

**4<sup>th</sup> Annual International Greening Rooftops for Sustainable Communities  
Conference, Awards, and Trade Show – Agenda At A Glance**

<b>Wednesday, May 10, 2006</b> <i>Pre-Conference Day: Training Courses &amp; Workshop</i>		
7:30 am	<b>Registration Desk Opens – Hynes Convention Center, Exhibit Hall B</b>	1:00 pm – 5:00 pm Sheraton Boston Hotel Beacon B, 3 <sup>rd</sup> Floor  Green Roof Policy Development Workshop (GRHC members: \$125; non-GRHC members: \$175)  <i>Presented by Lois Vitt Sale, Phoenix Architects Inc., and a Panel of Policy Makers</i>
8:30 am – 12:30 pm Sheraton Boston Hotel Conference Room 6, 5 <sup>th</sup> Floor	Design for Biodiversity Workshop (GRHC members: \$125; non-GRHC members: \$175)  <i>Presented by Dr. Stephan Brenneisen, University of Applied Sciences Wadenswil, and Paul Kephart, Rana Creek Habitat Restoration and Living Architecture</i>	1:00 pm – 5:00 pm Sheraton Boston Hotel Beacon D, 3 <sup>rd</sup> Floor  ASTM Standards Workshop (GRHC members: \$125; non-GRHC members: \$175)  <i>Presented by Maureen Connelly, BCIT; Robert Berghage, Penn State; and Manfred Kohler, FLL/Neubrandenberg University</i>
8:30 am – 5:00 pm Sheraton Boston Hotel Gardnar Room, 3 <sup>rd</sup> Floor	Green Roof Design 101: Introductory Training (delegates: \$225; non-delegates: \$345)	2:00 pm – 5:00 pm  Green Roof Tours – pre-registration required <i>Meet at Registration Desk, Hynes Convention Center Hall B</i>
8:30 am – 5:00 pm Sheraton Boston Hotel Conference Room 4, 5 <sup>th</sup> Floor	Green Roof Design and Implementation 201 (delegates: \$225; non-delegates: \$345)	6:00 pm – 7:00 pm Hynes Convention Center, Hall B  Mayor's Reception and Welcome
9:00 am – 12:00 pm Sheraton Boston Hotel Beacon A, 3 <sup>rd</sup> Floor	Green Roofs for Healthy Cities Corporate Members Committee Meeting <i>Chair: Steve Skinner, American Hydrotech</i>	<hr/> 6:00 pm – 10:00 pm Hynes Convention Center, Hall B  TRADE SHOW FLOOR OPEN
9:00 am – 12:00 pm Sheraton Boston Hotel Beacon D, 3 <sup>rd</sup> Floor	Green Roofs for Healthy Cities Research Committee Meeting <i>Chair: Dr. Bradley Rowe, Michigan State University</i>	
9:00 am – 12:00 pm Sheraton Boston Hotel, Beacon B, 3 <sup>rd</sup> Floor	Green Roofs for Healthy Cities Policy Committee Meeting <i>Chair: Lois Vitt Sale, Wight and Company</i>	
9:00 am – 5:00 pm Hynes Convention Center Exhibit Hall B	<b>TRADE SHOW EXHIBITOR SET-UP</b>	



**Thursday, May 11, 2006**

7:30 am  
Hynes Convention Center, Exhibit Hall B

**Registration Desk Opens**

9:00 am – 10:00 am  
Sheraton Boston Hotel Republic Room

**Opening Plenary**

Jim Hunt, Chief of Environmental and Energy Services, City of Boston

Steven Peck, Founder and President, Green Roofs for Healthy Cities

10:15 am – 11:45 am  
Hynes Convention Center, Room 102, Plaza Level

**Policy and Program Development  
Session 1.1: Selected Policy Developments from North America**

Councillor Joe Pantalone, Deputy Mayor, City of Toronto, and Liora Zion Burton, City of Toronto, *Making Green Roofs Happen in Toronto*

Paul Chellsen, City of Minneapolis Public Works, *“The Stick and The Carrot” - An Effective Approach to Green Roof Policy*

*TBC*

Moderator: Carl Spector, City of Boston, Department of the Environment

10:15 am – 11:45 am  
Hynes Convention Center, Room 103, Plaza Level

**Case Studies and Design  
Session 1.2: Lessons from “The Green Giants”**

Terry Guen, Terry Guen Design Associates, *Learning From Millennium Park, Chicago*

Michele Adams & Andrew Potts, Cahill Associates Inc., *Rams Head Center: An Innovative Vegetative Roof Plaza at the University of North Carolina*

