



GREEN ROOFS, ATLANTA -- PUSHING THE ENVELOPE ...

Hyatt Regency – Atlanta

265 Peachtree Street, NE, Atlanta, Georgia, Telephone: 404-577-1234

Pushing the Envelope - it means going beyond the norm, out of the box thinking, stretching the boundaries of the possible. We invite you to join us in Atlanta, to push the envelope by discovering new approaches to obtaining additional value from green roofs and green walls through integrative building design. Learn how to produce food, save water and maximize energy benefits; Discover new research that explores performance benefits related to energy efficiency, carbon sequestration, plants and water management; Network with leading manufacturers and award winning experts who are designing sustainable systems; Liaise with government officials and policy makers and participate in discussions to develop new ways of implementing green infrastructure policies and programs. Most of all, be part of the Inaugural Class of 2009 and become an agent for change as we lay a fundamental cornerstone for this industry with our first Green Roof Professional (GRP) Accreditation Exam on June 5th. Come celebrate with us in the South, and emerge as one of the first and leading Green Roof Professionals in your community, as together we push the envelope on living architecture!

Many thanks to our sponsors for their continued support:



Tuesday, June 2, 2009

- 1:00 pm – 8:00 pm **Golf Tournament – Bobby Jones Golf Course** -- *Mark your calendars now and plan to participate in the first annual GRHC Golf Tournament at the Bobby Jones Golf Course! This is a charitable event with all proceeds going to support the newly formed Green Infrastructure Foundation. Open to all GRHC members, their employees, guests, spouses and prospective members. Create your own foursome or let us assign you to one. This is a great networking event!*
(Ticketed Event – Pre-Registration Required)
- 1:00 pm - 8:00 pm **On-Site Registration Desk Opens** – Grand Hall, East Foyer
Hyatt Regency Hotel
- 1:00 pm - 5:00 pm **Green Roof Tours** - Depart from Hotel Lobby -- *Discover Atlanta through a series of six tours featuring more than 15 green roofs demonstrating the most innovative, efficient, celebrated projects in the South. Access green roofs rarely open to the public and meet with the architects and landscape architects who created these outstanding projects and learn the secrets of their success.*
(Ticketed Event – Pre-Registration Required)

Wednesday, June 3, 2009

- 7:30 am - 5:30 pm **On-Site Registration Desk Opens** – Grand Hall, East Foyer
Hyatt Regency Hotel
- 8:30 am - 5:00 pm **Conference Training Sessions -Available At Preferred Rates for Conference Attendees** (Ticketed Events – Pre-Registration Required)

Green Roof Design 101: Introductory Course

Green Roof Design 101 introduces participants to the numerous public and private benefits of green roofs and presents many of the tools and techniques needed to meet your green roof project objectives. Participants will learn about major design principles, types of green roof products and systems and their relevance, and the professions and competencies that are necessary for a successful green roof project.

Room: Hanover C

Green Roof Infrastructure: Design and Installation 201

This is an immensely practical course that provides participants with an in-depth information on the multitude of green roof implementation issues from the first client meetings through scheduling, insurance and permit issues, site analysis, construction considerations, sub contracting, building a qualified project team, post construction maintenance and more.

Room: Hanover D

Green Roof Infrastructure: Waterproofing and Drainage 301

Green Roof Waterproofing and Drainage 301 presents an overview of the many tools and techniques needed to meet green roof waterproofing and drainage project objectives. This includes: understanding waterproofing and drainage terminology for better communication with the various professions involved, understanding waterproofing and drainage assemblies and systems, an overview of major design principles, Best Management Practices and a review of the professions and competencies required for delivering a successful green roof project.

Room: Hanover E

Green Roof Infrastructure: Plants and Growing Medium 401

This, our final, core course for the Green Roof Professional (GRP) accreditation provides participants with an overview of plants and growing media design considerations and maintenance for green roof assemblies. In addition to establishing design and implementation best management practices, the course covers the principles of plant physiology and soil sciences as they apply to green roofs, identifies applications of various plant and growing media, teaches the technical requirements for growing media and plant life and gives an understanding of the potential implementation issues related to plant care and growing media contamination.

