

PRE-CONFERENCE: Tuesday, September 11 Workshops				
Track	1		2	
	Tools and Systems		Sustainability and Energy Efficiency	
1:00pm-2:30pm	Design and Analysis Tools		Sustainability	
	<p>Moderator:</p> <p>Presenters:</p> <p>Liam Buckley, IES Consulting</p> <p>James Fireovid, SAIC</p>	<p><i>Integrated Tools, Technologies & Strategies for Designing High Performance Buildings</i></p> <p><i>Parametrics Energy Modeling</i></p>	<p>Moderator:</p> <p>Presenters:</p> <p>Mike Opitz & George Denise, The Cadmus Group</p> <p>Jorge Torres Cotto, Empirical Engineering</p>	<p><i>Best-in-class facilities management programs</i></p> <p><i>2012 Update on LEED Energy & Atmosphere</i></p>
2:30pm-3:00pm Break				
3:00pm-4:30pm	Systems for High Performance		Energy Efficiency Case Studies	
	<p>Moderator:</p> <p>Presenters:</p> <p>Ryan Westlund, REHAU</p> <p>David Bell, Progressive AE</p>	<p>Robert Beverly</p> <p><i>Opportunities for Radiant Cooling in North American Construction</i></p> <p><i>Advanced Geothermal Heat Pump Systems</i></p>	<p>Moderator:</p> <p>Presenters:</p> <p>Jeffrey Salay, GHT Limited</p> <p>Yujie Cui, ConEdison Solutions, Inc.</p>	<p>Jeff Seewald</p> <p><i>Renewal of the International Monetary Fund's HQ1</i></p> <p><i>Low Cost Retrofit of A Large Class "A" Office Building</i></p>

DAY 1: Wednesday, September 12				
8:00-9:00am Breakfast				
9:00-10:00am	Opening Keynote Session			
	Advanced Building Systems: Guaranteed High Performance from Design through Operation Because more than 40% of the world’s energy consumption occurs in the built environment, delivering dramatic energy use reduction in a broad cross section of buildings holds the promise to significantly reduce our energy footprint. Despite the existence of a few examples demonstrating lower energy use, the goal of developing solutions that are viable in a large fraction of the built environment remains elusive. This talk will identify some of the key technical and economic barriers to delivering and sustaining energy performance over the lifecycle of a building and describe several innovative systems technologies that have recently been developed and demonstrated by the United Technologies Research Center to contribute to the ability to predict and then deliver energy performance over a building's life cycle.			
	Craig Walker <i>Director, Energy Systems Program Office</i> United Technologies Research Center			
10:00-10:30am Break				
Track	1		2	
	Technology & Innovation		Design, Delivery & Operations	
10:30am-12:00pm	HVAC		Planning & Design	
	High efficiency systems, thermal storage, active slabs, chilled beams, heat pumps, evaporative cooling, air distribution & ventilation		Efficiency and demand response retrofits, case studies, applications, programs, tools and methods	
	Moderator: Robert Beverly		Moderator: Paul Ehrlich	
	Presenters: Stirling Boston, Lochinvar		Presenters: Michael Kornitas, Rutgers University	
	<i>Front End Loading Boiler Heating Plants with Condensing Technologies</i>		<i>Strategic Planning for Sustainability and Energy Conservation</i>	
	Julian De Bullet, FAFCO Thermal Storage		Neil Maldeis, Trane	
	Mike Flaherty, tekWorkx		Jim McEnteggart, Primary Integration	
	<i>Plant Optimization Opportunities and Strategies</i>		<i>Riding the Next Wave of New Energy Technologies for High Performance Bootstrapping Your High Performance Facility (HPF) Upgrade</i>	
12:00pm-1:00pm Lunch				
1:00pm-2:15pm	Controls		Design & Specification	
	Building automation and controls, optimization, wireless technology, system integration, enterprise management			
	Moderator: Robert Beverly		Moderator: Jeff Seewald	
	Presenters: Ed Merwin, Tridium		Presenters: Grant Wichenko, Appin Associates	
	Richard Fellows, KMC Controls		<i>Specifying BACnet Interface Devices using the Networked Controls Design</i>	
	<i>Wireless Technology in Building Automation and Control Systems</i>		<i>High-Performance Air Systems for High-Performance Buildings</i>	
	David Katz, Sustainable Resources Management		Brent Adams, Harsco Industrial	
	<i>Building Intelligence Quotient 2.0 Development</i>		<i>Condensing Boiler Systems</i>	
2:15-2:45pm Break				
2:45pm-4:00pm	Metering, Dashboards, Analytics		Re-Commissioning & Re-Engineering	
	Moderator: Jeff Seewald		Moderator: Paul Ehrlich	
	Presenters: Pricilla Koeckeritz, EnergyPrint		Presenters: Kurt Stevens, KB Solutions	
	Del Kotowski, LEM USA		Jorge Torres Cotto, Empirical Engineering	
	John Petze, SkyFoundry		Paul Ehrlich, Building Intelligence Group	
	<i>Macro Level Energy Management</i>		<i>Cx and RCx Case Studies</i>	
	<i>Wireless Energy Sub-metering Tool to Reduce Energy Costs</i>			
	<i>Justifying Your Move to Data Driven Facility Management</i>			
3:00-3:30pm Break				
4:00pm-5:00pm	Workshop: Measurement for Performance		Workshop: Role of Controls	
	Interactive workshop/discussion on elevating performance in existing buildings		Interactive workshop/discussion on the role of incentives in improving energy performance.	
	Moderator: Jeff Seewald		Moderator:	
	Presenter/Facilitator: Barry Dunham, ONICON		Presenter/Facilitator: Rebecca Ellis, Questions & Solutions Engineering	
	Len Damiano, EBTRON		Barry Haaser, LonMark International	
			<i>Bringing Together the Smart Grid and Smart Building for a Sustainable World</i>	
5:00-6:30pm Networking Reception				

DAY 2: Thursday, September 13				
8:00-9:00am Breakfast				
Track	1		2	
	Technology & Innovation		Design, Delivery & Operations	
9:00-10:30am	Lighting and Electrical		Smart Grid and Demand Response	
	Solid state lighting, lighting controls, active facades			
	Moderator:	Robert Beverly	Moderator:	Jeff Seewald
	Presenters:		Presenters:	
	Gautami Palanki, AtSite	Advanced Lighting Controls: Occupant Engagement and Energy Efficiency	Pornsak Songkakul, Siemens Industry	Automated Demand Response in Commercial Buildings: An OpenADR Approach
		H.G. Chissell, Viridity Energy	Are Buildings Ready to Provide Virtual Power?	
	Cory Vanderpool, EnOcean	Peter Kelly-Detwiler, Constellation Energy	Tools and Technologies of Demand Response	
10:30-11:00am Break				
11:00am-12:00pm	Closing Session			
12:00pm Conference Adjourns				