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.

Clean Car Expo (CCE) co-located across the hall in the Sails Pavilion is open to public from 6 to 9 pm on March 5 and 6th, after EUEC ends each day at 6 pm.

Clean Car Expo showcases zero emission and alternate fuel vehicles, from major auto companies and new developers, including electric bikes, solar charging stations, battery and energy storage technologies, EV, PHEV, fleet, buses, bucket trucks, fuel conversion technologies., see www.CleanCarExpo.com

California Air Resource Boards Zero Emission Vehicle Regulations Requires Manufacturers to Produce ZEVs in 2018 to 2025 models.
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 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
6:00 pm - 9 pm Clean Car Expo

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
6:00 pm - 9 pm Clean Car Expo

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

REGISTRATION COST INCLUDES:
- Admission to 400+ presentations in 10 track rooms
- 13 food and beverage tickets ($300 value)
- 8 networking breaks & meals served in exhibit halls
- Flash Drive containing 400 presentations with audio ($495 value)
- Free spouse registration and admission to Clean Car Expo

Keynote
Monday, March 5th, 2018. 9:00 AM - 12:00 PM
San Diego Convention Center | 111 W. Harbor Dr. | San Diego, CA.

SDG&E PROGRAMS ON RENEWABLES, ENERGY STORAGE & EVS
MIKE SCHNEIDER — 9:00AM - 9:30AM
Chief Environmental Officer, and VP of Operations & Sustainability, San Diego Gas & Electric (SDG&E), & Southern California Gas Co. (SoCalGas)

US EPA AIR PROGRAMS UPDATE
REID HARVEY — 9:30AM - 10:00AM
Director, Clean Air Markets, Office of Air Programs, U.S. Environmental Protection Agency

CURRENT ACTIVITIES OF THE DOE OFFICE OF COAL & CARBON MANAGEMENT
Joseph Giove III — 10:00AM - 10:30AM
Director of Coal Business Operations, U.S. Department of Energy

ADVANCED CLEAN CAR AND ZERO EMISSION VEHICLE PROGRAMS
Analisa Bevan — 10:30AM - 11:00AM
Assistant Division Chief, ECARS, California Air Resources Board

HIGHLIGHTS OF EUEC2018 AND CLEAN CAR EXPO
DR. PRABHU DAYAL — 11:00AM - 11:30AM
Chairman | EUEC

SPEAKER FORMAT
- All speakers limited to 20 minutes using PowerPoint
- Speakers introduces themselves. Two speakers serve as co-chairs
- Each session is 2 hours long with 6 speakers.

MISSION STATEMENT
EUEC facilitates information exchange and fosters cooperation between industry, government, and regulators for the protection of our environment and energy security.
In the 21 year history of EUCC, 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.
A6. PERMITS & COMPLIANCE

A6.1 THE PIECENEAL APPROACH TO THE CLIMATE REGULATION PUZZLE
Megan Berge, Partner, Baker Botts LLP

A6.2 STRATEGIC ANALYSIS OF GHG PROGRAMS: MITIGATION AND ADAPTATION
CO-CHAIR - Jesse Frederick, Vice President, WZI, Inc.

A6.3 CHALLENGES WITH PERMITTING FOR INCREASED CAPACITY
Mary Hauner-Davis, Manager, Air/Noise Department, Burns & McDonnell Engineering

A6.4 PERMITTING COMBINED CYCLE COMBUSTION TURBINES - THEN AND NOW
J. Dwain Kincaid, Senior Consultant, Air Quality Services, LLC

A6.5 WINGING IT - CONFUSION AND COMPLIANCE WITH NESTING BIRD REGULATIONS
SESSION SPONSOR & CO-CHAIR - David Lee, Sr. Biologist, Davey Resource Group

A6.6 MINIMIZING ENVIRONMENTAL RISKS ON TRANSMISSION LINE PROJECTS
Claire Kwiatkowski, Environmental Associate, Sargent & Lundy

A7. AIR PROGRAMS & PERMITTING

A7.1 SCE SANTA BARBARA EM. GENERATOR PROJECT - PART 1: SITING & PERMITTING
CO-CHAIR - Michelle Nuttall, Sr. Project Manager, Southern California Edison; Sara Head, Yorke Eng.

A7.2 SCE SANTA BARBARA EMERGENCY GENERATOR PROJECT - PART 2: PROPOSITION 65
Sara Head, Principal Scientist, Yorke Engineering; Michelle Nuttall, Southern Cali. Edison

A7.3 PERMITTING CHALLENGES FOR RICE GENERATION TO SUPPLEMENT RENEWABLE ENERGY SOURCES
Mary Kaplan, Air Quality Meteorologist, AECOM; Chris Warren and Robert Paine

A7.4 BEST PERMITTING PRACTICES - A MAP FOR PERMITTING COMBINED CYCLE POWER
Amber Isaac, Process Engineer, APTIM

A8. REGULATORY IMPACTS

A8.1 WHAT'S IT TAKE TO CHANGE YOUR MIND IF YOU ARE THE GOVERNMENT?
CO-CHAIR - Charles Knauss, Partner, Hunton & Williams LLP

A8.2 REGULATORY DEVELOPMENTS IN THE TRUMP ADMINISTRATION
Michael Goo, Regulatory Counsel, ICAC

A8.3 2015 OZONE NAAQS – IMPLEMENTATION UPDATE AND IMPACTS
Arijit Pakrasi, Director, APTIM

A8.4 NSR OFFSETS FOR NEW POWER PROJECTS IN SOUTH COAST: COST AND AVAILABILITY
Bhaskar Chandan, AQ Analysis and Comp. Supervisor, South Coast Air Quality Mgmt.; Andrew Lee

A8.5 GAS TURBINE REGULATORY REGULATIONS AND ENFORCEMENT CASE STUDIES
CO-CHAIR - Ben Sehgal, Senior Staff Engineer, California Air Resources Board
Tuesday | 7:30AM - 9:30AM

**B3. ESP & PARTICULATE EMISSIONS**

**B3.1 THE EFFECT OF 3-PHASE POWER SUPPLY AND SMART CONTROLLER ON ESP**
Reza Sharafy, Product Manager, KraftPowercon Sweden AB

**B3.2 MORE CASE STUDIES OF THREE PHASE POWER SUPPLIES IMPROVING ESP PERFORMANCE**
John Knapik, ESP Solutions Consultant, Babcock and Wilcox

**B3.3 AGING TR SETS ON ELECTROSTATIC PRECIPITATORS - THE HIDDEN LIABILITY**
Paul Leanza, Business Development Manager, KraftPowercon; Dan Holt

**B3.4 WINTERTIME PM 2.5 COMMUNITY MONITORING – NORTH POLE ALASKA**

**CO-CHAIR** - Randall Baxter, Scientist, Information Technology, T&B Systems; David Bush, David Yoho, Kenneth Underwood

Tuesday | 10AM - 12PM

**B4. PM, CEMS, DUST EMISSIONS**

**B4.1 COROMAX FOR POWER PLANTS**

**CO-CHAIR** - Mads Krk Larsen, Global Sales Manager, FLSmidth Airtech

**B4.2 NEW GORE LOW DRAG MEMBRANE - REVERSE AIR BAGHOUSE CASE STUDY**
John Knotts, Business Development Leader, W.L. Gore and Associates

**B4.3 MONITORING LOW LEVEL DUST EMISSIONS & DETECTION OF ABATEMENT FAILURE**
Odette Ailen, Regional Manager, envea - Altech Environment U.S.A.

