAM FOR A CARBON CAPTURE PROCESS
 Rick Krenzke, Project Director, TRC
- 
H1.3 STATES VS FEDS: WHO HAS THE BALL ON WATER AND ASH COMPLIANCE?
 Jason Eichenberger, Assoc. Civil Engineer, Burns and McDonnell
- 
H1.4 USE OF SLURRY WALL SYSTEMS TO SUPPORT CCR CLOSURE & CORRECTIVE ACTION
 Dale Evans, Senior Director of Technology, Remedial Construction Services; Kate Whysner
- 
H1.5 MASS DISCHARGE METRICS TO SUPPORT REMEDY SELECTION AT COAL ASH SITES
 Stephanie Jones, Environmental Engineer, Geosyntec Consultants

Monday | 3:30PM - 5:30PM

H2. COAL ASH, CCR & FGD

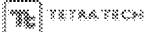
- 
H2.1 GEOCHEMICAL ANALYSIS OF COAL ASH CONSTITUENTS IN DRINKING WATER
 Paula Panzino, Technical Expert, Haley & Aldrich, Inc.; Jacob Chu, Lisa Bradley
- 
H2.2 RULES SHIFT AMERICA'S RESOURCE ABUNDANCE TO SHORTFALL
 Danny Gray, Executive Vice President, Charah, LLC
- 
H2.3 HOW DENSE SLURRY TECHNOLOGY CAN HELP ACHIEVE ZERO LIQUID DISCHARGE
 Dale Timmons, Program Manager, INAES Corporation
- 
H2.4 REQUALIFYING FLY ASH FOR BENEFICIAL USE/SALE USING AMENDED SILICATES
 Steve Baloga, P.E., VP Engineering and Environmental Services, Novinda Holdings, Inc.
- 
H2.5 SELENIUM: HOW SULFUR'S LITTLE BROTHER COULD AFFECT WASTEWATER TREATMENT
 Nick Nelson, Vice President, Barr Engineering
- 
H2.6 RECLAIMING AND RECYCLING COAL COMBUSTION RESIDUALS FOR BENEFICIAL USE
 Bill Fedorka, Executive Director, Advanced Technology and Projects, SEFA

H3. CCR RULE



H3.1 GROUNDWATER MONITORING AT CCR FACILITIES: NEXT STEPS

Tammy Rauen, Senior Engineer, Golder Associates; Craig Schuettpeiz, Todd Stong



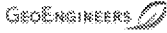
H3.2 CCR DATA MANAGEMENT: TOOLS TO AUTOMATE DATA COLLECTION & ANALYSIS

Christine Lew, Manager, Environ. Software/Data Mgmt Svcs, Tetra Tech, Michael Ungs



H3.3 CCR RULE LOCATION RESTRICTION FUNDAMENTALS & STRATEGIES

Eric Nelson, Vice President, Senior Project Manager, SCS Engineers



H3.4 SITING & DESIGN OF NEW UWLS AND GWM SYSTEMS PURSUANT TO THE CCR RULE

Gary Pendergrass, Principal Geological Engineer & Environmental Group Leader, GeoEngineers, Inc.



H3.5 HONEY I SHRUNK THE POND: CONSIDERATIONS FOR TANK BASED LOW VOLUME WWT

Dave Guinta, Chemical Engineer, Burns & McDonnell; Jared Troyer, Duke Energy

H4. CCR & ELG



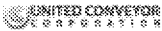
H4.1 TURNING THE CORNER - CCR MANAGEMENT AFTER OCTOBER 17 (INVITED)

Mark Rokoff, Vice President, AECOM



H4.2 EVALUATION OF CCR GROUNDWATER MANAGEMENT STRATEGIES

John Hesemann, Regional Environmental Practice Mgr, Burns & McDonnell; Wayne Weber



H4.3 LESSONS LEARNED FROM ELG COMPLIANCE PROJECTS

Kevin McDonough, Vice President of Sales and Marketing, United Conveyor Corporation



H4.4 ENGINEERED IMPOUNDMENTS TO MANAGE CCRs AND LOW VOLUME WASTEWATER

Ryan Shedivy, Project Geological Engineer, Golder Associates, Craig Schuettpeiz, Todd Stong, Golder Associates; Jennifer Charles, Great River Energy



H4.5 OPERATE LIKE THERE IS NO TOMORROW WITH CCR UNIT CLOSURES IN MIND

Jason Pokorny, Senior Project Manager, Haley & Aldrich

H5. COAL ASH, CCR & FGD



H5.1 PURSUING 100% CCP BENEFICIAL USE... AND BEYOND

Neal Kochis, Senior Project Manager, Haley & Aldrich



H5.2 CCR LANDFILL CHALLENGES FROM SITING THROUGH CONSTRUCTION

Gabe Lang, Associate Vice President, Charah, LLC



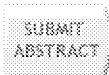
H5.3 MICROWAVE-ASSISTED RECOVERY OF REES FROM COAL AND COMBUSTION PRODUCTS

Megan Macala, Research Scientist, AECOM; Elliot Roth, AECOM; Tracy Bank, AECOM; Phillip Tinker, AECOM; Bret Howard, U.S. Dept. of Energy NETL; Evan Granite, U.S. Dept. of Energy NETL



H5.4 PROTECTING THE "CLOSED LOOP" IN WET BOTTOM ASH SYSTEMS

Paul Pigeon, Associate, Golder Associates



SPEAKING SLOTS AVAILABLE

H6. FGD, ELG, CCR & CCS



H6.1 ADVANCES IN NON-BIOLOGICAL POWER WASTEWATER TREATMENT
Charles McCloskey, Industrial Wastewater Business Manager, Evoqua Water Technologies



H6.2 FGD AND WASTE VOLUME REDUCTION - CASE STUDY ON THERMAL EVAPORATION
Clark Harrison, Director, Power Generation Business Development, Purestream Services



