Wetlands: Function, Assessment, and Management

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Society of Wetland Scientists 20th Annual Meeting
Norfolk, Virginia, USA
June 6-12, 1999

Conference Chair:
R. Harold Jones

Technical Program Chairs:
James E. Perry and Janet R. Keough

Abstract Editors:
James E. Perry and Jason S. Goldberg
— Schedule of Events —

— Sunday, June 6 —

1:00 PM - 6:00 PM  Exhibitor and Poster Session Setup - Norfolk Ballroom Level 1
1:00 PM - 6:00 PM  Registration - Level 1
12:00 PM - 10:00 PM  OLD SWS Board Meeting (Dinner) - Elizabeth Boardroom Level 4

— Monday, June 7 —

8:00 AM - 5:00 PM  Registration - Level 1
Exhibitor and Poster Session setup - Norfolk Ballroom Level 1

9:30 AM - 10:30 AM  Welcome & Announcements - Hampton Roads Ballroom Level 3
R. Harold Jones, '99 SWS Conference Chair
Welcome, City of Norfolk
John Teal, President, SWS

10:30 AM - 10:45 AM  Break - Norfolk Ballroom Level 1

10:45 AM - 12:00 PM  Plenary
Fredrick A. Swarts - Secretary General, World Conference on Preservation and Sustainable Development in the Pantanal
"Pantanal in the 21st Century; Lessons Applying to the World’s Largest Wetland"
Joseph H. Maroon, Virginia Executive Director, Chesapeake Bay Foundation
"The Chesapeake Bay: A Commitment for Restoration and Protection"

12:00 PM - 1:00 PM  Lunch - On your own
Certification Panel Lunch - Madison Room Level 3

1:00 PM - 3:00 PM  Silent Auction Begins - Norfolk Ballroom Level 1

Session 1A. BIOGEOCHEMISTRY
Session Chair: Gary Whiting

1:00-1:20 DIANNA HOGAN, Mark Walbridge, and Thomas Jordan
The Effects of Soil Organic Matter On Phosphorus Retention and Transformation In Constructed and Natural Wetlands

1:20-1:40 KIMBERLY P. WICKLAND and Robert G. Striegl
Carbon Cycling of a Subalpine Wetland In the Southern Rocky Mountains

1:40-2:00 ALLEN B. TEASLEY and Gary J. Whiting
Rate of Experimentally-Induced Reduction In Wetland Macrophyte Stomatal Conductance and Possible Implications for Methane Emissions

2:00-2:20 RACHAEL E. GRIMSLEY and Stephen P. Faulkner
Comparison of Organic Matter Concentrations and Microbial Activity In Soils of Restored and Natural Bottomland Hardwood Wetlands
Session 1B. WETLAND REGULATION AND POLICY
Session Chair: TBA

1:00-1:20 SUSAN-MARIE STEDMAN
Wetlands As Essential Fish Habitat (EFH) - An Update On EFH Designation and the Federal Agency Consultation Process

1:20-1:40 JIM LIVELY, Scott Mcewen, and Ty Ratliff
A Partnership Approach to Wetland Protection In a Rapidly Developing Region

1:40-2:00 BRUCE E. STAUFFER and Sharon Yates
Case Study of a Wetland Monitoring Protocol and Tracking System for Pennsylvania

2:00-2:20 STEVEN M. MARTIN
Some Effects of the Recent Tulloch Rule Decision On Wetlands In Chesapeake, VA

2:20-2:40 KIM PILARSKI
TVA's Lands Planning Process and Its Role In Wetland Stewardship and Protection

Session 1C. BIOLOGICAL INDEXING AND ASSESSMENT PROGRAMS
Session Chair: Denice Wardrop

1:00-1:20 Matthew Schweisberg and JEANNE VOORHEES
Wetland Biological Assessment Programs: A New England Model

1:20-1:40 M. SIOBHAN FENNESSY, John Mack, and Ricardo D. Lopez
Developing Indicators to Evaluate Wetland Ecosystem Condition Using Reference Sites

1:40-2:00 DENICE HELLER WARDROP, Robert P. Brooks, and Charles Andrew Cole
Tolerance Groups of Wetland Plants for Use In a Plant-Based Index of Biological Integrity

2:00-2:20 ROBIN J. BENNETT and Robert P. Brooks
Development of an Invertebrate Community Index (ICI) for Wetlands Using the HGM-Classification System In Central Pennsylvania

2:20-2:40 RALPH J. GARONO, David Bradsby, and James Kooser
Using Adult Insects to Assess the Restoration of a Desert Wetland In Big Bend National Park
Session 1D. WILDLIFE RESPONSES TO ANTHROPOGENIC IMPACTS  
Session Chair: Beth Middleton

1:00-1:20 RYAN S. KING and Curtis J. Richardson  
Influence of Experimental Phosphorus Additions On Invertebrate Assemblages In Sloughs of the Northern Everglades

1:20-1:40 JANET A. COWAN, Patrick Kangas, and Matthew C. Perry  
Amphibian Use of a Constructed Wetland for Sewage Treatment In Maryland

1:40-2:00 CHRIS R. ROBERTS and Thomas L. Crisman  
Fish Responses to Hydrological Renovation of a Pondcypress Strand In Tate’s Hell Swamp, Florida

2:00-2:20 RAYMOND C. KURZ, Robert W. Fenwick, and Katharine A. Davis  
A Comparison of Fish Communities In Restored and Natural Salt Marshes In Tampa Bay, Florida

2:20-2:40 J. RUSSELL BODIE and Raymond D. Semlitsch  
Diversity and Structure of Turtle Assemblages: Associations With Wetland Character Across a Floodplain Landscape

Session 1E. OPEN

Session 1F. ECOLOGY AND RESTORATION OF PEATLAND PROCESSES  
Session Chair: TBA

1:00-1:20 MERRITT R. TURETSKY, R. Kelman Wieder, and Dale H. Vitt  
Carbon Mineralization In Peatlands of the Discontinuous Permafrost Zone of Continental, Western Canada

1:20-1:40 K. KELMAN WIEDER  
Estimation of Fine-Scale, Depth-Dependent Decay Rates In Near-Surface Sphagnum Peat From 210Pb-Dated Cores

1:40-2:00 M.N. THORMANN, R.S. Currah, and S.E. Bayley  
A Preliminary Account of Five Interesting Fungi Isolated From Living and Decomposing Sphagnum fuscum In a Boreal Bog In Alberta, Canada.