**B4.4 SAUDI ARAMCO’S SAOO FLARE MINIMIZATION ACHIEVEMENTS**

**CO-CHAIR** - Ahmad Al-Otaibi, Environmental Coordinator, Saudi Aramco; Ersan El-Ayubli

**B4.5 IMPROVED MEASUREMENT OF LOW PARTICULATE EMISSIONS FROM GAS TURBINES**

**CO-CHAIR** - Kevin Crosby, V.P., Technical, Montrose Air Quality Svcs; Glenn England, Ramboll-Environ

Tuesday | 1:00PM - 3:00PM

**B5. AIR QUALITY MODELING**

**B5.1 BACKGROUND VS. NEARBY SOURCES - TESTING EPA’S NEW GUIDANCE**

**CO-CHAIR** - George Schewe, Principal Meteorologist, Trinity Consultants; Brian Otten

**B5.2 SOLUTIONS TO NEW U.S. EPA MODELING REGULATIONS**
Christopher Occchipinti, Project Professional, NTH Consultants, Ltd.

**B5.3 LOW-LEVEL FUGITIVE PARTICULATE EMISSIONS IN AERMOD**
Ajit Pakrasi, Director, APTIM

**B5.4 REGIONAL HAZE RULE SECOND DECADAL REVIEW - A BUMPY ROAD AHEAD**
Robert Paine, Associate Vice President, AECOM; Jeff Connors

**B5.5 DEVELOPMENT OF IMPROVED BUILDING DOWNSWASH ALGORITHMS IN AERMOD**

**CO-CHAIR** - Sergio Guerra, Senior Environmental Engineer, CPP, Inc.; Ron Petersen

**B5.6 CHARACTERIZING PARTICULATE EMISSIONS FROM EVAPORATION POND MISTERS**
Mannie Carpenter, Sr. Engineer, Stantec Consulting Svcs; Amber Summer, Kathy Houed

Tuesday | 7:30AM - 9:30AM

**B6. MEASUREMENT TECHNOLOGIES**

**B6.1 SOLVING COMPLIANCE ISSUES USING FTIR MULTIGAS MEASUREMENT TECHNOLOGY**
Jim Cornish, Sales and Support Manager, Gasmet Technologies

**B6.2 UNDER-REPORTING OF NOX BY AS MUCH AS 80%, WITH REGULATORY APPROVAL**
Robert Muldowney, President, MonitorTech Group

**B6.3 AIR QUALITY FORECASTING AND MGMT USING MACHINE LEARNING AND IOT**

**SESSION SPONSOR & CO-CHAIR** - Neil Gerber, Director, New Energy & Environment, IBM

**B6.4 PASSING RATA WITH QUANTUM CASCADE/TUNABLE DIODE LASER ANALYZER**
David McMillen, Business Development Manager, Emerson

Wednesday | 7:30AM - 9:30AM

**B7. ADVANCED TECHNOLOGIES**

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

**B7.2 DSI SAVINGS THROUGH REAL TIME SO3/H2SO4 MEASUREMENT**

**CO-CHAIR** - Dan Kietzer, National Product Manager, SICK, Inc.; Chris Psotka

**B7.3 PEMS SYSTEM EVOLUTION TO MEET CHANGING POWER PLANT CONDITIONS**
Brian Swanson, President, CMC Solutions; Jessica Palmer and Eugene Simon

**B7.4 COST EFFECTIVE OPTICAL GAS IMAGING FOR DETECTION OF SF6**
Sat Sandhu, Thermography Services Support Manager, Fluke; Justin Sheard

**B7.5 ABB REPLACES THE DUMBBELL DESIGN OXYGEN ANALYZER**
Bruce Herman, ABB Process Analytics

**B7.6 SMART THERMAL TESTING FOR AUTOMOBILE ELECTRONICS**
John Booher, CEO, Total Temp Tech

Wednesday | 10AM - 12PM

**B8. FENCELINE MONITORING & REMOTE SENSING**

**B8.1 COMMUNITY-BASED AIR TOXICS FENCELINE MONITORING AND INITIATIVES**
Charles Lee, Ph.D., C.M, Principal Consultant, Trinity Consultants; Steve Walters

**B8.2 THE D-FENCELINE MEASUREMENT SYSTEM - ADVANCED REMOTE SENSING SOLUTION**
Glad Shpitzer, CEO, Co-Founder, Atmosfi  r Optics; Dr. Robert Kagann, Dr. Yael Etzioni

**B8.3 EMERGING OPEN-PATH/EXTRACTIVE TECHNOLOGIES AND VALIDATION TECHNIQUES**

**CO-CHAIR** - Peter Zemek, SVP - Emerging Tech., Montrose Env. Grp; Daniel Cavicchio,Jr., Chris Psotka

**B8.4 REAL TIME, LOW LEVEL VOC MONITORING IN STATIONARY AND MOBILE PLATFORMS**
LJ Sears, Technical Director, RJ Lee Group

**B8.5 A FENCE LINE STUDY OF FUGITIVE EMISSIONS USING THE DV3000**
James Matley, Global Sales Executive, Duvas Technologies Ltd.

**B8.6 LASER DISPERSION SPECTROSCOPY FOR REMOTE SENSING**
Graham Leggett, Vice President, Product Management, MIRICO; Damien Weidmann, Arun Kannath, Johnny Chu, Mohammed Belal
This Track provides presentations on Advanced Mercury Control technologies and strategies, for compliance with MATS emission limits including Hg, DSI, MATS, ACI, & Amended Silicates.
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. IOT WILL NOT DELIVER ITS POTENTIAL - UNLESS IT SOLVES THIS CHALLENGE  
CO-CHAIR: Harry Sim, CEO, Cypress Envirosystems

D2.3. COAL TO GAS CONVERSION ADVANTAGES: CASE STUDY  
Joe Brown, Head of Aftermarket Sales, MHPS

D2.4. OPERATING THE EXISTING AQCS SYSTEM AFTER NATURAL GAS CONVERSION  
Suzette Puski, Principal Business Dev. Spec., Babcock Power

D2.5. COAL TO GAS CONVERSION: BLACK-END IMPLICATIONS  
Karen Whitehead, Mechanical Engineer, Boiler & Air Quality, Black & Veatch Corporation