H6.3 BOTTOM ASH OPTIONS FOR ELG AND CCR COMPLIANCE
Gerald Long, Manager, North America, United Conveyor Corporation



H6.4 RESPONSIBLE MANAGEMENT OF FGD BYPRODUCTS
Keith Ambrose, Chemical Engineer, Duke Energy

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SPEAKING SLOTS AVAILABLE

H7. CCS: CARBON CAPTURE & STORAGE



H7.1 STATUS OF TECH DEVELOPMENT AT THE NATIONAL CARBON CAPTURE CTR (INVITED)
Roxann Laird, Director - National Carbon Capture Center, Southern Co.; Frank Morton



H7.2 FTIR MONITORING SYSTEM PROVIDES TIGHTER CONTROL ON EMISSIONS FROM C
Co-Chair - Jim Cornish, Sales & Support Manager, Gasmeter Technologies



H7.3 POLICY PARITY FOR CARBON CAPTURE
Heather Greenley, Program Coordinator, USEA

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ABSTRACT

SPEAKING SLOTS AVAILABLE

H8. LANDFILL GAS & RARE EARTH ELEMENTS



H8.1 RECOVERY OF RARE EARTH METALS FROM COAL COMBUSTION RESIDUALS
Joseph Laurino, President, Periodic Products, Inc.; Zachary Huba



H8.2 RARE EARTH ELEMENTS IN COAL AND COAL COMBUSTION PRODUCTS
Elliot Roth, Research Engineer, NETL/AECOM; Megan Macala, AECOM/NETL; Ronghong Lin, ORISE; Tracy Bank, AECOM/NETL; Bret Howard, NETL; Evan Granite, NETL; Yee Soong, NETL



H8.3 A METHOD FOR PREDICTING CCR LANDFILL LEACHATE GENERATION VOLUME
Cedric Ruhl, Senior Engineer, Wood Group PLC.



H8.4 DETERMINATION OF RARE EARTHS IN COAL COMBUSTION BY-PRODUCTS
Evan Granite, Research Chemical Engineer, USDOE / NETL; Elliot Roth -NETL, Tracy Bank - NETL, Mary Anne Alvin - NETL, Ken Ladwig - EPRI



H8.5 INNOVATIVE METHODOLOGIES FOR ASSESSMENT, IDENTIFICATION & MITIGATION
Hari Gupta, Director, Coriolis Enterprises

ADVISORY BOARD TRACK I



This Track provides current presentations on current technologies and strategies, concerning water and wastewater management, including 316 (b), cooling towers, FGD, ZLD, coal ash, and remediation in the electric utility industry.

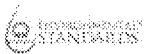
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Monday | 1PM - 3PM

11. WASTEWATER MANAGEMENT



11.1 PARTNERING WITH BIG INDUSTRY TO REDUCE NUTRIENT POLLUTION
 Sarah Gilstrap, Senior Environmental Scientist, Burns & McDonnell Engineering Company



11.2 CCR WATER SAMPLING AND ANALYSIS DATA QUALITY ISSUES
 David Thal, Principal Chemist, Environmental Standards, Inc.; Vitale, Gable, Dicken, Martin



11.3 A PROMISING ASH POND WATER TREATMENT METHOD UTILIZING FLYASH
 Jeong-Yun Won, Senior Geotechnical Engineer, Barr Engineering Company



11.4 EFFECTIVE CLARIFICATION TO MEET TIGHT TRACE METAL LIMITS
 Dennis Fink, Water for Power Lead, CH2M; Thomas E. Higgins and Mary McCloud



11.5 THERMAL EVAPORATIVE WASTEWATER TREATMENT: SCALE CONTROL & MGMT
 Todd Whiting, Sr. VP Power Generation Operations, Purestream Services

Monday | 3:30PM - 5:30PM

12. GROUND WATER, REMEDIATION & 316(b)



12.1 A PARADIGM SHIFT IN WATER TREATMENT
 Aaron Morrison, President & CEO, Chaoticwaters, Inc.



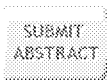
12.2 APPLICATION OF DEMULSIFICATION METHOD FOR TREATMENT OF OILY WATER
 Karim Ghasemipناه, Group Manager of Water and Wastewater Treatment Research, Research Institute of Petroleum Industry; Sadegh Shokouhi, Kimia Saba Sahand Shahrz



12.3 ALTERNATE SOURCE DEMONSTRATION USING MULTIVARIATE STATISTICS
 Natasha Hausmann, Senior Scientist, ERM; Brian Bjorklund



12.4 CAPACITIVE DEIONIZATION OF A METAL-CONTAMINATED UNDERGROUND WATER
 H. Paul Wang, Professor, National Cheng Kung University, Chong, Nat'l Cheng Kung Univ; J. Wang, Univ. of Cal, San Diego; Wei, Tunghai University, Lin, National Tsing-Hua University



SPEAKING SLOTS AVAILABLE

13. 316(b)



13.1 INTER-YEAR VARIABILITY IN IMPINGEMENT AND ENTRAINMENT RATES
Greg Seeger, Chief Ichthyologist, EA Eng.; J. Roger & J. Vondruska, EA; D. Dixon, EPRI



13.2 PEER REVIEWER IDENTIFICATION, SELECTION AND MANAGEMENT
Christopher Wiggins, Sr. Aquatic Scientist, Burns & McDonnell



13.3 USE OF CFD TO OPTIMIZE A FISH RETURN DISCHARGE LOCATION
Nathaniel Olken, Principal Engineer, Alden Research Laboratory



13.4 A CONSORTIUM APPROACH TO 316(B) FOR FACILITIES ON THE MISSISSIPPI RIVER
Kurtis Schlicht, Technical Director, Environmental Resources Management

