

SYRACUSE CENTER OF EXCELLENCE PRESENTS:  
The 8th Annual Symposium on Environmental & Energy Systems

CREATING RESILIENCE  
IN SUSTAINABLE COMMUNITIES

September 29 & 30, 2008 | Oncenter, Syracuse  
syracusecoe.org/symposium/2008

Monday, September 29, 2008

7:30 am *Registration & Breakfast*

8:00 *Welcome*

**Hon. James T. Walsh**, US Representative



Now in his tenth term, Jim Walsh proudly represents New York's 25th Congressional District in the U.S. House of Representatives. Walsh is a longtime member of the House Appropriations Committee and chair of the Legislative Affairs Appropriations Subcommittee. When Walsh held fiduciary oversight over the Department of Housing and Urban Development, he created the highly successful Syracuse Neighborhood Initiative, credited with serving as a major catalyst for increased downtown investment, expanded and enhanced housing opportunities, and improved citizen involvement and neighborhood pride throughout Syracuse. To date, Walsh has secured more than \$30 million in federal funding for research and development for the Syracuse CoE.

8:30 *Adaptation, Resilience, and Capacity to Cope with Environmental Change*

**J. Marty Anderies**, Associate Professor, School of Human Evolution and Social Change and School of Sustainability, Arizona State University



Marty Anderies' current research interests focus on robust management and robust institutional design for coupled social-ecological systems. He studies a range of archaeological, historical, and present-day examples of social-ecological systems using formal mathematical modeling and analysis to develop an understanding of ecological, behavioral, social, and institutional factors that generate vulnerability and/or enhance resilience and robustness in social-ecological systems.

9:30 *Overview of SyracuseCoE R&T Roadmaps*

**Ed Bogucz**, Executive Director, SyracuseCoE

**Charles Driscoll**, University Professor of Civil & Environmental Engineering, Syracuse University

**James Olcott**, Upstate New York Business Development Manager, Constellation Energy

**Larry Wetzel**, Chairman, Air Innovations

10:30 *Break*

11:00 *Research & Technology Forum Tracks: Clean & Renewable Energy, Indoor Environmental Quality, Water Resources*

12:00 pm *Lunch*

1:00 *Research & Technology Forums Continued*

2:30 *Break*

3:00 *The Impact of Building Materials on Climate and Environment*

**Kevin Surace**, CEO, Serious Materials



A noted speaker and writer on climate change and the built environment, Kevin Surace is on a mission to significantly reduce the use of fossil fuels and their effect on the environment. As CEO of Serious Materials, Surace leads the company in its mission to reduce energy usage and CO2 generation of the world's largest contributor, our buildings. By developing new materials and processes that require little energy to manufacture and advanced products that dramatically improve the insulation and comfort of homes and offices, Surace believes a worst-case climate and energy catastrophe can be avoided.



4:00 *Sustainable Planning, Green Collar Job Growth, Innovative Technological Solutions, & Environmental Stewardship*

**Majora Carter**, Founder, Sustainable South Bronx



Majora Carter simultaneously addresses public health, poverty alleviation, and climate change as one of the nation's pioneers in successful green-collar job training and placement systems. She founded Sustainable South Bronx in 2001 to achieve environmental justice through economically sustainable projects informed by community needs. Her work has been noted in numerous books and celebrated with awards from the National Audubon Society, the EPA, the NRDC, and the AIA among many others. She is a MacArthur "Genius" Fellow, one of Essence Magazine's 25 Most Influential African-Americans, one of the NY Post's Most Influential NYC Women for the past two years, and a board member of the Wilderness Society.

5:00 *Cocktail Reception & Poster Viewing*

7:00 *Dinner*

**Linda Hartsock**, Regional Director for Central New York, NYS Empire State Development Corporation



Linda Hartsock manages the operations of ESD's Syracuse-based Central New York office. She has more than 15 years experience in economic development and planning. Before joining ESD, she was the Executive Director of the Cortland County Business Development Corporation. From 1993-1999, she served as President and CEO of Pattern for Progress, a nonprofit organization in Newburgh, New York dedicated to regional planning, research, policy and development. Hartsock was a faculty member at Marist College from 1996-1986.

## Tuesday, September 30, 2008

7:30 am *Breakfast*

8:15 *Welcome*

**Hon. William B. Magnarelli**, New York Assemblyman



Bill Magnarelli represents the 120th Assembly District. As Chair of the Legislative Task Force on University-Industry Cooperation, Magnarelli is using Central New York's unique resources—world-class universities and high-tech companies—to create jobs and attract new industries. Magnarelli serves as Chair of the Ethics Committee and is a member of the Steering Committee. His Standing Committee assignments are Economic Development, Job Creation, Commerce, and Industry; Education; Health; Oversight, Analysis, and Investigation; and Veterans' Affairs. Funds secured by Magnarelli support SyracuseCoE's Commercialization Assistance Program.

8:30 *Civic Ecology: Resilience Thinking in Urban Social-Ecological Systems*

**Keith Tidball**, Associate Director, Civic Ecology Initiative, Cornell University



Keith Tidball serves as Associate Director of the Civic Ecology Initiative at Cornell University where he helps people organize, learn, and act in ways that increase their capacity to withstand—and where appropriate, to grow from—environmental change and uncertainty. He focuses on efforts that nurture cultural and ecological diversity, create opportunities for civic participation, and that foster learning from different types of knowledge to increase community capacity and resilience.

