

International Erosion Control Association

# 38<sup>th</sup> International Erosion Control Association Conference and Expo 2007

“Environmental Connection 2007”

February 12-17, 2007  
Reno, Nevada, USA

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571  
[www.proceedings.com](http://www.proceedings.com)

**ISBN: 978-1-60423-762-7**

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

## **Copyright and Disclaimer**

This product was produced for the International Erosion Control Association by Omnipress.

Duplication of this product and its content in print or digital form for the purpose of sharing with others is prohibited without permission from the International Erosion Control Association.

In no event will Omnipress or its suppliers be liable for any consequential or incidental damages to your hardware or other software resulting from the installation and/or use of this product.

No part of the product navigation and "Help" files may be reproduced or used without written permission from Omnipress.

©2007 Omnipress - All rights reserved.

International Erosion Control Association

38<sup>th</sup> International Erosion Control Association Conference and Expo  
2007

**TABLE OF CONTENTS**

<b><i>MOST DISTINGUISHED TECHNICAL PAPER: Modeling Erosion from Forest Roads with WEPP</i></b> .....	1
<i>Johnny Grace</i>	
<b>Water Quality Relative to Slope Toe Strip Type and Length</b> .....	13
<i>Brent Hallock, Lauren Corkins, Michael Curto, Stephen Rein, and Misty Scharff</i>	
<b>Guidelines for Critical Assessment of Small-Footprint Post-Construction BMP Performance Data</b> .....	24
<i>Brian Currier</i>	
<b>Storm Water Treatment Bioretention Basins</b> .....	33
<i>Misty Scharff</i>	
<b>Removing Storm Water Pollutants and Determining Relations between Hydraulic Flow-Through Rates, Pollutant Removal Efficiency, and Physical Characteristics of Compost Filter Media</b> .....	41
<i>Britt Faucette</i>	
<b>Effectiveness of Erosion/Sediment Control Designs with Changing Conditions</b> .....	63
<i>Steve Allen and Patrick Kaspari</i>	
<b>Polyacrylamide Reduces Erosion on Construction Site Slopes</b> .....	76
<i>Richard McLaughlin</i>	
<b>Evaluation Of Uncertainty In Erosion Calculations Using RUSLE</b> .....	85
<i>Angel Menéndez and Gustavo Salerno</i>	
<b>Design Guidance For Scourstop Transition Mat® At Culvert Outlets</b> .....	98
<i>Michael Robeson</i>	
<b>The Practical Application of BMPs for Road Maintenance Activities</b> .....	109
<i>Jeff Rudolph and Chris Ott</i>	
<b>Beneficial Use Of Dredged Materials At Louisiana Shoreline Near Sabine Pass</b> .....	124
<i>Yu-Chun Su, Jamie Benoliel, Joey Mahmoud, and Cathy Rourke</i>	
<b>Composite Geosynthetic Design Used to Protect Expansion Levee</b> .....	138
<i>Maria Tegeler</i>	
<b>Sims Bayou: Articulating Concrete Blocks Enhance Erosion Control Installations</b> .....	158
<i>Paul Clopper and Laura Girard</i>	
<b>Stream Restoration In Highlands Ranch 25 Years In Review</b> .....	172
<i>Joe Juergensen, Forrest Dykstra, and Derek Johns</i>	
<b>Re-restoration on the South Platte repairs flawed attempt at restoration</b> .....	206
<i>Jim Muth</i>	
<b>Riverbank Restoration with Native Wildflowers and Turf Reinforcement Mats</b> .....	233
<i>Jill Pack</i>	

<b>Low-cost, natural treatments bring steady recovery to a degraded trout stream.....</b>	<b>255</b>
<i>Michael Sprague</i>	
<b>Striebel Pond, Part 2: A Field Perspective.....</b>	<b>280</b>
<i>Brien Delich, Sandra Joseph, and David McCormick</i>	
<b>Stormwater as a Resource at Banner Bank Building.....</b>	<b>293</b>
<i>Adam Lyman</i>	
<b>Striebel Pond: Proactive Water Quality Approach to a Flood Control Project.....</b>	<b>342</b>
<i>Alan Walus and David McCormick</i>	
<b>Case Study of RUSLE2 Software Used for a Construction Application.....</b>	<b>370</b>
<i>Peter Romocki, Shannon Allen, and Ted Sherrod</i>	
<b>How To Turn Stormwater Runoff from Gravy to Chardonnay.....</b>	<b>404</b>
<i>Ray Smalling</i>	
<b>Say It With Pictures: Training Kentucky Field Personnel on Erosion and Sediment Control Techniques.....</b>	<b>446</b>
<i>Barry Tinning</i>	
<b>Site Inspections -- Can You Stay Out Of Jail?.....</b>	<b>488</b>
<i>Dan Weese</i>	
<b>Case Study Uses of PAM in Semi Arid Climate Construction Sites.....</b>	<b>494</b>
<i>Jennifer Foote, Terrill Lemke, and Tim Zimmerly</i>	

**AUTHOR INDEX**