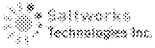


13.5 GREEN ALTERNATIVES FOR WATER SUPPLY DEVELOPMENT
Henry Hunt, Sr. Project Manager, Layne-Ranney



13.6 CASE STUDY OF RETROFITTING THE DAIRYLAND MADGETT PLANT INTAKE
Brett DeRousse, National Account Manager, Hydrolox; Mike McCullick; Dairyland Power

14. FGD WASTEWATER & ZLD



14.1 INNOVATIVE FGD WASTEWATER TREATMENT AND ZLD OPTIONS
Malcolm Man, Executive Vice President, Saltworks Technologies, Inc.; Ben Sparrow



14.2 ADVANTAGES OF ZLD COMPLIANT DENSE SLURRY ASH DISPOSAL SYSTEMS (DSS)
Tobias Lutz, Product Manager, Putzmeister Solid Pumps GmbH; Uli Freitag



14.3 ENTRAINMENT STUDIES AT THE ALLIANT EDGEWATER GENERATING STATION ON LAK
Christopher Wiggins, Sr. Aquatic Scientist, Burns & McDonnell



14.4 USING BRINE ENCAPSULATION TECH. TO MANAGE POWER PLANT WASTEWATER
Clark Harrison, Director of Business Development, Parestream Services; Todd Whiting



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15. FGD WASTEWATER & ELG



15.1 INVESTIGATING OPTIONS FOR CLOSING THE BOTTOM ASH LOOP
Krystal Perez, Industrial Water-Power Practice Lead, CH2M



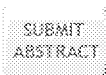
15.2 ASSESSMENT OF HEAVY METALS POLLUTION OF SOME WATER RESOURCES
Abdrabelnabi Abdelhady, Professor, Damanshour University; Abdelaty, E. F.



15.3 FO TECHNOLOGY FOR FGD WASTEWATER PRODUCES ELG COMPLIANT STREAM
Margarita Luis, Vice President - Inside Sales, Fluid Technology Solutions, Inc.; Fabian Solberg; Eisenmann



15.4 NANO-FILTRATION TREATMENT OF FGD WATER TO MEET ELG STANDARDS
Jonathan Chen, Process Engineer, BKT



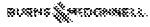
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TRACK | I | WATER & 316(b)

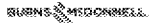
ROOM 9

Tuesday | 3:30PM - 5:30PM

16. 316(b), ELG, WASTEWATER



16.1 LOW VOLUME WASTEWATERS: COLLECTING DATA FOR CRITICAL DECISIONS
Karen Burchardt, Associate Environ. Engineer, Burns and McDonnell, Douglas Randall



16.2 SECTION 316(A) COMPLIANCE ON LARGE FRESHWATER RIVERS
Christopher Wiggins, Sr. Aquatic Scientist, Burns and McDonnell



16.3 REAL TIME ORGANIC DISCHARGE CONTROL FOR FGD WASTEWATER
Amanda Scott, Product Manager & Applications Specialist, GE Analytical Instruments



16.4 ONLINE MULTI-METALS WATER ANALYZER FIELD DEMONSTRATION
Troy Pittenger, R&D Director, Cooper Environmental Services; Brian Edge

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Wednesday | 7:30AM - 9:30AM

17. 316(b), COOLING WATER & SELENIUM



17.1 ONLINE SELENIUM SPECIATION ANALYSIS TO AID ELG COMPLIANCE PROGRAMS
Vladimir Dozortsev P.h.D., Development Manager, Aqua Metrology Systems Ltd.



17.2 EFFECTS OF COOLING WATER INTAKES ON FEDERALLY LISTED SPECIES
Brandon Johnson, Sr. Project Manager, Stantec



17.3 PHOTODEGRADATION OF IBUPROFEN BY G-C3N4/BI2WO6/RGO UNDER VISIBLE LIGHT
Shou-Heng Liu, Professor, National Cheng Kung University

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ABSTRACT

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Wednesday | 10AM - 12PM

18. WATER SUPPLY & SECURITY



18.1 ASSESSMENT OF HEAVY METALS POLLUTION OF SOME WATER RESOURCES
Abdrabelnabi Abdelhady, Professor, Damanhour University



18.2 IT'S NOT JUST WATER -- THE SCIENCE AND IMPORTANCE BEHIND COLLECTING REP
Michael McMenus, Sr. Process Specialist, Kiewit Engineering



18.3 RESILIENCE & ADAPTATION: EVALUATING RISKS TO THE YUKON RIVER WATERSHED
Lawrence Duffy, Professor, University of Alaska Fairbanks; KL Dunlap, BH Dainowski

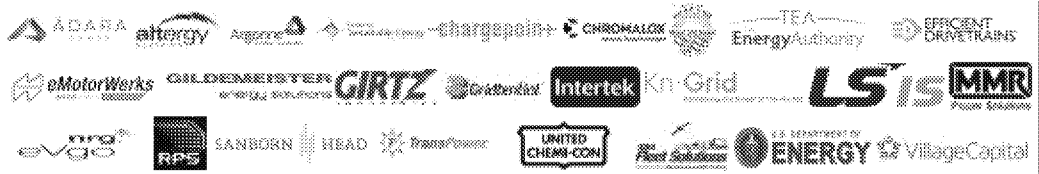


18.4 ENERGY EFFICIENCY IN WATER/WASTEWATER SYSTEMS
Guru Navaneetham, Engineering Supervisor, Lincus, Inc.; Sabarish Vinod and Jorj Nofal

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This Track provides current presentations on current technologies and strategies, concerning energy storage, batteries, charging, EV, and PHEV

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Monday | 1PM - 3PM

J1. CHARGING & TRANSPORTATION



J1.1 HYBRIDIZATION OF COMMUTER PASSENGER RAIL

Dave Cook, CTO, Rail Propulsion Systems



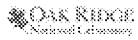
J1.2 ELECTRIFYING FLEETS: CAN IT BE DONE?