David Walsh, Copley Wolff Design Group, *The Rose Kennedy Greenway: a 30 Acre Green Roof Installation atop the Boston “Big Dig”*

Moderator: Peter Lowitt, Devens Enterprise Commission

**Research on Technical Performance Benefits – Session 1.3: Plant Performance and Biodiversity**

Dr. Bradley Rowe, Michigan State University, Dept. of Horticulture, *Assessment of Substrate Depth and Composition on Green Roof Plant Performance*

10:15 am – 11:45 am  
Hynes Convention Center, Room 112, Plaza Level

Dr. Nigel Dunnett, University of Sheffield, *Green Roofs for Biodiversity: Reconciling Aesthetics with Ecology*

Ayako Nagase, University of Sheffield, and Christine Thuring, Penn State University, *Plant Responses to Drought on Extensive Green Roofs: The Effects of Temperature, Substrate Type, and Substrate Depth*

Moderator: Lance Davis, U.S. General Services Administration Public Building Service, Office of Applied Science

12:00 Noon – 2:00 pm  
Hynes Convention Center, Hall B

**TRADE SHOW OPEN  
Lunch Served on Trade Show Floor**

Poster Session Presentations, Trade Show Floor

2:15 pm – 3:45 pm  
Hynes Convention Center, Room 102, Plaza Level

**Policy and Program Development  
Session 2.1: Quantifying Green Roof Benefits for Policy Development**

Susana Saiz-Alcazar, Moriyama and Teshima Architects, *Life Cycle Assessment of Green Roofs - Case Study of an Eight-story Residential Building in Madrid and Implications for Green Roof Benefits*

Lisa Kosareo & Dr. Robert Ries, University of Pittsburgh, *Life Cycle Assessment of a Green Roof in Pittsburgh*

Corrie Clark, University of Michigan Department of Civil and Environmental Engineering, *Probabilistic Economic Analysis of Green Roof Benefits for Policy Design*

Moderator: Lois Vitt Sale, Phoenix Architects Inc..



<b>Thursday, May, 11, continued</b>		
<p>2:15 pm – 3:45 pm Hynes Convention Center, Room 103, Plaza Level</p>	<p><b>Case Studies and Design Session 2.2: Case Studies: Green Roofs in the Public Eye</b></p> <p>Lance Davis, U.S. General Services Administration Public Building Service, Office of Applied Science, <i>Green Roofs of the United States Government</i></p> <p>Meg Needle, Lord Aeck Sargent, Architecture, &amp; Steve Cannon, Gwinnett Environment and Heritage Center, <i>A Green Roof for the Next Generation: The Gwinnett Environmental and Heritage Center</i></p> <p>Scott Wylie, Wytech Building Envelope Solutions &amp; Terry McGlade, Gardens in the Sky <i>The St. Christopher School Experience</i></p> <p>Moderator: Eileen Pannetier, Comprehensive Environmental Inc.</p>	<p>4:00 pm – 5:30 pm Hynes Convention Center, Room 102, Plaza Level</p> <p><b>Policy and Program Development Session 3.1: Innovations from North America and Beyond</b></p> <p>Peter Philippi, Green Roof Service, LLC, <i>How to Achieve Cost Reduction in Green Roof Construction</i></p> <p>John Dalzell, Boston Redevelopment Authority, <i>Mayor Menino's Green Building Task Force And Boston's Green Team: A Chronicle</i></p> <p>Moderator: Amelia Ravin, CDM</p>
<p>2:15 pm – 3:45 pm Hynes Convention Center, Room 112, Plaza Level</p>	<p><b>Research on Technical Performance Benefits – Session 2.3: Optimization of Energy Performance</b></p> <p>Joseph Hagerman, 2005 Rafael Viñoly Research Fellow and Masters Candidate, Columbia University, and David Hodge, Rafael Viñoly Architects, <i>Optimizing the Building Envelopes with Green Roofs: A Discussion of Architectural and Energy Performance Requirements</i></p> <p>Ryan Martens, MDA Corporation, &amp; Brad Bass, Environment Canada, <i>Roof-Envelope Ratio Impact on Green Roof Energy Performance</i></p> <p>Dr. Stuart Gaffin, Center for Climate Systems Research, Columbia University, <i>Quantifying Evaporative Cooling From Green Roofs and Comparison to other Land Surfaces</i></p> <p>Moderator: Leslie Hoffman, Earth Pledge</p>	<p>4:00 pm – 5:30 pm Hynes Convention Center, Room 103, Plaza Level</p> <p><b>Case Studies and Design Session 3.2: Developing Principles to Drive Implementation</b></p> <p>Chris Shirley-Smith, Water Works UK Ltd. <i>A New Green Roof Water Recycling System – GROW</i></p> <p>Monique Dame, Group2 Architecture Engineering Interior Design, <i>Beyond the Idea: Getting Green Roofs Built</i></p> <p>L. Peter MacDonagh, The Kestrel Design Group, Inc, <i>Midwestern USA Plant Communities + Design = Bedrock Bluff Prairie Green Roofs</i></p> <p>Moderator: Peter J. D'Antonio, Sarnafil Roofing and Waterproofing Systems</p>
	<p>4:00 pm – 5:30 pm Hynes Convention Center, Room 112, Plaza Level</p> <p><b>Research on Technical Performance Benefits Session 3.3: Stormwater and Green Roofs – Beyond the Benefits</b></p> <p>William F. Hunt, NC State University, Biological &amp; Agricultural Engineering, <i>Choosing the Right Green Roof Media for Water Quality</i></p> <p>Brian L. Taylor, Magnusson Klemencic Associates, <i>Planning a Green Roof Storm Runoff Monitoring System</i></p> <p>Leslie Hoffman &amp; Greg Loosvelt, Earth Pledge, <i>Earth Pledge's Green Roof Stormwater Modeling System</i></p> <p>Moderator: Steve Skinner, American Hydrotech</p>	