Room: Hanover F

Green Wall Design 101: Introductory Course

Green Walls 101 is the first green wall course presented by GRHC. Developed through an industry committee with technical peer review from various design professionals, this course presents an overview of the many tools and techniques needed to satisfy your green wall project objectives. You will learn how to identify green wall costs and benefits, different types of products and performance criteria, major design principles, and how to avoid the types of mistakes that might lead to an unsuccessful project. Room: Hanover AB

9:00 am - 12:00 pm **Policy Roundtable – Exploring Opportunities to Use the New Green Roof Professional (GRP) Designation for Procurement**

Room: Baker

Peter Lowitt, Chair, GRHC, and Dr Hamid Karimi, Ph.D., Deputy Director, District Department of the Environment (DDOE) – Natural Resources, Washington D.C.
Moderator: Hitesh Doshi , Professor, Ryerson University

9:00 am - 12:00 pm **Green Infrastructure Workshop** (Ticketed Event – Pre-Registration Required)

Room: Hanover G

The Green Infrastructure Foundation is proud to present the *Green Infrastructure Workshop*, a half day seminar that will provide attendees with a review of various vegetative technologies in urban areas (i.e., green walls, roofs, urban forests, rain gardens) present the latest research on their many performance benefits and show case a variety of leading edge policy and program developments in cities such as Chicago, Seattle, New York and Toronto that support the greening of our cities. Ideal for policy makers and other advocates of urban greenery.

10:00 am - 5:00 pm **Exhibitor Set-up**

Room: Grand Hall

1:00 pm - 2:30 pm **Green Roofs for Healthy Cities Corporate Members Sub-Committee Meetings** (*Corporate members only*)

Green Save Calculator – Chair: Ralph Velasquez, Sustainable Technologies Manager, Tremco, Room: Baker; *Growing Medium* – Chair: Rick Buist, President, Bioroof, Room: Fairlie; *Integrated Building Water Management* – Chair: Rob Cisneros, CETCO, Room: Greenbriar; *Green Walls* – Chair: Reuben Freed , greenscreen, Room: Inman; *Membership* – Chair: Peter D’Antonio, Manager of Waterproofing Systems, Sika – Sarnafil, Room: Kennesaw

1:00 pm - 5:00 pm **GreenSave Calculator Training Workshop** (Ticketed Event – Pre-Registration Required)

This half day training session is invaluable to those who are seeking to understand the cost-benefit methodology utilized in GHRC’s GREENSAVE CALCULATOR. Jamie Miel, Athena Institute, developer of the GREENSAVE CALCULATOR will be the trainer. Attendees will need to bring their own lap top computers with wireless capability to connect to the internet.

Room: Hanover G

ASTM and FLL and New Fire and Wind Standards Workshop This half-day workshop will familiarize attendees with the testing protocol established by ASTM and FLL for green roof products. It will also provide an overview of the new Fire and Wind Standards that have been recently developed by GRHC and SPRI. This workshop is valuable to green roof product manufacturers who want to understand how testing protocols are related to their products and designers in areas where there are high winds.

Room: Hanover AB

Presenters: Dr. Robert Berghage, Director, Center for Green Roof Research , Dr. Manfred Köhler, Fachvereinigung Bauwerksbegrünung, Germany (FBB), University of Applied Sciences, Neubrandenburg; Kelly Luckett, President, Green Roof Blocks, Chair, Technical Committee

1:00 pm - 6:00 pm **GRHC Research Committee Meeting and From Sites to Communities -- Developing an Evaluation Matrix for Community Scale Green Roof Benefits** (*Open to all members*)

This two-part session will combine a meeting of the GRHC Research Committee with a second part that will focus on efforts to develop cost-effective methods to conduct an evaluation of the many public and private benefits that stem from widespread green roof research and to determine to what extent research on these benefits in various cities is transferable to other jurisdictions. Benefits examined will include urban heat island effect moderation, energy savings, greenhouse gas emission reduction, green job creation, stormwater management etc. A report on the results of this second part of the session will be provided in Session 3.4.

Room: Learning Center

Presenters: Dr. Brad Bass, Chair of GRHC Research Committee, Environment Canada; Hitesh Doshi, Professor, Ryerson University

3:00 pm - 5:00 pm **Green Roofs for Healthy Cities Corporate Members Committee Meeting** (*Corporate Members only*)
Chair: Rick Buist, President, Bioroof Systems, Inc.
Room: Regency V

Thursday, June 4, 2009

7:00 am - 5:30 pm On-Site Registration Desk Open

8:15 am – 9:15 am **Open Plenary- Pushing the Envelope**

Welcoming Remarks – Mayor Shirley Franklin, City of Atlanta (Invited) and Peter Lowitt, Outgoing Chair, GRHC

Pushing the Envelope – New Developments in Industry and the Promise of Green Jobs – Steven W. Peck, Founder and President, GRHC

Introducing The Green Infrastructure Foundation, Chair, Michael Krause, Principal, Kandiyohi Development, Co-Founder, Green Infrastructure Foundation
Room: Regency VII

To help you make your session selections, we have annotated a number of presentations as follows:

RR – Regionally Relevant

IS – International Case Study

Award Winning – Previous Recipient of a Green Roof Award of Excellence

Track 1 Policy and Program Development

Room: Hanover C--E

Session 1.1: Dreaming Big I: Policies to Support Green Roof Infrastructure in North America

FEDERAL REGULATORY DRIVERS OF GREEN INFRASTRUCTURE. *Jenny Molloy*, U.S. Environmental Protection Agency (EPA); *Nancy Arazan*, ORISE Fellow, EPA

LOCAL LEADERS: COMPARING GREEN BUILDING PROGRAMS IN CITIES AND COUNTIES THROUGHOUT AMERICA. *Brooks Rainwater*, Director, Local Relations, The American Institute of Architects (RR)

THE ELEPHANT IN THE ROOM – GSA'S (U.S. GENERAL SERVICES ADMINISTRATION) GREEN ROOFS. *Lance Davis*, Sustainable Design Expert, U.S. General Services Administration

Moderator: *Mandy Schmidt*, Director of Sustainability, City of Atlanta (invited)

Track 2 Case Studies and Design

Room: Hanover FG

Session 2.1: Waterproofing /Retrofitting and Regulations

THE GREEN ROOF WATERPROOFING CHALLENGE: PRINCIPLES AND BEST PRACTICES. *Douglas C. Fishburn*, President of Fishburn Building Sciences Group Inc.

PLANNING AND SELECTION OF WATERPROOFING SYSTEMS FOR GREEN ROOFS *Douglas Stieve*, WJE Engineers and Architects, P.C.

LESSONS LEARNED FROM 30 YEARS OF GREEN ROOFS IN MINNESOTA. *Barry Lehrman*, ASLA AIA, LEED-AP, Manager of Sustainable Design, Parker Design International

BUILDING CODE COMPLIANCE FOR GREEN ROOFS SYSTEMS. *Mark S. Graham*, Associate Executive Director, Technical Services – National Roofing Contractors Association

Moderator: *Kelly Luckett*, Green Roof Blocks

Track 3 Research on Technical Performance

Room: Regency V

Session 3.1: Unraveling the Energy/Water/Carbon Sequestration Equation

MEASURING THE ENERGY PERFORMANCE OF GREEN ROOFS. *Harriet Bell*, Sulzer Pumps; *Graig Spolek*, Professor of the Mechanical and Materials Engineering at Portland State University

COMPARATIVE EMBODIED ENERGY ANALYSIS TO ASSESS GREEN ROOF VALUE. *John Shramski*, P.E., Assistant Professor, Faculty of Engineering, University of Georgia; *David R. Tilley*, Associate Professor, Dept. of Env. Science and Technology, University of Maryland

THE WATER and ENERGY TRADEOFF DYNAMIC – WHEN USING WATER IS SAVING WATER. *Paul Mankiewicz*, Executive Director, The Gaia Institute (RR)

CARBON SEQUESTRATION POTENTIAL OF EXTENSIVE GREEN ROOFS. *Kristin Getter* and *Dr. Bradley Rowe*, Associate Professor, Michigan State University

Moderator: *Alfredo Fernandez-Gonzalez*, Associate Professor of Architecture, University of Nevada, Las Vegas

Track 4 “On the Roof With ...”

Room: Hanover AB

Session 4.1: Strategies for Reducing Costs and Maximizing Benefits

Track 4 is designed to provide an opportunity for delegates to learn from expert practitioners through short presentations and lots of discussion and debate on important issues related to green roof design and installation.

This session will provide an opportunity to learn from experts how to reduce the costs of green roofs and maximize the benefits. The session will feature short presentations and provide lots of time for questions and answers.

Tim Barrett, President, Barrett Company

Angie Durhman, Green Roof Specialist, Tecta America Company

Greg Harper, greengrid

Will Weaver, Chair, USGBC, Charlotte Region

Susan Wiler, Olin Partners (invited)

Moderator: *Jeffrey Bruce*, Jeffrey Bruce & Co.

Trade Show Open – Grand Hall (See list of exhibitors below)