Tim Echols, Commissioner, State of Georgia



J1.3 LARGE BATTERY ENERGY STORAGE: STATIONARY AND V2G

Paul Scott, VP - Advanced Technologies, TransPower; Joshua Goldman



J1.4 MODELING ENERGY- SAVING FREIGHT DELIVERY SCENARIOS

Amy Moore, Postdoctoral Research Associate, Oak Ridge National Laboratory



J1.5 EV TO GRID INTEGRATION - HOW IT WORKS. WHY IT MATTERS.

Preston Roper, Chief Marketing & Operating Officer, eMotorWerks

Monday | 3:30PM - 5:30PM

J2. EV & PHEV



J2.1 HEAVY RAIL WAYSIDE ENERGY STORAGE SYSTEMS FOR PASSENGER AND FREIGHT

Brian Yanity, Research Engineer, Rail Propulsion Systems



J2.2 ELIMINATING THE HARM OF BUNDLED-COST OR BUNDLED-BENEFIT CAR PARKING

Michael Bullock, Transportation Advisor, Evolved Wireless, Inc.



J2.3 ENERGY STORAGE & MGMT FOR TRANSPORTATION & STATIONARY ENERGY USE (INVITED)

Andrew Frank, CTO, Efficient Drivetrains Inc.



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J3. BATTERY & STORAGE SYSTEMS

J3.1 IMPLICATIONS DUE TO THE ABSENCE OF USE CASE TESTING STANDARDS
Cory Schaeffer, Senior Consultant, Leidos Engineering



J3.2 THE VALUE OF OPTIONALITY IN DEPLOYING GRID STORAGE
Max Henrion, CEO, Lumina Decision Systems; Kimberlyl Mullins



J3.3 TBD
John H. Holmes, Industry Alliance Officer, University of California San Diego

**SUBMIT
ABSTRACT****SPEAKING SLOTS AVAILABLE****J4. BATTERY & STORAGE**

J4.1 ASSURANCE IN ENERGY STORAGE SYSTEMS: IDENTIFYING AND MINIMIZING RISK (INVITED)

Haiwen (Howard) Liu, Sr. Staff Engineer/Engineering Team Lead, Intertek Testing Services NA, Inc.; Brad Affeldt



J4.2 FREQUENCY REGULATION ENERGY STORAGE SYSTEM IN KOREA (INVITED)

David Nickerson, Director of Business Development, LSIS Co., Ltd.; Joowon Yoon



J4.3 SOLAR + STORAGE: IF YOU CAN MAKE IT HERE, YOU CAN MAKE IT ANYWHERE

Ronald Spalter, Deputy Chief Operating Officer, City University of New York

J5. BACK-UP PWR & ENERGY STORAGE

J5.1 MODULAR LNG :ALTERNATIVE BACK-UP ENERGY SUPPLY FOR POWER GENERATORS (INVITED)

Michael Nicoloro, Senior Vice President, Sanborn, Head & Associates; Joan Fontaine



J5.2 MAINTAINING SYSTEM VOLTAGE WITH BATTERY STORAGE

Craig Dalziel, Director, GP Strategies; Gary Tindall, AES Corporation

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J6. ENERGY STORAGE TECHNOLOGY

J6.1 ENERGY STORAGE < \$ 1.00 / KWH CAPEX: HYDROGEN & AMMONIA FUELS
Co-Chair - Bill Leighty, Director, The Leighty Foundation

Willow Springs
Water Bank

J6.2 ENERGY STORAGE AT GROUNDWATER BANKS

Mark Beuhler, General Manager, Willow Springs Water Bank; Lon W. House, Water and Energy Consulting



J6.3 HYDROGEN AS ENERGY STORAGE MEDIUM AND FUEL FOR SIGT

Joshua Partheepan, Assistant Professor, West Texas A&M University, Emily Hunt



J6.4 ECONOMIC DISPATCH OF LIQUID AIR POWER & STORAGE

William Conlon, President, Pintail Power LLC;

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J7. BATTERY & STORAGE SYSTEMS



J7.1 JCESR - A NEW PARADIGM FOR ENERGY STORAGE RESEARCH (INVITED)
Devin Hodge, Deputy Director for Operations, Argonne National Laboratory

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J8. TRANSPORTATION



J8.1 GRID SCALE ENERGY STORAGE PROSPECTS AT ISO/RTO (INVITED)
Rao Konidena, Principal Advisor, Midcontinent ISO



J8.2 FUELING THE ENERGY STORAGE REVOLUTION (INVITED)
Andrew Miller, Analyst, Benchmark Mineral Intelligence

