



CAMPUS ENERGY 2017

February 20-24 | Hyatt Regency Miami | Miami, FL

Preliminary Program – 2/10/17
TIMES AND CONTENT SUBJECT TO CHANGE

Monday, February 20

| | |
|--------------------|--|
| 11:00 am – 6:30 pm | Registration Open – Tuttle & Monroe |
| 10:00 am – 1:00 pm | CLOSED MEETING – IDEA Executive Committee Meeting & Lunch – Orchid AB |
| 12:00 pm – 5:00 pm | CLOSED MEETING – IDEA Board of Directors Meeting & Lunch – Japengo |
| 1:00 pm – 5:00 pm | Thermal Distribution Workshop – Separate registration fee required. Please see separate program for detailed content – Jasmine/Hibiscus |
| 5:00 pm – 6:30 pm | Cocktail Reception – For all Workshop participants and the IDEA Board of Directors – Riverwalk Terrace |

Tuesday, February 21

| | |
|--------------------|--|
| 7:00 am – 6:30 pm | Registration Open – Tuttle & Monroe |
| 7:00 am – 8:00 am | Breakfast – For all Workshop participants – Orchid |
| 8:00 am – 5:00 pm | Thermal Distribution Workshop (continued) – Separate registration fee required. Please see separate program for detailed content – Jasmine/Hibiscus |
| 8:00 am – 5:00 pm | Microgrid Workshop – Separate registration fee required. Please see separate program for detailed content – Ashe Auditorium |
| 12:00 pm – 4:00 pm | Exhibitor Table Set Up – Riverfront Hall |
| 12:00 pm – 1:00 pm | Lunch – For all Workshop participants – Orchid |
| 5:00 pm – 6:30 pm | Opening Cocktail Reception with Business Partner Exhibitors – Riverfront Hall |

Wednesday, February 22

| | |
|-------------------|---|
| 7:00 am – 7:00 pm | Registration Open – Tuttle & Monroe |
| 7:00 am – 8:00 am | Continental Breakfast with Business Partner Exhibitors – Riverfront Hall |
| 7:15 am – 7:45 am | Speaker Orientation Meeting – Orchid AB |

| | | | | |
|---------------------|--|--|---|--|
| 8:15 am – 8:30 am | Opening Session – Regency Ballroom Introductions – <i>Rob Thornton, IDEA President & CEO</i> Welcome to IDEA – <i>Tim Griffin, IDEA Chair</i> | | | |
| 8:30 am – 9:30 am | Panel Discussion: A Sustainable Future – Regency Ballroom Experienced campus energy professionals share insights and strategies for a more sustainable campus. Invited Panelists: Abbe Bjorklund, Director of Engineering and Utilities, Dartmouth College Alan Daeke, Director of Utilities & Engineering, North Carolina State University Gregg Coffin, Director, Energy