10:00 am – 6:00 pm Hyatt Regency

11:30am – 1:00 pm
SESSION 2

<p>Track 1 Case Studies and Design Room: Hanover C—E</p>	<p>Track 2 Case Studies and Design Room: Hanover FG</p>	<p>Track 3 Research on Technical Performance Room: Regency V</p>	<p>Track 4 “On the Roof With ...” Room: Hanover AB</p>
<p>Session 1.2: <u>Understanding Plant Survival and the Role of Climate, Water and Growing Media</u></p>	<p>Session 2.2: <u>Green Wall Design Optimization</u></p>	<p>Session 3.2: <u>Greywater Treatment, Heat Flux and Stormwater Management - Toward System Optimization</u></p>	<p>Session 4.2: <u>Towards Best Practices in Specifying Green Roofs</u></p>
<p>DROUGHT AND THE DISCOVERY PLACE GREEN ROOF TRIALS, CHARLOTTE, NORTH CAROLINA. <i>Chuck Friedrich</i>, RLA, ASLA, Horticulture Product Manager, Carolina Stalite Company (RR)</p>	<p>GREEN ROOF + GREEN WALL = A HEALTHY HOSPITAL (BAPTIST HOSPITAL EAST IN LOUISVILLE, KENTUCKY). <i>Jacob E. Kain</i>, AIA, Engberg Anderson, Inc. (RR)</p>	<p>INTEGRATING GREEN ROOFS, GREEN WALLS AND CONSTRUCTED WETLANDS TO TREAT GRAYWATER. <i>Robert D. Cameron</i>, and <i>Dr. Robert Berghage</i>, Director, Center for Green Roof Research, Pennsylvania State University</p>	<p>This session will provide an overview of different approaches to specifying green roofs and explore emerging issues and best practices in the industry.</p>
<p>PRINCIPLES OF HORTICULTURALLY SOUND DECISION MAKING FOR EXTENSIVE GREEN ROOF COMPONENT SELECTION. <i>Mark Anderson</i> and <i>Mary Ann Uhlmann</i>, Tremco; <i>Paul Kephart</i>, Executive Director, Rana Creek</p>	<p>DESIGN CONSIDERATIONS FOR SUCCESSFUL GREEN WALLS. <i>James Sable</i>, greenscreen</p> <p>HAWAII’S FIRST LIVING WALL INCORPORATING NATIVE HAWAIIAN AND TROPICAL PLANTS. <i>Greg Lee</i>, CEO, 1st Look Exteriors</p>	<p>HEAT FLUXES AND WATER MANAGEMENT OF A GREEN AND BROWN ROOF: LABORATORY EXPERIMENTS. <i>Paulo Cesar Tabares-Velasco</i> and <i>Jelena Srebic</i>, PhD, Department of Architectural Engineering, Pennsylvania State University (RR)</p>	<p><i>Charlie Miller</i>, Principal, Roofscapes, Inc.</p> <p><i>David Yocca</i>, Director of Landscape Architecture and Planning, Conservation Design Forum (invited)</p> <p><i>Roger Schickedantz</i>, Director, William McDonough + Partners (invited)</p>
<p>GETTING DOWN TO SUSTAINABLE BUSINESS PRACTICES - THE GROWING MEDIUM AND WATER CONNECTION. <i>Wayne King Sr.</i>, President, EARTH Products, LLC, President, US Composting Council (RR)</p>	<p>CITY IN THE SKY: ASSESSING NEIGHBORHOOD ROOFTOP POTENTIAL. <i>Sarah Sutton</i>, Design, Community & Environment</p>	<p>STORMWATER MITIGATION BY AN AUCKLAND (NZ) EXTENSIVE GREEN ROOF. <i>Robin Simcock</i>, University of Auckland. (IS)</p>	<p><i>Mike Curry</i>, Landscape Architect, Horticulturalist. MidWest Trading Horticultural Supplies</p> <p><i>Nicholas Smith</i>, Zinco USA</p>
<p>ECOLOGICAL AND ENVIRONMENTAL LIMITATIONS OF MANY CONTEMPORARY LOW GROWING GREEN ROOF DESIGNS. <i>Mark K. Morrison</i>, President and <i>Chris Syrett</i>, Mark K. Morrison Associates, Ltd.</p>		<p>EFFECT OF DRAIN LAYERS ON GREEN ROOF STORMWATER PERFORMANCE. <i>Dr. Robert Berghage</i>, Director, Center for Green Roof Research, Pennsylvania State University (RR)</p>	<p><i>Peter Philippi</i>, Rooflite</p> <p><i>Andy Creath</i>, Green Roofs of Colorado</p>
<p>Moderator: <i>Scott McGaughy</i>, Landscape Support Services</p>	<p>Moderator: <i>Greg Garner</i>, Elevated Landscape Technologies</p>	<p>Moderator: <i>Dick Gillenwater</i>, Carlisle Syntec</p>	<p>Moderator: <i>Matt Munroe</i>, GAF</p>



1:00 pm - 6:30 pm **Browse and Lunch and Poster Presentations**
 Room: Grand Hall

