



Reining in the Rain:

Watershed-Friendly “Low Impact Development” Site Design & Permeable Pavements for Stormwater Management

Workshop in Ventura

Ventura County Fairgrounds

Monday, April 21, 2008

9:00 am – 4:00 pm

Sponsored by the California Coastal Commission; Center for Water & Land Use at UC Davis Extension; USC Sea Grant; and City of Ventura; with support from UC Cooperative Extension and Sea Grant; Local Government Commission; and County of Ventura.

AGENDA

- 8:00 - 9:00 am** *Check-in (coffee and pastries provided)*
- 9:00 - 9:10** **Welcome**
 - Brian Brennan, City of Ventura
- 9:10 - 9:30** **Resource-Based Land Use Planning**
 The big picture: Linking land use to water quality, and how LID can help improve the health of our watersheds.
 - Jack Gregg, California Coastal Commission, Water Quality Unit
- 9:30 - 10:10** **Low Impact Development – the How's and the Why's**
 Implementation of soil-based LID systems in stormwater management, and effect on flooding, in-stream erosion, maintaining the water balance, and pollutant removal.
 - Timothy Lawrence, Center for Water and Land Use, UC Davis Extension
- 10:10 - 10:45** **LID Retrofit of Existing Infrastructure**
 Taking a watershed approach to LID retrofit, using the San Jon Barranca as a model.
 - Paul Jenkin, Surfrider Foundation
- 10:45 - 11:00** *Break (15 min)*
- 11:00 - 11:30** **A Perspective on Regulatory Approaches to LID in Southern California**
 History, evolution, and future directions for LID in the Southern California region.
 - Xavier Swamikannu, Los Angeles Regional Water Quality Control Board
- 11:30 - 12:00** **Sustainable Urbanism – Watershed-based Planning Strategies for Ventura County**
 Combining green infrastructure and community design to protect water resources.
 - Clark Anderson, Local Government Commission
- 12:00 - 12:45** *Lunch (provided)*

12:45 - 1:15

LID on UCSB Campus: Manzanita Village Project

A University housing project integrating traditional landscaping and restoration with practical LID features; addresses the benefits of using native species in LID projects.
- Lisa Stratton, Cheadle Center for Biodiversity and Ecological Restoration at UCSB



Permeable Pavement Presentations

Technical information on permeable pavement design, installation, applications, performance, pollutant removal, and maintenance.

1:15 - 2:00

How To Use Permeable Pavements in All Soil Types

The fundamentals of using permeable pavements to implement LID cost-effectively, with details on performing hydrological design for any type of soil situation – even clay soils.
- Andy Youngs, California Nevada Cement Association

2:00 - 2:35

Porous Asphalt Pavements

- Brandon Milar, California Asphalt Pavement Association

2:35 - 2:50

Break (15 min)

2:50 - 3:25

Permeable Interlocking Concrete Pavements

- David R. Smith, Interlocking Concrete Pavement Institute (presented by Andy Youngs)

3:25 - 4:00

Pervious Concrete Pavements

- Andy Youngs, California Nevada Cement Association

4:00

Wrap-Up and Evaluations



Hand-outs and presentations available online:

http://www.coastal.ca.gov/nps/lid_workshops.html

Funding for this project has been provided in part by the U.S. Environmental Protection Agency (USEPA) pursuant to Assistance Agreement No. C9-98998901 and any amendments thereto which have been awarded to the State Water Board for the implementation of California’s NPS Pollution Control Program. The contents of this document do not necessarily reflect the views and policies of the USEPA or the State Water Board, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

