DRAF	PANEL: 3 - Commercial Buildings: Technologies, Design, Performance Analysis, Construction, and Building Industry Trends (Scripps)				
Day	SESSION	LEAD AUTHOR/ORGANIZATION	TITLE		
/22	Session 1 8:30 am - 10:00 am	Supriya Goel, Pacific Northwest National Laboratory	Streamlining Building Efficiency Evaluation with DOE's Asset Score Preview		
	Commercial Building Benchmarking &	Richard Leigh, Pratt Institute	Benchmarking and Audit Data Inform Building Science		
	Rating	Ryan Colker, National Institute of Building Science	Advancing Achievement of Outcomes through Certified Prescriptive Packages		
Mon 8/22	Session 2 10:30 am - 12:00 pm	George Hernandez, Pacific Northwest National Laboratory	Supporting a Thriving Transaction Based Controls Ecosystem		
	Beyond Demand Response: Internet-of-	Michael Deru, National Renewable Energy Laboratory	Field Testing and Modeling of Supermarket Refrigeration Systems as a Demand Response Resource		
	Things and Transaction-Based Controls	Penn Zhao, EPRI	Getting into the Zone: How the Internet of Things can Improve Energy Efficiency and Demand Response in a Commercial Building		
	Session 1 8:30 am - 10:00 am	Yashen Lin, University of Michigan	Explaining Inefficiencies in Buildings Providing Ancillary Services		
	Solutions for Widespread	Anthony Duer, Applied Energy Group	Battery Storage Optimization and Deployment: A Primer		
Tues 8/23	Integration of Distributed Renewable Energy	Jonathan Hart, Center for Sustainable Energy	Small Thermal Energy Storage and Its Role in Our Clean Energy Future		
en⊥	Session 2 10:30 am - 12:00 pm	Micah Sweeney, Electric Power Research Institute	Server Demand Response via Automated Hardware Management		
	Emerging	Jonathan Woolley, University of California, Davis	Outside the Box: Climate Appropriate Hybrid Air Conditioning as a Paradigm Shift for Commercial Rooftop Packaged Units		
	Technologies for Commercial Buildings	David Gilliland, kW Engineering	Cloud-Based Energy Management Software: The Next Step in Energy Efficiency or Marketing Mumbo Jumbo?		

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Day	SESSION	LEAD AUTHOR/ORGANIZATION	TITLE
Wed 8/24	Session 1	Gwelen Paliaga, TRC Energy Services	Using Integrated Packages to Advance Buildings towards ZNE
	8:30 am - 10:00 am Advancing Net-Zero	Christopher Meek, University of Washington	Metered Energy Efficiency Transaction Structure in Ultra-Efficient New Construction: Pay-for-Performance at the Bullitt Center in Seattle, WA
	Energy Commercial Buildings	Alex Herceg, Lux Research Inc.	Identifying Disruption in Advanced HVAC Technologies for Commercial Buildings
	Session 2 10:30 am - 12:00 pm	Adam McMillen, Seventhwave	Codes Don't Always Get Enforced, but Contracts Do: Changing the Procurement Paradigm to Drive Building Energy Performance
	Advances in	Cindy Strecker, CLEAResult	Utility Program Cost Effectiveness of Variable Refrigerant Flow Systems
	Commercial Building Codes and Standards	Kurt Herzog, Acutherm, LLC	Achieving High Satisfaction in High Performance Buildings
	Session 1 8:30 am - 10:00 am Systems Innovations for Commercial Buildings	Laura Van Wie McGrory, Alliance to Save Energy	Systems Efficiency Initiative: A Systems Approach to Commercial Building Energy Efficiency
		Frank Sharp, Electric Power Research Institute	Robotic Evaluation of Commercial Space Performance
8/25		Duane Jonlin, City of Seattle	Can High-Performance Equipment Lead to a Low-Performance Building?
Thurs 8/25	Session 2 10:30 am - 12:00 pm Advancing Control Strategies for Commercial Buildings	Ahmed Tukur, University of Dayton	Energy Savings from Robust Control of Static Pressure Based upon Zonal Occupancy for Multiple-Zone VAV Systems
		Mary Ann Piette, Lawrence Berkeley National Laboratory	Comparison of Actual Costs to Integrate Commercial Buildings with the Grid Flexibility Programs
		Eva Urbatsch, Aerotek for Bonneville Power Administration	Dude, Where's My Savings: An Investigation of Project Performance
	Session 1 8:30 am - 10:00 am	Heather Dillon, University of Portland	Commercial Building Partnerships: Intervening Globally to Save Energy Locally
	High Performance	Scott Hackel, Seventhwave	Advancing the Last Frontier: Reduction of Commercial Plug Loads
56	Commercial Buildings	Joelle Michaels, U.S. Energy Information Administration	Green Building Certification and the Commercial Building Energy Consumption Survey (CBECS)
Fri 8/26	Session 2	Mike Thompson, Ingersoll Rand	Merging the Transition to Next Generation HVAC Refrigerant Technology with Effective Climate Policy
	10:30 am - 12:00 pm Climate Change &	Scott Schuetter, Seventhwave	Is it Getting Hot in Here? How Climate Change will Impact Energy Efficiency Choices
	Energy Efficiency	Sanyogita Manu, Centre for Advance Research in Building Science & Energy	Opportunities and Challenges in Monitoring the Thermal Performance of Passive Buildings in India

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Day	SESSION	LEAD AUTHOR/ORGANIZATION	TITLE		
	Alternate	John Martin, International Association of Lighting	A Radical Proposal: Simplify Codes by Relying on Professional Competence and		
	Aitemate	Designers	Outcomes!		
	VISUALS	Damon Woods, University of Idaho Integrated Design Lab	Simulation on Demand for Deep Energy Retrofits		
		Rathish Arumugam, Saint Gobain Research India	Office-like Test Chambers to Measure Cool Roof Energy Savings in Four Indian Climates		

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