Management, University of Missouri Bob Manning, Director of Engineering & Utilities, Harvard University Ken Packard, Director of Utilities, Massachusetts Institute of Technology David Woodson, Managing Director, Energy and Water Services, University of British Columbia Jeff Zumwalt, Director of Utilities and Energy Management, University of Kentucky | | | |
| 9:30 am – 9:50 am | What's on Your Mind? – Regency Ballroom An interactive discussion style session with IDEA campus energy leaders. | | | |
| | 1A – Master Planning & System Upgrades <i>ASHE Auditorium</i> <i>Moderator: Scott Clark, Burns & McDonnell</i> | 1B – CHP <i>Main Lecture Hall</i> <i>Moderator: Tim Peer, Bond Brothers</i> | 1C – Pathways to De-Carbonizing, Zero Carbon & Carbon Neutrality <i>Jasmine</i> <i>Moderator: Bob Smith, RMF Engineering</i> | 1D – District Hot Water Systems <i>Hibiscus</i> <i>Moderator: Richard Damecour, FVB Energy</i> |
| 10:00 am – 10:30 am | Dynamic Utility Master Planning: Savings for Now and the Future - <i>Ben Dombrowski, Jacobs Engineering Group</i> | How a Second Look at Your CHP Can Save You Significant Headaches - <i>Joanna Pyun, Vanderweil; Rick Pretzman, Arizona State University</i> | The Path to a Sustainable Future Meets Reality - <i>David Goetz, Burns & McDonnell; Paul Moser, Pennsylvania State University</i> | Regional Heating Water Plant Applications and Benefits in Georgia and North Carolina Campuses - <i>Brian Mitchell, Duke University; Gregory Carnathan & Chase Davis, RMF Engineering</i> |
| 10:30 am – 11:00 am | Utility Master Planning at the University of Pennsylvania - <i>Michael Walton, Burns Engineering; Ben Suplick, University of Pennsylvania; Jason Trefz, Trefz Engineering</i> | Gainesville Regional Utilities: Reciprocating Engine CHP – <i>John Lee, Burns & McDonnell; Chuck Heidt & Jamie Verschage, Gainesville Regional Utilities</i> | Planning for a Carbon Neutral Campus - <i>Meghan Riesterer, Oberlin College; Michael Ahern, Ever-Green Energy</i> | Assessment and Upgrade of High Temperature Hot Water Systems at Dulles and JFK Airports and SUNY Stony Brook - <i>Bruno Fiorentino, Burns Engineering</i> |
| 11:00 am – 11:45 am | Refreshment Break with Business Partner Exhibitors – Riverfront Hall | | | |
| | Poster Exhibits – Riverfront Hall Presenters will be available by their posters to answer questions | | | |

