PRELIMINARY PROGRAM *

Partnering for Success

IDEA Workshop

"Implementing Clean Campus Energy Systems for Savings and Sustainability"

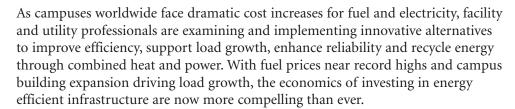
February 21, 2006

19th Annual
IDEA
Campus Energy
Conference

February 21-24, 2006

The Hyatt Regency Albuquerque

Albuquerque, New Mexico



We invite you to join your colleagues and friends at this important meeting.

The Annual IDEA Campus Energy Conference attracts hundreds of end users, utility and facility professionals, equipment suppliers and manufacturers, engineering consultants and policy professionals.

Attendees share innovations, environmental strategies, case studies and practical solutions in a unique and collegial setting with invaluable peer exchange, networking and technical presentations of the highest order.



IDEA is pleased to extend Member Registration rates to APPA, ASHE, HBCU and members of Big Ten & Friends.

Exhibits and Networking Opportunities

Once again, IDEA member companies have TableTop Exhibits at the Campus Energy Conference.

Our host university, University of New Mexico, has graciously invited all participants to a Technical Tour of their recently expanded and updated Campus Energy System. For more information on the Utilities Department of the University of New Mexico, please visit www.districtenergy.org.







◆ PRELIMINARY PROGRAM - IDEA Workshop ◆

Tuesday, February 21, 2006

US Dept of Commerce/IDEA Workshop "Implementing Clean Campus Energy Systems"

7:00 am - 8:00 am

Continental Breakfast

8:00 am - 8:15 am

Welcome and Workshop Overview by Robert Thornton, President, IDEA

Around the world, high fuel costs are driving investment in innovative district energy systems to reduce operating costs, enhance reliability and decrease emissions. Many U.S. universities have implemented campus energy systems that tap renewable resources like deep lake water cooling, biomass or landfill gas while other systems are recycling heat generated from traditional fuels like coal and natural gas to produce cooling and power more efficiently, more reliably and with lower emissions.

IDEA campus energy systems deliver world-class efficiency, reliability and service. This workshop covers the nuts and bolts of leading successful projects from master planning to securing capital or project financing, to understanding and presenting the financial picture, to managing community approvals and permitting. The lessons and leadership experience are applicable to campus settings; mixed use development and other settings around the globe.

8:15 am - 10:00 am

University Leaders Panel - "Partnering for Success... Lessons Learned on Campus" -

Hear from these widely-respected industry leaders about their hands-on experience in planning, constructing and operating an innovative campus energy system. Each unique system presents a different technology with a set of local challenges and lessons learned:

Invited panelists will provide a brief overview of their campus energy system, including:

- ♦ Biomass and Opportunity Fuels Ferman Milster, University of Iowa
- ♦ CHP & Cooling with Coal Raymond DuBose, University of North Carolina Chapel Hill
- ♦ **Deep Lake Water Cooling** *Tim Peer, Cornell University*
- ♦ Landfill Gas for CHP David Johnson, UCLA
- ♦ CHW Storage and CHP Tom Nyquist, Princeton University

Moderated by Rob Thornton, IDEA

10:00 am - 10:30 am

Refreshment and Networking Break

10:30 am - 11:30 am

College and University Utility Finances for the Non-Financial Manager — Case Study at University of Michigan

Today, campus utility managers are becoming more involved in all aspects of finances related to operation of power plants, utility distribution systems and/or utility purchasing. With this deeper involvement comes a responsibility to be fiscally responsible and to use appropriate financial controls. This session will feature an overview of accounting principals, explore an example of utility cost accounting and rate setting for the University of Michigan and will finish with a discussion on financial control responsibilities.

Case study presentation by Brian Heldt, Senior Business Analyst, Office of Financial Analysis, University of Michigan and Bill Verge, Director of Utilities & Plant Engineering, University of Michigan.

Invited panelists including Doug Garron, Harvard University; Everett Wolverton, University of Cincinnati and Ferman Milster, University of Iowa to discuss economics, risk and rate design.