<p>5:45 pm – 7:45 pm Hynes Convention Center, Hall B</p>	<p><b>Exhibitor Reception – Trade Show Floor Open</b></p> <p>Poster Session Presentations, Trade Show Floor</p>		<p><b>Case Studies and Design Session 4.2: Technical Aspects of Design and Implementation</b></p> <p>Roland Appl, ZinCo GmbH, <i>Expanding the Range of Green Roof Applications Through Innovative Technical Solutions</i></p>
<p><b><u>Thursday, May 11, continued</u></b></p>		<p>8:30 am – 10:00 am Hynes Convention Center, Room 103, Plaza Level</p>	
<p>8:00 pm – 10:00 pm Sheraton Boston Hotel, Grand Ballroom</p>	<p>Keynote Speaker Gala Dinner</p> <p><b>Dr. John Todd Living Technologies Inc.</b></p> <p>Tickets available in advance for \$85 per person</p>		<p>Dr. Paul S. Mankiewicz, The Gaia Institute, <i>Sustainable Green Roof Design: Optimizing Water Budgets Through Wastes-into-Resources Technologies in the Bronx</i></p> <p>James R. Kirby, National Roofing Contractors Association, <i>Green Roofs: Understanding the Waterproofing Aspects</i></p> <p>Moderator: Allan Wingfield, Colbond</p>
<p><b>Friday, May 12, 2006</b></p>			
<p>8:00 am Hynes Convention Center, Hall B</p>	<p>Registration Desk Opens</p>		
<p>8:00 am – 11:00 am Sheraton Boston Hotel, Board Room, 3<sup>rd</sup> Floor</p>	<p>Green Roofs for Healthy Cities Board Meeting</p>		<p><b>Research on Technical Performance Benefits Session 4.3: Defining Plants for Peak Performance and Functionality</b></p> <p>Jeff Licht, Green Roof Consultant, LLC, &amp; Dr. Jeremy Lundholm, Saint Mary's University, <i>Native Coastal Plants for Northeastern Extensive and Semi-Intensive Green Roof Trays: Substrates, Fabrics and Plant Selection</i></p>
<p>8:30 am – 10:00 am Hynes Convention Center, Room 102, Plaza Level</p>	<p><b>Policy and Program Development Session 4.1: International Case Studies</b></p> <p>Dr. Nigel Dunnett, University of Sheffield, <i>Sheffield's Green Roof Forum: A Multi-stranded Programme for the UK's 'Greenest City'</i></p> <p>Sandra Marshall, Canadian Mortgage and Housing Corporation, <i>Case Studies of Green Roof Policy from Canada</i></p> <p>Rosemary Coyne, Groundwork Birmingham and Solihull, <i>Mainstreaming Green Roofs in Urban Regeneration, Birmingham UK</i></p> <p>Moderator: Professor Virginia Russell, University of Cincinnati</p>	<p>8:30 am – 10:00 am Hynes Convention Center, Room 112, Plaza Level</p> <p>10:30 am – 12:30 pm Hynes Convention Center, Hall B</p>	<p>Jeannette Compton and Thomas Whitlow, Urban Horticulture Institute, Department of Horticulture, Cornell University, <i>A Zero Discharge Green Roof System and Species Selection to Optimize Evapotranspiration and Water Retention</i></p> <p>Daniel Sekzer, Jakob Inc., <i>Benefits of Vertical Gardens</i></p> <p>Moderator: Maureen Connelly, British Columbia Institute of Technology</p>
		<p>12:45 pm – 2:15 pm Sheraton Boston Hotel, Republic Room, 2<sup>nd</sup> Floor</p>	<p>2006 Awards of Excellence Gala Awards Luncheon Presentation</p> <p><i>Master of Ceremonies: Nancy Summerville, ASLA</i></p>