| | 2A – Master Planning & System Upgrades (contd.) <i>ASHE Auditorium</i> <i>Moderator: Mike Dempsey, Burns & McDonnell</i> | 2B – CHP (contd.) <i>Main Lecture Hall</i> <i>Moderator: Joe Sullivan, Concord Engineering</i> | 2C – Pathways to De-Carbonizing, Zero Carbon & Carbon Neutrality (contd.) <i>Jasmine</i> <i>Moderator: Bill Liegois, Stanley Consultants</i> | 2D – District Hot Water Systems (contd.) <i>Hibiscus</i> <i>Moderator: Pernille Overbye, Ramboll</i> |
|---------------------|---|--|--|--|
| 11:45 am – 12:15 pm | Electrical System Master Plan for the University of Rochester - <i>Kevin Fuller, CHA Consulting; Richard Gardner, University of Rochester</i> | CHP Improving Reliability & Resiliency in University Campuses - <i>Dalia El Tawy, Siemens Energy</i> | Decarbonizing District Energy with Renewable Fuel Oil - <i>Lee Torrens, Ensyn Fuels</i> | Experiences Building a European Style Hot Water Campus District Energy System in North America - <i>John Rathbone, Ramboll; Herb Sinnock & Katherine Rinas, Sheridan College</i> |
| 12:15 pm – 12:45 pm | University of Illinois Utility Master Plan and Dispatch Model – <i>Mike Larson, University of Illinois; Andrew Price, Affiliated Engineers</i> | Combined Heat and Power for Military Installations – <i>Michael Calabrese, Burns Engineering</i> | UCSF Mission Bay - Can CHP Be Used as a Tool to Tackle Carbon-Neutrality Goals? – <i>Bryce MacMartin, Vanderweil</i> | Low Temperature Thermal Networks: Domestic Hot Water Production - <i>Jeffrey Flannery, Danfoss</i> |
| 12:45 pm – 1:45 pm | Campus Energy Networking Luncheon – Regency Ballroom | | | |
| 1:45 pm – 2:30 pm | Dessert & Coffee with Business Partner Exhibitors – Riverfront Hall | | | |
| | Poster Exhibits – Riverfront Hall Presenters will be available by their posters to answer questions | | | |
| | 3A – Master Planning & System Upgrades (contd.) <i>ASHE Auditorium</i> <i>Moderator: Patti Wilson, Affiliated Engineers</i> | 3B – CHP (contd.) <i>Main Lecture Hall</i> <i>Moderator: Chris Lyons, Solar Turbines</i> | 3C – Panel: Insourcing vs Outsourcing & the Utility Business <i>Jasmine</i> <i>Moderator: Jim Sebesta, FVB Energy</i> | 3D – Energy Management & Integration of Renewables <i>Hibiscus</i> <i>Moderator: Henry Johnstone, GLHN Architects and Engineers</i> |
| 2:30 pm – 3:00 pm | Equipment Upgrades in a Space-Constrained Plant: University of Rochester Boiler Installation - <i>Shane Taylor, Segal; Richard Gardner, University of Rochester</i> | Cogeneration/Gas Turbine Generator Design-Build – <i>Marc Donovan, Union College; Aaron Bolhous, CHA Consulting</i> | Campus utility directors will provide insights on what approaches they find useful in looking at their utility as a business. Panelists will discuss the challenges of insourcing versus outsourcing & what information enables good decision making & being effective at running the utilities enterprise. Panelists: Joan Kowal, Emory University Juan Ontiveros, University of Texas at Austin Erick VanMeter, University of Minnesota David Woodson, University of British Columbia | Integration of Large Scale Solar Thermal Systems with District Energy Systems – <i>Michael DiPaolo, Ritter Group USA</i> |
| 3:00 pm – 3:30 pm | Delivering the Promise of Eco-Districts – <i>Tom Chadwick & Peter Falcier, GI Energy; Mike Walters, MEP Associates</i> | Combined Heat and Power for the Medium Sized Campus, A Case Study - <i>Randall Preston, Tufts University; Jane Weinzapfel, Leers Weinzapfel Associates</i> | | Active Energy Management for Central Plants: U of Arizona Case Study - <i>Mark St. Onge, University of Arizona; Phillip Saieg, McKinstry</i> |