12:00 pm - 1:00 pm

Luncheon – IDEA Update and Member Recognition

◆ PRELIMINARY PROGRAM - IDEA Workshop ◆

1:00 pm - 2:30 pm

Optimizing the Campus Utility Master Plan – Case Study at UNC Chapel Hill

In 2000, North Carolina voters approved a \$3.1 billion bond authorization for the North Carolina Higher Education Fund, resulting in planned expansion of 6.1 million sq ft of new building space at UNC Chapel Hill. The management of the campus energy system, which currently serves 130 buildings totaling more than 14 million sq ft, sought the help of business partners to develop a comprehensive utility model master plan for steam, chilled water and electrical systems. The "Restructured Development Plan" analyzed potential load growth and then carefully assessed timing and optimal sequence of capital investments in energy utility infrastructure, resulting in valuable findings, namely:

- ♦ Detailed funding plan by project, source, and year
- ♦ Definition of future revenue requirements and rate impacts
- ♦ Reduction in near term capital required by \$166 million
- ♦ Reduction in required bonding by \$158 million
- Clarification of need for additional on-site electric generation as well as foundation for negotiations with local electric utility

Case study presentation by Raymond DuBose, UNC Chapel Hill; Rick Bourn, Carter & Burgess, Inc. and Nick Travis of Energy Strategies, Inc.

The presentation will be followed by a panel discussion on master planning, community relations and construction management that will include Cheryl Gomez, University of Virginia; Sal Chiarelli, University of Vermont; and Tim Peer of Cornell University.

2:30 pm - 3:00 pm

Refreshment Break

3:00 pm - 4:00 pm

Competing for Capital and Making the Case - A Panel Discussion

Too often, an excellent technical project stalls at the board of trustees or finance committee until a compelling economic argument is made in business terms to a financially-oriented audience. Moving the message from an engineering study to an economic imperative involves a series of analyses, references and risk studies. How have business partners supported campus champions? What information do decision-makers seek and how to best provide it?

Panelists will include select business partners and university campus leaders.

4:00 pm - 5:00 pm

Exporting US Success, Growing Globally – As evidenced at dozens of IDEA member campus energy systems, our industry boasts decades of success in serving critical care customers like campuses, airports, research and healthcare complexes and other connected communities. What are the global trends for campus energy systems and large scale planned development? How are US universities partnering in developing other global campus developments? How can IDEA members, especially campus energy leaders and their business partners, participate in industry growth and innovation around the globe?

In conjunction with the US Department of Commerce Market Development Cooperator Program (MDCP), IDEA business partners are actively serving dramatic growth in district energy in the Middle East and Far East. What exchange and partnering opportunities are possible? How are the large university campus energy systems in the U.S. like the huge mixed use and military base developments in the Middle East?

Invited panelists to include Dany Safi, Tabreed; Ferman Milster, University of Iowa; Dr. Sung Ho Bae, Korea District Heating Corporation; Sarah Lopp, International Trade Administration and Mark Wells, US Department of Commerce; along with other industry partners.

Moderated by Rob Thornton, IDEA

5:00 pm - 6:30 pm

Welcoming Exhibitor Reception – Followed by a free evening to explore a wonderful western US city on your own.



Who should attend this Workshop and Conference?

- College, university, school district, municipal, military and government energy professionals looking for practical and innovative solutions...
- Planners, architects and engineers involved in real estate and building energy systems...
- Consultants, manufacturers and service providers seeking insight to institutional opportunities...
- Energy professionals involved in large central plants, utilities and environmental compliance...
- Policy and energy efficiency advocates interested in successful approaches to complex issues.



Purpose of the Workshop and Conference

- To spotlight a variety of highly successful clean energy systems in operation today;
- To identify the settings and conditions where these different energy solutions have succeeded;
- ◆ To explore the process involved in achieving positive operational results;
- To discuss collaboration on expanding the global market for export of these clean energy solutions.



The International District Energy Association (IDEA) is beginning its 97th continuous year of service to the district energy industry through education, information exchange and advocacy. IDEA members own and operate utility and campus energy systems in 21 different countries and provide products and services to over 800 members around the world. IDEA is working to expand the market for district energy solutions globally through a Market Development Cooperator Grant program awarded by the US Department of Commerce.

