

Erosion of Soils and Scour of Foundations

Held at GeoFrontiers 2005

Geotechnical Special Publication Number 135

Austin, Texas, USA
24 – 26 January 2005

Editors:

Jean Louis-Briaud
Shobha K. Bhatia

ISBN: 978-1-7138-5267-4

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2005) by American Society of Civil Engineers
All rights reserved.

Printed with permission by Curran Associates, Inc. (2022)

For permission requests, please contact American Society of Civil Engineers
at the address below.

American Society of Civil Engineers
1801 Alexander Bell Drive
Reston, VA 20191
USA

Phone: (800) 548-2723
Fax: (703) 295-6333

www.asce.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Erodibility of Fine Grained Soils and New Soil Test	1
<i>J. L. Briaud</i>	
Observations and Evaluations of Scour at Two Bridge Sites with Cohesive Soils.....	11
<i>Oktay Güven, Joel G. Melville, John E. Curry, Samuel H. Crim Jr.</i>	
Establishing a Scour Monitoring	24
<i>Beatrice E. Hunt</i>	
Bridge Scour Prioritization and Management System for National Road Bridges.....	35
<i>Kiseok Kwak, Jaehyun Park, Juhung Lee, Moonkyung Chung</i>	
Gravel Admixtures for Erosion Protection in Semi-Arid Climates	46
<i>Clifford E. Anderson, John C. Stormont</i>	
Development of Vegetated Systems and Engineered Vegetated Systems Testing Protocol in Channelized Flow	58
<i>C. M. Lipscomb, C. I. Thornton, R. J. Nelsen, S. R. Abt</i>	
Research Quantifies Performance of TRM Reinforced Vegetation.....	70
<i>Roy J. Nelsen</i>	
A Comparative Study of RECPs: Index Properties and Field Performance	81
<i>J. L. Smith, C. J. Bryz-Gornia, S. K. Bhatia, D. Walowsky</i>	
Contribution of Vegetation to Slope Stability: an Overview of Experimental Studies Carried Out on Different Types of Plants.....	91
<i>Daniele Cazzuffi, Enrico Crippa</i>	
Science Combined with Art Makes for Cost Effective Rolled Erosion Control Product Design Practices	103
<i>Marc S. Theisen</i>	

Author Index