

Monday, February 6			
7:00 am – 8:00 am	Continental Breakfast – Registration Open		
5:00 pm – 6:30 pm	Campus Energy Conference Welcome Reception with IDEA Business Partner Exhibitors <i>Open to Workshop and Conference Attendees</i>		
Tuesday, February 7			
25 th Annual Campus Energy Conference – Preliminary Technical Program			
7:00 am – 6:00 pm	Registration Open		
7:00 am – 8:00 am	Continental Breakfast with Business Partner Exhibitors		
7:15 am – 7:45 am	Speaker Orientation Meeting		
8:00 am – 8:15 am	Introductions - Robert Thornton, IDEA President & CEO Welcome Remarks - Vincent Badali, IDEA Chair, Veolia Energy NA Opening Remarks - David Adamian, Conference Technical Chair, GreenerU		
8:15 am – 9:15 am	Opening Plenary Panel Discussion: From University Campuses to Military Bases: Converging Solutions in Clean Energy – a discussion of the economic, environmental & energy security advantages of DE/CHP. <i>(Invited Panelists):</i> Jim Adams, Cornell University; Stephen Ayers, Architect of the Capitol; Sarah Dunham, US EPA; Tom Hicks, US Navy; Kathleen Hogan, US DOE-EERE; Tom Nyquist, Princeton University; Jim Riley, Texas A&M; Steve Swinson, TECO Moderator: Rob Thornton, IDEA		
	1A-Clean Energy Innovation <i>Moderator: David Adamian GreenerU</i>	1B-Efficiency Focused Innovative Campus Renewal <i>Moderator: Joseph Sullivan, Concord Engineering</i>	1C PANEL Discussion: Military Bases, Microgrids & Managing Sustainability <i>Moderator: Rob Thornton</i>
9:15 am – 9:45 am	Producing Steam and Farm Income from Native Warm Season Grass Biofuels–L. W. Wilson, Piedmont Geriatric Hospital, DBHDS, VA	CHP Technology Identification and Project Site Selection on Military Installations- Adam Young & Victor Poland, Burns & McDonnell	<i>Invited Panelists:</i> Jonathan Powers - US Army Energy Initiatives Task Force (Invited)
9:45 am – 10:15 am	Sustainable Energy Expansion Project at Mizzou - Adam Ross, Sega	Efficiency Improvements at the Nations Largest Chilled Water Plant - Lynn Crawford, Affiliated Engineers; Tim Brown & Jose Garcia, Thermal Energy Corporation	Richard Boyette - US Navy NAV/FAC Representative Ted Borer- Princeton University
10:15 am – 10:45 am	Solar Cogeneration Systems Maximize Energy Harvest, Producing Hot Water from Waste Heat of Photovoltaics - Gilad Almogy, Cogenra Solar	Comprehensive Utilities and Energy Management - Jim Riley & Les Williams, Texas A&M	John Kelly - Perfect Power Institute Merrill Smith - US Department of Energy Tim Griffin - RMF Engineering
10:45 am – 11:15 am	Refreshment Break with Business Partner Exhibitors		
	2A-Clean Energy Innovation – Geothermal <i>Moderator: Bob Smith, RMF Engineering</i>	2B-Reinventing Heat <i>Moderator: Ed Mardiat, Burns & McDonnell</i>	2C- Thermal Energy Innovation <i>Moderator: Kevin Fox, Jacobs Engineering Group</i>
11:15 am – 11:45 pm	Demonstration of Low Temperature Geothermal as Innovative Supply for a District Heating Network - Jens Ole Hansen-COWI	Leaving Coal Behind- The Blue Devils Become Green - Russell Thompson, Duke University; Greg Carnathan & Tim Griffin, RMF Engineers	Aquifer Thermal Energy Storage Feasible Study Process and Results for District Energy Systems - Mark Worthington, Underground Energy
11:45 am – 12:15 pm	Campus Going Geothermal- A Case Study of Ball State University's Conversion to a	Harvesting Intermittent Waste Heat at Western Washington University - Eric	Geothermal District Energy Storage Systems: Flywheel for Efficiency – Kathleen

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	Campus Geothermal System - <i>Michael Luster, Jeff Urlaub, MEP Associates</i>	<i>Moe, FVB Energy</i>	<i>Dorsey, Haley & Aldrich</i>
12:15 pm – 12:45 pm	Operational Successes and Challenges of a Privately-Developed Community Open Loop Geothermal System - <i>Nina Baird & Gerry Mattern, Carnegie Mellon University</i>	Reinventing Fire and Campus-Level Energy Transformation- <i>Hutch Hutchinson, Rocky Mountain Institute</i>	Lessons Learned in Design and Implementation of Hot Water Distribution Systems - <i>Bryan Kleist, FVB Energy</i>
12:45 pm – 2:00 pm	IDEA Annual Campus Energy Luncheon Energy Star CHP Awards		