Planned poster presentations include: **Evaluation of Extensive Growing Media Composition/ Depth in Hawaii**, Dawn Easterday; **Impact of Green Roofs on Indoor Room Temperatures in Desert Environments**, Travis Jones; **155 Sherbourne Street , Toronto - Greening Roof with Moss Park Community**, Daniel Karpinski; **Greenroof Challenges in the Southeast US**, Meg Needle; **A Water Quality Assessment Of Greenroofs**, Martin Wanielista; **Depth, Media Type, and Plant Species Selection Affects Thermal Performance**, Abby Sidwell; **Review Of Select Prairie Research**, Richard K. Sutton; **Green Roofs in Cairo: A Holistic Approach for Healthy Productive Cities**, Shady Attia; **Greenroofs: An Evolution of Technology And Benefits**, Daniel Edwards; **Thermal Performance Of Biowalls**, Bill Retzlaff; **What Has G.R.E.E.N. Been Up To?** Bill Retzlaff; **Green Roof Storm Water Runoff Is Not Heavy (With Metals)**, Bill Retzlaff; **Evaluating Quantity Of Stormwater Runoff From Green Roof Systems**, Bill Retzlaff

3:45 pm - 5:15 pm
SESSION 3

Track 1 – Case Studies and Design Room: Hanover C – E	Track 2 - Case Studies and Design Room: Hanover FG	Track 3 - Research on Technical Performance Room: Regency V	Track 4 “On the Roof With ...” Room: Hanover AB
<u>Session 1.3: Dreaming Big II: Policies to Support Green Roof Infrastructure in North American Cities</u>	<u>Session 2.3: Government – Walking the Talk With Demonstration Projects</u>	<u>Session 3.3: Natives vs. Non-Natives, The Debate on the Merits of Each Continues</u>	<u>Session 4.3: Principles and Practices of Integrated Water Management – the Water-Energy Dynamic</u>
GREENING A CITY: THE CAPITOL’S CASE STUDY. <i>Dr Hamid Karimi, Ph.D.</i> , Deputy Director, District Department of the Environment (DDOE) – Natural Resources, Washington D.C.	NASHVILLE PUBLIC SQUARE: BUILDING A CIVIC, SUSTAINABLE VISION. <i>Yolanda Ho</i> , Landscape Designer for Wallace, Roberts and Todd, LLC (Award Winning Project)	BENEFITS OF EAST COAST NATIVE PLANTS ON GREEN ROOFS. <i>Dr. Jeremy Lundholm and Scott MacIvor</i> , Saint Mary’s University (IS)	This session will explore technologies, approaches and emerging practices that involve establishing integrated water management for buildings and the site and the relationship between water, green roofs, walls and energy.
METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI FUNDS AMERICAN RED CROSS GREEN ROOF. <i>Chad Edwards</i> , Architectural/Urban Designer, emersion DESIGN	LESSONS LEARNED FROM THE MINNEAPOLIS CITY HALL AND THE TARGET CENTER. <i>Council Member Lisa Goodman</i> , City of Minneapolis	EXTENSIVE GREEN ROOF SPECIES AND SOILLESS SUBSTRATE EVALUATIONS IN SEMI-ARID COLORADO. <i>Jennifer Boussetot</i> , Graduate Research Assistant and <i>Dr. James E. Kett</i> , Professor of Horticulture, Colorado State University	<i>Larry Sarver</i> , Tucor Inc. <i>Alfredo Fernandez-Gonzalez</i> , University of Nevada, Las Vegas
GREEN WALLS FOR LIGHT RAIL IN PHOENIX, ARIZONA. <i>Caryn Logan Heaps</i> , Principal, ADYED DESIGN. (RR) (Invited)	WATER CONSERVATION and THE ATLANTA CITY HALL GREEN ROOF. <i>William Brigham</i> , ASLA, City of Atlanta, Dept. of Watershed Management (RR)	ENDING THE WAR OF SEDUM V. NATIVES. <i>Colleen Butler</i> , PhD candidate, Department of Biology, Tufts University	<i>Ron Brewster</i> , Hydrochanger <i>Michael Rieger</i> , Weston/GreenGrid (Invited)
Moderator: <i>Lee Jaslow</i> , Conservation Technology	Moderator: <i>Susan Johnson</i> , Dinoflex	Moderator: <i>Oscar Warmerdam</i> , Sempergreen	<i>Rob Cisneros</i> , CETCO
Moderator: <i>Lee Jaslow</i> , Conservation Technology	Moderator: <i>Susan Johnson</i> , Dinoflex	Moderator: <i>Oscar Warmerdam</i> , Sempergreen	Moderator: <i>Thomas Stam</i> , CETCO (invited)

Friday, June 5, 2009

7:30 am - 5:00 pm **On-Site Registration Desk Opens – Grand Hall, East Foyer**
Hyatt Regency Hotel

8:00 am – 9:30 am **Track 1 – Case Studies and Design**
SESSION 4
Room: Hanover C – E

