

Roof Consultant Institute Region VI
GREEN ROOF WORKSHOP
San Diego, CA • November 10, 2004

The design and installation of Green Roof or Garden Roof systems is a growing concept in construction across North America. Are you involved or thinking of getting involved in the design or construction of Green Roof or Garden Roof assemblies? Do you know what it takes to successfully implement a green roof project? If so then this technical program is for you.

Region VI of the **Roof Consultants Institute** invites all architects, roofing and waterproofing consultants, contractors and students to attend our "*Green Roof Workshop*" to be held in **San Diego on November 10, 2004 at the Radisson Hotel Harbor View**. To register for this program contact the Roof Consultants Institute at either 800-828-1902 or online at their website: www.rci-online.org. If you have any specific meeting questions, please direct them to RCI Region VI Director, Dean Larsen, 559-277-3590 or dlarsen@roofsystems.net.

Pre-registration through October 27th is \$80.00 for RCI members or \$90.00 for nonmembers; registration after October 27th is an additional \$10.00. Limited tabletop exhibit space is available for \$250. Although prior payment is preferred, onsite registration and payment is possible. RCI educational hours and AIA LUs will be provided to qualified registrants. Each registrant is responsible for his/her hotel accommodations. Rooms at the Radisson Hotel Harbor View, 619-239-6800 are available for RCI attendees at a preferred rate of \$129.00-single or \$139-double plus 10.5% room tax until October 20th, after this date, space available. Continental breakfast and lunch are included in the registration fee.

This comprehensive program, which goes from 7:30am to 4:30pm, will include the following technical sessions and speakers:

- **Introduction to Green Roofs, Past & Present** – this session, presented by Jeff Levin, Senior Project Analysis at Carlisle Syntec, will focus on early green roof designs and lessons learned. Principles of design and review of essential components will be presented along with an extensive review of growing media and associated maintenance.
- **Roof Garden Design**– this session, presented by Andreas Phelps, Staff Engineer at Simpson Gumpertz & Hager, will cover the general procedures in the design of a planted roof system, specifically focusing on critical detailing and steps in achieving an effective waterproofing system. We will discuss topics including product selection, effective specification writing, and common problems and how to avoid them. We will end with a question and answer period intended to develop productive interaction and discussion between designer, contractors, and consultants.
- **Review of Waterproofing Materials used in Green Roof Assemblies** - this session, presented by Andreas Phelps of Simpson Gumpertz & Hager, will take a closer look at the waterproofing materials that we touched on in *Roof Garden Design*. We will cover built-up bituminous membranes, thermoplastics (PVC), liquid applied elastomeric membranes, modified bituminous membranes, and self-adhesive sheet membranes and will discuss advantages and disadvantages of each including where and when to use them.

- **Drainage Design and Materials** - this session, presented by Gerson Bers a principal of Allana-Lippert, will review green roofing drainage design issues and survey widely available drainage systems. We will cover basic drainage design calculations and strategies as well as a brief discussion of root barriers.
- **Maintenance – Maintaining your buried roof assembly** - this session, presented by Gerson Bers, a principal of Allana-Lippert, will discuss general maintenance requirements for buried/concealed waterproofing systems. We will discuss maintenance procedures to protect and extend the life of a roofing/waterproofing assembly concealed within a green roof system.
- **Building Retrofit and Restoration: Preparing an Existing Building for a Roof Garden** - this session, presented by Gerson Bers, a principal of Allana-Lippert, will highlight design issues specific to installing a roof garden on an existing facility. We will discuss design issues including; project team requirements, structural loading, drainage, roof access and costs.
- **Arid Climate Growing Medium: Soil and Plant Selection** – this session will include a review of the various types of plant and ground cover that are used for Green Roof designs in the arid Southwestern US climate.
- **Case Studies: A review of Successful Large & Small Scale Roof Garden Projects** -
 - **Sarnafil** – during this session Peter D’Antonio, Sarnafil USA Waterproofing Division Manager, will provide an overview on the use of thermoplastic waterproofing systems in green roof or Eco-roof systems. Mr. D’Antonio will discuss recently completed projects at Chicago City Hall, Life Wellness Center in Hazelton PA, the Oaklyn Vanderbergh Library Evansville IN, and Ford Motor Company Premier Automotive Corporate Headquarters in Irvine CA.
 - **Siplast** – during this session John Thomas, Siplast Product Manager, will provide an overview of SBS modified bitumen technology and how it relates to green roofing, system advantages and the system components and their use in green roofs. Mr. Thomas will review three high profile green roof projects and discuss the factors that went in to the selection of SBS modified. Additionally, he will discuss specialty applications including high-rise, LEED™, LEED™ certification, the owner’s perspective and details regarding the “World’s largest green roof.”
 - **Carlisle Syntec** - during this session Brian Chamberlain, Carlisle Syntec Senior Systems Designer, will provide an overview on the use of EPDM and TPO membranes in roof garden assemblies. Brian will review several high profile projects including Evergreen State College in Portland, OR and the Seaport Hotel in Boston, MA, in addition to other facilities. A guide to specification development and installation coordination will also be discussed related to current projects under development.
 - **American Hydrotech** – during this session Steve Skinner, American Hydrotech Garden Roof Product Manager, will review Chicago’s Schwab Rehabilitation Hospital. This building has a new rooftop park and garden for horticultural therapy, a practice where plants and gardening activities are used to improve body, mind, and spirit. The innovative design, lush landscaping, well-engineered waterproofing and soil support system combine to make this forth floor rooftop a very safe and special place.