

URBAN REINVENTION AND RESILIENCE

TUESDAY, OCTOBER 22

8:00 – 8:30AM

BREAKFAST & POSTER VIEWING

8:30 – 8:45

INTRODUCTION

8:45 – 8:55

POET-IN-RESIDENCE

8:55 – 9:30

FEATURED SPEAKER: NANCY GRIMM

Director, Central Arizona–Phoenix Long-Term
Ecological Research Program

9:30 – 9:45

COFFEE BREAK & POSTER VIEWING

9:45 – 10:45AM

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PRODUCT ADVANCEMENT

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REVITALIZATION EFFORTS

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RESEARCH AND ANALYSIS

TRACK A

TECHNOLOGY FOR URBAN RESILIENCE

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WORKSHOP 1 ENERGY EFFICIENCY

“Replacing Steam Heat with Variable Refrigerant Flow Heat Pumps,”

Ian Shapiro, Taitem Engineering

“Combined Heat and Power: The Pathway to a Secure Energy Future in NYS,”

Herb Dwyer, ASI Energy

“Introducing Zero Peak-Power: Reducing Residential Peak Electricity Demand While Increasing House Resilience,”

John Vasselli, TxAlRE (Texas Allergy, Indoor Environment and Energy Institute)

“Pump Efficiency Meter: A New Approach to Pump Efficiency and Controls,”

Thomas Devine, GHD Consulting Services, Inc.

TRACK B

COMMERCIALIZING INNOVATIONS

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WORKSHOP 2 GREEN BUILDING

“Energy Reduction by Building Use Analysis,” Steve McMahon, Cortland Research, LLC

“Importance of Utilizing Energy in a More Efficient and Sustainable Way: Using Less and Using it Better,” Brian Macrae, Synapse Partners, LLC

“A Case in Biomimicry, LEED for Homes & Resilience,”

Kevin Stack, LEED Faculty; Northeast Green Building Consulting, LLC

“Evaluating Passive and Active Solar Design and Performance Interaction: Preliminary Measured Results,” Ulrike Passe, Iowa State University College of

Design Department of Architecture

TRACK C

URBAN ECOSYSTEMS

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WORKSHOP 3 TAILORING THE URBAN LANDSCAPE

“Flood Resistance to Flood Resilience: Mapping our Water Systems Through Landscape Architecture and Urban Design,” Kendra FitzRandolph, Cornell University

“Toward Biophilic Urbanism in Buffalo, New York - A University / Not-For-Profit Collaboration,” Emanuel Carter, SUNY-ESF

“The Impact of Climate Regime Shift on Long-term Spatiotemporal Trends of Hydrologic Variables—A Case Study of the Merrimack Watershed, NH-MA,”

Rouzbeh Berton, Department of Civil and Environmental Engineering, Syracuse University

10:45 – 11:00

COFFEE BREAK & POSTER VIEWING

11:00 AM – 12:00 PM

TRACK A

TECHNOLOGY FOR URBAN RESILIENCE

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WORKSHOP 4
INDOOR
ENVIRONMENTAL
QUALITY

“Virtual Design’ Studio for Hot and Humid Climates in China,”

Chen Yuan, School of Architecture and Urban Planning, Nanjing University, China

“Experimental Study of Different Hygroscopic Materials in Hot and Humid Climate: Influence on Building Energy Consumption and Interior Thermal Environment,” Yibiao Liu, School of Architecture and Urban Planning, Nanjing University, China

“Indoor Relative Performance of Activated Carbon and Non-AC Filtration Media at High and Low Challenge Concentrations: Possibilities and Limitations,”
Kwang Hoon Han, Syracuse University

“Modeling of Particle Pollution via Resuspension from Human Walking for a Commercial Building,” Kyung Sul, Clarkson University

TRACK B

COMMERCIALIZING INNOVATIONS

WORKSHOP 5
INTEGRATED HEAT
RECOVERY: PART I

“Community Approaches to Industrial Energy Management,”