**Friday, May 12, continued**

<p>2:30 pm – 3:30 pm Hynes Convention Center, Room 102, Plaza Level</p>	<p style="text-align: center;"><b>Policy and Program Development Session 5.1: Integrated Benefits Analysis at the City Scale</b></p> <p style="text-align: center;">Hitesh Doshi, Ryerson University Department of Architectural Science, <i>Environmental Benefits of Green Roofs on a City Scale – An Example of City of Toronto</i></p> <p style="text-align: center;">Michael Berkshire, City of Chicago, <i>Fast Track Permitting and Incentives for Residential Green Roofs in Chicago</i></p> <p>Moderator: Monica Kuhn, Architect, Green Roofs for Healthy Cities Board Member</p>
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<p>2:30 pm – 3:30 pm Hynes Convention Center, Room 103, Plaza Level</p>	<p style="text-align: center;"><b>Case Studies and Design Session 5.2: Living Walls and Vertical Gardens</b></p> <p style="text-align: center;">Dr. Manfred Köhler, University of Applied Sciences Neubrandenburg, <i>Living Wall Systems – A View Back and Some Visions</i></p> <p style="text-align: center;">Randall Sharp, Sharp &amp; Diamond Landscape Architecture &amp; Planning, <i>Green Walls and Green Towers</i></p> <p>Moderator: Jeffrey L. Bruce, Jeffrey L. Bruce &amp; Company, Green Roofs for Healthy Cities Board Member</p>
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<p>2:30 pm – 3:30 pm Hynes Convention Center, Room 112, Plaza Level</p>	<p style="text-align: center;"><b>Research on Technical Performance Benefits Session 5.3: Aesthetics and Cooling – Green Roofs and Walls</b></p> <p style="text-align: center;">Hyukjae Lee, Meiji University, Japan, <i>Research on the Scenic Meaning of Rooftop Greening with Semantic Differential Measure and Join-count Statistics</i></p> <p style="text-align: center;">Marco Schmidt, Technical University of Berlin, <i>The Evapotranspiration of Greened Roofs and Facades</i></p> <p>Moderator: Dr. Bradley Rowe, Michigan State University</p>
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<p>3:45 pm – 4:45 pm Hynes Convention Center, Room 112</p>	<p style="text-align: center;"><b>Track Summaries and Industry Development Challenge</b></p> <p>Panelists include: Peter Lowitt, Devens Enterprise Commission, Green Roofs for Healthy Cities Chairman; Steven Peck, Founder and President, Green Roofs for Healthy Cities; Bryan Glascock, City of Boston Department of the Environment; Dr. Brad Bass, Environment Canada at University of Toronto; Maureen Connelly, BCIT, Co-chair GRHC Research Committee; Lois Vitt Sale, Phoenix Architects, Chair GRHC Policy Committee</p>
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<p>5:00 pm Registration Desk, Hynes Convention Center Hall B</p>	<p style="text-align: center;">Green Roofs Tours – pre-registration required.</p>
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**Saturday, May 13, 2006**

<p>8:30 am – 5:00 pm Sheraton Boston Hotel Gardnar Room, 3<sup>rd</sup> Floor</p>	<p style="text-align: center;">Green Roof Design 101: Introductory Training (delegates: \$225; non-delegates: \$345)</p>
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<p>8:30 am – 5:00 pm Sheraton Boston Hotel Hampton Room, 3<sup>rd</sup> Floor</p>	<p style="text-align: center;">Green Roof Design and Implementation 201 (delegates: \$225; non-delegates: \$345)</p>
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<p>8:30 am – 12:30 pm Sheraton Boston Hotel, Berkeley Room, 3<sup>rd</sup> Floor</p>	<p style="text-align: center;">Design for Biodiversity Workshop (GRHC members: \$125; non-GRHC members: \$175)</p> <p style="text-align: center;"><i>Presented by Dr. Stephan Brenneisen, University of Applied Sciences Wadenswil, and Paul Kephart, Rana Creek</i></p>
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<p>9:00 am – 3:00 pm Sheraton Boston Hotel, Main Floor Lobby</p>	<p style="text-align: center;">Guided Green Roofs Tours – pre- registration required</p>
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