

**Short Course:**  
**Soil Erosion – Problems, Regulations and Solutions**

Coordinated by:

Jean-Louis Briaud, *Texas A & M University*  
 Shobha Bhatia, *Syracuse University*

**- AGENDA -**

Time	Topic	Speaker	Remarks
9:00 - 9:30	• Basics of soil erosion	Jean-Louis Briaud	Introduce the course
9:30 - 10:30	• Regulations • Types and causes of soil erosion	Harlow Landphair	Discuss what led to current regulations
11:00 - 11:45	• Erosion and sediment control BMPs	Jett McFalls	Slope and channel protection BMPs
11:45 - 12:30	• Standard tests • Soil bioengineering	Ming-Han Li	Physical property testing and performance testing Natural protection
Lunch 12:30-1:30			
1:30- 2:30	• Regulations and Design	Don Lake	
2:30 – 3:15	• Overview of Design from the Manufacturer’s Point of view	Marc Theisen	With focus on RECP’S
3:45-4:30	• Overview of Material Testing and Standards	Sam Allen	With a focus on RECP’S
4:00-4:45	• Case Histories	Shobha K. Bhatia	With focus on RECP’S in Channel and slopes

**When:** Sunday January 23, 2005

**Registration fee:**

\$300.00  
per person

**Where:** Hilton Austin  
500 East 4th Street  
Austin, TX 78701

**Special registration fee for full-Conference registrants:**

\$ 50.00  
per person

- Registration includes refreshments, lunch, handouts
- Participants receive 7 PDHs

<http://www.asce.org/conferences/geofrontiers05/>

## **ABOUT THE COURSE**

Over the last several years, there has been an increase in the level of awareness of soil erosion and its impact on water quality, flooding, and degradation of the environment. This awareness, along with a growing number of regulatory requirements, such as the recent authorization of Phase II of the National Pollutant Discharge Elimination System (NPDES), has been forcing states, municipalities, and developers to meet public approval and new requirements while still meeting budget constraints. As a result, it is becoming increasingly important to find cost-effective solutions to soil erosion problems.

Traditionally, the solutions to many soil erosion problems in channels and slopes have been hard-armor alternatives, such as riprap. However, with growing concerns about water quality, aesthetics, and cost, soft-armor alternatives, such as soil bioengineering and geosynthetic rolled erosion control products (RECPs,) are becoming viable alternatives. With these new alternatives, designers and engineers are faced with many questions regarding product selection, performance evaluation, and cost.

This course will provide designers and engineers with an overview of soil erosion, the latest regulations, new products and techniques, the state-of-the-art in testing, and case histories. This course brings a wealth of knowledge from experts in soil erosion, regulations, testing, manufacturing, installation, and research.

## **SPEAKERS**

Coordinators: Jean-Louis Briaud, Ph.D., PE, and Shobha Bhatia, Ph.D.

Presenters:

Sam Allen (Texas Research Institute)

Shobha Bhatia (Syracuse University)

Jean-Louis Briaud (Texas A&M University)

Don Lake (New York State Soil and Water Conservation Committee)

Harlow Landphair (Texas Transportation Institute)

Ming-Han Li (Texas Transportation Institute)

Jett McFalls (Texas Transportation Institute)

Marc Theisen (Profile Products)

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