9:15 *Break*

9:30 *Resilience in Practice I: Bronx Environmental Stewardship Training*

**Majora Carter**



The Bronx Environmental Stewardship Training program is one of the nation's first and most successful green-collar job training and placement systems. Focused on the need for urban horticultural infrastructure, and the lack of skilled labor, the 10-week program includes green-roof installation and maintenance, brownfield remediation, urban forestry design and maintenance, wetland/estuary restoration, and stream bank stabilization training. Learn more at [www.ssbx.org](http://www.ssbx.org).

10:00 *Resilience in Practice II: From Tragedy to New Hope—The Greening of Greensburg, Kansas*

**David Doyle**, US Environmental Protection Agency, Region 7



David Doyle works for the US Environmental Protection Agency's Regional Office in Kansas City, KS. As the EPA's regional Land Revitalization Coordinator, he assists EPA program staff, property owners, and communities in reusing and revitalizing contaminated properties in a sustainable manner.

10:30 *Resilience in Practice III: LEED-Neighborhood Development*

**Matt Raimi**, Raimi + Associates

Matt Raimi is Principal of Raimi + Associates. He has more than a dozen years of experience in planning and has managed numerous comprehensive plans, open space plans and site planning projects across California. He focuses on creating more livable and sustainable cities and has spoken extensively on applying the principles of new urbanism to comprehensive plans, incorporating public health concerns into the planning process, and promoting sustainable development at the local level.

- 11:00 *Resilience in Practice IV: Smart Growth Planning Policies—“Smart Growth is Smart Energy”*  
**Paul Beyer**, Director of Smart Growth, New York Department of State
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- Paul Beyer is the State Director of Smart Growth at the New York Department of State. In this position, he oversees the Governor’s Smart Growth Cabinet, a group of state agencies committed to promoting Smart Growth on the state and local level in New York. Beyer’s experience in land use and Smart Growth began 20 years ago when he worked for State Assembly Member Pete Grannis—now the DEC Commissioner—on legislation to promote the Transfer of Development Rights, among other land use policies. Beyer served as a member of the Planning Board in the Town of Amherst, NY for five years, and served on the Board of Directors of Partners for a Livable Western New York, the premier Smart Growth advocacy group in the Buffalo area.
- 11:30 *Resilience in Practice Panel Discussion*
- 12:30 pm *Lunch*
- 1:30 *SyracuseCoE Funding Opportunities: Collaborative Research and Technology Demonstration Grants*
- 2:00 *R&T Workshop Tracks: Clean & Renewable Energy, Indoor Environmental Quality, Water Resources, Workforce Development*  
 Facilitated discussions on strategic planning documents being developed by SyracuseCoE Members, which are being used to identify areas for investment of research and technology development dollars for job creation and economic development in environmental and energy systems.
- 4:30 *Adjourn*

## Research & Technology Forum Presentations—Monday, Sept. 29

### CLEAN & RENEWABLE ENERGY TRACK

- 11:00 am **Jeff Petersen**, NYSERDA: “Opportunities for Renewable Energy Businesses in New York State”
- 11:30 **Darek Letkiewicz & Parikhith Sinha**, O’Brien & Gere: “Reducing Your Carbon Footprint: Practical Guidance for Developing and Implementing a Plan for Your Facility”
- 1:00 pm **Hugh Henderson**, CDH Energy, & **Kevin Stack**, Northeast Green Building Consulting: “Home Performance Improvement Challenge: Making Moderately Priced Homes More Energy Efficient”
- 1:30 **Ken Visser**, Clarkson University: “Wind Energy: The Home Heating and Commercial 300 kW Optiwind Project”
- 2:00 **Timothy Volk**, SUNY-ESF: “Assessing the Sustainability of Willow Biomass Crops as a Feedstock of Bioenergy, Biofuels, and Bioproducts”



### INDOOR ENVIRONMENTAL QUALITY TRACK

- 11:00 am **John Spengler**, Harvard University: “A generation of Indoor Air Science: Accomplishments and Challenges”
- 11:30 **Peter V. Nielsen**, Aalborg University, Denmark: “Ventilation for Control of Airborne Infectious Diseases in Built Environments”
- 1:00 pm **John Vasselli**, Carrier Corp.: “Air Conditioning Redefined”
- 1:30 **Jim Miller**, NuClimate: “The Q Air Terminal”
- 1:45 **Crista Shopis & Yossi Bronsnick**, Taitem Engineering: “A Desiccant Split-Stream Air Conditioning System”
- 2:00 **Larry Wetzel**, Air Innovations & **Andrea Ferro**, Clarkson University: “The HEPAiRx System and Field Study”
- 2:15 **Joe Kummer**, Propulsive Wing: “A Multi-Use Personal Ventilation/Filtration System”



### WATER RESOURCES TRACK

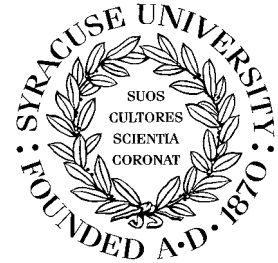
- 11:00 am **Steve Effler**, Upstate Freshwater Institute: “Dramatic Improvements in Water Quality of Onondaga Lake from Increased Wastewater Treatment”
- 11:30 **Greg Boyer**, SUNY-ESF: “Harmful Algal Blooms in the Great Lakes: Issues & Opportunities”
- 1:00 pm **Jim Bonner**, Clarkson University: River and Estuary Observation Network (REON): A Coastal Margin Environmental Assessment System
- 1:30 **Michael E. Hooker**, Onondaga County Water Authority: “Developing Technologies, Needs, and Opportunities in the Drinking Water Industry”
- 2:00 **Mark Meyers**, Quantative Environmental Analysis: “Real-Time Compliance Assessment for Contaminated Sediment Site Remediation”



Download all conference materials at [syracusecoe.org/symposium/2008](http://syracusecoe.org/symposium/2008)



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