2:20-2:40 RODNEY A. CHIMNER and David Cooper  
The Effects of a Water Diversion Project On Peatland Carbon Balance, Rocky Mountain National Park, CO

2:40-3:00 KURT P. KOWALSKI, AND Douglas A. Wilcox  
Ecology and Hydrologic Factors Influencing Peatland Restoration Project In Seney National Wildlife Refuge In Michigan

3:00-3:30 SUZANNE CAMPEAU, Line Rochefort, and Jonathan S. Price  
On the Use of Shallow Trenches to Restore Cutover Peatlands

Session 1G: OPEN

3:00 PM - 3:15 PM  
Break
Session 2A. BIOGEOCHEMISTRY
Session Chair: Mark Walbridge

3:15-3:35 S. S. SAM LAU and Stuart N. Lane
The Application of Dynamical Systems Modeling to Non-steady-state Nutrient Cycling in Shallow Lake

3:35-3:55 VINCENT G. GUIDA
Interactive Roles of Hydrology, Water Chemistry and Climate In Regulating Growth of Spartina alterniflora In a New Jersey Tidal Marsh

3:55-4:15 OPEN

4:15-4:35 JOHANNA V. WEISS, J. Patrick Megonigal, David Emerson
The Role of Iron-Oxidizing and Iron-Reducing Bacteria In Plaque Formation In the Rhizosphere of Wetland Plants

4:35-4:55 J.T. PHINNEY AND G.D. Dombeck
Trace Metal (Ni, Cu, and Zn) Speciation In the Surface Water of a Constructed Wetland, Sacramento, CA.

Session 2B. WETLAND MITIGATION TOOLS AND STANDARDS
Session Chair: Thomas Barnard

3:15-3:35 KEN SCHLATTER and Gloria Skinner
Mitigation Tools for Special Circumstances: Preservation of High Quality Wetlands

3:35-3:55 RUTH M. LADD, Gail P. Clingerman, Jody A. Gaudet, and Michael J. Sheehan
Mitigation Standards In New England

3:55-4:15 GLORIA SKINNER, Heather Roughgarden, Mary Ossinger, Paul Wagner, Patty Lynch, and Lauren Driscoll
Incentives to Form Partnerships for Wetland Mitigation and Management

4:15-4:35 STEVEN C. RUSSELL
Expanding the Benefits of Wetland Mitigation Projects Through Inter-Agency Coordination

Development of an Agency Manual to Guide Wetland Compensation for Roadway Projects Within the Virginia Department of Transportation

Session 2C. BIOLOGICAL INDEXING AND ASSESSMENT PROGRAMS
Session Chair: TBA

3:15-3:35 THOMAS J. DANIELSON
Overview of Wetland Biological Assessment Methods and Programs In the U.S.

3:35-3:55 S.J. DOHERTY, M.T. Brown, and C.R. Lane
Development of a Biological Approach for Assessing Wetland Integrity In Florida
3:55-4:15 NEAL E. FLANAGAN, Curtis J. Richardson, and Ryan King
A Preliminary Functional Assessment Model to Examine Highway Construction 
Effects On Brackish Wetlands In North Carolina

Session 2D. WILDLIFE HABITAT
Session Chair: Beth Middleton

3:15-3:35 NATHAN GICHUKI and Daniel Nzengya
Dynamics of Benthic Macroinvertebrates In a Tropical Wetland Receiving Domestic Waste Water

3:35-3:55 MARK D. FOWLKES, Joseph P. Prenger, Thomas L. Crisman, Carrie Abramchik, and Jerry L. Michael
Short Term Impact of Fire and Drought On Macroinvertebrates In Pondcypress Domes

3:55-4:15 RUSS C. WEEBER, Charles M. Francis, Jon D. McCracken, and Kathy E. Jones
Habitat Associations of Great Lakes Basin Marsh Birds

4:15-4:35 LEYLA E. LANGE, Patrick Kangas, Walter Adey
Fish Community Structure of a Mesocosm Model of the South Florida Everglades

4:35-4:55 RAYMOND D. SEMLITSCH
Biological Delineation of Terrestrial Buffer Zones for Amphibians

Session 2E. INTERACTIVE WORKSHOP: SETTING FUNCTIONAL GOALS FOR WETLAND REVEGETATION IN PIPELINE CONSTRUCTION CORRIDORS
The purpose of this workshop is to evaluate a proposed approach for setting wetland revegetation goals within the rights of way of pipeline construction corridors based on assessment of wetland functions affected by such wetland crossings. These wetland revegetation goals would then be used to address the type of revegetation to be required, and the best methods available for meeting these goals in post-construction pipeline rights of way. To sign up contact Bill Magdych (Bill_Magdych@urscorp.com) or see sign up sheet at front desk.

