

**PROCEEDINGS  
OF THE  
SEVENTH FEDERAL INTERAGENCY  
SEDIMENTATION CONFERENCE**

**MARCH 25 - 29, 2001**

**RENO, NEVADA**

**Subcommittee on Sedimentation**

Agricultural Research Service (ARS)  
Army Corps of Engineers (USACE)  
Bureau of Land Management (BLM)  
Bureau of Reclamation (USBR)  
Environmental Protection Agency (USEPA)  
Federal Highway Administration (FHWA)  
Forest Service (USFS)  
Geological Survey (USGS)  
National Park Service (NPS)  
Natural Resources Conservation Service (NRCS)  
Office of Surface Mining Reclamation and Enforcement (OSMRE)  
Tennessee Valley Authority (TVA)

**PREFACE**

These proceedings of the Seventh Federal Interagency Sedimentation Conference contain over 190 technical papers. This conference is sponsored by the Subcommittee on Sedimentation. The conference theme is

***Sedimentation: Monitoring, Modeling, and Managing***

The enclosed technical papers document scheduled oral presentations and poster sessions. Papers are organized into eleven general sections according to broad subject matter headings. The proceedings have been prepared in advance of the conference so that all papers could be available to conference participants during the conference.

The Subcommittee held six previous interagency sedimentation conferences:

<i>1st</i>	<i>1947</i>	<i>Denver, CO</i>	<i>4th</i>	<i>1986</i>	<i>Las Vegas, NV</i>
<i>2nd</i>	<i>1963</i>	<i>Jackson, MS</i>	<i>5th</i>	<i>1991</i>	<i>Las Vegas, NV</i>
<i>3rd</i>	<i>1976</i>	<i>Denver, CO</i>	<i>6th</i>	<i>1996</i>	<i>Las Vegas, NV</i>
			<i>7th</i>	<i>2001</i>	<i>Reno, NV</i>

The first four meetings were conferences involving federal agencies only. Papers and discussions were given only by the staff of the agencies on the Subcommittee and by individuals engaged in cooperative sedimentation work with the agencies. Beginning with the Fifth and continuing with the Sixth and Seventh Conferences, however, a limited number of technical papers are being presented by nonfederal agencies in order to capture the full spectrum of sedimentation issues that relate to the condition of natural resources and their management.

This conference brings together professionals and others from (1) the federal government, (2) state and local agencies, (3) universities, (4) the private sector, and (5) international organizations. Since 1946, the Subcommittee on Sedimentation has focused on interagency coordination.

<b>Organizing Committee for the 7thFISC</b>		
<u>General Chairman</u>	G. Douglas Glysson	USGS
<u>Technical Program Committee</u>		
Chair:	Jerry M. Bernard	USDA-NRCS
Co-Chair:	Ronald R. Copeland	USACE
A/V Coordination:	Mark Sailer	USBR
Field Trip Coordination:	Glen Hess	USGS
<u>Operations Committee</u>		
Chair:	John R. Gray	USGS
Registration:	Paula Makar	USBR
Exhibits:	Wayne O'Neal	USGS
<u>Subcommittee Coordination:</u>	C. Ted Yang, Chair	USBR
	Christi Young	USBR

Keynote Speakers Dr. C. Ted Yang, USBR, "The Past, Present, and Future of Erosion and Sedimentation Studies"

Dr. Stanley Trimble, UCLA, "Soil Erosion and Sedimentation in the Driftless Area of the Upper Midwestern United States: An Historical Perspective"

Short Courses

- ◆ Uses of Stream Classification Systems for Stream Restoration: Lyle Steffen, NRCS; Janine Castro, USFWS
- ◆ Designing Stable Channel Restoration Projects: Ronald R. Copeland, USACE; David Biedenharn, USACE; Colin Thorne, U. of Nottingham, UK; Rebecca Soileau, USACE.
- ◆ Sediment Transport and Computer Model GSTARS 2.0/2.1: C. Ted Yang, Francisco J. M. Simões, and Blair Greimann, USBR.
- ◆ Stream Instability and Bridge Scour Counter Measures: Jorge E. Pagan-Ortiz, FHWA; Peter F. Lagasse, Ayres Associates, CO.
- ◆ Collection of Fluvial Sediment Samples: G. Douglas Glysson and John R. Gray, USGS.

Field Trips

- ◆ Carson River Restoration
- ◆ Washoe Lake and Lake Tahoe
- ◆ Truckee River Reservoirs
- ◆ Lower Truckee River
- ◆ Use of Stream Classification Systems for Stream Restoration (field portion of short course)

*Many thanks to all the participating agencies' representatives, who generously gave their time and efforts to make this conference a success and to promote research and understanding of sedimentation issues.*

*- The Subcommittee on Sedimentation*