♦ PRELIMINARY PROGRAM - Campus Energy Conference ♦

Tuesday, February 21, 2006

5:00 pm-6:30 pm

Welcoming Exhibitor Reception

Wednesd	lay, Februar	y 22, 2006
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7:00 am – 8:00 am	Breakfast with Exhibitors				
8:00 am – 8:15 am	Opening Remarks and Introductions – Robert Thornton, President, IDEA Welcome to Albuquerque, New Mexico - Larry Schuster, University of New Mexico, Conference Host Overview of Campus Energy Conference Program – Scott Clark, Carter & Burgess, Conference Technical Program Chair				
8:15 am – 10:00 am	Opening Presentations and Plenary Panel – " Today's Energy Market for Campus Leaders"	Opening Presentations and Plenary Panel – "Volatility, Uncertainty and Anxiety – Coping With Today's Energy Market for Campus Leaders"			
	Paradigm Shift - Energy Procurement in a Deregulated Electric Market by Mary Smith, Harvard University A Shattered Crystal Ball - Where Are Energy Prices Headed? by Lucinda Andreani, Lucinda Andreani Associates				
	A panel of campus energy professionals will discuss the challenges and opportunities of escalating fuel and power costs. Panelists to include: Gordon Apperley, University of British Columbia; Cheryl Gomez, University of Virginia; Raymond DuBose, University of North Carolina Chapel Hill; and others.				
10:00am –10:30 am	Refreshment Break with Exhibitors				
	Campus Energy Systems Updates	CHP/Sustainable Campus Solutions			
10:30am – 11:15 am	Princeton University – District Cooling System Improvements by Ted Borer, Princeton University; Jon Schwartz, Carter & Burgess	Wayne Township Cogeneration & Renewable Energy Project by Gary Fechter, Princeton Energy Systems			
11:15 am – 12:00 pm	Princeton University's Energy Procurement Program – Tom Nyquist, PE, Princeton University; Michael Webster, ICETEC	S.C. Johnson Biomass CHP System by Jim McNamara, Northern Power Systems			
12:00 pm – 1:30 pm	US Department of Commerce MDCP Award Presentation Keynote Luncheon Address – Honorable Senator Pete Domenici (R NM) (invited)				
1:30 pm – 2:00 pm	Dessert with Exhibitors				
2:00 pm – 2:45 pm	Environmental Strategies Alphabet Soup: MACT, CAMR, BART and EGU - Should I CAIR? by Ann Curnow, Sebesta Blomberg & Associates	District Heating/System Optimization Waste Heat Recovery & System Efficiency Improvements Using Hydro-Thermal Recovery by Gordon Judd, NRG Energy; Bill Carson and Jim Shields, Direct Contact			
2:45 pm – 3:30 pm	Air Emissions Credits as Financial Incentives for Siting CHP Systems by Thomas Bourgeois, Pace University Energy Project	The Carrillo Street Steam Plant - Emission Controls for Boilers at the University of Pittsburgh by John Schenk, University of Pittsburgh and Donald Bahnfleth, Woolpert, LLP.			
3:30 pm – 4:00 pm	Refreshment Break				
4:00 pm – 4:45 pm	Environmental Strategies Environmental Permitting for a Small CHP Plant in a Non-Attainment Area by Doug Wells, Rice University	District Heating/System Optimization Coal-Fired-Hot-Gas-Generation (COHOGG) by Lou Tepe, Tepe Associates			
4:45 pm - 5:30 pm	Cost Implications of Greenhouse Gas Regulations for the University of Iowa by Richard Ney, Sebesta Blomberg & Associates	Condensate Management and Treatment by Stephen Spiwak, Nalco			
6:15 pm – 9:00 pm	Buses leave lobby for Dinner at the new World Balle Conference Theme Dinner generously sponsored by				