Session 2F. HABITAT RESTORATION IN THE WESTERN UNITED STATES
Session Chair: Charles Newling

3:15-3:35 JOAN S. THULLEN, James J. Sartoris, and William E. Walton
Vegetation Management Investigations In a Southwestern US Constructed Wetland

3:35-3:55 IRENE M. ULM and Michelle Girts
Successful Establishment of Eelgrass (Zostera marina) Beds In North Bend, Oregon

Comparison of Wetland Functions In Restored Tidal Marshes of Varying Ages

4:15-4:35 JULIE STROMBERG
Natural Recovery of Populus-Salix Forests Along a Tamarix-Dominated River
4:30-4:50 STEVEN M. WINTER, Jan L. CAMPBELL, Jan L. Ensminger, Lyndon C. Lee and Lisa B. Shaw
Incorporating Large Woody Debris In Aquatic Restoration Design Sites In Western Washington

Session 2G. OPEN

6:30 PM-8:30 PM Hosted Reception at Nauticus Maritime Center
20th Annual Meeting, Norfolk, Virginia

— Tuesday, June 8 —

8:00 AM-5:00 PM
Registration

8:00 AM-9:45 AM

Session 3A. PLANT COMMUNITIES: ROLE AND CONTROL OF INTRODUCED SPECIES
Session Chair: Kirk Havens

8:00-8:20 JAMES A. ALLEN, Evelyn F. Cox, Ken W. Krauss, and Norman C. Duke
Factors Affecting Mangrove Species Distribution In Hawaii

8:20-8:40 DAN M. RICE, Jill E. Rooth, and J. Court Stevenson
Trends of Increased Phragmites australis Invasion In Chesapeake Bay Tidal Marshes: What’s a Poor Wetland Manager to Do?

8:40-9:00 MICHAEL L. CAMPANA and James E. Perry
The Effect of Phragmites australis Invasion On Community Processes In a Tidal Freshwater Marsh

9:00-9:20 SYLVAN R. KAUFMAN
Ecological Factors Affecting Invasion By Melaleuca quinquenervia In Native and Non-Native Habitats

9:20-9:40 MICHAEL KLEPINGER
The Purple Loosestrife Biocontrol Project At Michigan State University

Session 3B: BIOENGINEERING
Session Chair: Lyle Varnell

8:00-8:20 CHANGWOO AHN, William J. Mitsch, and William E. Wolfe
Ecological Engineering of Wetlands With Recycled FGD Liner: A Mesocosm Experiment

8:20-8:40 C. SCOTT HARDAWAY, JR., Lyle M. Varnell, and Walter I. Priest
Estuarine Habitat Enhancement Through Shoreline Stabilization: A Case Study for a Chesapeake Bay Shoreline

8:40-9:00 MAIA FLEMING, Noah Hume, and Alex Horne
Enhancement of Nitrogen Removal Rates In Wetlands: Factors Contributing to Increased Nitratre Mass Transfer In the Denitrification Zone

9:00-9:20 WILLIAM J. TARUTIS, JR.
Application of Michaelis-Menten Kinetics to Describe Iron Removal In Coal Mine Drainage Wetlands

9:20-9:40 MICHAEL J. MARCUS
Soil Bioengineering On Coastal Banks

Session 3C CURRENT METHODS IN WETLAND DELINEATION (1)
Session Chair: Ralph Tiner

8:00-8:20 RALPH TINER
An Overview of Approaches to Wetland Identification and Delineation
8:20-8:40 PETER L.M. VENEMAN
Vegetation and Soils As Indicators of Wetlands

8:40-9:00 WILLIAM J. TARUTIS, JR. and Kenne
Comparison of Hydrophytic Vegetation Indices Used in Wetland Surveys

9:00-9:20 P. MICHAEL WHITED and Steven Sprecher
NTCHS Field Indicators of Hydric Soils

9:20-9:40 STEVEN M. MARTIN
Testing Proposed Changes to the Northeast Wetland Plant List In the Virginia Coastal Plain

Session 3D. Special Symposium: SCIENTIFIC AND APPLIED WETLAND ISSUES: FORMING LINKS ACROSS POLITICAL BOUNDARIES
Session Chair: William Streever

8:00-8:40 T.L. CRISMAN
Establishing Intra and International Communication Linkages for Sound Wetland Management In the Subtropics and Tropics

8:40-9:20 EDWARD MALTBY
The Trans-Boundary Challenges In Wetland Science and Management

Session 3E: OPEN

Session 3F: ECOLOGY OF RESTORED ECOSYSTEMS: VEGETATION COMMUNITIES
Session Chair: Kevin K. Moorhead

8:00-8:20 DOUGLAS A. DEBERRY and James E. Perry
Comparison of Early Successional Plant Structure and Composition in a Created and Natural Non-tidal Wetland

8:20-8:40 ELLEN F. DERICO and Andrew H. Baldwin
Self-Organization of the Vegetation and Seed Bank In a Constructed Wetland System For Treating Dairy Waste

8:40-9:00 HAROLD J. WEBSTER
Vegetation Establishment After Four Years In a Mitigated Wetland

9:00-9:20 CAROLYN FOLEY, Christian Grue, Loveday Conquest, Kern Ewing and David Mauser
Managed Seasonal Drawdown of a Sloped Agriculture Field to Promote the Establishment of Wetland Plant Species on the Tule Lake National Wildlife Refuge

Session 3G. Special Symposium: RESTORATION OF A TIDAL SALT MARSH: A CASE STUDY OF DELAWARE
Session Chairs: Lee Weisher and John Teal

8:00-8:30 JOHN BALLETTO, Maureen Vaskis, and Hugh Mahoney
The Estuary Enhancement Program: A Model Solution for an Environmental Problem
Tuesday—

8:30-9:00 LEE WEISHAR, John Teal, and Ray Hinkle
The Design Process Used for Marsh Restoration In the Delaware River Estuary

9:00-9:30 JOHN M. TEAL and Lee Weishar
An Overview of Approaches to the Use of Ecological Engineering and Adaptive Management In a Delaware Bay Marsh Restoration Project

9:45 AM-10:15 AM

Break

10:15 AM-12:00 PM

Session 4A. PLANT COMMUNITIES: FRESHWATER HABITATS
Session Chair: Ronald Fortney

10:15-10:35 RONALD H. FORTNEY
A Chronology of Post Logging Plant Succession In Canaan Valley, WV, From 1945 to 1997

10:35-10:55 REBECCA J. HOWARD and Christopher J. Wells
Relationship Between Plant Community Composition and Elevation In the Drawdown Zone of Felsenthal Navigation Pool, Ouachita River, Arkansas.