D2.6. OLD SMOKEY POWER - TRANSFORMING AGING POWER PLANTS  
Peter Belmonte, Vice President & Director, Power Generation, TRC
This Track provides presentations on Advanced technologies and strategies, for compliance with SO2, NOx, CO2 emission limits at coal-fired boilers. Includes SCR, DSI, and measurement and control in the cement and ash industry. Waste to Energy and Waste management.
Wednesday | 7:30AM - 4:00PM

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

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

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

TO REGISTER FOR THIS WORKSHOP
CONTACT : info@euec.com
COST $100 for EUEC registrants
### F3. RENEWABLE ENERGY & MICROGRID

**F3.1 MICROGRIDS AN EFFECTIVE INFRASTRUCTURE ALTERNATIVE**
- **CO-CHAIR** - Gregg Edeson, PA Energy Expert, PA Consulting Group
  - Co-Presenter - Jared Smith, PA Energy Expert, PA Consulting Group
- **F3.2 THE ART OF SECURING MICROGRID CONTROL SYSTEMS**
  - **CO-CHAIR** - Jim Dodenhoff, Dir. of Business Dev, IPERC, Tamer Rousan, Ameren
- **F3.3 STANFORD’S ENERGY SYSTEM LEADING BY EXAMPLE IN EMISSIONS REDUCTION**
  - Fahmida Ahmed, Director, Sustainability and Business Services, Stanford University
- **F3.4 NATURAL DISASTERS CALL US TO TRANSFORM RESILIENCE**
  - Edward Rightor
- **F3.5 BUILDING ECONOMIC CASES FOR DISTRIBUTED GENERATION & MICROGRIDS**
  - Peter Lilienthal, CEO, HOMER Energy

### F4. RENEWABLE PROJECTS & DEVELOPMENT

**F4.1 REDEVELOPMENT OF ELECTRIC UTILITY SITES - INTEGRATING RENEWABLE ENERGY**
- **CO-CHAIR** - Steven Putrich, Principal Engineer, Haley & Aldrich

**F4.2 BIRD IN THE HAND: SHOTGUNS, DEADLY OIL PITS, CUTE KITTENS & THE MBTA**
- **CO-CHAIR** - Samuel Panarella, Associate Professor of Law, University of Montana School of Law

**F3.3 THE SHOW MUST GO ON - SOLAR DEVELOPMENT IN WILDLIFE HABITAT**
- **SESSION SPONSOR** - David Lee, Sr. Biologist, Davey Resource Group

**F4.4 BIGGER MARKET THAN GRID: RE-SOURCE HYDROGEN TRANSPORTATION FUEL**
- Bill Leightly, Director, The Leighty Foundation

### F5. WIND ENERGY

**F5.1 THE GROWTH OF OFFSITE WIND & SOLAR FOR CORPORATE, MUNICIPAL & COLLEGES**
- Kevin Prince, Senior Director, NRG

**F5.2 CONTROL OF A SELF-EXCITED INDUCTION GENERATOR IN A WIND TURBINE SYSTEM**
- **CO-CHAIR** - Woonki Na, Assistant Professor, California State University, Fresno; Edward Muljadi, Auburn University; Bill Leightly, The Leighty Foundation; Jonghoon Kim, Chungnam National University, Korea

**F5.3 WIND ENERGY MARKET TRENDS AND CHALLENGES**
- Nathan Higgerson, Power Generation Project Manager, Hanson Professional Services, Inc.

**F5.4 CONVERTING WINDPLANTS TO DEDICATED, OFF-GRID HYDROGEN FUEL PRODUCT**
- **CO-CHAIR** - Bill Leightly, Director, The Leighty Foundation

### F6. SOLAR & PV

**F6.1 DEMAND CHARGE SAVINGS FROM SOLAR AND ASSOCIATED UTILITY COST SAVINGS**
- Naïm Dargouth, Sr. Scientific/Engineering Assoc., Lawrence Berkeley Nat'l Lab.; Galen Barbose, Andrew Mills, and Ryan Wiser; Pieter Gagnon and Lori Bird, NREL

**F6.2 IMPACT OF DEGRADATION RATES ON SOLAR PV PROJECT FINANCIALS**
- Matthias Gewalt, Manager of Solar Practice, Leidos Engineering

**F6.3 A RESOURCE EVALUATION MODEL FOR A SOLAR VORTEX POWER GENERATION SYSTEM**
- Amy Moore, Post Doctoral Research Assistant, Oak Ridge National Laboratory

**F6.4 ENVIRONMENTAL COMPLIANCE CASE STUDY OF A 100 MWE SOLAR POWER PLANT**
- **SESSION SPONSOR & CO-CHAIR** - Nathan Goodman, VP and Director of Environmental Compliance, The Baldwin Group

**F6.5 TRANSITION TO SOLAR OF AN INDUSTRIAL PRECINCT WITH AN EEN**
- Lio Hebert, PhD Candidate, Curtin University Sustainability Policy Institute

### 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 BEYOND BASELOAD: NuSCALE DIVERSE ENERGY PLATFORM**
- Lenka Kollar, Director, Strategy & External Relations, NuScale Power; Chris Colbert

**F7.3 GEOTHERMAL ENERGY: SHARING BEST PRACTICES FOR COMMUNITY ENGAGEMENT**
- Caitlin Smith, Senior Program Manager, United States Energy Association

**F7.4 RENEWGEO - SOLAR AUGMENTED GEOTHERMAL ENERGY**
- **CO-CHAIR** - Mark Hauenstein, Managing Partner, UC-Won

### F8. RENEWABLE ENERGY

**F8.1 PV DEGRADATION MITIGATION - A COMMERCIAL PERSPECTIVE**
- Matthias Gewalt, Manager of Solar Practice, Leidos Engineering

**F8.2 GM’S GLOBAL RENEWABLE ENERGY SOURCING BLUE PRINT**
- Rob Threlkeld, Global Manager - Renewable Energy, General Motors

**F8.3 SAN DIEGO STATE UNIVERSITY DEMONSTRATION & PROOF-OF-CONCEPT CENTER**
- John McMillan, Co-Director SD-REIN, San Diego State University

**F8.4 HOW CORPORATE PPAS ARE DRIVING RENEWABLES GROWTH**
- Scott Nyström, Director, FTI Consulting

**F8.5 PARAMETRIC ANALYSIS FOR COST-OPTIMAL RENEWABLE ENERGY INTEGRATION**
- Jin Jo, Associate Professor, Illinois State University
This Track provides 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 energy industry.