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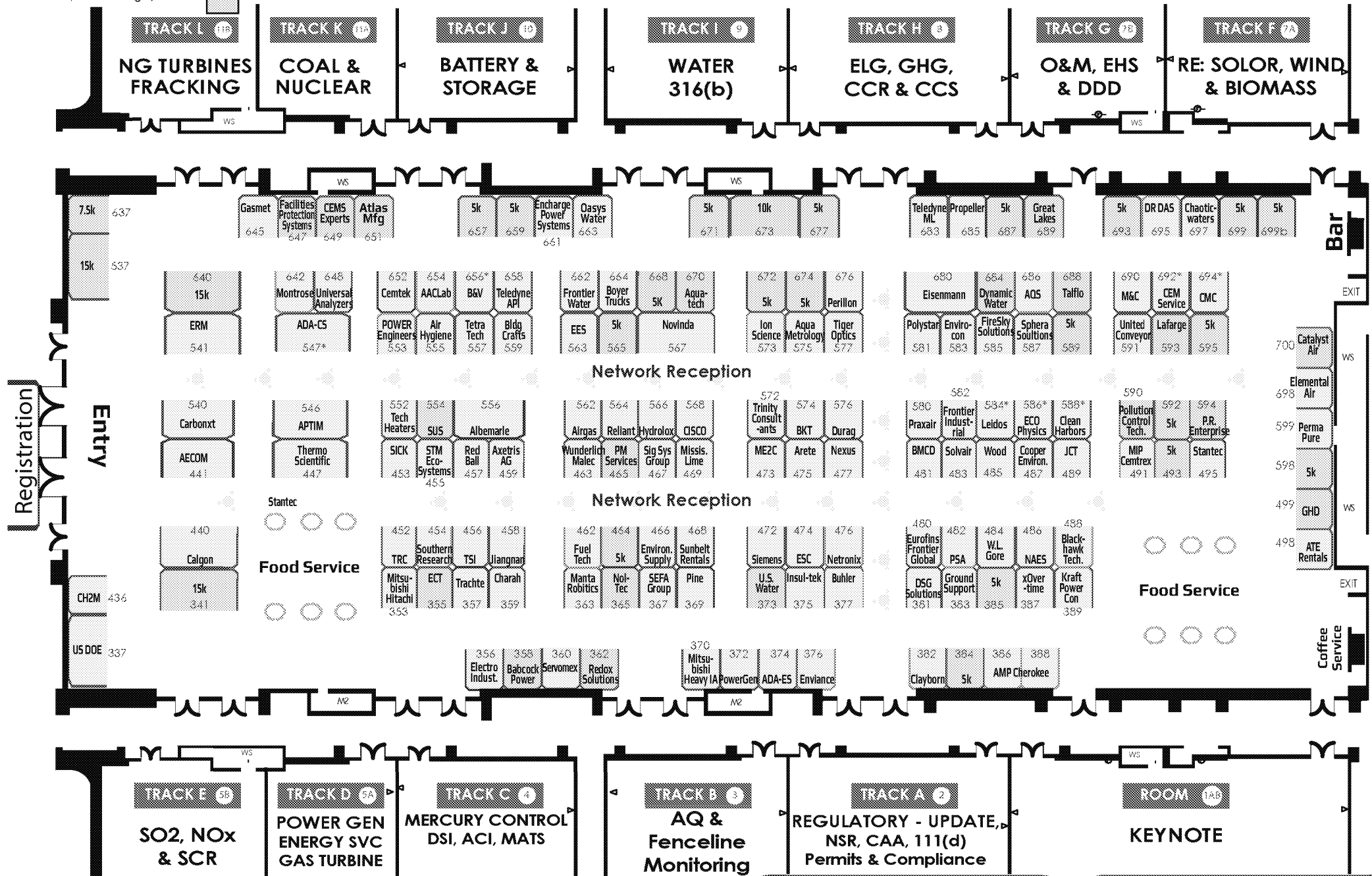


EXHIBIT BOOTH & SPEAKER PACKAGE (\$5,000)

1. One 10' x 8' exhibit booth, 6' table, 2 chairs, waste basket & carpet
2. One free speaker or exhibitor registration to EUEC 2018
3. Network with 1,700+ delegates at (11) receptions held in exhibit hall
4. Marketing to mailing list of 50k Professionals
5. Pre and post conference attendee list
6. Exhibitor Advertisement in program, web, and newsletter
7. Tickets to Welcome Reception Sunday 3/4/18 (5 pm to 7 pm)
8. VIP rate for all clients and guests

EXHIBIT SHOW HOURS

Sun. Setup	12 pm to 6 pm
Mon. Mar 5	12 pm to 6 pm
Tues. Mar 6	9 am to 6 pm
Wed. Mar 7	9 am to 12 pm
Breakdown	12 pm to 4 pm

NETWORK RECEPTIONS
located in Exhibit Hall

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 6 pm

Not to Scale

Booth Number - Exhibiting Companies

547 ADA Carbon Solutions	698 Elemental Air	676 Perillon
374 ADA-ES	661 Encharge Power Systems	369 Pine
498 Advanced Test Equipment	376 Enviance	590 Pollution Control Tech.
441 AECOM, Inc.	583 Envirocon	581 Polystar Containment
555 Air Hygiene	355 Environ. Consulting & Tech	453 Power Engineers
686 Air Quality Services	563 Environ. Energy Srvcs(EES)	580 Praxair
562 Airgas	466 Environmental Supply Co.	457 Red Ball Technical Gas
640 Airtech Environmental	474 Environmental Systems(ESC)	362 Redox Solutions
556 Albemarle	541 ERM	564 Reliant CEM Services
386 AMP Cherokee	480 Eurofins Frontier Global	595 Requordit, Inc.
546 APTIM	647 Facilities Protection Systems	367 SEFA Group, Inc, The
575 Aqua Metrology Systems	585 FireSky Solutions	553 Sega, Inc.
670 Aquatech International	493 Forterra Building Products	360 Servomex
475 Arete	582 Frontier Industrial Corp.	472 Siemens Industry, Inc.
651 Atlas Manufacturing Co. Inc.	662 Frontier Water Systems	467 Signature Systems Group
654 AACLab, Inc.	462 Fuel Tech, Inc.	554 Smart Utility Systems
459 Axetris AG	645 Gasmot	483 SOLVAir Natural Solutions
358 Babcock Power	499 GHD	454 Southern Research
574 BKT	689 Great Lakes Solutions	587 Sphera Solutions
656 Black & Veatch	383 Ground Support	495 Stantec Consulting
488 Blackhawk Technology	566 Hydrolox	455 STM Ecosystems
664 Boyer Trucks	375 Insul-tek	468 Sunbelt Rentals
377 Buhler Technologies	573 Ion Science, Inc.	688 TalFlo
559 Building Crafts, Inc	489 JCT	552 Technical Heaters, Inc.
481 Burns & McDonnell	458 Jiangnan Environmental	658 Teledyne API
440 Calgon Carbon	389 Kraft Power Con	683 Teledyne Monitor Labs
540 Carbonxt, Inc.	593 Lafarge	557 Tetra Tech, Inc.
700 Catalyst Air Management	584 Leidos	447 Thermo Scientific
692 CEM Service Group, Inc.	690 M & C Tech Group NA	577 Tiger Optics, LLC.
649 CEMS Experts	363 Manta Robotics, LLC	357 Trachte
652 Cemtek Environmental, Inc.	473 Midwest Energy Emissions	452 TRC Companies, Inc.
436 CH2M	491 MIP Cemtrex Inc.	572 Trinity Consultants
359 Charah, Inc.	469 Mississippi Lime Company	456 TSI, Inc.
697 Chaoticwaters	370 Mitsubishi Heavy Industries	337 U.S. DOE, Office Clean Coal
568 CiSCO	353 Mitsubishi Hitachi Power	373 U.S. Water
382 Clayborn Labs	640 Montrose Environmental	591 United Conveyor Corp.
588 Clean Harbors	486 NAES	648 Universal Analyzers, Inc.
694 CMC	476 Netronix	589 University of Tulsa, The
487 Cooper Environmental	477 Nexus Solutions, Inc.	484 W.L. Gore & Associates
695 DR DAS LTD	365 Nol-Tec Systems	693 Western Energy Systems
381 DSG Solutions	567 Novinda	485 Wood
576 Durag, Inc.	663 Oasys Water	463 Wunderlich-Malec
684 Dynamic Water Tech.	599 Perma Pure	387 xOverTime
586 ECO Physics	594 P.R.EnterpriseINC	
680 Eisenmann	482 P S Analytical	
356 Electro Industries/GaugeTech	599 PCME	

