

PROGRAM

SUNDAY, MARCH 9, 2008

2:00 – 6:00 PM	Exhibitors' Display Set Up (Exhibitors' Area)
4:00 – 6:00 PM	Registration (Conference Reception Desk)
5:00 – 6:00 PM	Meeting of VLWA Board of Directors
6:30 – 8:00 PM	Exhibitor and Early Registrant's Reception

MONDAY MORNING, MARCH 10, 2008

7:00 – 8:00 AM	Registration and Check-In (Conference Reception Desk)
7:30 AM	Coffee and Pastries
8:00 – 9:00 AM	Welcome to the Conference, Stuart Stein, Conference Chair, President of VLWA

Keynote Address: "Climate Change: Perspectives for Virginia Lakes and Watersheds" – Penelope Firth, Ph.D., Deputy Director, Division of Environmental Biology, National Science Foundation

9:15 – 10:30 First Concurrent Sessions

SESSION 1A WATERSHED PLANNING 1	SESSION 1B WATER QUALITY 1
Moderator – Steve McLaughlin, Department of Public Works, Virginia Beach	Moderator – Andrew Gould, Timmons Group
<i>SWM Hydrology and Non-Point Source Pollution Removal Model – Maita Pang, Imbrium Systems</i>	<i>PCB Transport and Fate in Stormwater Discharges from a Facility in Pennsylvania – Walter Bell, Zachary Hollcraft, Jaewan Yoon, Old Dominion University</i>
<i>Watershed Management Planning Subbasin Reconnaissance and Characterization: A Case Study – Carly Krause, GKY & Associates, Inc.</i>	<i>Bacteria in Stormwater-Where is it Coming From? – Lewis White, KCI Technologies</i>
<i>Nutrient Loading Model and BMP Planning in the Mattaponi River Watershed – Katherina Perkins, Wesley Clymer, Jaewan Yoon, Old Dominion University</i>	<i>Stormwater Characterization and Cost Assessment for Ozone and UV Disinfection – Ben Leach, ECC, Beth Arnold, Parsons Brinckerhoff, Bud Curtis, Parsons Brinckerhoff</i>
<i>Virginia Beach Lynnhaven Watershed Urban BMPs – Steve McLaughlin, Dept. of Public Works, Virginia Beach</i>	<i>Hancock Village and Anionic PAM Application – Heath Lyle, Andrew Gould, Timmons Group</i>
SESSION 1C BMP INSPECTION AND MAINTENANCE 1	SESSION 1D FLOODPLAIN MANAGEMENT 1
Moderator – Ved Malhotra	Moderator – Shane Parson, URS Corp.
<i>BMP Inspection in the City of Newport News – Richard Harr, City of Newport News, Ved Malhotra</i>	<i>Methods and Uncertainties in the Detail Floodplain Study of Plum Creek, VA – Tom Dickerson, Center for Geospatial Information Technology, Virginia Tech</i>
<i>The Keys to a Successful Storm Sewer Rehabilitation Program – Todd Williams, Malcolm Pirnie, Inc.</i>	<i>How are Virginia Municipalities Funding Stormwater Programs? – Christine Worley, URS Corp.</i>
<i>Stormwater Renovation: Fix'n to be Fixed Again – Brad Newlin, Watershed Concepts, Ryan Fedak, Hays, Seay, Mattern & Mattern</i>	<i>Common Challenges in Modeling Urban Floodplains – Dinakar Himmala, Prabha Madduri, Dewberry</i>
<i>Assessment and Maintenance of Stormwater Management Facilities: Trends, Drivers, and Case Studies – Doug Moseley, GKY & Associates, Inc.</i>	<i>Flood Control Retrofit on a "Live Stream": Morgan's Trace Case Study – Sean Bradberry, URS Corp.</i>

10:30 – 10:45 Coffee Break

10:45 – 12:00 Second Concurrent Sessions

SESSION 2A

WATERSHED PLANNING 2

Moderator – Hunr Loftin, Michael Baker Jr., Inc.

City of Winchester – Regulatory Negotiation, Outreach and Illicit Discharge Program Development for VPDES Small MS4 Permit Compliance – **Kelly Henshaw, City of Winchester Public Services Department, Elizabeth Krousel, Michael Baker Jr., Inc.**

Representation of Biosolids Application Using Hydrologic Simulations Program-Fortran: Nanney Creek Basin, Virginia Beach – **Liz Scheessele, URS Corp., Michael Barbachem, URS Corp., Steve McLaughlin, Dept. of Public Works, Virginia Beach**

Lynnhaven River Watershed Models 2007 Update, Virginia Beach – **Michael Barbachem, URS Corp., Liz Scheessele, URS Corp., Bill Johnston, Dept. of Public Works, Virginia Beach**