Session 1.4: Institutions as Innovators and Drivers in the Green Roof Industry

GREEN ROOFS ON A NEW SCHOOL IN SHEFFIELD. *Dr. Nigel Dunnett*, Senior Lecturer, University of Sheffield; *Cath Basilio*, Architects Division, Sheffield Design and Project Management (IS)

STUDENT WORK: A TOOL FOR GREEN ROOF ADVOCACY. *Virginia L. Russell*, FASLA, RLA, LEED AP, Associate Professor, University of Cincinnati, School of Architecture and Interior Design

SAN DIEGO HOSPITAL HEALING GARDEN. *Yu-Ju Liu*, FASLA, Principal, Spurlock Poirier Landscape Architects; *Frances Moore*, AIA, LEED AP; *Paul Kephart*, Executive Director, Rana Creek.

GREEN ROOFS AS MEMORIAL GARDENS: REVOLUTIONIZING URBAN CEMETERIES. *Veronica G. Schroder*, BLA, Associate, OALA

Moderator: *Don Horn*, General Services Administration (invited)

Track 2 - Case Studies and Design
Room: Hanover FG

Session 2.4: High End and Monster Green Roof Projects

HIGH END 'GREEN' LIVING: MACALLEN BUILDING CONDOMINIUMS, BOSTON. *Nathan D. Griswold*, American Hydrotech, Inc.

A CASE STUDY OF THE INTENSIVE GREEN ROOF ON THE 3RD FLOOR AT LAKE POINT TOWER IN CHICAGO. *Trish VanderBeke*, Principal, P.K. VanderBeke, Architect

TARGET CENTER'S GIGANTIC GREEN ROOF - THE LARGEST EXTENSIVE SYSTEM IN THE MIDWEST. *Rex Greenwald*, Stock Roofing Company, A Tecta America Company

WATERFRONT GREENERY ON VANCOUVER'S NEW CONVENTION CENTRE. *Pete Taylor*, Senior Project Manager Flynn Canada Ltd.

Moderator: *Peter McDonough*, Kestrel Design

Track 3 - Research on Technical Performance
Room: Regency V

Session 3.4: Understanding the Big Picture Benefits

UNDERSTANDING THE BENEFITS FROM WIDESPREAD GREEN ROOF IMPLEMENTATION IN GEORGIA. *Jordan Richie*, Green Roofs for Healthy Cities; *Tim Carter*, Ph. D, University of Georgia (RR)

MULTI-MEDIA MODELING OF AIR POLLUTANTS IN GREEN ROOFS SYSTEMS. *Dr. Corrie Clark*, Argonne National Laboratory; *Dr. Peter Adriaens*, University of Michigan, Department of Civil and Environmental Engineering

REPORT ON WORKSHOP TO DEVELOP COMMUNITY SCALE BENEFITS. *Dr. Brad Bass*, Environment Canada

Moderator: *Maureen Connelly*, British Columbia Institute of Technology

Track 4 “On the Roof With ...”
Room: Hanover AB

Session 4.4: Plants: Issues, Trends and Selection

This session will provide expert advice on issues related to plant selection, particularly as it pertains to areas that experience periods of drought.

Ed Snodgrass, President, Emory Knoll Farms

Dr. Nigel Dunnett, Senior Lecturer, University of Sheffield

Dr. Brad Rowe, Associate Professor, Michigan State University

Ernie Higgins, ITSaul Natural

Richard Gigot, Northwest Horticulture Canada

Moderator: *Marguerite Wells*, President, Motherplants

9:45 am – 11:15 am
SESSION 5

Track 1 - Case Studies and Design
Room: Hanover C – E

Session 1.5: New Design Horizons

THE 2009 TOP TEN HOT TRENDS IN GREEN ROOFS DESIGN. *Linda S. Velazquez*, ASLA Associate, LEED AP, Greenroofs.com

GREEN ROOF PERFORMANCE INCLUDING CATEGORY 2 HURRICANE IMPACTS. *Joe Douglas Webb*, AIA, Principal, Webb Architects

UNIQUE CHARACTERISTICS OF SEVERAL GREEN ROOF SYSTEMS. *Nicholas Smith*, Account Manager, ZinCo USA

INTENSIVE GREEN ROOFS A UNIQUE SYSTEM FOR WEIGHT AND IRRIGATION CONTROL. *Mike Kelly*, Vice President Business Development, Rehbein Environmental Solutions Inc.