Peter Garforth, Principal, Garforth International, LLC

TRACK C

URBAN ECOSYSTEMS

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WORKSHOP 6
THE HUMAN
ELEMENT

“Finger Lakes Regional Sustainability Plan—Enhancing the Region’s Capacity for Sustainable Decision Making,” Aileen Meyer and Kevin Kelley, C&S Companies

“The Onondaga Lake Experience: Understanding Relationships of Place Attachment and Participation within an Urban Social Exological Landscape,”
Erica Tauzer, SUNY-ESF

“Open Collaborative Lab,” Honey Berk, Yanelly Bailey, CUNY BP Lab

“Vision CNY Regional Sustainability Plan,” Central New York Regional Planning and Development Board

12:00–1:30

LUNCH & FEATURED SPEAKER

1:30 – 2:30 PM

TRACK A

TECHNOLOGY FOR URBAN RESILIENCE

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WORKSHOP 7
DATA COLLECTION
AND APPLICATION

“Smart Energy and Water Grids for Sustainable and Resilient Urban Systems,”
Eric Williams, Golisano Institute for Sustainability, RIT

“A Sustainable Management of End-of-Life Lithium Ion Batteries,”
Xue Wang, Golisano Institute for Sustainability, RIT

“Community Ecology Inspires a New Approach to Assessing New Energy Impacts of Household Electronics,” Erinn Ryen, RIT

“Variations in Carbon Dioxide Emissions,” Geoffrey Millard, Electronics Technician, SyracuseCoE

TRACK B		COMMERCIALIZING INNOVATIONS				
WORKSHOP 8 INTEGRATED HEAT RECOVERY: PART II		“Community Approaches to Industrial Energy Management - Experiences from the City of Guelph,” Peter Garforth, Principal, Garforth International, LLC				
TRACK C		URBAN ECOSYSTEM		A	R	
WORKSHOP 9 GREEN INFRASTRUCTURE RESEARCH		“The Oncenter Green Roof: Water Mass Balance on a Large Extensive Green Roof,” Mallory Squier, College of Engineering and Computer Science, Syracuse University “Verify Retention Capacity of SyracuseCoE Green Roof Using Cesium Fluoride Tracer; Qualitative and Quantitative Results; Contrast/Compare to Urban Precipitation,” Dimitar Todorov, Department of Environmental Engineering, Syracuse University “Green Infrastructure in Onondaga County and the Diffusion of Sustainable Stormwater Management Technologies,” Carli Flynn, College of Engineering and Computer Science, Syracuse University				
2:30–2:45		BREAK AND POSTER VIEWING				
2:45 – 3:45 PM						
TRACK A		TECHNOLOGY FOR URBAN RESILIENCE		P	A	
WORKSHOP 10 ALTERNATIVE ENERGY TECHNOLOGIES		“Enzymatic Hydrolysis of Old Corrugated Cardboard Fines with Surfactant,” Byeongeheol Min, SUNY-ESF “Analysis of Fluid/Structure Interaction of Wave-Energy Converters,” Alessandro Anzani, WavElectric (CAP winner) “Current and Theoretical Sun-to-Wheels Energy Efficiency of Corn Ethanol and Solar PV as Transport Fuels,” Ashok Sekar, Golisano Institute for Sustainability, Rochester Institute of Technology “Promotion of Biofuels in the Finger Lakes Region Through Development of an Interactive, Web-Based Global Information System Tool,” Jacqueline Ebner, Golisano Institute for Sustainability, Rochester Institute of Technology				
TRACK B		COMMERCIALIZING INNOVATIONS				
WORKSHOP 11		To Be Announced				
TRACK C		URBAN ECOSYSTEM		A	R	
WORKSHOP 12		Four Presentations from National Green Infrastructure Model Communities				
3:45 – 4:00PM		POET-IN-RESIDENCE				
4:00 – 4:45		CLOSING PANEL DISCUSSION				
4:45 – 5:00		CLOSING REMARKS				