Low Impact Development: Where We Are Now In Its Implementation and What Hurdles Remain – **Hunt Loftin, Michael Baker Jr., Inc.**

SESSION 2B

WATER QUALITY 2

Moderator – Carolyn Thomas, Ferrum College

Citizen Scientists-Volunteer Monitoring Efforts on Falling Creek Reservoir, Chesterfield County, VA – **Heather Barrar, Weeden Cloe, Chesterfield County**

Nutrient Standards for Streams: An Update on States' Progress – **Clifton Bell, Malcolm Pirnie**

Visualizing Water Quality with GIS for Citizen Monitoring Groups – **Delia Heck, Ferrum College**

Does Smith Mountain Lake and Claytor Lake Meet the New VDEQ Lake Criteria? – **Carolyn Thomas, Ferrum College**

SESSION 2C

BMP INSPECTION AND MAINTENANCE 2

Moderator – Joseph Battiata, CONTECH

Stormwater Solutions

The Pitfalls of Stormwater Management Facility Maintenance – **Shannon Junior, Jason Murnock, Angler Environmental**

Educating Private Owners and Operators on Maintaining Stormwater Systems – **Laura Grape, NVRC**

Estimating Sediment Loading Rates in Fairfax County, VA – **Greg Vigilar, GKY & Associates**

Capital Investment or Long Term Operation and Maintenance Costs: Who Decides? – **Joseph Battiata, CONTECH Stormwater Solutions**

SESSION 2D

FLOODPLAIN MANAGEMENT 2

Moderator – Connie Bennett,

York County

Poquoson, Virginia: A City on the Rise Recovers from Isabel – **Debbie Messmer, VA Dept. of Emergency Management**

FEMA Community Rating System (CRS) Program – Is it for your Community? – **Dave Odegard, FEMA**

Community Rating System, County of York, Virginia – **Connie Bennett, York County, VA**

Hydraulic Valves and Logic Processors on Medium to Small Dams-The Future of Dam Automation – **Austen Bander, Watershed Services, Inc.**

12:15 – 1:15 PM Luncheon

Keynote Address: “Preserving and Promoting Virginia’s Natural Resources” – L. Preston Bryant, Jr., Virginia’s Secretary of Natural Resources

MONDAY AFTERNOON, MARCH 10, 2008

1:30 – 2:45 PM Third Concurrent Sessions

SESSION 3A	SESSION 3B
WATERSHED MANAGEMENT IN LOUDOUN CO. Moderator – Bruce McGranahan, Loudoun County	WATER QUALITY 3 Moderator – Troy Biggs, AMEC
<i>Developing a Watershed Management Strategy and Stakeholders</i> – Kelly Baty, Bruce McGranahan, Loudoun County	<i>Green Ribbon Water Quality Committee in Virginia Beach</i> – Barry Frankenfield, City of Virginia Beach Parks & Recreation, June Barrett-McDaniels, Aquarius Engineering
<i>Identifying and Analyzing Available Water Resource and Watershed Data</i> – Dennis Cumbie, David Ward, Loudoun County	<i>The Lynnhaven River-A Success Story(?)</i> – Bill Johnston, Virginia Beach Dept. of Public Works
<i>A Predictive Wetlands Model</i> – Alex Blackburn, Laura Edmonds, Trent Small, Loudoun County	<i>Total Maximum Daily Loads (TMDLs) and Stormwater Management in Virginia-MS4 Permitting Program Application and Implementation</i> – Stuart Stein, Doug Moseley, GKY & Associates, Inc.
<i>Developing a Countywide Watershed Management Plan</i> – Dan Medina, CH2M HILL, Cheri Salas, CH2M HILL, Glen Rubis, Loudoun County	<i>Planning Level Approach for Determining Erosion “Hotspots” on a Watershed Scale Basis</i> – Troy Biggs, Hrushikesh Sandhe, AMEC
SESSION 3C	SESSION 3D
DAM REHABILITATION IN VIRGINIA Moderator – Wade Biddix, USDA-NRCS	FLOODPLAIN MANAGEMENT 3 Moderator – Jeff Sparrow, Michael Baker Jr., Inc.
<i>Program Policy and Administration</i> – Wade Biddix, USDA-NRCS	“Floodplain Map Modernization Status Update”
<i>Program Implementation</i> – Mat Lyons, Jerry Wright, USDA-NRCS	<i>Status of Flood Map Modernization in FEMA Region III</i> – Bob Pierson, FEMA
<i>Planning Considerations</i> – Wade Biddix, USDA-NRCS	<i>DCR’s Role in Map Modernization in Virginia</i> – Charlie Banks, Dept. of Conservation & Recreation
<i>Valve Replacement at Spring Lake (Site 52-B) for Hanover Caroline Soil and Water Conservation District</i> – Cameron Smith, Watershed Services, Inc.	<i>FEMA Digital Vision: Changing the Delivery of Flood Hazard Data</i> – Jeffrey Sparrow, Michael Baker Jr., Inc.
	<i>New Federal and State Legislation and the Impact on Floodplain Mapping and Stormwater Programs</i> – Fernando Pasquel, Michael Baker Jr., Inc.