WARNING TO Exhibitors: Do NOT accept any phone solicitations for Hotels

Exhibit Reservation



EXHIBIT BOOTH PACKAGE INCLUDES:

1. Fully furnished with 6' draped table, (2) chairs, & carpet
2. One full registration to exhibit & attend conference
3. One speaking opportunity at EUEC 2018
4. 11 Networking meals: lunches, receptions & breaks
5. Discounted exhibitor rate for additional registrations
6. Marketing to mailing list of 50,000 professionals
7. Pre and post conference attendee list of 1,500
8. Ad in Program Guide, Web & Newsletter

STEP 1. SELECT BOOTH PACKAGE TYPE			BOOTH #
Single Booth (10 x 8):	<input type="checkbox"/> Standard (\$5,000)	<input type="checkbox"/> Premium (\$7,500)	_____
Double Booth (20 x 8):	<input type="checkbox"/> Silver (\$10,000)	<input type="checkbox"/> Gold (\$15,000)	_____
			Total Cost: _____

STEP 2. ENTER CHOICE OF BOOTH NUMBER - For New Exhibitors	1st	2nd	3rd
	<input type="text"/>	<input type="text"/>	<input type="text"/>

STEP 3. ENTER NAME OF REGISTRANT	Full Name	Email
1. Exhibitor (Free):	_____	_____
2. Speaker Rate:	_____	_____
3. Exhibitor Rate:	_____	_____

STEP 4. CONTACT INFORMATION:
Company Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Email: _____ Phone: _____ Website: _____
COMMENT: _____
Authorized Signature (required): _____
Name: _____ Date: _____

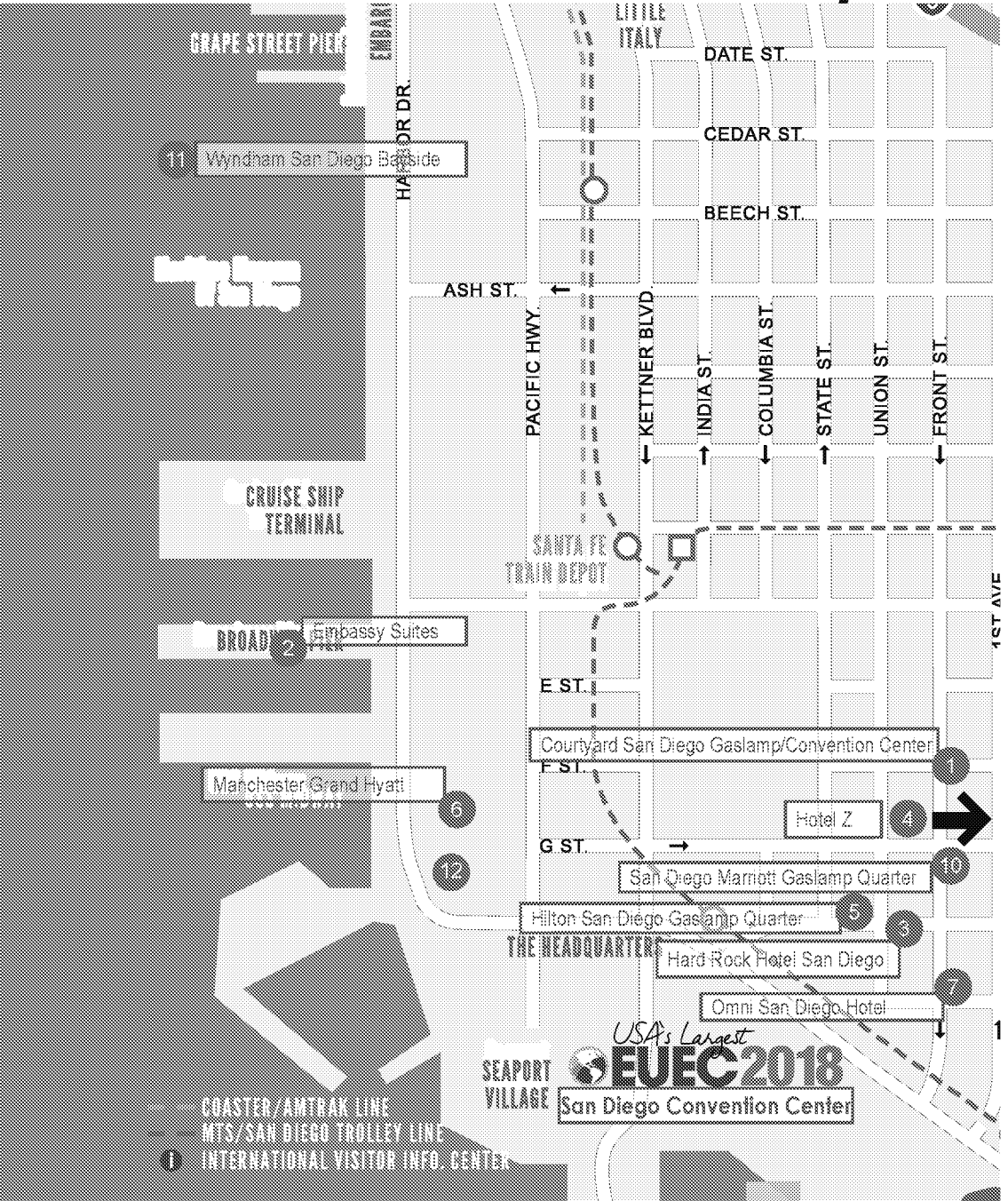
FAX TO	1-602-296-0199	E-MAIL TO	INFO@EUEC.COM	ONLINE	WWW.EUEC.COM
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RULES:

Application implies that exhibitor will abide by Conference show rules. Please copy this contract for your files. Exhibitor hereby assumes entire responsibility and hereby agrees to protect, defend, indemnify and save the San Diego Convention Center, its owners, its operator, EUEC, and each of their respective parents, subsidiaries, affiliates, employees, officers, directors, and agents harmless against all claims, losses or damages to persons or property, governmental charges or fines and attorney's fees arising out of or caused by its installation, removal, maintenance, occupancy or use of the exhibition premises or a part thereof, excluding any such liability caused by the sole gross negligence of the Convention Center and its employees and agents. Exhibitor shall obtain and keep in force during the term of the installation and use of the exhibit premises, policies of Comprehensive General Liability Insurance and Contractual Liability Insurance, insuring and specifically referring to the Contractual liability set forth in this Exhibit Agreement in an amount not less than \$1,000,000 Combined Single Limit for personal injury and property damage. The group agrees to provide a Certificate of insurance evidencing the coverage described above. This Agreement is governed by the laws of the State of Arizona, with exclusive jurisdiction in the courts in Tucson, Pima County, Arizona.

CANCELLATION POLICY: Please see www.euec.com for full cancellation and refund policy.
No Commitment until June 1, 2017. 60% refund upto October 1, 2017. No refunds after October 1st, 2017.

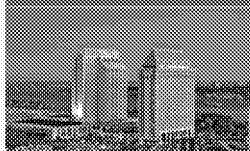
Hotels and Area Map



HOTELS

Please contact the hotels directly
<http://www.euec.com/hotels-info/>
Listed below are the Hotels used for EUEC 2018.

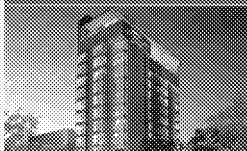
MANCHESTER GRAND HYATT



BOOK NOW
\$259

0.3 Miles to event
★★★★★

COURTYARD GASLAMP



\$219

0.3 Miles to event
★★★★★

EMBASSY SUITES



(800) 362-2779
\$259

0.7 Miles to event
★★★★★

HOTEL Z



(800) 996-3426
\$169

0.2 Miles to event
★★★★★

HILTON GASLAMP



(800) 445-8667
\$259

0.2 Miles to event
★★★★★

OMNI HOTEL



(800) 849-6664
\$259

0.2 Miles to event
★★★★★

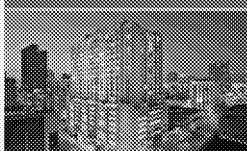
HARD ROCK HOTEL



(877) 344-7625
\$269

0.1 Miles to event
★★★★★

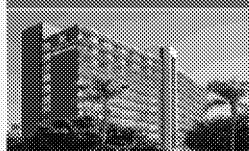
MARRIOTT GASLAMP



BOOK NOW
\$255

0.2 Miles to event
★★★★★

WYNDHAM BAYSIDE

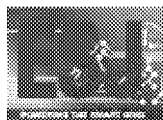


BOOK NOW
\$159

1.3 Miles to event
★★★★★

Beware of unauthorized phone solicitation.

Media Partners



EUEC 2018 SCHEDULE

Sunday | March 4th

7:00 am - 7:00 pm	Registration
12:00 pm - 6:00 pm	Exhibit Set-up
5:00 pm - 7:00 pm	Welcome Reception

Monday | March 5th

7:00 am - 7:00 pm	Registration
12:00 pm - 6:00 pm	Exhibits Open
9:00 am - 12:00 pm	Plenary Session
12:00 pm - 1:00 pm	Networking Lunch 1
1:00 pm - 3:00 pm	Tech Session 1
3:00 pm - 3:30 pm	Networking Break 2
3:30 pm - 5:30 pm	Tech Session 2
4:00 pm - 6:00 pm	Networking Reception 3

Tuesday | March 6th

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

Wednesday | March 7th

9:00 am - 12:00 pm	Exhibits Open
7:30 am - 9:30 am	Tech Session 7
9:30 am - 10:00 am	Networking Break 8
10:00 am - 12:00 pm	Tech Session 8
12:00 pm - 4:00 pm	Exhibit Tear Down

ALL 8 NETWORKING EVENTS ARE HELD IN EXHIBIT HALL

SPEAKER FORMAT

- All speakers limited to 20 minutes using PowerPoint
- Submit abstract online and select track and session of choice
- Each session is 2 hours long with 6 speakers and 2 co-chairs