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Thursday, February 23, 2006

	Campus Cooling Systems	Campus Master Planning			
8:00 am – 8:45 am	Thermal Energy Storage on Campus – An Overview of 150+ Applications by John Andrepont & Mike Kohlenberg, The Cool Solutions Company	University of Vermont - Master Planning and System Expansion by Sal Chiarelli & Gus Mastro, University of Vermont; Hemant Mehta, WM Group Engineers			
8:45 am – 9:30 am	You're Going to put the TES Tank Where? Charles Hanskat, DYK Incorporated; Richard Snouffer, University of Southern California	University of Texas - Surviving the Perfect Storm Campus Energy Master Planning by Steve Kraal, University Texas Austin			
9:30 am – 10:15 am	A Fresh Look at Heat Pumps by David Jensen, York International	Utility Master Planning at Virginia Tech by Bill Elvey, P.E., Virginia Tech University and Jeff Pollei, P.E.; Affiliated Engineers, Inc.			
10:15 am – 10:45 am	Refreshment Break				
	Training/Organizational Development	Metering/Billing Solutions			
10:45 am – 11:30 am	Implementing a Job Skills Certification Program at The University of Texas by Juan Ontiveros, UT Austin; Bill Armbrust, Industrial Resources, Inc.	Solving the Problems of Campus Re-Billing by Tim Berson, Itron			
11:30 am – 12:15 pm	Attaining Maximum Performance Through Organizational Development by Ferman Milster, University of Iowa	Real-Time Metering System at The University of Rochester by Morris Pierce, University of Rochester			
12:15 pm – 1:45 pm	EPA Energy Star CHP Awards Keynote Luncheon Address – Honorable Governor Bill Richardson, New Mexico (invited)				
1:45 pm – 2:15 pm	Dessert with Exhibitors				
	Campus Cooling Systems	CHP/Sustainable Campus/LEED			
2:15 pm – 3:00 pm	Optimizing Condenser Water Flow Rates by Bill Liegois, Stanley Consultants	Sustainable Energy Center Project in the Northwest by Larrie Easterly, Oregon State University and Robert Howse, Carter & Burgess			
3:00 pm – 3:45 pm	Low Delta T Syndrome – Jim Nonneman, Stanley Consultants	Sustainable Campus LEEDers - Vermeer Science Center Project by Lee Tapper, Central College & Mike Lubberden, Holabird & Root			
3:45 pm – 4:15 pm	STG: Vertical Turbine Package Approach by Harold Valencia, Carrier Corporation	Cornell University Energy Master Plan & Economic Analysis by Tim Peer, Cornell University; Richard Levitan, Philip Curlett & Ellen Cool, Levitan Associates			
4:15 pm – 4:30 pm	Refreshment Break				
4:30 pm – 5:30 pm	Campus Forum Meeting Business Partner Forum Meeting - MDCP Program				
5:30 pm – 6:30 pm	Reception with Exhibitors – Followed by free evening on your own				

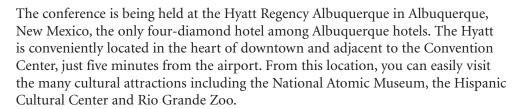
Friday, February 24, 2006

7:30 am	Power Breakfast with our Host University – University of New Mexico				
8:00 am – 8:45 am	University of New Mexico - Campus Wide Energy Management Control System by Daniel Grajalva, Royal Consulting				
8:45 am – 9:15 am	Overview of Technical Tour – University of New Mexico by Larry Schuster and Jeffrey Zumwalt, University of New Mexico				
9:30 am – 11:30 am	Technical Tour - University of New Mexico Campus Energy Plant				

HOTEL & TRAVEL INFORMATION ◆



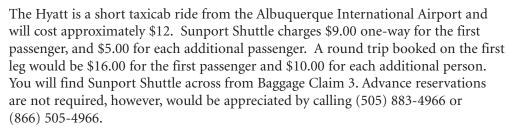


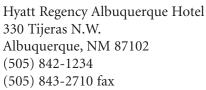


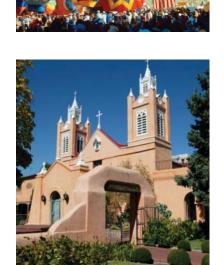
The hotel Health club features a sauna, Cybex equipment, free weights, cardiovascular exercise equipment (exercise cycles, steppers, stair climbers), and is open 24 hrs. McGrath's Bar and Grill is open for breakfast lunch and dinner and features a display kitchen where you can watch your chef at work. Bolo's Saloon, with it's mahogany bar and fountain courtyard, offers the perfect setting for a cocktail or light snack. The Hyatt also has a Starbucks to meet your coffee or snack needs.