**Monday | 1PM - 3PM**

**G1. DECOMMISSIONING OF POWER PLANTS**

**G1.1 IN-PLACE RETIREMENT OF POWER PLANTS - KEY CONSIDERATIONS AND APPROACH**

*CO-CHAIR* - Jeffery Pope, Decomposition & Demolition Services Mgr., Burns & McDonnell

**G1.2 CLOSURE OF THE D-AREA CCR FACILITIES AT THE SAVANNAH RIVER SITE**

Tammy DeRamo, Technical Director, Environcon; Andrew White and Tripp Wintree

**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**

Richard Cheatham, Scientist 5, APTIM; Gene Scott, Ken Beard, Andrew Schaal

**G1.5 KCOM’S RIVERTON, KS EMPIRE DISTRICT ELECTRIC POWER PLANT IMPOSITION**

Joel Spirtas, KCOM Demolition, Commercial / Industrial Demolition and Env. Remediation

**G1.6 THE UTILITIES INDUSTRY’S GREATEST CHALLENGE RIGHT NOW - DEMOLITION!**

*CO-CHAIR* - Tim Barker, D4 Program Director, AECOM

**Monday | 3:30PM - 5:30PM**

**G2. PLANT PERFORMANCE/CHALLENGES**

**G 2.1 OPTIMIZATION OF PLANT PERFORMANCE USING MACHINE LEARNING**

Patrick Bangert, CEO, algorithmica technologies Inc.

**G2.2 DISRUPTION IN THE UNDERGROUND: INNOVATIVE UTILITY VAULT REPLACEMENT**

*CO-CHAIR* - Sean Gesell, Manufacturer’s Rep., Armorcast Products Company

**G2.3 CONNECTICUT UTILITIES TURNKEY SOLUTION TO BENCHMARKING 95% OF THE STATE**

Sheri Borrelli, Senior Business Manager, United Illuminating; Samantha Sojka, Eversource Energy

**G2.4 WIND EFFECTS ON AIR-COOLED CONDENSERS: WIND-TUNNEL 2-D FLOW FIELDS**

Ryan Parker, Project Engineer, CPP Wind Engineering

**G2.5 THE MULTI-SITE HABITAT CONSERVATION PLAN STRATEGY**

John Richter, Natural Resources Biologist, Black & Veatch Corporation

**Tuesday | 7:30AM - 9:30AM**

**G3. OPERATIONS & PLANT PERFORMANCE**

**G3.1 EFFECTIVE OPERATOR TRAINING WITH UNISIM OPERATIONS**

Pete Edwards, Vice President, Industrial Design Solutions, Inc.

**G3.2 INCREASE EFFICIENCY AND REDUCE DOWNTIME WITH DRY ICE CLEANING**

David Watson, Director, Business Development - Energy and Services, Cold Jet, LLC

**G3.3 SF6 EMISSIONS FROM GAS INSULATED SWITCHGEAR (GIS)**

*CO-CHAIR* - Yasmeen Sultanah, Principal, Stantec; Jonya Blahut

**G3.4 DRIVING CULTURAL CHANGE-OPERATIONAL EXCELLENCE THRU Ovation SIMULATION**

Rob Barden, Technical Training, Platte River Power Authority; Johel Comas

**G3.5 POWER GENERATION EXCELLENCE THROUGH DATA-DRIVEN INSIGHT**

Mark Scherfuebue, Senior Manager, Enst & Young; Pat Stiff, WEC Energy Group

**Tuesday | 1PM - 3PM**

**G4. UTILITY DATA MANAGEMENT**

**G4.1 BETTER MANAGEMENT OF THE COVERATIONS ABOUT YOUR DATA**

David Gloksi, President, xOvertime; Michael Lehane

**G4.2 CONTINUOUS COMPLIANCE MANAGEMENT FOR UTILITY OPERATIONS**

*CO-CHAIR* - Adam Jackson, Managing Consultant, Trinity Consultants; Coll Sommers, Randall Nelson

**G4.3 SPREADING AN EHS CULTURE USING SIMPLIFIED SOFTWARE AND DATA ANALYTICS**

John Niermoler, President, Perillon Software

**G4.4 HIGH-FREQUENCY DATA COLLECTION AND ENVIRONMENTAL ACCOUNTING**

*SESSION SPONSOR & CO-CHAIR* - Kevin Jurica, Senior Solution Manager , Sphera Solutions

**G4.5 LEVERAGING TOMORROW’S TECHNOLOGY FOR EHS COMPLIANCE TODAY**

James Jensen, Director - Customer Success, Enablon

**G4.6 IMPROVED ENVIRONMENTAL DATA WORKFLOWS FOR ENERGY COMPANIES**

Taylor Zielkowski, Sales Representative, EarthSoft, Inc.; Emily Mulford, Daniel Alexander, Mitch Beard, Mary Ann Parher

**Tuesday | 10AM - 12PM**

**G5. PROJECT FINANCE, RISK MGMT**

**G5.1 HEALTH RISK: KEEPING YOUR POWER PROJECT AFLOAT DURING THE EARLY STAGES**

Joseph Sabato, Senior Scientist, Epsilon Associates

**G5.2 MANAGING CONTRACTOR CHANGE WITH UPFRONT AND AGREED UPON RATES**

Brendan O’Brien, Project Engineer, Burns and McDonnell; Jeff Pope

**G5.3 A CAPITAL PROJECT RISK MANAGEMENT APPROACH**

*CO-CHAIR* - Carlos Mendizabal, President, ARETE, Lesti Del Rio

**G5.4 INVESTMENT STRATEGIES FOR ENV. MKTS UNDER CURRENT STATE OF NEW REGS**

Nedia Miller, Principal, MILLER CTA

**G5.5 HOW TO EFFECTIVELY TRANSFER ENVIRONMENTAL LIABILITIES AND POST-CLOSURE OBLIGATIONS DURING POWER PLANT DECOMMISSIONING**

Doug Willett, Executive Vice President, Environmental Liability Transfer, Inc.
**G6. OPERATIONS & OPTIMIZATION**

**G6.1 A THREE YEAR INTERNATIONAL ENERGY CHALLENGE**  
Steven Driver, Global Energy Manager, Sanofi

**G6.2 OPERATIONAL EFFICIENCY GAINS THROUGH GEOSPATIAL TECHNOLOGY ADVANCES**  
SESSION SPONSOR & CO-CHAIR - Randy Rhoads, Geospatial Industry Manager, Utilities, Harris Corporation

**G6.3 COMBINED CYCLE CYCLING - OPTIMIZING THROUGH BOP IMPROVEMENTS**  
Kyle Kropf, Engineering Manager, Power Generation Svs, Black & Veatch Corporation

**G6.4 FLUE GAS HUMIDITY MEASUREMENT BENEFITS FOR POWER PLANT APPLICATIONS**  
Jeff Bossong, COO, H2O LLC

**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

**G7.4 CREATING AN OPERATING CULTURE FOR PREDICTABLE, CONSISTENT PERFORMANCE**  
CO-CHAIR - Peter Bridle, Managing Partner, Pegasus Risk Management