2:45 – 3:15 Coffee Break

3:15 – 4:30 PM Fourth Concurrent Sessions

SESSION 4A MODELING WATERSHED PRACTICES Moderator – Jamie Weist, Woolpert, Inc.	SESSION 4B BMPs Moderator – Eddie Crockett, City of Newport News
<i>Watershed Models for Stormwater Management Manager's Perspective – Jamie Weist, Woolpert, Inc.</i> <i>Stormwater Models PondPack, SWMM, and HEC-HMS Field Applications and Evaluations – Jack Wall, Woolpert, Inc.</i> <i>Watershed Models for Stormwater Management: A Review for Better Selection and Application – Deva Borah, Woolpert, Inc.</i> <i>A Review of Channel Erosion Modeling Techniques for Watershed Applications – Gene Yagow, Virginia Tech</i>	<i>Incorporating Best Management Practices Within Existing Neighborhoods – Mike Mundy, City of Virginia Beach Public Works Stormwater Engineering</i> <i>A Fresh Design Outlook: Update of the WEF/ASCE Manual of Practice "Design of Urban Runoff Controls" – Dan Medina, CH2M HILL, William Frost, KCI Technologies, Inc.</i> <i>Lake Caroline Drainage Inventory Analysis – Michael Claud, David Wilmoth, Timmons Group</i> <i>Barscreens and Debris Collection Systems – Eddie Crockett, City of Newport News</i>
SESSION 4C DAM SAFETY 1 Moderator – Tillman Marshall, Schnabel Engineering, Inc.	SESSION 4D FLOODPLAIN MANAGEMENT 4 Moderator – Shane Parson, URS Corp.
<i>Improving Dam Safety Through Subsurface Water Mapping: A Minimally Invasive Approach to Seepage Diagnosis and Risk Analysis – Paul Rollins, Willowstick Technologies</i> <i>Virginia's IFLOW'S System and Future Approaches to Dam Safety – Sam Utley, MapTech, Inc.</i> <i>Comparison of Steady versus Unsteady Flow Modeling for a Multiple Dam Failure Event – Arthur Miller, Watershed Concepts</i> <i>Flood Passage Considerations for Earth Dams – Tillman Marshall, Schnabel Engineering, Inc.</i>	<i>"Floodplain Map Modernization: Panel Discussion"</i> Panel Members: David Gunn, DCR Bob Pierson, FEMA Matt Dudley, URS Corp. Al Frauenfelder, Henrico County

MONDAY EVENING, MARCH 10, 2008

- 4:45 – 6:00 PM Reception
- 6:00 – 6:30 PM Virginia Lakes and Watersheds Association Business Meeting

TUESDAY MORNING, MARCH 11, 2008

7:00 – 8:30 AM VFMA Annual Business Meeting (Session D Room)

8:30 – 9:45 AM Fifth Concurrent Sessions

SESSION 5A THE COMMUNITY INVOLVEMENT PROCESS IN VIRGINIA Moderator – William Norris, Dept. of Environmental Quality	SESSION 5B ENVIRONMENTAL PROTECTION AND RESTORATION 1 Moderator – Nicki Foremsky, Reston Association
<i>Community Involvement Process Framework and Concepts (IEP2) – Angela Neilan, Dept. of Environmental Quality</i> <i>Overview of the use of the Community Involvement Process/Water Supply Planning Regulation – William Norris, Dept. of Environmental Quality</i> <i>Two Case Studies on the Local Implications of Community Involvement – Ray Griffin, Central Shenandoah Planning District Commission</i> <i>Community Involvement in the Charlottesville/ Albemarle Area – Andrea Terry, Rivanna Water and Sewer Authority</i>	<i>Shoreline Stabilization and Erosion Control at Norfolk Botanical Garden: Fun with Coir Logs – Theresa Augustin, Norfolk Botanical Garden</i> <i>Windsor Great Park Stream Restoration-Newport News, Virginia – Travis Crayosky, Doug Beisch, Scott Blossom, Williamsburg Environmental Group</i> <i>Mattaponi Wetland and Stream Mitigation Bank – Chris Dodson, Rebecca Draucker, Timmons Group</i> <i>The Northern Virginia Stream Restoration Bank-A Progressive Partnership Case Study – Nicki Foremsky, Reston Association, Frank Graziano, Wetland Studies and Solutions, Inc.</i>
SESSION 5C DAM SAFETY 2 Moderator – Tom Roberts, Dept. of Conservation and Recreation	SESSION 5D FLOODPLAIN MANAGEMENT 5 Moderator – Jeff Smith, Dewberry
<i>Performance Review of RCC Spillways and Overtopping Protection – Fares Abdo, Portland Cement Association</i> <i>Articulated Concrete Blocks (ACBs) in Auxiliary Spillways – Donald Rissmeyer, A. Morton Thomas and Associates</i> <i>Partnership with Federal Government and Local Government for Flood Control Structures – Frank James, City of Newport News</i> <i>Dam Safety-Sources of Free, Public Domain, and Pertinent Information on Current Practices for Dam Design Criteria, Rehabilitation, Maintenance, and Inspection – Tom Roberts, Dept. of Conservation & Recreation</i>	<i>Getting More from Stream Gage Analyses-Record Extension Techniques and Other Issues – Prabha Madduri, Mathini Sreetham, Dewberry</i> <i>Post-Fire Hydrologic and Hydraulic Modeling – Jeff Smith, Dewberry</i> <i>GIS Customization from Mapping to Data Management – Dave Rubenstein, Vince Legendre, URS Corp.</i> <i>Levees in the NFIP – David Preusch, Michael Baker Jr., Inc.</i>