| | | | | |
|------------------------------|--|---|---|--|
| 3:30 pm – 4:15 pm | Refreshment Break with Business Partner Exhibitors – Riverfront Hall | | | |
| | Poster Exhibits – Riverfront Hall Presenters will be available by their posters to answer questions | | | |
| | 4A – Central Plant Considerations <i>ASHE Auditorium</i> Moderator: Dan Dixon, District Energy Corporation | 4B – CHP (contd.) <i>Main Lecture Hall</i> Moderator: Tom Batten, Concord Engineering | 4C – Regulations, Permits & Codes <i>Jasmine</i> Moderator: Ben Anderson, University of Iowa | 4D – Modeling DH Systems <i>Hibiscus</i> Moderator: Kevin Porter, Thermo Systems |
| 4:15 pm – 4:45 pm | Northwestern University - Should We Move Our Central Plant? - George Howe, Affiliated Engineers; Paul Weller, Northwestern University; Caitlyn Clauson, Sasaki | Eastern Michigan University - Cogeneration Project - Ken Hedrick & Frank Gallardo, OpTerra Energy Services; John Donegan, Eastern Michigan University | Update on Codes and Guidelines Affecting U.S. District Energy Systems – Brian Wodka, RMF Engineering | Solar Thermal Optimization for District Hot Water Through Energy Modeling – Joshua Morejohn, University of California, Davis |
| 4:45 pm – 5:15 pm | Achieving Expectations: Results & Lessons Learned After First Year Operation of the UVA’s North Grounds Mechanical Plant - Justin Callihan; University of Virginia; Joe Witchger, HGA Architects & Engineers | Overrunning Clutches Increase CHP Flexibility and Reduce Operating Costs – James Berry & Randall Attix, SSS Clutch Company | CHP Minor Source Permitting – The Future is Small - Brian Petermann, Sega | “Waste” Heat Sources and Their Impact on District Heating Network Design & Project Economics – Dan Kelley, Ramboll |
| 5:15 pm – 6:30 pm | Cocktail Reception with Business Partner Exhibitors – Riverfront Hall | | | |
| 6:30 pm – 10:00 pm | Dinner Cruise – Enjoy authentic local fare and a cruise around Miami’s Biscayne Bay. Ship boards at 6:30pm | | | |
| Thursday, February 23 | | | | |
| 7:00 am – 4:00 pm | Registration Open – Tuttle & Monroe | | | |
| 7:00 am – 8:00 am | Continental Breakfast with Business Partner Exhibitors – Riverfront Hall | | | |
| 7:15 am – 7:45 am | Speaker Orientation Meeting – Orchid AB | | | |
| | 5A – Resilient Campus Networks & Central Plant Demand Side Nexus <i>ASHE Auditorium</i> Moderator: Michael Ahern, Ever-Green Energy | 5B – Innovative Operating Strategies <i>Regency Ballroom</i> Moderator: Mark Vogler, Citizens Thermal | 5C – District Cooling & CHP <i>Jasmine</i> Moderator: Chris Decker, Bond Brothers | 5D – Tools & Techniques for Systems Control & Optimization <i>Hibiscus</i> Moderator: Michael Boswell, Concord Engineering |
| 8:00 am – 8:30 am | Resiliency and Efficiency: Optimizing the Integration of a CHP into an Urban Academic Medical Campus - Adam Vesterholt & John Bartlik, New York University Medical Center | University of Virginia: Optimizing Chiller Efficiencies via Innovative Tube Fouling Prevention - Justin Callihan, University of Virginia; Michael Crocker, Innovas Technologies | Biomass Cogeneration: Demonstration to Baseload – Paul Holt, University of British Columbia | Increasing Project ROI by Optimizing Onsite Campus CHP Units via Advanced Software - Max Majkowski, Siemens; Todd Schonewille, Algonquin College |