10:55-11:15 TODD A. ASCHENBACH and Kelly Kindscher
Plant Community Dynamics At Cheyenne Bottoms, Kansas, USA

Wetland Plant Community Response to Disturbance: A Reconstruction of Vegetation Community History Provided By Wetland Seedbanks

11:35-11:55 J. BRADLEY JOHNSON and David Steingraeber
The Vegetation Ecology of Calcareous Fens In Southpark Colorado

Session 4B: OPEN

Session 4C. CURRENT METHODS IN WETLAND DELINEATION (2)
Session Chair: Ralph Tiner

10:15-10:35 JAMES R. COOPER, Maynard E. Sweeley, Richard W. Cantrell, John D. Tobe, Ashley S. O’Neal, and Mark A. Garland
Wetland Soils In Florida Flatwoods

10:35-10:55 G.W. Hurt, C.V. NOBLE, V.W. Carlisle
Created, Drained (Protected), Historic, and Relict Hydric Soils: The Altered Soils

10:55-11:15 DENNIS D. PETERS
Wetland Classification/Wetland Delineation: Similarities, Differences and Uses

11:15-11:35 JAMES P. SHEPARD, Hesham A. Monsef, and Loukas G. Arvanitis
Overlaying Federal Inventory Data Yields New Knowledge About Wetland Forests In Florida
Session 4D. Special Symposium: FORMING LINKS ACROSS INTERNATIONAL WETLAND ISSUES: FORMING LINKS ACROSS INTERNATIONAL WETLAND BOUNDARIES
Session Chair: William Strever

10:15-10:55 ROY R. LEWIS III
Problems With Wetlands Management and Research Technology Transfer to Third World Countries

10:55-11:35 M.C. Landin, J. Brooke, C. Adnitt, and J. S. James
Saltmarsh Restoration Studies and Guidelines In the United Kingdom

Session 4E: OPEN

Session 4F. INTRODUCTION TO THE MID-ATLANTIC COASTAL WETLANDS (no abstracts)
Session Chair: Gene Silberhorn

NOTE: This session is recommended for those going on the Wednesday field trips and are not overly familiar with the ecology and biotic communities of the area.

10:15-10:35 James E. Perry
Ecology and Composition of Mid-Atlantic Tidal Wetlands

10:35-10:55 Mark Brinson
Ecology and Composition of Pocosins

10:55-11:15 Richard Rheinhardt
Ecology and Composition of Coastal Hardwood Wetlands

11:15-11:35 Robert B. Atkinson
Ecology and Composition of Atlantic White Cedar In the Mid-Atlantic Region

11:35-11:55 Gene Silberhorn
Vegetation Composition of Grafton Ponds (Sink Holes)

Session 4G. Special Symposium: RESTORATION OF A TIDAL SALTMARSH: A CASE STUDY OF DELAWARE (Section 2)
Session Chairs: Lee Weisher and John Teal

10:15-10:45 DAVID AUBREY, Lee Weishar, and Adam Kornick
Evolution of the Hydroperiod and Tidal Channels At Commercial Township, NJ

10:45-11:15 RAY HINKLE, John Teal, and Lee Weishar
Development of Spartina alterniflora Cover Within Restored Salt Hay Farm Sites In Southern New Jersey

11:15-11:45 Kurt R. PHILIPP
Sedimentation In Restored Sites

12:00 PM-1:00 PM
Lunch on your own
Associate Editors Lunch – Franklin & Shangri-La room – Level 2
Certification Committee Lunch – Madison Room – Level 3
Tuesday — 20th Annual Meeting, Norfolk, Virginia

1:00 PM-2:45 PM

Session 5A. PLANT COMMUNITIES: TIDAL WETLANDS
Session Chair: Walter I. Priest, III

1:00-1:20 ROSEMARY E. LAIRD and James E. Perry, III
Spatial and Temporal Variation In Saltmarsh Vegetation Along a Salinity Gradient In the York River, Virginia

1:20-1:40 MEGAN K. GREINER, Jim Grace, Ellen Hahn, and I.A. Mendelsohn
Testing the Influence of Competition Along a Salinity Gradient Using Three Marsh Species: Spartina patens, Sagittaria lancifolia and Panicum hemitomon

1:40-2:00 ANDREW H. BALDWIN, Ernest Clarke, and Michael Egnotovich
Experimental Examination of the Effects of Seasonal Variation In Water Level On Plant Community Structure In a Tidal Freshwater Marsh

2:00-2:20 DEBORAH L. MILLER, Lisa Y. Yager, and Fred E. Smeins
Vegetation Dynamics of a Texas Coastal Marsh Ecotone

Session 5B. GROUNDWATER HYDROLOGY
Session Chair: Mike Focazio

1:00-1:20 SCOTT W. WOODS, Rod Chimner, David Cooper, and Lee MacDonald
Hydrologic and Ecological Impacts of the Grand Ditch Streamflow Diversion, Rocky Mountain National Park, Colorado

1:20-1:40 MICHAEL J. FOCAZIO and Gary K. Speiran
Wetland Hydrology In Relation to the Surrounding Landscape In the North Landing River Natural Area Preserve, Virginia