**G7.5 EXECUTION MEASUREMENTS TO INCREASE SAFETY PERFORMANCE**  
CO-CHAIR - David Klucik, Director, Solutions Consulting, Sphera Solutions

**ADVISORY BOARD TRACK H**

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

**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?**  
CO-CHAIR - 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

**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, P.E., Executive Vice President, Charah, LLC

**H2.3 HOW DENSE SLURRY TECHNOLOGY CAN HELP ACHIEVE ZERO LIQUID DISCHARGE**  
CO-CHAIR - Dale Timmons, Program Manager, NAES 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 ADVANTAGES OF ZLD COMPLIANT DENSE SLURRY ASH DISPOSAL SYSTEMS (DSS)**  
Tobias Lutz, Product Manager, Putzmeister Solid Pumps GmbH; Ulli Freitag

**H2.6 RECLAIMING AND RECYCLING COAL COMBUSTION RESIDUALS FOR BENEFICIAL USE**  
CO-CHAIR - Bill Fedorka, Executive Director, Advanced Technology and Projects, SEFA
### TRACK | H | ELG, CCR, CCS & FGD

#### ROOM 8

**Tuesday | 7:30AM - 9:30AM**

**H3. CCR RULE**

**H3.1 GROUNDWATER MONITORING AT CCR FACILITIES: NEXT STEPS**
**CO-CHAIR** - Tammy Rauen, Senior Engineer, Golder Associates; Craig Schuettpelz, Todd Stong

**H3.2 CRR DATA MANAGEMENT: TOOLS TO AUTOMATE DATA COLLECTION & ANALYSIS**
Christine Lew, Manager, Environ. Software/Data Mgmt Svcs, Tetra Tech, Michael Uings

**H3.3 CCR RULE LOCATION RESTRICTION FUNDAMENTALS & STRATEGIES**
**CO-CHAIR** - Eric Nelson, Vice President, Senior Project Manager, SCS Engineers

**H3.4 SITING & DESIGN OF NEW UWLS AND GWM SYSTEMS PERSUANT 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

**H3.6 IMPLICATIONS AND STRATEGIES FOR THE CCR RULE LOCATION RESTRICTIONS**
Thomas Dehlin, Senior Engineer, Fossil Power Tech., Sargent & Lundy; David Nielson

**H4. CCR & ELG**

**H4.1 CCR INDUSTRY - BENCHMARKING THE INDUSTRY TO PREPARE FOR CHANGE**
Mark Rokoff, Vice President, AECOM

**H4.2 EVALUATION OF CCR GROUNDWATER MANAGEMENT STRATEGIES**
**CO-CHAIR** - John Hesemann, Regional Environmental Practice Mgr, Burns & McDonnell; Wayne Weber

**H4.3 LESSONS LEARNED FROM ELG COMPLIANCE PROJECTS**
**CO-CHAIR** - Kevin McDonough, Vice President of Sales and Marketing, United Conveyor Corporation

**H4.4 ENGINEERED IMPROUNMENTS TO MANAGE CCRS AND LOW VOLUME WASTEWATER**
Craig Schuettpelz, Senior Project Engineer, Golder Associates, Ryan Sheidivy, 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

**H4.6 A DETAILED OVERVIEW OF THE KLEENWATER PILOT SYSTEM FOR ELG COMPLIANCE**
Mark Pastore, VP Technology, KleenWate

**Tuesday | 10AM - 12PM**

**H5. COAL ASH, CCR & CCP**

**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, Program Manager, Senior Engineer, AECOM; Dave Skeggs, Rachel Combs

**H5.3 PROTECTING THE “CLOSED LOOP” IN WET BOTTOM ASH SYSTEMS**
**CO-CHAIR** - Paul Peigeon, Associate, Golder Associates

**H5.4 RESEARCH ON DECARBONIZATION OF FLY ASH BY TRIBOELECTRIC SEPARATOR**
Youjun Tao, Professor, China University of Mining & Technology; Ling Zhang, Zhang Weichi, Xue Yawen

**H5.5 A CLOSURE IN-PLACE SUCCESS, WHILE FACILITATING FUTURE SOLAR FACILITY**
Jason Filarek, Senior Associate, Sargent & Lundy; David Jolivet, Sargent & Lundy; William Sklitskzy, Jeffery Maxted, Alliant Energy

**H5.6 MICROWAVE-ASSISTED RECOVERY OF REES FROM COAL COMBUSTION PRODUCTS**
Megan Macala, Research Scientist, AECOM; Elliot Roth, AECOM; Tracy Bank, AECOM; Philip Tinker, AECOM; Brett Howard, U.S. Dept. of Energy NETL; Evan Granite, U.S. Dept. of Energy NETL

**Wednesday | 7:30AM - 9:30AM**

**H6. FGD, ELG & CCR**

**H6.1 ADVANCES IN NON-BIOLOGICAL POWER WASTEWATER TREATMENT**
Charles McClaskey, Industrial Wastewater Business Manager, Evqua Water Technologies

**H6.2 BOTTOM ASH OPTIONS FOR ELG AND CCR COMPLIANCE**
**CO-CHAIR** - Gerald Long, Manager, North America, United Conveyor Corporation

**H6.3 RESPONSIBLE MANAGEMENT OF FGD BYPRODUCTS**
**CO-CHAIR** - Keith Ambrose, Chemical Engineer, Duke Energy

**H6.4 OPTIMIZING FGD SYSTEMS FOR MERCURY CONTROL AND ELG WASTEWATER**
Gary Bythe, Principal Process Engineer, AECOM; Katherine Dombrowski

**H6.5 AN INNOVATIVE FINAL CLOSURE AND REVETMENT TECHNOLOGY FOR CCR**
Paul O’Malley, Vice President, Sales, Watershed Geo

**H7. CCS**

**H7.1 POLICY PARITY FOR CARBON CAPTURE**
**CO-CHAIR** - Heather Greenley, Program Coordinator, USEA

**H7.2 THE U.S. DEPARTMENT OF ENERGY’S MAJOR CCS DEMONSTRATION PROJECTS**
**CO-CHAIR** - Thomas Sarkus, Industrial Partnerships Manager, National Energy Technology Laboratory

**H7.3 A METHOD FOR PREDICTING CCR LANDFILL LEACHATE GENERATION VOLUME**
Cedric Ruhl, Senior Engineer, Wood Group PLC.

**H7.4 FTIR MONITORING SYSTEM PROVIDES TIGHTER CONTROL ON EMISSIONS FROM C**
Jim Cornish, Sales & Support Manager, Gasmet Technologies

**H7.5 IMPROVED ECONOMICS FOR CARBON CAPTURE RETROFITS AT EXISTING PC PLANTS**
Robert James, General Engineer, US DOE NETL; Eric Grol, Jeff Hoffmann, Travis Shultz, US DOE NETL; Eric Lewis, Leidos

**H8. RARE EARTH ELEMENTS**

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

**H8.2 TEA OF BIOLOGICAL PROCESS FOR RRO RECOVERY FROM END-OF-LIFE MATERIALS**

**H8.3 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

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

**H8.5 RECOVERY OF RARE EARTH ELEMENTS FROM NORTH DAKOTA LIGNITE COAL**
Daniel Ludaal, Manager-Major Projects, Inst. for Energy Studies, University of North Dakota;
This Track provides presentations on current technologies and strategies, concerning water and wastewater management, including 316 (b), cooling towers, FGD, ZLD, coal ash, and remediation in the energy industry.