| | | | | |
|---------------------|---|--|---|--|
| 8:30 am – 9:00 am | Building a Resilient Campus Energy Infrastructure Network - <i>Sathish Anabathula, University of Virginia; Devin Keeler, Dewberry Engineers</i> | Construction Insight: Improving Pipe Flushing for New Building Connections, Texas Campus Cases Studies - <i>Russell Buras, PurgeRite</i> | Thermally Activated Cooling Technology for District Cooling – <i>Rajesh Sinha, Thermax</i> | End to End Chilled Water Optimization at the Merck West Point Site - <i>Michael Nyhan, Merck; Travis Smith, Smith Engineering; Dan Shirley, Thermo Systems</i> |
| 9:00 am – 9:30 am | New York City Steam & Public Housing Projects: District Energy Recovery & Resilience - <i>Alan Glynn, Arup; Armand Agasian, ConEdison</i> | Demand Side Operations For Microgrid Managers at Chicago's Shedd Aquarium - <i>Drew Gravitt, Schneider Electric</i> | Hybridized Variable Speed Chilled Water Pumping Configuration Using Constant Speed Pumps - <i>Joe Witchger & Brendan Huss, HGA Architects and Engineers</i> | District Energy and the Internet of Things: Benefits of a Connected System - <i>Adam Strynadka, DeviceLynk</i> |
| 9:30 am – 10:00 am | Eliminate HVAC System Inefficiencies to Reclaim a Sustainable Future – <i>Jeff Creighton, Flow Control Industries; Jim Riley, Texas A&M University</i> | Take Control of your Hydronic Systems with Differential Pressure Control – <i>Bart Decker, IMI Hydronic Engineering</i> | Converting an Ice-Storage Plant from Ammonia to Traditional Refrigerant - <i>Ryan Richard & Greg Kronaizl, Farris Engineering; Dan Dixon, District Energy Corporation</i> | Machine Learning for Optimized Chiller Staging – <i>Ben Erpelding, Optimum Energy</i> |
| 10:00 am – 10:30 am | The Utility Plant and Demand Side Nexus - <i>Tejas Pevekar & Juan Ontiveros, The University of Texas at Austin</i> | Update on Permanent Magnet Motor Technology for Energy Savings on Cooling Tower Fans - <i>Paul Humbert, Tower Engineering</i> | Look Off-Campus for Achieving Sustainability and Resiliency Goals – <i>Jim Lodge, NRG</i> | Optimization and Ongoing Analytics of Chilled Water System, From Plant to Building Loads – <i>James Hand, University of California, San Francisco</i> |
| 10:30 am – 11:15 am | Refreshment Break with Business Partner Exhibitors – Riverfront Hall | | | |
| | Poster Exhibits – Riverfront Hall Presenters will be available by their posters to answer questions | | | |
| | 6A – Feasibility , Ownership & Financing for CHP & District Energy Projects <i>ASHE Auditorium</i> <i>Moderator: Richard Rappa, CHA Consulting</i> | 6C –Thermal Energy Storage <i>Jasmine</i> <i>Moderator: John Andrepont, The Cool Solutions Company</i> | 6D – Creative Campus Energy Solutions <i>Hibiscus</i> <i>Moderator: David Adamian, GreenerU</i> | |
| 11:15 am – 11:45 am | The CHP Value Proposition – <i>Isaac Panzarella, DOE CHP Technical Assistance Partnerships</i> | Optimizing Turbine Inlet Chilling with Thermal Energy Storage - <i>Guy Frankenfield, DN Tanks; Trey Sims, TAS</i> | Squeezing More Out of Your Existing Buildings: Moving Beyond the Low Hanging Fruit – <i>David Adamian, GreenerU</i> | |
| 11:45 am – 12:15 pm | An Update on Financial Incentives for Energy Efficiency, CHP and District Energy Projects – <i>Rod Schwass, Jacobs Engineering</i> | Community Colleges Optimizing Energy Use with Thermal Energy Storage (TES) Tanks - <i>John Strybos, Alamo Colleges</i> | District Cooling: A Heating Highway - <i>Scott McCord, University of Minnesota</i> | |
| 12:15 pm – 12:45 pm | Ownership and Financing Strategies for Campus CHP – <i>Anne Hampson, ICF</i> | Trials and Victories: Design & Operation of New CHW Plant and Second TES Tank at UT Austin - <i>Michael Manoucheri, The University of Texas at Austin; Jeffrey Easton, Burns & McDonnell</i> | Confronting Murphy's Law: Dealing with Energy Price Uncertainty in Your CHP Project – <i>Matt Haakenstad, Kinect Energy Group</i> | |
| 12:45 pm – 2:00 pm | Campus Energy Delegates Luncheon – Regency Ballroom | | | |