Moderator: tbd

Track 2 - Case Studies and Design
Room: Hanover FG

Session 2.5: Integrated Designs for Water Management

HOW GREEN SHOULD A GREEN ROOF BE? EXTENSIVE GREEN ROOFS WITHOUT IRRIGATION *Dr. Manfred Kohler*, WGRIN, FBB, University of Applied Science (IS)

LIVING OASIS: AN INTEGRATED BUILDING WATER MANAGEMENT STRATEGY FOR DESERT ENVIRONMENTS. *Alfredo Fernandez-Gonzalez*, Associate Professor of Architecture and Director, Natural Energies Advanced Technologies Laboratory/University of Nevada (RR)

FINDING WATER THROUGH RAIN. *Steve Williams*, LEED-AP, Principal, BUILDINGGREENER LLC (RR)

GREEN ROOFS AS PART OF A SUSTAINABLE WATER MANAGEMENT PLAN. *Nonnie Chrystal*, Florida's Showcase Green Envirohome, *Dr. Marty Wanielista* and *Mike Hardin*, Stormwater Management Academy (RR)

Moderator: *Heather Nixon Stevenson, McGuire Woods*

Track 3 – Research on Technical Performance
Room: Regency V

Session 3.5: Options and Benefits: Learning from Case Studies

IRRIGATION REQUIREMENTS AND PLANT SURVIVAL ON NORTHWEST GREEN ROOFS. *Erin Schroll* and *John Lambrinos*, PhD, Assistant Professor, Oregon State University, Department of Horticulture

FERTILITY OPTIONS FOR GREEN ROOF SYSTEMS. *Dr. Bill Retzlaff* and *Julie Gibbs-Alley* and *Lauren Swearingin*, Southern Illinois University Edwardsville

THE ENVIRONMENTAL AND ECONOMIC BENEFITS OF ECOROOF *Rob Craderuff*, Sustainable South Bronx (invited) *Daniel Edwards*, Senior Project Manager, Macdonald Environmental Planning, P.C.; *Alan Proffitt*, Facilities Property Manager, Multnomah County, Oregon

GREEN ROOF STORM WATER RETENTION – GETTING TO THE WEIGHT OF THE MATTER! *Lane Richter*, Southern Illinois University Edwardsville (RR)

Moderator: *Rex Greenwald, Stock Roofing Company, A Tecta America Company*

Track 4 “On the Roof With ...”
Room: Hanover AB

Session 4.5: Urban Agriculture On Roofs And Walls....

The production of food in cities carries enormous potential to deliver multiple economic, social and environmental benefits. This session will explore some new technologies and existing projects and provide insight into some of the best practices that are slowly emerging.

Keith Agoada, President, Sky Vegetables
David Walsh, Developer, Carrot Common, Toronto
Rob Craderuff, Sustainable South Bronx (invited)

Moderator: *Geoff Wilson, President, Green Roofs for Healthy Australian Cities*

9:30 am – 12:30 pm

Trade Show and Poster Presentations
Room: Grand Hall

Poster presentations include: **Evaluation of Extensive Growing Media Composition/ Depth in Hawaii**, Dawn Easterday; **Impact of Green Roofs on Indoor Room Temperatures in Desert Environments**, Travis Jones; **155 Sherbourne Street , Toronto - Greening Roof with Moss Park Community**, Daniel Karpinski; **Greenroof Challenges in the Southeast US**, Meg Needle; **A Water Quality Assessment Of Greenroofs**, Martin Wanielista; **Depth, Media Type, and Plant Species Selection Affects Thermal Performance**, Abby Sidwell; **Review Of Select Prairie Research**, Richard K. Sutton; **Green Roofs in Cairo: A Holistic Approach for Healthy Productive Cities**, Shady Attia; **Greenroofs: An Evolution of Technology And Benefits**, Daniel Edwards; **Thermal Performance Of Biowalls**, Bill Retzlaff; **What Has G.R.E.E.N. Been Up To?** Bill Retzlaff; **Green Roof Storm Water Runoff Is Not Heavy (With Metals)**, Bill Retzlaff; **Evaluating Quantity Of Stormwater Runoff From Green Roof Systems**, Bill Retzlaff

12:30 pm - 2:00 pm

2009 Awards of Excellence Presentations and Luncheon
Room: Regency VI – VII
Master of Ceremonies: *Jeffrey L. Bruce, Jeffrey L. Bruce & Company; Chair, GRHC*

2:00 pm - 5:00 pm

Trade Show Take-down



2:00 pm - 3:30 pm **Closing Session and Round Table: Pushing the Envelope in Green Roof and Wall Design!**
Dan Stone, McGuire Woods; *Paul Kephart*, Executive Director, Rana Creek, *Paul Mankiewicz*, Executive Director, Gaia Institute, *Geoff Wilson*, President, Green Roofs for Healthy Australian Cities; *Jeffrey L. Bruce*, FASLA, President, Jeffrey L. Bruce and Company