2:00 pm – 2:30 pm	Dessert & Coffee with IDEA Business Partner Exhibitors		
2:30 pm – 5:30 pm	By Invitation: DOE Clean Energy Application Centers Face To Face Meeting	Business Development Forum	By Invitation: Community Energy Guide Sponsor Meeting
	3A-PANEL Discussion: Water Conservation & Treatment <i>Moderator: Patrick Guccione, Chem-Aqua</i>	3B-PANEL Discussion: Permits & Regulations <i>Moderator: Ann McIver, Citizens Energy Group</i>	
2:30 pm – 2:50 pm	Water Reclamation in Central Plants – <i>Jonathan Lanciani, Organica Sustainable Water</i>	The Uncertainty of the Industrial Boiler MACT Rule: A Rule Update and Impact on Universities - <i>Don Wolf, Burns & McDonnell; Jeffery Witt, Iowa State University</i>	
2:50 pm – 3:10 pm	Water Conservation Best Practices in Cooling Tower Operations including Water Reuse - <i>Kevin Gottschalk, ChemTreat</i>	Air Emission Regulations and Electric Prices as Drivers for CHP and Biomass - <i>Peter Grills, Bingham McHale</i>	
3:10 pm – 3:30 pm	Managing Chilled Water in Older Systems - <i>Mike Davis, Oklahoma State University; Lanae Pierce, Nalco</i>	Maximizing Operational Flexibility Through Permitting - <i>Richard Ney, Sebesta Blomberg; Ben Fish, University of Iowa</i>	
3:30 pm – 4:00 pm	Refreshment Break with Business Partner Exhibitors		
	4A-Water Conservation & Treatment (cont.) <i>Moderator: Steve Spiwak, Nalco</i>	4B-Alternative Fuels <i>Moderator: Lynn Crawford, Affiliated Engineers</i>	
4:00 pm – 4:30 pm	The Realized Benefits of Converting to Reverse Osmosis Water Treatment for a Steam Generation Plant - <i>Joshua Morejohn & John Larsen, University of California, Davis</i>	Testing the Feasibility of Alternative Fuel Use in an Existing Coal Boiler - <i>Joe Marranca, University of North Carolina at Chapel Hill; George Howe, Affiliated Engineers; Nathan Ninemire, Sega</i>	
4:30 pm – 5:00 pm	Capturing and Reusing Air Handler Condensate Without Digging up the Campus - <i>Olen Pruitt, University of Alabama, Birmingham; Jay Wilkison & Patrick Guccione, Chem-Aqua</i>	Computer Model for Co-firing Coal and Biomass - <i>Ben Fish & Ferman Milster, University of Iowa</i>	
5:00 pm – 5:30 pm	Energy Savings from Energy Conservation at University of Texas at Austin - <i>Stephen Van de Kieft, Jacobs Engineering, Daniel Costello, University of Texas at Austin</i>	Biomass District Energy at Longwood University - <i>Richard Bratcher & Ben Myers, Longwood University; Kelly Bonds, Aegis Environmental; Geoff Chenoweth, RMF Engineering</i>	
5:30 pm – 7:00 pm	Hosted Reception with IDEA Business Partner Exhibitors		

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7:00 pm – 9:30 pm	Dinner at Madame Tussaud’s Wax Museum – Buses board & depart for museum 7:00 pm	
Wednesday, February 8, 2012 – 25th Annual Campus Energy Conference		
7:00 am – 8:00 am	Continental Breakfast with Business Partner Exhibitors	
7:15 am – 7:45 am	Speaker Orientation Meeting	
	5A-Master Planning & Campus Renewal <i>Moderator: Doug Maust, HGA Architects & Engineers</i>	5B-Cooling & Thermal Energy Storage <i>Moderator: Gary Rugel, EVAPCO</i>
8:00 am – 8:30 am	Success Story: Renewable Energy Center at Eastern Illinois University - <i>Joe Bondank, Sega; Gary Reed, Eastern Illinois University; David Evers, Honeywell</i>	University Central and Regional Chilled Water Plants: Sustainable, Operational and Campus Impacts - <i>Joseph Raia & Jane Weinzapfel, Leers Weinzapfel Associates; Bill Mahoney, RMF Engineering; Juan Suarez, STPCx; William Trefz, Trefz Engineering</i>
8:30 am – 9:00 am	The Emerging Need for Private Sector Participation for Developing District Energy at Public Institutions – <i>Joe Sullivan, Concord Engineering</i>	Chilled Water Optimization and Plant RetroCx – <i>John McGuckin, Auburn University; Kelly Gibbons, University of Utah; Drew Overmiller & Jon Schwartz, Burns & McDonnell</i>
9:00 am – 9:30 am	Leveraging the Other Co Generation: Combined Heating and Cooling - <i>Pierre De Gagne, University of Ottawa</i>	The Case for Filtration: Maintaining System Performance and Extended Equipment Life at Citizens Thermal – <i>Allyn Troisi, Lakos</i>