1:40-2:00 A. MAHENDRA RODRIGO, P.E., Chandi S. Rodrigo, P.E., Lewis O. Morgan, P.E., Therese M. Fulmer, and Kenneth P. Dunne
Hydrologic Response of a Constructed Forested Wetland System to Precipitation In Delaware

2:00-2:20 ALLAN S. CROWE, Steven G. Shikaze, and Carol J. Ptacek
Simulation of Groundwater Flow and Nutrient Transport to a Freshwater Coastal Wetland

2:20-2:40 ROBERT J. PIERCE, Mel C. Zimmerman, and Colleen Heisey
More Growth of Corn (Zea maize) As an Evaluator of Wetland Hydrology Criteria

Session 5C. CURRENT METHODS IN WETLAND DELINEATION (3)
Session Chair: Charles Rhodes

1:00-1:20 J. E. MEYER, J.E. Perry, and J.A. ANDERSON
Accuracy Assessment of a Bottomland Hardwood Forest Boundary Based On Remotely Sensed Imagery

1:20-1:40 RICHARD W. CANTRELL, John D. Tobe, Maynard E. Sweeley, James R. Cooper, Garland, and Ashley O’Neal
An Overview of the Florida Wetland Delineation Methodology

1:40-2:00 STEVEN M. MARTIN
A Procedure for Evaluating the Wetland Indicator Categories of Plants
2:00-2:20 Mitchel R. Strain and Richard W. Kafka
Problems in Applying Hydric Soil Criteria to Jurisdictional Wetlands

2:20-2:40 OPEN

Session 5D. Special Symposium: SCIENTIFIC AND APPLIED WETLAND ISSUES: FORMING LINKS ACROSS POLITICAL BOUNDARIES
Session Chair: William Streever

1:00-1:40 TOM W. HILDITCH
Observations Regarding the International Wetland Consulting Industry

1:40-2:20 CRAIG COPELAND
More Bang for Your Buck: Partnerships Helping Rehabilitate Wetlands

Session 5E. RIPARIAN ECOSYSTEMS
Session Chair: Mike L. Scott

1:00-1:20 M.L. SCOTT, G.T. Auble, and J.A. Frazier
Effects of Flow, Ice, and Livestock Grazing On Recruitment and Survival of Cottonwood Along the Missouri River, Montana, USA

1:20-1:40 MATTHEW D. SPRENGER, Loren M. Smith, and John P. Taylor
Restoration of Saltcedar Infested Floodplains In the Middle Rio Grande Valley

1:40-2:00 KARL FASER and Mark M. Brinson
Change In Tree Species Composition of a Headwater Catchment In the Coastal Plain of North Carolina

2:00-2:20 S. REZA PEZESHKI, Steven D. Schaff, and F. Douglas Shields
Willow Post Growth and Survival Following Streambank Restoration In Mississippi

2:20-2:40 DOUGLAS J. SPIELES and William J. Mitsch
The Effects of Season and Hydrologic and Chemical Loading On Nitrate Retention In Constructed Wetlands: A Comparison of Low and High Nutrient Riverine Systems

Session 5F. ECOLOGY OF COASTAL WETLANDS
Session Chair: Frank P. Day

1:00-1:20 CHERYL D. VANN and J. Patrick Megonigal
Potential Oxygen Limitation of Wetland Plant Responses to Elevated CO₂

1:20-1:40 H.D.PATTI and J.M.Stucky
Effects of an Altered Hydrologic Regime On the Water Table, Soil Redox Potential, and Plant Community In a Coastal Plain Bottomland Hardwood Forest

1:40-2:00 THOMAS M. YANOSKY, Nancy S. Simon, Cliff R. Hupp, Michael R. Schening, and Amanda J. Herbst
Concentrations of Phosphorus In Riparian Trees and Sediments, Pocomoke River Basin, Maryland USA
2:00-2:20 JOAN G. EHRENFELD, Heather Bowman, Robert Hamilton, and Tara Bowers
Vegetation and Environment In Forest Wetlands of Urban New Jersey

2:20-2:40 EDWARD R. CRAWFORD, and Frank P. Day
Decomposition Dynamics Within Atlantic White Cedar (Chamaecyparis thyoides) Wetlands Located In the Mid-Atlantic Outer Coastal Plain.

Session 5G. Special Symposium: RESTORATION OF A TIDAL SALTMARSH: A CASE STUDY OF DELAWARE (Section 3)
Session Chairs: Lee Weisher and John Teal

1:00-1:30 LEE WEISHAR, John Teal, and Ray Hinkle
An Evaluation of Stream Order Analysis In Marsh Restoration Projects

1:30-2:00 KENNETH W. ABLE and David M. Nemerson
Marsh Restoration In Delaware Bay: Faunal Response At Former Salt Hay Farms

2:00-2:30 KURT R. PHILIPP
History of Delaware and New Jersey Phragmites Restoration Sites

2:45 PM-3:15 PM
Break

3:15-5:00 PM
Session 6A. PLANT COMMUNITIES: SUCCESSIONAL PROCESSES
Session Chair: Patrick Megonigal

3:15-3:35 Patrick Megonigal, JEFF CORNELL, and Chris Craft
Carbon Cycle Succession In Created Salt Marshes

3:35-3:55 WAYNE H. HUDNALL and L. Cecil Dharmasri
An Evaluation of the Active Electromagnetic Induction Profiler (AEM) to Separate Organic Materials From Inorganic Sediments, Barateria Bay, Louisiana

3:55-4:15 JOHN D. WIGGINTON, B. Graeme Lockaby, and Carl C. Trettin
Soil Organic Matter Formation and Sequestration Across a Forested Floodplain Chronosequence

4:15-4:35 GARY N. ERVIN and Robert G. Wetzel
Inter- and Intraspecific Allelochemical Effects of Juncus effusus Along a Continuum of Plant Growth Stages

Dissolved Organic Carbon and Fine Particulate Organic Carbon Dynamics In a Tropical Highland Stream-Wetland System