| | | | | | |
|-------------------|--|--|---|--|--|
| 2:00 pm – 2:45 pm | Dessert & Coffee with Business Partner Exhibitors – Riverfront Hall | | | | |
| | Poster Exhibits – Riverfront Hall Presenters will be available by their posters to answer questions | | | | |
| 3:00 pm – 6:00 pm | Exhibit Hall Tear Down – Riverfront Hall | | | | |
| | 7A – Water Management Strategies <i>ASHE Auditorium</i> <i>Moderator: Nate Cesarz, Affiliated Engineers</i> | 7B – Biomass & Clean Renewable District Heating <i>Regency Ballroom</i> <i>Moderator: Paul Holt, University of British Columbia</i> | 7C – Symposium PEER DES 2.0 <i>Jasmine</i> <i>Moderator: Tim Griffin, RMF Engineering</i> | 7D – Commissioning: Central Plants <i>Hibiscus</i> <i>Moderator: Rick Bourn, Jacobs</i> | |
| 2:45 pm – 3:15 pm | Hydronic Chemical Treatment at the Georgia Institute of Technology – <i>Casey Charepoo, Georgia Institute of Technology</i> | Design & Implementation of Modern Biomass Systems - <i>Dan Wilson, Wilson Engineering Services</i> | <ul style="list-style-type: none"> • Update on LEED/PEER DES 2.0 – <i>Tim Griffin, RMF Engineering</i> • PEER Screening Application Case Studies – <i>Courtney Yan, USGBC</i> • New PEER/LEED Interface for District Energy Systems- <i>Ken Simpson, USGBC</i> | Commissioning and the Impact on District Energy at Oberlin College - <i>Meghan Riesterer, Oberlin College; Jeremy Bartlett, RMF Engineering</i> | |
| 3:15 pm – 3:45 pm | The Hidden Variable - The True Cost of Air in Hydronic Systems – <i>Stephen Clinton, Spirotherm</i> | Future Proofing Dalhousie’s Energy Platforms for the 21st Century - <i>Darrell Boutilier & Rochelle Owen, Dalhousie University; Michael Conte, FVB Energy</i> | | Open Discussion/Q&A | Central Plant Commissioning – Realizing Your Reliability and Efficiency Goals – <i>Nicholas Rauth, Burns & McDonnell</i> |
| 3:45 pm – 4:15 pm | How to Better Control Legionella in Cooling Towers and Water Systems - <i>Thomas Muilenberg, MIOX</i> | USFS Technical Assistance Program for Modern Wood Energy Systems - <i>Dan Wilson, Wilson Engineering Services</i> | | | Central Energy Plant Commissioning: Factory Acceptance Testing of Controls – <i>Alan Miller, Affiliated Engineers</i> |
| | 8A – Innovative Partnerships <i>ASHE Auditorium</i> <i>Moderator: Nathan Ninemire, Sega</i> | 8B – Geothermal for District Energy <i>Regency Ballroom</i> <i>Moderator: Barry Beck, I.C. Thomasson Associates</i> | 8C – Thermal Networks <i>Jasmine</i> <i>Moderator: Steve Bowman, Wiley Wilson</i> | 8D – Human Machine Interfaces for High Performance <i>Hibiscus</i> <i>Moderator: Serge Zinger, Thermo Systems</i> | |
| 4:15 pm – 4:45 pm | Adversary vs. Partner: the Local Utility and the University – <i>Mitch Lampley, Vanderbilt University; Brandon Travis, Bernhard Energy</i> | Geothermal Lake Plate Cooling and Sustainability at Nashville International Airport - <i>Christine Vitt, Metropolitan Nashville Airport Authority; David Rehse, Energy Systems Group</i> | Maintaining Energy Efficiency & Extending Service life of Pre-insulated Pipes - <i>Emilio Morales, Kuraray America</i> | Deploying More Intuitive HMI Graphics in Accordance with the ISA Standards – <i>Matthew Rawson, Thermo Systems</i> | |
| 4:45 pm – 5:15 pm | District Energy Goes to Class at Mizzou – <i>Gregg Coffin, University of Missouri</i> | Deep Well Geothermal Energy in a CHP Scheme to Achieve a Net-Zero Supertall Building Campus in Jakarta - <i>Sergio Sadaba, Skidmore Owings & Merrill</i> | Zero Impact Campus Invasion for Thermal Network Conversion at Stanford University - <i>Patrick Kantor & Paul Beckman, The Whiting-Turner Contracting Co.</i> | High Performance Graphics for Improved Operator Interface at the University of Northern Iowa - <i>Dave Howell, Sega; Brent Maitland, University of Northern Iowa</i> | |
| 5:15 pm – 6:30 pm | Campus Forum Meeting – Jasmine A forum for open discussion among college and university personnel | | Business Partner Forum Meeting – Japengo A forum for manufacturers/suppliers and service providers | | |
| 6:30 pm | Open Evening – Dinner on your own | | | | |

Friday, February 24

| | |
|--------------------|--|
| 7:30 am – 9:00 am | Breakfast and Technical Tour Presentations – Jasmine |
| 9:15 am – 11:15 am | Technical Tours – Advanced registration required. Technical tours are sold out as of 1/10/17 Tour will visit - University of Miami Miller Medical School Central Energy Plant. All buses will drop participants at the airport before returning to the hotel. Tour will depart at 9:15 am. |