	6A-Energy Planning for Growth , Reliability and Efficiency <i>Moderator: Chris Hastings, R.G. Vanderweil Engineers</i>	6B-Cooling & Thermal Energy Storage (contd.) <i>Moderator: Frank Silva, Carrier Corporation</i>
9:30 am – 10:00 am	Strategic Energy Planning at California State Polytechnic University, Pomona - <i>Scott West & Kevin Fox, Jacobs</i>	Chilled Water Thermal Energy Storage Applications - <i>Guy Frankenfield, Natgun</i>
10:00 am – 10:30am	Comprehensive Energy Master Plan: Increasing Energy Conservation, Reliability and Efficiency - <i>Bob Olson, Purdue University; Ed Mardiat, Burns & McDonnell</i>	TES at University of Illinois Urbana-Champaign: Providing Capacity and Reliability while Creating Millions in NPV - <i>John Andrepont, Cool Solutions; Kent Reifsteck, University of Illinois Urbana-Champaign</i>
10:30 am – 11:00am	Capping Campus Energy Consumption Despite Enormous Growth: The Oregon Model for Sustainable Development – <i>Marty Hanifin, University of Oregon</i>	Thermal Energy Storage in Sao Paulo - <i>Leanora Pannicia & Steve Mignogna, Atelier Ten</i>
11:00 am – 11:30am	Refreshment Break with Business Partner Exhibitors	
	7A-Demand Side Management <i>Moderator: Bryan Kleist, FVB Energy</i>	7B-Cooling Optimization <i>Moderator: David Jensen, Johnson Controls</i>
11:30 pm – 12:00pm	District Energy and Demand Side Management at the University Circle,Cleveland - <i>Meghan Riesterer, Medical Center Co.</i>	Delta-T Mitigation Strategies Tested on MIT AHUs - <i>Peter Cooper, MIT; Dick Hubbell & Bob Rybka, Belimo</i>
12:00 pm – 12:30pm	Western Connecticut State University: An Increasing Focus on Sustainability in a Time of Shrinking Budgets – <i>Luigi Marcone, Western Connecticut State University</i>	Avoiding Pitfalls in Cogen Systems that Incorporate Absorption Chiller/Chiller Heater - <i>Nitin Pathakji, WM Group</i>
12:30 pm – 2:00 pm	IDEA Annual Campus Energy Recognition Luncheon	
2:00 pm – 2:30 pm	Dessert and Coffee with IDEA Business Partner Exhibitors	
	8A-Preventive Maintenance <i>Moderator: Steve Tredinnick, Syska Hennessy Group</i>	8B-Monitoring, Meters & Control <i>Moderator: John Carlson, Entergy Thermal</i>

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2:30 pm – 3:00 pm	Capital Renewal and Preventive Maintenance Program - <i>Aurel Selezeanu, Duke University</i>	How UT Austin Went From Less Than 100 Manually Read to Over 600 Digital Energy and Water Meters: A Case Study - <i>Kevin Kuretich & Roberto Del Real, University of Texas at Austin</i>
3:00 pm – 3:30 pm	Wireless Vibration Monitoring System at Penn State - <i>David Shannon, KCF Technologies; Mike Hoy, Penn State University</i>	Real Time Energy Monitoring and Management of UCSD Campus Micro Grid System – <i>David Zeglinski, OSIsoft</i>
	9A-Innovation & Optimization <i>Moderator: Lucas Hyman, Goss Engineering</i>	9B-Monitoring, Meters & Control <i>Moderator: Tim Angerame, UtiliVisor</i>
3:30 pm – 4:00 pm	Implementing Biomass Gasification at Oak Ridge National Laboratory – <i>Phil Beaty, Nexterra; Jimmy Stone, Oak Ridge National Lab</i>	Controlling Multiple Chilled Water Plants on a Common Loop for Optimum Efficiency - <i>Kevin Kuretich, University of Texas at Austin; Ben Erpelding, Optimum Energy</i>
4:00 pm – 4:30 pm	Investigation of Steam Line Weld Failures at the University of Rochester - <i>Steve Mischissin, University of Rochester</i>	Instrumentation Technologies for Efficient, Reliable & Safe Boiler Control - <i>Ryan Shea, Siemens</i>
4:30 pm – 5:00 pm	Low NOx Emissions without New Burners - <i>Robert Benz, Benz Air Engineering</i>	Reducing Campus Energy and Carbon Footprint with Modular On-Demand Boiler Systems – <i>Jason Smith, Miura</i>
5:00 pm – 6:00 pm	Campus Forum Meeting <i>A forum for discussion among and for College and University personnel.</i>	Business Partner Forum Meeting <i>Manufacturer/Supplier and Service Providers are cordially invited to this forum discussion.</i>
Thursday, February 9, 2012 – Campus Energy Conference Wrap-up and Technical Tours		
7:30 am – 9:00 am	Breakfast and Briefing - Tour Overview	
9:15 am – 1:00 pm	Technical Tours – University of Maryland College Park Central Energy Facility	