

Improving Stormwater Management with Permeable Interlocking Concrete Pavements

Seminar

March 4, 2010 8:30 a.m. – 4:00 p.m.

Hilton Garden Inn – Vanderbilt

1715 Broadway

Nashville, Tennessee 37203

Stormwater management is a key issue impacting local and state government agencies. As urban areas are increasingly developed, the resulting amount of **stormwater runoff** becomes more difficult to effectively manage. Stormwater systems are often overburdened, leaving officials with few alternatives to manage the increase in runoff. Waterways and the supporting ecosystems are negatively impacted by harmful pollutants and high water temperatures hosted by stormwater runoff.

Permeable Interlocking Concrete Pavements are a proven design solution for reducing stormwater runoff. Permeable Interlocking Concrete Pavements serve as on-site infiltration, detention and structural pavement systems. These systems maintain **sustainable sites** through their ability to reduce stormwater runoff and rid the runoff of pollutants. **LEED® credits** are attainable through the design and use of Permeable Interlocking Concrete Pavements.



Discussion Topics:

- Stormwater Challenges
- Stormwater Management Objectives
- Permeable Interlocking Concrete Pavement (PICP) Benefits
- Designing with PICP
- Sustainable Design through LEED®
- PICP Design Software Demonstration
- Construction of PICP
- Maintenance
- Research Findings & Developments

Who should attend:

- › Stormwater Officials
- › Engineers
- › Architects
- › Landscape Architects
- › Planners
- › Water Resource Professionals
- › Public Works Officials
- › University Professionals

****Qualifies for 4 Hours of Continuing Education Credits****

FEATURED SPEAKERS

DAVID R. SMITH – Technical Director of the Interlocking Concrete Pavement Institute (ICPI)

David Smith is a leading authority on interlocking concrete paving. Mr. Smith is the editor of the *Interlocking Concrete Pavement* magazine, has authored numerous ICPI Technical publications, regularly speaks at national and international conferences, and is the author of ICPI's *Permeable Interlocking Concrete Pavement* design manual. He is an active member of ASTM committees and participates as a member of the American Society of Civil Engineers (ASCE), American Public Works Association, Construction Specifications Institute, and the American Society of Landscape Architects (ASLA).

David Smith's education includes a Bachelor of Architecture and a Masters of Urban and Regional Planning (environmental concentration) from Virginia Tech. As a Virginia Tech lecturer, he taught stormwater management to landscape architecture students and was involved in research on concrete grid pavements.

D.J. Swan, P.Eng. – Senior Engineer with Applied Research Associates, Inc.

Mr. D.J. Swan, P.Eng., has a Master of Engineering degree from the University of Florida and over 9 years of experience in the areas of pavement design and modeling. He works for Applied Research Associates, Inc. as a Senior Engineer and has worked extensively in the fields of pavement design, management, modeling, and performance.

Mr. Swan has been designing a range of both permeable and conventional interlocking concrete pavement systems across North America for many years. This experience has led to the development of design tools such as a distress rating procedure for interlocking concrete pavements and the Permeable Design Pro software. Mr. Swan's current research efforts are focused on ways to improve the accuracy of hydrologic design of permeable pavements and providing practical implementation solutions.

DR. BILL HUNT – NC State University, Dept. of Biological and Agricultural Engineering – Stormwater Engineering Group.

Dr. Hunt is an Assistant Professor and Extension Specialist in North Carolina State University's Department of Biological and Agricultural Engineering department. Dr. Hunt holds degrees in Civil Engineering (NCSU, B.S., 1994), Economics (NCSU, B.S., 1995), Biological & Agricultural Engineering (NCSU, M.S., 1997) and Agricultural & Biological Engineering, (Penn State, Ph.D., 2003). Dr. Hunt is a registered PE in North Carolina.

Since 2000, Dr. Hunt has assisted with the design, installation, and/or monitoring of over 90 stormwater best management practices (BMPs), including bioretention, stormwater wetlands, innovative wet ponds, green roofs, permeable pavement, water harvesting/cistern systems and level spreaders. He teaches 20-25 short courses and workshops each year on stormwater BMP design and function throughout NC and the US.

Dr. Hunt is an active member of the American Society of Agricultural and Biological Engineers (ASABE), serving as NC Section President and as Past-Chair of the National ASABE Extension Committee. He is also a member of the American Society of Civil Engineers (ASCE), where he serves on the Urban Water Resources Research Council, the LID committee, and is co-chair of the Bioretention Task Committee. He was chair of the 2nd National LID Conference held in Wilmington, NC, in March 2007. Locally, he is a member of the Neuse Education Team, NC Watershed Education Network and the NC Association of Extension Specialists.

PERMEABLE INTERLOCKING CONCRETE PAVEMENT SEMINAR

March 4, 2010 8:30 a.m. – 4:00 p.m.

Breakfast and lunch will be served

REGISTRATION FORM

****Registration deadline – February 26, 2010****

There is **no charge** for this seminar, but please register only if you will be attending the event so we may provide sufficient space and food for all attendees.

Name: _____

Title/Position: _____

Firm/Agency: _____

Address: _____

Phone: _____

E-mail Address: _____

Special Food Request: _____

Please fax/e-mail/mail registration form to:

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