

## Why should I attend?

Roads represent an important investment to forest managers. They allow access to harvest, manage, and protect timber resources, as well as a conduit for forest recreation. There are also significant concerns about the environmental effects of roads in the forest, the principle concern being sediment runoff and its impacts on receiving waters. The Workshop on Predicting Sediment from Forest Road Systems in the South is designed to bring together leading researchers working on sediment models and control methods with road practitioners. This workshop focuses on southern forest conditions and the unique challenges for forest managers in this region. It further capitalizes on ongoing research at the Alto Texas Watersheds, where research is looking at road sediment runoff, comparing the small basin response of current forest practices to past practices, and examining integrated watershed response.

## Who should attend?

This meeting is designed for forest hydrologists, forest road specialists, foresters, and anyone who wants to be able to quantify the consequences of alternative forest road design and maintenance practices. The workshop on May 21 will be followed by a half day field tour on May 22.

Stephen F. Austin State University  
Arthur Temple College of Forestry  
P.O. Box 6109  
Nacogdoches, TX 75962-6109

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## Workshop on Predicting Sediment from Forest Road Systems in the South



**May 21-22, 2003**  
**Arthur Temple College of Forestry**  
**Nacogdoches, TX**

**Sponsored by:**  
**Arthur Temple College of Forestry**  
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**National Council for Air and**  
**Stream Improvement**  
**Water Resources Working Group**  
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**Wednesday May 21, 2003**

- 8:00 am Coffee and Donuts
- 8:30 am Welcome  
Dr. R. Scott Beasley, SFASU
- 8:40 am Introduction to Road Sediment Workshop  
Dr. George Ice, NCASI
- 9:00 am Understanding Road Erosion Mechanics  
Dr. Charlie Luce, USDA FS
- 9:30 am History and Architecture of SEDMODL2  
Dr. Walt Megahan, NCASI (retired)
- 10:00 am Break
- 10:30 am Tutorial/Application of SEDMODL2 to Alto Watersheds  
Kathy Dube, Watershed GeoDynamics
- 11:30 am Data Resolution and Model Accuracy in Simulating Erosion, Runoff, and Sediment Yield from Forest Roads  
Dr. Mark Riedel, USDA FS  
Dr. James M. Vose, USDA FS
- 12:00 pm Lunch (provided)
- 1:00 pm Application of USLE and GIS to Predict Erosion from Southern Forest Roads  
Dr. Ge Sun, North Carolina State University
- 1:30 pm Past and Current Studies of Forest Road Erosion in the Ouachita Mountains  
Dr. Donald J. Turton,  
Oklahoma State University
- 2:00 pm Assessing forest road BMPs using GPS and GIS in the Interior Highlands  
Dr. Dan Marion, USDA FS  
Dr. Donald J. Turton,  
Oklahoma State University

- 2:30 pm Process Based Modeling of the Cumulative Effects of Forest Roads on Stream Sedimentation  
Dr. James M. Vose, USDA FS  
Dr. Mark Riedel, USDA FS
- 3:00 pm Break
- 3:15 pm Road Erosion at the Plot and Watershed Scale: Coastal Plain of North Carolina  
Dr. Devendra M. Amatya, USDA FS
- 3:45 pm Control of Sediment Export from the Forest Road Prism  
J. McFero Grace, III, USDA FS
- 4:15 pm Erosion from Different Types of Stream Crossings Before, During, and After Construction  
Dr. Steven E. Taylor, Auburn University
- 4:45 pm Wrap-up Discussion: Research and Modeling Needs for Southern Roads

**Evening Dinner Program**

Book signing party for *Forest Hydrology: An Introduction to Water and Forests*. Dr. Mingteh Chang will sign and sell copies of his book prior to dinner.

Dinner (TBA)  
Program: The Quest for the Environmentally Transparent Forest Road—Dr. George G. Ice

**Thursday May 22, 2003—Field Tour**

- 7:00 am Coffee and Donuts
- Alto Watershed Study (Past and Present)  
Dr. Scott Beasley, Matt McBroom, Brian Gowin
- Road Study Results—Matt McBroom
- Reading Road Erosion in the Field-Dr. Walt Megahan
- Opportunity to Control Erosion for Southern Road Systems-Dr. Walt Megahan
- Applying Field Observations to Models-Kathy Dube
- 12:00 pm Tour to be completed to facilitate travel

**WORKSHOP ON PREDICTING SEDIMENT FROM FOREST ROAD SYSTEMS IN THE SOUTH**

May 21-22, 2003

Stephen F. Austin State University

Nacogdoches, TX

<http://www.sfasu.edu/forestry/>

**Name:** \_\_\_\_\_

**Affiliation:** \_\_\_\_\_

**Address:** \_\_\_\_\_

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**Cancellation Policy:**

If you are unable to attend please notify us no later than May 16, 2003, for a full refund of your registration fee.

Signature: \_\_\_\_\_

**Pre-Registration Fee: \$95.00**

**Late Registration Fee: \$120.00 after 5/19/03**

**Please return registration to:**

Stephen F. Austin State University

College of Forestry

Attn: Misti Compton

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