Check in time at the hotel is 3:00 pm and check out is at 12:00 pm.

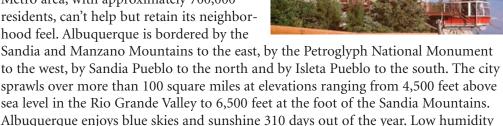
IDEA has negotiated a special room rate of \$136 single/double per night. To ensure room availability, call the Hyatt Regency Albuquerque Hotel directly at (505) 842-1234 or (800) 233-1234 to make your reservations. Our group room rate is \$136 single/double until February 3, 2006. Be sure to mention the IDEA Conference when making your reservation. You can also make your reservation online by going to IDEA's calendar page: www.districtenergy.org/calendar.htm and click on the link for the Hyatt Regency. Use the group code g-IDEA when making your reservation online.







New Mexico is one of the nation's most sparsely populated states. The Albuquerque Metro area, with approximately 700,000 residents, can't help but retain its neighborhood feel. Albuquerque is bordered by the



to the west, by Sandia Pueblo to the north and by Isleta Pueblo to the south. The city sprawls over more than 100 square miles at elevations ranging from 4,500 feet above sea level in the Rio Grande Valley to 6,500 feet at the foot of the Sandia Mountains. Albuquerque enjoys blue skies and sunshine 310 days out of the year. Low humidity and warm temperatures make Albuquerque a four-season destination. The average daytime temperature in February ranges between 53 and 27 Deg. F.

Conference registration cancellations received before Feb. 1st will be refunded less \$75 fee. Registrations are non-refundable after Feb. 1st.

For more information, visit www.districtenergy.org or contact IDEA at 508-366-9339.

♦ 19th Annual **♦** IDEA Campus Energy Conference

Partnering for Success

February 21-24, 2006
The Hyatt Regency Albuquerque • Albuquerque, NM

IDEA thanks our sponsors for their support and generosity:



Carter#Burgess



Business Partner Exhibitors

IDEA is pleased to list our Business Partner Exhibitors (to date)

- ♦ Baltimore Aircoil Company
- ◆ Carrier Commercial Service
- ♦ Direct Contact Inc.
- Dresser-Rand/ Steam Turbine Business Unit
- ♦ DriTherm, Inc.
- ♦ DYK Incorporated
- ♦ Flow Control Industries, Inc.
- ♦ Gilsulate International, Inc.
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- ♦ LightRidge Resources
- ♦ McCrometer
- ♦ Nalco Company

- ♦ Natgun Corporation
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- **♦** Trane
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125 Turnpike Road, Suite 4 Westborough, MA 01581



REGISTRATION FORM

19TH ANNUAL IDEA CAMPUS ENERGY CONFERENCE

Partnering for Success

The Hyatt Regency Albuquerque Albuquerque, New Mexico February 21-24, 2006

Name	Nickname (badge)						
Title							
Company							
Address							
City							
Phone			Fax				
Email							
Spouse/Guest							
Registration Fees							
	Pre-Conference Workshop Only (All day Tues.) (2/21)		Confer (Tues. Reception thro	Campus Energy Conference Only (Tues. Reception through Technical Tour Fri.) (2/21-24)		Combined Workshop and Conference (All day Tues. through Tour Fri.) (2/21-24)	
Member (IDEA/APPA/HBCU/USCHPA)	By Feb. 3	After Feb. 3 \$\square\$ \$225	By Feb. 3	After Feb. 3	By Feb. 3 ☐ \$750	After Feb. 3	
Non-Member		□ \$325		□ \$875	□ \$850	·	
Spouse/Guest (includes 2 receptions and a dinn	•	□ N/A	□ \$150	□ \$175	□ \$150	□ \$175	
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Signature							
Please contact IDEA if yo	u have any	questions or spec	ial needs.				
Make checks payable to or fax c	IDEA and ompleted f		EA, 125 Turnpike Ro 08) 366-0019	ad, Suite 4, Westbord	ough, MA 015	81	
For more information of	eall: (508) 3	66-9339, or visit	our Web site: www.	districtenergy.org			
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Date Rec'd		Payment		Note			