9:45 – 10:15 Coffee Break

10:15 – 11:30 AM Sixth Concurrent Sessions

SESSION 6A

VEGETATION AND DAM REPAIR
Moderator – Ephraim Seidman,
Aquatic Services, Inc.

Challenging the Invasive Species Paradigm Driving Management – **Amy Villamagna, Virginia Tech**
An Update on Aquatic Pesticides – **Ephraim Seidman, Aquatic Services, Inc.**
Water Quality Management for Ponds and Lakes – **Rudi Huber, AquaMaster Fountains and Aerators**
Walkers Dam Emergency Inspection and Stabilization – **Scott Cahill, Watershed Services, Inc.**

SESSION 6B

ENVIRONMENTAL PROTECTION AND RESTORATION 2
Moderator – Dan Sweet, Vanasse Hangen Brustlin, Inc.

Cheroenhaka Environmental Bank and Industrial Park – **Joe Hines, Chris Dodson, Michelle Virts, Rebecca Draucker, Timmons Group**
Rocketts Landing, Richmond Virginia, Voluntary Remediation Project on the Banks of the James River – **David Sayre, S&ME, Inc.**
Prince Edward County's Proactive Approach to Protect Sandy River Reservoir – **Paul Peterson, Malcolm Pirnie, Anne Urenda, Draper Aden Associates, Alecia Daves-Johnson, Prince Edward County**
A Practical Example of On-site Stream Mitigation and Stormwater Management for Retail Development in Central Virginia – **Dan Sweet, Vanasse Hangen Brustlin, Inc.**

SESSION 6C

DAM SAFETY 3

Moderator – Paul Rizzo, Paul C. Rizzo Associates

Laurel Bed Dam, Clinch Mountain Wildlife Management Area, Russell County, Virginia – **Donald Sipher, Froehling & Robertson, Inc.**
Urban Watershed Impairments: Hydrology versus Hydraulics – **David Powers, Michael Baker Jr., Inc.**
Conservation Easements for Dam Owners-Protecting the Watershed and Hazard Classification – **Sarah Richardson, Dept. of Conservation & Recreation**
Construction of the New Upper Reservoir Taum Sauk Pump Storage Project – **Paul Rizzo, Steve Adams, Paul C. Rizzo Associates**

SESSION 6D

EXTREME HYDROLOGY

Moderator – Seshadri Iyer, URS Corp.

Delmarva Revisited-Flood Hydrology for the Coastal Plain – **Greg Paxson, Paul Welle, Schnabel Engineering, Inc.**
Extreme Events in Virginia Graphs, Photos, Video – **John Harrison, Schnabel Engineering, Inc.**
A Meteorological Network Design for Prediction and Recovery Efforts for a Coastal City – **Seshadri Iyer, Mitali Goel, URS Corp., Steve McLaughlin, Dept. of Public Works, Virginia Beach**
Optimizing State-wide Water Diversions During Drought Conditions in New Jersey – **Carlos Cuneo, Black and Veatch**

11:45 – 1:00 PM Luncheon

Keynote Address: “The Progress in Floodplain Management: Does the Public Understand Risk and Responsibility?”– Gerald Galloway, Jr., Glenn L. Martin Institute Professor of Engineering and Affiliate Professor of Public Policy, University of Maryland and a visiting scholar at the US Engineer Army Institute for Water Resources