Room: Regency VI -- VII Moderator: *Steven Peck*, Founder and President, Green Roofs for Healthy Cities

4:00 – 6:00 pm **Inaugural Green Roof Professional (GRP) Exam (Ticketed Event; Pre-Registration Required)**
Room: Hanover C—E

Saturday, June 6, 2009

8:30 am - 5:00 pm **Conference Training Sessions -Available At Preferred Rates For Conference Attendees (Ticketed Event-Pre-registration Required)**

Green Roof Design 101: Introductory Course

Green Roof Design 101 introduces participants to the numerous public and private benefits of green roofs and presents many of the tools and techniques needed to meet your green roof project objectives. Participants will learn about major design principles, types of green roof products and systems and their relevance, and the professions and competencies that are necessary for a successful green roof project. Room: Hanover C

Green Roof Infrastructure: Design and Installation 201

Green Roof Design and Installation 201 is an immensely practical course that provides participants with in-depth information on the multitude of green roof implementation issues from the first client meetings through scheduling, insurance and permit issues, site analysis, construction considerations, sub contracting, building a qualified project team, post construction maintenance and more. Room: Hanover D

Green Roof Infrastructure: Waterproofing and Drainage 301

This course presents an overview of the many tools and techniques needed to meet green roof waterproofing and drainage project objectives. This includes: understanding waterproofing and drainage terminology for better communication with the various professions involved, understanding waterproofing and drainage assemblies and systems, an overview of major design principles, Best Management Practices and a review of the professions and competencies required for a successful green roof project. Room: Hanover E

Green Roof Infrastructure: Plants and Growing Medium 401

This course provides participants with an overview of plants and growing media design considerations and maintenance for green roof assemblies. In addition to establishing design and implementation best management practices, the course covers the principles of plant physiology and soil sciences as they apply to green roofs, identifies applications of various plant and growing media, teaches the technical requirements for growing media and plant life and gives an understanding of the potential implementation issues related to plant care and growing media contamination. Room: Hanover F

8:30 am - 12:30 pm **Ecological Design Workshop**

Create your own ecological green roof models by learning about biodiversity, advanced green roof design, sustainable landscaping principles.
Room: Hanover G, Presenter: Dr. Brad Bass, Environment Canada.

9:00 am - 1:00 pm **Green Roof Tours** - Depart from Hotel Lobby. *Discover Atlanta through a series of six tours featuring more than 15 green roofs demonstrating the most innovative, efficient, celebrated projects in the south. Access green roofs rarely open to the public and meet with the architects and landscape architects who created these outstanding projects and learn the secrets of their success.* (Ticketed Event – Pre-Registration Required)

Trade Show Exhibitors Include

Advanced Building Products	International Leak Detection
American Hydrotech	Jakob Inc
Barrett Company	JDR Enterprises
Bioroof	Live Roof, LLC
Carl Stahl DecorCable	Nedlaw Living Walls
Carolina Stalite Company	Northeast Solite Corporation
CETCO	Northwest Horticulture
Circle Organics	Permaloc Corp
Colbond -	RK Hydro-Vac, Inc.
Conservation Technology	Sempergreen
Dinoflex Manufacturing Ltd.	Sika Sarnafil Inc.
ERTH Products	Tecta America Corp.
Green Roofs for Healthy Cities	Todd Valley Farms Inc
Greening Urban	Tremco Incorporated
Greenscreen	Turf Diagnostics & Design
Hunter Industries	Wayne's Wholesale Nursery

For more information on trade show spaces and rates please contact Jennifer Sprout, Vice President Membership and Local Market Development, (416) 971 4494 ext. 229. jsprout@greenroofs.org



Conference Delegate Passes (all prices USD):

Full Delegate (GRHC member)	\$299
Full Delegate (Non-GRHC member)	\$399
Conference Speaker/Poster Presenter	\$299
Student Delegate	\$149
One-Day Pass (June 4 or 5, 2009)	\$199
Trade Show Only Pass (June 4 or 5, 2009)	\$ 39
GRP Accreditation Exam (June 5, 2009)	\$395

Your 2009 full-delegate pass includes:

- Access to over 50 presentations by green roof industry leaders
- Free pass to the Industry Trade Show featuring more than 75 exhibitors showcasing Green Roof Products and Services
 - Access to more than 15 Poster Sessions
- One Copy of the Official Conference Proceedings CD-ROM featuring the peer-reviewed Speaker Papers (retail value \$75)
- Browse and Lunch (June 4) and Awards of Excellence Luncheon (June 5)

Please Note: Agenda Subject to Change Without Notice

REGISTER NOW!

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