Session 6B. GROUNDWATER HYDROLOGY
Session Chair: Mike Focazio

3:15-3:35 MARK CABLE RAINS
Surface and Ground Water Interactions Between a Stream, a Reservoir, and a Shallow Alluvial Aquifer: Implications for Management
3:35-3:55 KURT E. STANLEY, Peter G. Thomas, Michael Lighthisder, and Thomas M. Burton
The Hydrology of Saginaw Bay (Lake Huron) Shores and Islands

3:55-4:15 MICHAEL S. LIGHTHISER and Phillip J. Sanders
A Water Balance Model for Predicting the Breach Time of a Mouth Coastal Lagoon

4:15-4:35 JUDY Z. DREXLER, Robert D. Hauff, and Kenneth C. Ewel
Hydrological Linkages Within a Wetland Complex On the Island of Kosrae, Federated States of Micronesia

4:35-4:55 PIERRE GIRARD
The Relationship Between Surface and Ground Water In the Brazilian Pantanal

Session 6C: OPEN

Session 6D. Special Symposium: SCIENTIFIC AND APPLIED WETLAND ISSUES: FORMING LINKS ACROSS POLITICAL BOUNDARIES
Session Chair: William Streever

3:15-3:55 IAN DAVIDSON
Tropical Wetland Conservation In the Americas: A Case for Networking

3:55-4:35 EDUARDO M. DA SILVA
Brazilian Wetlands and International Co-operation

Session 6E. RIPARIAN ECOSYSTEMS (cont.)
Session Chair: Mike L. Scott

3:15-3:35 GREGOR T. AUBLE, Michael L. Scott, Patrick B. Shafroth, and Gregory C. Lines
Cottonwood Mortality Resulting From Alluvial Water-Table Decline

3:35-3:55 DUNCAN T. PATTEN and Juliet C. Stromberg
Riparian Restoration Decisions: Lessons From Two Dewatered Eastern Sierra Nevada Streams

Session 6F. ECOLOGY OF BOTTOMLAND HARDWOOD ECOSYSTEMS
Session Chair: TBA

3:15-3:35 H. LEROY RODGERS and Frank P. Day
Fine Root Dynamics In Naturally-Recovering and Restored Atlantic White Cedar (Chamaecyparis thyoides) Wetlands

3:35-3:55 JOHN M. RAPP, Theodore H. Shear, and Daniel J. Robison
Soil, Groundwater, and Floristics of a Southeastern United States Blackwater Swamp Eight Years After Helicopter and Skidder Harvesting

3:55-4:15 BETH A. MIDDLETON and Karen L. McKee
Primary Production and Impoundment In Cypress Swamps Along a Latitudinal Gradient
4:15-4:35 KENNETH W. MCLEOD, William H. Conner, and James K. McCarron
Comparative Ecophysiological Responses to Flooding and Salinity of Ten Woody Species

4:35-4:55 SAMMY L. KING and Bobby D. Keeland
A Survey and Evaluation of Reforestation of the Lower Mississippi River Alluvial Valley

Session 6G. Special Symposium: RESTORATION OF A TIDAL SALTMARSH:
A CASE STUDY OF DELAWARE (Section 1)
Session Chairs: Lee Weisher and John Teal

3:15-3:55 A. INGRID RATSEP and Joel Greshock
Documenting and Analyzing the Invasion of Phragmites australis In the Tidal Marshes of the Delaware Estuary Using Geographic Information Systems (GIS) Software

3:55-4:35 MICHAEL P. WEINSTEIN, Sam C. Wainright, Steven Y. Litvin, Carolyn A. Currin, and Ken W. Able
Nutrient Flow From Tidal Salt Marsh Flora to Marine Transient Finfishes In Delaware Bay: A Multiple Stable Isotope Approach

7:30 PM-11:00 PM
Dinner Cruise-Spirit of Norfolk (no host)

--- Wednesday, June 9 ---

7:45 AM – 5:00 PM
Field Trips

08:00 AM – 12:00 PM
Training Session – Hampton Roads Ballroom – Level 3
Section III
1999 Business Advantage Series “How to Start and Stay in Business”
Attendance fee required

7:00 PM SWS
Professional Certification Board Meeting (Dinner)
Elizabeth Boardroom Level 4
— Thursday, June 10 —

8:00 AM-5:00 PM
Registration

8:00 AM-9:45 AM

Session 7A. Special Symposium: THE STATE OF BAY SCIENCE: ADVANCES AND CHALLENGES FOR AQUATIC AND WETLAND RESOURCES OF THE CHESAPEAKE BAY (Section 1)
Session Chair: Janet Keough

KENT MOUNTFORD
Buildout On Our Landscape: The Past As Prologue

RICHARD BATIUK
The State of the Chesapeake Bay Viewed From the Fish and Plant Perspective

CLIFF R. HUPP and Michael R. Schening
Fluvial Sediment and Associated Contaminant Trapping Along Coastal Plain Forested Wetlands of the Chesapeake Bay

Session 7B. SEDIMENTATION AND WATER QUALITY
Session Chair: TBA

8:00-8:20 JILL E. ROOTH and J. Court Stevenson
Sediment Deposition Patterns In Phragmites australis Communities: Implications for Coastal Areas Threatened By Rising Sea-Level

8:20-8:40 CATHERINE L. BREITHOFF
Uptake of Cadmium and Lead By Freshwater Wetland Plants and Biofilms

8:40-9:00 JAE GEUN KIM
Physico-Chemical Characteristics of Inlet and Outlet Marsh Sediments, Clear Lake, California, USA: An Implication for the Role of the Lake In Nutrient Dynamics

9:00-9:20 DAVID J. COOPER and Christopher D. Arp
What Is the Sediment Retention Function of Western Wetlands? Defining the Sediment Retention Function