Monday | 1 PM - 3 PM

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
CO-CHAIR - David Thal, Principal Chemist, Environmental Standards, Inc.; Vitale, Gable, Dicken, Martin

11.3 A PROMISING ASH POND WATER TREATMENT METHOD UTILIZING FLYASH
Lisa Andrews, Environmental Engineer and Tom Radue, Vice President, Barr Engineering; Jeong-Yun Won, Barr Engineering; Maggie Skelton, Minnesota Power

11.4 EFFECTIVE CLARIFICATION TO MEET TIGHT TRACE METAL LIMITS
SESSION SPONSOR & CO-CHAIR - Dennis Fink, Water for Power Lead, Jacobs; Thomas E. Higgins and Mary McCloud

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

Tuesday | 10AM - 12PM

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 SELENIUM: HOW SULFUR’S LITTLE BROTHER COULD AFFECT WASTEWATER TREATMENT
CO-CHAIR - Nick Nelson, Vice President, Barr Engineering

14.3 ENTRAINMENT STUDIES AT THE ALLIANT EDGewater GENERATING STATION ON LAKE MICHIGAN
CO-CHAIR - Christopher Wiggins, Sr. Aquatic Scientist, Burns & McDonnell

Friday | 1PM - 3PM

15. FGD WASTEWATER & ELG

15.1 PILOTING FOR SUCCESS
Krystal Perez, Industrial Water-Power Practice Lead, Jacobs; Tim Harrison, Heyward Suber; Jeffrey Tudini

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

15.3 NEW NANO-FILTRATION TECHNOLOGY FOR TREATMENT OF FGD WASTEWATER TO MEET ELG
Jonathan Chen, Process Consultant, BKT

15.4 FGD WASTEWATER TREATMENT
Mike Preston, Industrial Water Treatment Section Leader, Black & Veatch

15.5 INTEGRATED APPROACH TO PLANT WATER AND ELG
SESSION SPONSOR & CO-CHAIR - Tim Dougherty, President - Environmental, Babcock Power Generation

15.6 CUSTOM FIBERGLASS REINFORCED PLASTIC PIPING APPLICATIONS IN WET FGD SLURRY AND WASTEWATER PROCESSING
Kira Kokeps, Sales & Business Development Manager, RPS Composites
16. 316(b), ELG, WASTEWATER
16.1 LOW VOLUME WASTEWATERS: COLLECTING DATA FOR CRITICAL DECISIONS
CO-CHAIR - Karen Burchardt, Associate Environ, Engineer, Burns and McDonnell, Douglas Randall

16.2 REAL TIME ORGANIC DISCHARGE CONTROL FOR FGD WASTEWATER
Amanda Scott, Industrial & Environmental Mgr, SUEZ - Water Technologies & Solutions

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

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

16.5 LARGE DIAMETER FRP EQUIPMENT FOR CORROSION RESISTANT SERVICE
Tom Rhone, Regional Sales Manager, Ershigs, Inc., Denali Companies

Wednesday | 7:30AM - 9:30AM
17. 316(b), COOLING & WASTEWATER
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/B12WO6/RGO UNDER-VISIBLE LIGHT
Shou-Heng Liu, Professor, National Cheng Kung University

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

Wednesday | 10AM - 12PM
18. WATER SUPPLY & SECURITY
18.1 SPECIAL TOXICOLOGICAL CONSIDERATIONS FOR CCR CONSTITUENTS
CO-CHAIR - Lisa Bradley, Principal Toxicologist, Haley & Aldrich

18.2 IT’S NOT JUST WATER – THE SCIENCE AND IMPORTANCE BEHIND COLLECTING REP
CO-CHAIR - 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 Dalinowski

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

Monday | 1PM - 3PM
J1. EV CHARGING HYBRID & FLEETS
J1.1 HYBRIDIZATION OF COMMuter PASSENGER RAIL
Dave Cook, CTO, Rail Propulsion Systems

J1.2 ELECTRIFYING FLEETS: CAN IT BE DONE?
CO-CHAIR - Glenn Carver, VP of Sales, Green4U Technologies, Inc.; Tim Echols, State of Georgia

CO-CHAIR

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

J1.6 DRIVE ON SUNSHINE WITH ENVISION SOLAR’S EV ARC
Lucia Asbury, Marketing Manager, Envision Solar

Monday | 3:30PM - 5:30PM
J2. BATTERY, ENERGY STORAGE & TRANSPORTATION
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
CO-CHAIR - Michael Bullock, Transportation Advisor, Evolved Wireless, Inc.

J2.3 OPTIMIZING POWER PLANTS USING ENERGY STORAGE SYSTEMS
Dalia El Tawy, Director, Thermal Power Solutions, Siemens Energy Inc.

J2.4 LITHIUM ION BATTERY SAFETY MONITORING
Steve Cummings, Sr. Applications Engineer, Nexceris; Nick Frank, Scott Swartz, William Dawson

J2.5 ROLLING ENERGY STORAGE-ELECTRIC VEHICLES CHARGING
Kevin Wood, Transportation Specialist, Center for Sustainable Energy

J2.6 HIGH UTILIZATION LOCAL ACCESS, (HULA) DEPLOYING THE TRANSPORTATION AS A SERVICE MODEL
Peder Norby, and Angus Clark, CEO HulaCar

J2.7 ELECTRIFYING THE FUTURE: ELECTRIC VEHICLE CHARGING INFRASTRUCTURE
Nicole Lewandowski, Sales Manager, SemiConnect
J3. ENERGY 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
Co-Chair - Max Hentron, CEO, Lumina Decision Systems; Kimberly Mullins

J3.4 RECENT ENERGY STORAGE PROJECTS COMPLETED AT SOUTHERN CALIF. EDISON
Jennifer Lee, Principal Manager, Emerging Technology & Valuation (ET&V), Southern California Edison

J3.5 PLANNING FOR INTELLIGENT DISPATCH OF ESS
John H. Holmes, Industry Alliance Officer, University of California San Diego

J3.6 SOLAR BATTERY PACK - DEMAND SIDE MANAGEMENT PROGRAM
Jimmy Kim, CEO, SolarBox®, Irvine, Ca