EUEC WELCOME RECEPTION BY THE WATERFRONT
Sunday, March 4th, 2018, 5 pm to 7 pm

SALLY'S

FISH HOUSE + BAR
BEHIND MANCHESTER GRAND HYATT

Pick up complimentary hors d'oeuvres and beverage tickets
at EUEC Registration Desk

7TH ANNUAL EUEC GOLF EVENT
Sunday March 4th 2018 at 8:00AM

Torrey Pines Golf Course

Join your colleagues from EUEC at the World Famous

Torrey Pines Golf Course
11480 North Torrey Pines Road
La Jolla, CA 92037
(858)452-3226

Sponsorship

- You choose one of our exclusive packages or we can help you create one
- Create a package customized to fit your specific needs or desired investment level
- Sponsorship Program will help you focus directly on your target audience
- Provides maximum branding, recognition and return on investment.

1. One Page Advertisement In Show Guide – \$1,000

The Show Guide is the official, up-to-date information on the EUEC event. One page color Advertisement distributed to 1,500 delegates, is continuously referenced multiple times a day by all attendees. You can have your logo included or do two facing page ads. CMYK, 5.875 x 9.5, 1/4 in bleed

2. Session Sponsor & Company Logo Ad – \$500 per session

Sponsor a Technical Session that you are Co-chairing and speaking for only \$500, with your company logo prominently advertised among the leading experts in the industry.

3. Advertisement in ENERGYNews – \$500 per issue

Leverage the EUEC network to reach 50,000 professionals in the energy utility and environment sector in North America. Place your logo and advertisement on ENERGYNews (linked to your website) announcing your new product, service or just your exhibit and speaking topics!

4. Attendee Lanyard And Badge Holders – \$3,000

This package includes logo placement on lanyards of the attendee name badge holders.

5. Golf Sponsor – \$3,000

Exclusive sponsorship of the 2017 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.

6. Hotel Key Cards – \$5,000

Effectively place your business card in every attendee's pocket. Four-color custom design imprinted on Hotel Key Cards distributed to all attendees staying at official show hotels.

7. Your Logo On Flash Drive Conference Proceedings – \$8,000

What's more important to the conference delegates after the event than the complete conference proceedings? 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.

8. Lunch / Reception Sponsorship – \$5,000 - \$15,000

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

9. Corporate Furnished Offices for client meetings - \$1,500 (3-days) (\$5,000 for non-exhibiting companies)

Exhibiting Companies can invite your clients, partners and business associates into a hardwalled private furnished office to conduct business. The private meeting rooms are located next to the exhibit hall. See floor plan. 10 x 10 offices are furnished with table and 4 chairs. Cost is \$1,500 for three days of conference. Upgradable to size(10 x 20) with sofas and tables, with food, etc.

CONTACT

Phone: (520) 615-3535
email: info@euec.com

Electric Utilities Attending EUEC

AES
Alabama Power Company
ALLETE
Alliant Energy Corporation
Ameren Corporation
American Electric Power
American Municipal Power, Inc.
Arizona Electric Power Cooperative
Arizona Public Service Company
Associated Electric Cooperative, Inc.
Austin Energy
Basin Electric Power Cooperation
Big Rivers Electric
Burbank Water & Power
Calpine Corporation
Central Iowa Power Cooperative
Central Minnesota Municipal Power Agency
Clarke Public Utilities
Cleco Corporation
Con Edison
Connecticut Natural Gas
Constellation Energy
Consumers Energy
CPS Energy
Deseret Power
Diamond Generating Corporation
Dominion Generation
DTE Energy
Duke Energy
Dynegy
East Kentucky Power Cooperative
Edison Electric Institute
Empire District Electric Company
Encina Power Station
ENGIE North America
Energy Services
Eversource Energy
Exelon Power
FirstEnergy Corp.
Florida Power & Light Company
Grand Bahama Power Company
Great River Energy
Guam Public Utilities Commission
Hawaiian Electric
Hoosier Energy
Independence Power & Light
Intermountain Power Service Corporation
JEA
Kansas City Board of Public Utilities
Kansas City Power & Light
KU Energy, LLC
Lansing Board of Water & Light
LG&E
Louisville Gas & Electric
Lower Colorado River Authority
Luminant
Madison Gas & Electric
Michigan South Central Power Agency
MidAmerican Energy Company
Minnesota Power
Minnkota Power Cooperative, Inc.
Montana-Dakota Utilities Company
Muscatine Power and Water
Nebraska Public Power District
Newmont Nevada Energy Investment
NextEra Energy
NiSource
Northern Indiana Public Service Co.
Northern Star Generation
NorthWestern Energy
Nova Scotia Power
NRECA
NRG Energy
NV Energy
ODEC
Oklahoma Gas & Electric Company
Old Dominion Electric Cooperative
Omaha Public Power District
Orange Grove Energy
Pacific Gas & Electric
PCPS Energy
PECO Energy
Platt River Power
Portland General Electric
PPL EnergyPlus LLC
PPL Montana LLC
Prarie State Generating Co.
Puget Sound Energy - PSE
Riverside Public Utilities
Rochester Public Utilities
Rodan Energy Solutions Inc.
Rural Electric Cooperative
Sacramento Municipal Utility District
Salt River Project
San Diego Gas & Electric
San Diego Water Authority
Santee Cooper
SCANA
Schneider Electric
Seattle City Light
Sempra US Gas and Power
Sierra Power Company
Southern California Edison
Southern Company
Southern Connecticut Gas
Southern Power Company
Sunflower Electric Power Corporation
Tennessee Valley Authority
Texas Municipal Power Agency
The United Illuminating Company
Tri-State Generation and Transmission
Tucson Electric Power
Vectren Corp.
WEC Energy Group
Westar Energy
Xcel Energy