9:20-9:40 ERNEST CLARKE and Andrew H. Baldwin
Responses of Constructed Wetland Plant Species to Ammonia Concentration and Water Level

Session 7C. PLANT COMMUNITY: IMPACTS OF HYDROLOGIC MODIFICATIONS
Session Chair: Johan Gottgens

8:00-8:20 OPEN

8:20-8:40 M. W. CLARK, K. R. Reddy, and K. Warr
Effect of Floating Substrates On Vegetation of Orange Lake, Warm-Temperate Florida, USA
20th Annual Meeting, Norfolk, Virginia

8:40-9:00 KARRO A FROST and Michael J. Marcus
Long-Term Vegetative Sampling to Detect Changes As a Result of Groundwater Drawdown From New Municipal Well

9:00-9:20 ROBERT G. DOHERTY
The Effects of Water Level Fluctuations From Hydroelectric Generation On Wetland Development In a Flood Control Reservoir

9:20-9:40 RICHARD E. GROSSHANS and Norm C. Kenkel
Dynamics of Emergent Macrophyte Vegetation In the Delta Marsh Merp Complex, Manitoba, Canada: Long-Term Response of Vegetation to Water Level Stabilization

Session 7D. MITIGATION BANKING
Session Chair: TBA

8:00-8:20 RICHARD E. TURNBULL and Kenneth A. John
Mitigation Banking Through the Side Door, North-East and East-Central Florida

8:20-8:40 ARTHUR L. SPINGARN
High Ratio Preservation As a Wetland Mitigation Tool

8:40-9:00 RICHARD K. MOGENSEN
Private Entrepreneurial Wetland Mitigation Banking - Potential Pitfalls and Recommended Solutions

9:00-9:20 KEVIN K. MOORHEAD, Irene R. Rossell, James W. Petranka, and C. Reed Rossell, Jr.
Tulula Wetlands Mitigation Bank, North Carolina

Session 7E: OPEN

Session 7F. ECOLOGY OF RESTORED ECOSYSTEMS: VEGETATION COMMUNITIES
Session Chair: Dennis Whigham

8:00-8:20 KATHARINA A. M. ENGELHARDT, and John A. Kadlec
Effects of Biodiversity and Species Assemblages On Freshwater Wetland Productivity After a Disturbance

8:20-8:40 WILLIAM J. MITSCH, Virginie Bouchard, and Naiming Wang
Long-Term Effects of Planting On Ecosystem Functioning of Created Wetlands

8:40-9:00 VIRGINIE BOUCHARD, William J. Mitsch, and Naiming Wang
Plant Community Establishment After Five Years In the Experimental Basins At the Olentangy River Wetland Research Park

9:00-9:20 DENNIS WHIGHAM, Mary Pittek, Kirsten Hauser, Thomas Jordan, and Antoinette Pepin
Biomass and Nutrients Dynamics In Restored Depressional Wetlands On Maryland’s Eastern Shore

9:20-9:40 ANTOINETTE L. PEPIP and Dennis F. Whigham
The Relative Importance of Hydrology and Substrate In the Vegetation Dynamics of Restored Freshwater Wetlands
Session 7G. Special Symposium: DEVELOPMENT OF REFERENCE BOTTOMLAND HARDWOOD ECOSYSTEMS: THE SOUTHERN FORESTED WETLAND INITIATIVE (Section 1)
Session Chair: Marianne Burke

8:00-8:20 JOHN A. STANTURF
Development of Reference Wetlands: The Southern Forested Wetland Initiative

8:20-8:40 Calvin E. Meier, JOHN A. STANTURF, Emile S. Gardiner
Paul B. Hamel, Melvin L. Warren, and Kristina F. Conner
A Quantitative Assessment of the Structure and Functions of a Mature Minor Bottom Riverine Forest Community: The Iatt Creek Ecosystem Site

8:40-9:00 MARIANNE K. BURKE and Sammy L. King
Ordination and Classification of Forest Communities On the Coosawhatchie Bottomland Ecosystem Study Site

9:00-9:20 SAMMY L. KING and Terry Antrobus
Gap Phase Dynamics in a Bottomland Hardwood Forest in Northeast Arkansas

9:45 AM-10:15 AM
Break

10:15 AM-12:00 PM
Session 8A. Special Symposium: THE STATE OF BAY SCIENCE: ADVANCES AND CHALLENGES FOR AQUATIC AND WETLAND RESOURCES OF THE CHESAPEAKE BAY (Section 2)
Session Chair: Janet Keough

Recent Trends In Plankton of the Chesapeake Bay and Its Tributaries

10:45-11:15 NANCY B. RYBICKI and Virginia Carter
Submersed Aquatic Vegetation (SAV) In the Chesapeake Bay: Present Understandings and Future Needs

11:15-11:45 KAREN MAYNE
Natural Resource Management: How Managers Use Science (Or Not) In the Real World

Session 8B. INTRODUCTION TO WETLAND ASSESSMENT METHODS
Session Chair: Buddy Clairain

10:15-10:35 CANDY C. BARTOLDUS
Comparison of Wetland Assessment Procedures Used In the United States

EXHGM: Expert Hydrogeomorphic (HGM) Approach Software

10:55-11:15 THOMAS HRUBY
Reproducibility Among Different Users In Assessments of Wetland Functions

11:15-11:35 MICHAEL F. PASSMORE, Kelly A. Burks, Antisa C. Webb, R. Daniel Smith, and James S. Wakeley
Linking Cost Effective Analysis to the Hydrogeomorphic (HGM) Approach
Session 8C. ECOLOGY AND COMPOSITION OF VEGETATED AND NON-VEGETATED FLATS
Session Chair: Martha Rheinhardt

