

Improving Stormwater Management with Permeable Interlocking Concrete Pavements

Seminar

July 9, 2009 8:30 a.m. – 4:00 p.m.

Raleigh Convention Center

Room 301A

500 South Salisbury Street

Raleigh, NC 27601

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 Managers**
- › **Engineers**
- › **Architects**
- › **Landscape Architects**
- › **Planners**
- › **Water Resource Professionals**
- › **Public Works Officials**

****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.

BOYD DEVANE – Environmental Engineer, North Carolina Dept. of Environment and Natural Resources, Division of Water Quality. Mr. Devane is currently working on various projects related to stormwater pollution. He retired in 2007 after 31 years with the state of North Carolina. Most of his career involved working in various areas of nonpoint source pollution abatement. In the past few years, Mr. Devane has been especially involved in addressing water pollution from construction activities. Mr. Devane is a 1969 graduate of NC State University where he received a BS in Pulp and Paper science and worked as an environmental engineer in the paper industry before joining the state of North Carolina.

FRED ADAMS, JR. – Fred Adams Paving Co., Inc. Fred Adams, Jr. is a graduate of North Carolina State University and started Fred Adams Paving Co., Inc. in 1984. He is actively involved with the Interlocking Concrete Pavement Institute (ICPI). Fred is the current Chairman of the ICPI Government Relations Committee, past Chairman of the Construction Committee of the ICPI, and has previously served as an ICPI Board Member. Fred Adams Paving Co., Inc. is a Certified Contractor by the ICPI. Mr. Adams is responsible for numerous installations of permeable interlocking concrete pavements, clay brick pavers, concrete pavers, and other concrete products. He has instructed hundreds of contractors throughout the country through the ICPI Certified Contractor program. Fred Adams, Jr. is considered by his associates and contemporaries as a renowned and trusted source within the industry.

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

July 9, 2009 8:30 a.m. – 4:00 p.m.

Breakfast and lunch will be served

REGISTRATION FORM

****Registration deadline - July 6, 2009****

Although there is **no charge** for this seminar, 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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