J4. BATTERY PACK DSM GRID & STORAGE

J4.1 CHALLENGES IN LIB MATERIAL DEVELOPMENT FOR ENERGY STORAGE APPLICATIONS
Co-Chair - Dee Strand, Chief Technical Officer, Wildcat Discovery Technologies

J4.2 OPERATIONAL CHANGES ON LIFE AND PERFORMANCE
Taylor Kelly, Director of Energy Storage, Intertek

J4.3 MODELING AND EVALUATING HYBRID SOLAR-HYDROGEN FUEL CELLS
Ehsan Kamel, Assistant Professor, New York Institute of Technology; Nicolas Vizcaino

J4.4 DEPLOYMENT OF EOS' ZNYTH BATTERY & REAPING ECONOMIC BENEFITS IN CA
Philippe Bouchardt, SVP, Business Development & Marketing, Eos Energy Storage

J4.5 EV CHARGING STATIONS IN SAN DIEGO BUILDINGS
David Gatcha, Relations Ambassador/Multifamily Properties, Verdani Partners

J4.6 TESLA POWER WALL - FEASIBILITY WITH DEMAND CHANGES
John Perkins, Perk Solar

J5. EV, STORAGE & ONSITE POWER

J5.1 MAINTAINING SYSTEM VOLTAGE WITH BATTERY STORAGE
Ashley Johnson, Business Development Director, GP Strategies; Gary Tindall, AES Corporation; Craig Dalziel

J5.2 ENERGY GENERATION AND STORAGE USING FLOATING PV PLANT ON LAKE MEAD
Co-Chair - Ehsan Kamel, Assistant Professor, New York Institute of Technology; Peter Baron

J5.3 TRUE LONG DURATION ENERGY STORAGE
Matthew Barnett, Business Development Director, Highview Power

J5.4 C-FREE HYDROGEN FUEL EFFICIENCY STORED AND DELIVERED FOR TRANSPORT
Bill Leightly, Director, The Leighty Foundation; Jack Swearengen, David White, Matthew Kern, WindToGreen, LLC

J5.5 LINKER-CONTROLLED POLYMERIC PHOTOCATALYST FOR HIGHLY EFFICIENT HYDROGEN
Yiou Wang, PhD Student, University College London

J5.6 ENABLING LARGE SCALE RENEWABLES IN THE WESTERN U.S.
Robert Schulte, Principal, Schulte Associates; Fredric Fletcher

J6. ENERGY STORAGE TECHNOLOGIES

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

J6.2 LIFE AND SAFETY OF LITHIUM-ION
Taylor Kelly, Director of Energy Storage, Intertek

J6.3 ENERGY STORAGE AT GROUNDWATER BANKS
Mark Beuhler, General Manager, Willow Springs Water Bank; Lon W. House, Water and Energy Consulting

J6.4 HYDROGEN AS ENERGY STORAGE MEDIUM AND FUEL FOR SIGT
Joshua Partheepan, Assistant Professor, West Texas A&M University, Emily Hunt

J6.5 ECONOMIC DISPATCH OF LIQUID AIR POWER & STORAGE
William Conlon, President, Pintail Power LLC;

J6.6 INCREASE GRID RESILIENCY AND COMBAT EXPENSIVE PEAK DEMAND CHARGES
Carl Mansfield, General Manager & Founder, Sharp’s Energy Systems and Services Group

Workshop 3 - Room 3:
Fundamentals and Practical Aspects of Waste Heat Recovery
Wednesday March 7, 2018 (7:30 to 4 pm)

Clement Joly, SoftInWay
Email: Clement.joly@Softinway.com
Phone: 316-680-0839

This workshop will provide engineers working in the energy and utility space with a better understanding of what waste heat recovery systems are in the context of nuclear, fossil and renewable energies. The workshop will cover everything from assessment, opportunities, development and challenges for waste to energy processes to fluid properties and selection while diving into thermodynamic cycles and design of waste heat recovery system components using both theoretical and real-life examples.

TO REGISTER FOR THIS WORKSHOP
CONTACT : info@euec.com
COST $300 for EUEC registrants
EXHIBIT BOOTH & SPEAKER PACKAGE ($5,000)
1. One 10' x 8' exhibit booth, 6' table, 2 chairs, waste basket & carpet
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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
Booth Number - Exhibiting Companies

385 ABB, Inc. 560 Menck 360 PowerGen
347 ADA Carbon Solutions 553 Enablon 361 Progress Solar
374 ADA-ES 583 Envirotech 362 Redox Solutions
498 Advanced Test Equipment 563 Environ. Energy Svs. (EES) 672 ResinTech
441 AECOM, Inc. 466 Environmental Supply Co. 367 SEFA Group, Inc, The
555 Air Hygiene 470 Environmental Systems (ESC)
686 Air Quality Services 541 ERM
562 Airgas 480 Eurofins Frontier Global
556 Albermarle 585 FireSky Solutions
499 AMP Cherokee 353 FL Smidth
388 Apex Instruments 554 Fluke Corporation
552 APTIM 662 Frontier Water Systems
575 Aqua Metrology Systems 645 Gasmet
475 Arete 699 GPRS
454 Ashland Performance Mats 657 Gridless Power
373 Atmosfis Optics 687 Hanby Env. / OMG Solutions
459 Axetris AG 376 Hi-Q Environmental Products
358 Babcock Power 681 Homer Energy
574 BKT 566 Hydrolox
656 Black & Veatch 593 ILC Dover
476 Blair, Church & Flynn 654 Industrial Design Solutions
700 Blume Distillation 677 Inst. of Clean Air Comp. (ICAC)
668 Boyer Trucks 375 Insul-tex
659 Brad Thompson Company 640 Int'l Cooling Tower (ICT)
377 Buhrler Technologies 489 JCT
559 Building Crafts, Inc 458 Jiangnan Environmental
481 Burns & McDonnell 674 Juize
440 Calgon Carbon 389 Kraft Powercon
651 California Analytical Corp. 673 Krishnan & Assoc
540 Carbonxt, Inc. 584 Leidos
692 CEM Service Group, Inc. 690 M & C Tech Group NA
652 Cemtek Environmental, Inc. 363 Manta Robotics, LLC
697 Chaotic Water 573 McAuley & Associates
359 Charah, Inc. 473 Midwest Energy Emissions
568 CISCO 469 Mississippi Lime Company
382 Clayborn Lab 642 Montrose Environmental
588 Clean Harbors 486 NAES
694 CMC Solutions 477 Nexus Solutions, Inc.
487 Cooper Environmental 567 Novinda
383 DEWEsoft 693 NuScale
695 DR DAS LTD 462 Ohio Lumex
381 DSG Solutions 482 P S Analytical
576 Durag, Inc. 676 Perillon
647 EarthSoft 599 Perma Pure
680 Eisenmann 369 Pine
356 Electro Industries/GaugeTech 581 Polystar Containment
698 Elemental Air 372 Power-Gen
589 Emerald Transformer 580 Praxair
546 Progress Solar 457 Red Ball Technical Gas
362 Redox Solutions 472 Siemens Industry, Inc.
467 Signature Systems Group 671 Slick Sleuth (InterOcean)
488 SNEI Biological 685 SoftinWay
495 SOLUM Air Solutions 587 Sphera Solutions
386 Springer 595 Stantec Consulting
456 STM Ecosystems 586 Suez
468 Sunbelt Rentals 543 Technical Heaters, Inc.
658 Teledyne APO 683 Teledyne Monitor Labs
557 Tetra Tech, Inc. 582 Thermo Scientific
577 Tiger Optics, LLC. 357 Trachte LLC
452 TRC Companies, Inc. 456 TSI, Inc.
572 Trinity Consultants 341 U.S. DOE, Office Clean Coal
591 United Convoyer Corp. 648 Universal Analyzers, Inc.
596 University of Tulsa, The 485 Wood
484 W.L. Gore & Associates 688 Work Saver Systems
355 Watershed geo 643 Wunderlich-Malec
488 Wood 684 Xenon, Inc.
387 xOverTime 387 xOverTime

CLEAN CAR EXPO EUEC2018

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Tue. 3/6 - 6 pm to 9 pm 9 am to 6 pm
Wed. 3/7/18 9 am to 12 pm

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Workshop 1 - Room 5A
Permitting & Compliance
Sunday March 4, 2018 (1 pm to 4:30 pm)
Eric Hiser, Jorden, Hiser & Joy, PLC
Phone: 480-505-3927
Email: ehiser@jordenbischoff.com
This seminar will provide participants with critical information on new developments in clean air regulation, including recent developments in NAAQS, new source review, and NESHAP applicability. The seminar will also address current EPA enforcement priorities, and newly released guidance on EPA and state authority enforcement rules, planning and preparing for an inspection, and using the permit process to minimize your enforcement exposure.

Workshop 2 - Room 5B
Air Quality Modelling Challenges
Sunday March 4, 2018 (1 pm to 4:00 pm)
Robert Paine, CCM, QEP (AECOM)
Email: bob.paine@aecom.com
Phone: 978-905-2352
This workshop will thoroughly review the latest developments, on AERMOD as well as new refined modeling approaches such as: Urban dispersion for large industrial areas, Consideration of moist plume thermodynamics (AERMOIST), Consideration of infrequent high emission conditions in probabilistic modeling, Updates to NO2 modeling, low wind speed approaches in modeling, ozone and PM 2.5, precursor emissions.

Workshop 3 - Room 3:
Fundamentals and Practical Aspects of Waste Heat Recovery
Wednesday March 7, 2018 (7:30 to 4 pm)
Clement Joly, SoftInWay
Email: Clement.Joly@Softinway.com
Phone: 316-680-0839
This workshop will provide engineers working in the energy and utility space with a better understanding of what waste heat recovery systems are in the context of nuclear, fossil and renewable energies. The workshop will cover everything from assessment, opportunities, development and challenges for waste to energy processes to fluid properties and selection while diving into thermodynamic cycles and design of waste heat recovery system components using both theoretical and real-life examples.

Workshop 4 - Room 5A
ESC | StackVision New User Mini (1-Day) Training
Wednesday March 7, 2018 (7:30 to 4 pm)
Danny Hintzman, ESC dhintzman@envirosys.com
Email: jbrooks@envirosys.com with questions
Phone: 512-250-7837, (512) 250-7952
This workshop will provide participants with a greater understanding of ESC’s StackVision software. Topics will include: Using CEMScape, CalGas Management, Using StackVision Reports & Creating Linked Reports, Using Filters and Summaries, Data Controller Essentials and an Introduction to StackStudio.

Workshop 5 - Room 11
Digital Marketing & Business Development Techniques
Wednesday March 7, 2018 (8 am to 12 pm)
Ravi Krishnan, Krishnan & Associates
Email: loredana@krishnaninc.com
Phone: 203-921-1800

Workshop 6 - Room 11A
Operational Risk - Outage Restoration
Wednesday March 7, 2018 (12 pm to 4 pm)
Peter V. Bridle, Pegasus Risk Management LLC
Email: pbridle@pegasusriskmanagement.com
Phone: 832-589-6425
Energy and Utility companies need to restore services during extended outages, ted events. This 4 hr. workshop has provided Operations Managers, Line Managers and EHS professionals with practical insights, tools and techniques to transform outage restoration to achieve a step change in operating and EHS performance.

Tour of Solar Turbines Facility
Wednesday March 7, 2018 (8 am to 12 pm)
Chris Lyons, Solar Turbines
Phone: (619) 322-6054
email: info@euec.com
Tour of Solar Turbines Manufacturing and packaging facility in San Diego, CA. Solar Turbines Incorporated, a subsidiary of Caterpillar is a leading producer of industrial gas turbines and turbomachinery products in the 1 to 22 MW (1590 to 30000 HP) range. Solar designs and manufacturers compressor sets, mechanical drive packages and generators. This site will also allow visitors to see Solar’s new 1 MWh energy storage system, and microgrid controller. Transportation provided by EV Ride Share BOUNCE
1. One Page Advertisement In Show Guide – $1,000
   Its not too late to print a one page Pdf color advertisement in the EUEC Program Guide. Email a 6” x 9.5” (1/4” bleed) CMYK color pdf file to info@euec.com by February 15th.

   The Show Guide is the official, up-to-date information on the EUEC event. One page color Advertisement distributed to 1,700 delegates, is continuously referenced multiple times a day by all attendees. You can have your logo included or do two facing page ads.

2. Session Sponsor receive Attendee list – $500 per session
   As a Session Sponsor you receive the full contact information of all attendees to your session. The cost is $500. You may also Co-chair the session you are speaking, with your company logo prominently advertised among the leading experts in the industry.

3. Advertisement in ENERGYNews – $500 per issue (50,000 distribution)
   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, with Company Logo and information – $3,000 (SOLD)
   An excellent opportunity to market to every one of the attendees at the sign-in table with logo placement on lanyards of the attendee name badge holders, with your information.

5. Back Packs with Company Brochure & Information Stuffed – $3,000
   An excellent opportunity to market with your company brochure, and other material, stuffed in EUEC Backpack provided to every one of the 1,500 attendees at the sign-in table. Mail to receive by Feb 23rd.

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 – $5,000
   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 each event
   As a Network Reception sponsor you will have your name and logo in front of 1,500 conference attendees, and on each meal ticket.

9. COFFEE Break Sponsorship – $3,000 each event – Monday (SOLD) – $3,000 each event –
   As a Network Reception sponsor you will have your name and logo in front of 1,500 conference attendees, and on each meal ticket.