10:15-10:35 MARTHA CRAIG RHEINHARDT and Richard D. Rheinhardt
Canopy and Woody Subcanopy Composition of Wet Hardwood Flats In Eastern North Carolina and Southeastern Virginia

10:35-10:55 DANIEL O. REDGATE and Carl H. Hershner
Winter/Spring Steady-State Water Balances for a Palustrine Forested Wetland Located In Southeastern Virginia

10:55-11:15 R.D. RHEINHARDT, M.C. Rheinhardt, and M.M. Brinson
Classification, Distribution, and Ecology of Mineral Soil Wet Pine Flats

Characterization of Vegetation In a Oligohaline Herbaceous Wetland In Sucre State, Venezuela

Session 8D. MITIGATION BANKING (cont.)
Session Chair: Diane Eckles

10:15-10:35 OPEN

10:35-10:55 DENNIS HAAG, Mark Felton, Carol Kuhn, Mark Kelly
Johnson County Wetlands Mitigation Bank, L.L.C. A Kansas Limited Liability Company Johnson County, Kansas

10:55-11:15 JOHN MAGISTRO and J. Christopher Hamilton
The Farmed Wetland Dilemma - An Innovative Approach to Wetland Mitigation for Agricultural Activities In the Bootheel Region of Missouri

11:15-11:35 SANDRA C. DOYLE-AHERN
Evaluating the Development of a Mitigation Bank Site Using a Rapid Assessment Method

Session 8E. APPLIED RESTORATION ECOLOGY
Session Chair: TBA

10:15-10:35 James Paulus and MARK SUDOL
Development and Application of an HGM Assessment Method for Spring and Seep Wetlands On Owens Dry Lakebed

10:35-10:55 MARK A. RAY and James Amon
Turning Back the Clock In Glaciated Ohio: Construction and Early Monitoring of a Fen Restoration

10:55-11:15 CURTIS J. RICHARDSON, Panchabi Vaithiyanathan, and Edwin A. Romanowicz
Everglades Restoration: Hydrologic, Nutrient, and Fire Interactions

11:15-11:35 SUSAN B. PETERSON, Brian Reid, and John Teal
The Jones River Watershed Restoration Management Scheme
11:35-11:55 GLENN G. PAGE
Building Community-Based Restoration of a Forested Wetland Ecosystem in Baltimore

Session 8F. ECOLOGY OF RESTORED ECOSYSTEMS: RESTORATION COMMUNITIES (cont.)
Session Chair: William Mitsch

10:15-10:35 CAROLE S. SIEGLEY
The Importance of Seed Bank Contributions to Wetland Restoration Efforts

10:35-10:55 JERE BOUDELL and Juliet Stromberg
Role of the Seed Bank In Maintaining Biodiversity In Southwestern Riparian Ecosystems

10:55-11:15 ROBERT T. BELCHER, Robert B. Atkinson, and Gary J. Whiting
Structural and Photosynthetic Response of Chamaecyparis thyoides Across a Range of Shade Intensities

11:15-11:35 JEFFREY W. DEBERRY, Robert T. Belcher, D. A. Brown, Darren Loomis, Kristen Shacochis, and Robert B. Atkinson
Assessment of Hydrophytic Vegetation of Four Chamaecyparis thyoides Wetland Restoration Efforts

11:35-11:55 KRISTEN SHACOCHIS, Robert T. Belcher, Jeffrey DeBerry, Darren Loomis, and Robert B. Atkinson
Tree Density of Intermediate and Mature Atlantic White Cedar Wetlands of North Carolina

Session 8G. Special Symposium: DEVELOPMENT OF REFERENCE BOTTOMLAND HARDWOOD ECOSYSTEMS: THE SOUTHERN FORESTED WETLAND INITIATIVE (Section 2)
Session Chair: Marianne Burke

10:15-10:35 MARIANNE K. BURKE, Hal O. Liechty, and Mark H. Eisenbies
Above- and Below-Ground Primary Production On the Coosawhatchie Bottomland Ecosystem Study Site

10:35-10:55 HAL O. LIECHTY and Marianne K. Burke
Influence of Hydrologic and Edaphic Factors On Leaf Area and Growth Efficiency In Four Bottomland Hardwood Communities In South Carolina

10:55-11:15 DONNA B. SCHEUNGRAB, Russ Lea, and Carl C. Trettin
Woody Debris On the Coosawhatchie Bottomland Ecosystem Study Site

11:15-11:35 Terrell T. Baker, B. Graeme Lockaby, and WILLIAM H. CONNER
Litter Decomposition In Four Forested Floodplain Communities In the Southern United States
Thursday — 20th Annual Meeting, Norfolk, Virginia

12:00 PM-1:30 PM
Lunch
Chapter Lunch on your own

1:30 PM-3:15 PM
Session 9A. Special Symposium: THE STATE OF BAY SCIENCE: ADVANCES AND CHALLENGES FOR AQUATIC AND WETLAND RESOURCES OF THE CHESAPEAKE BAY (Section 3)
Session Chair: Janet Keough

1:30-2:00 ROGER MANN
Restoring Oyster Reef Communities In Chesapeake Bay: Ecological Versus Economic Needs

2:00-2:30 JOHN R. MCCONAUGHA
The Blue Crab: Past Knowledge and Future Insights

2:30-3:00 HERBERT M. AUSTIN
Potential Interactions Between Chesapeake Bay Stocks Status, Trends, and Climate

Session 9B. HYDROGEO MORPHIC METHOD: REGIONAL ASSESSMENTS
Session Chair: Rick Rheinhardt

1:30-1:50 ANDREW MCMILLAN
HGM-Based Methods for Assessing Functions of Riverine and Depressional Wetlands In Washington State - Final Results and Lessons Learned

1:50-2:10 CHARLES ANDREW COLE and Robert P. Brooks
A Regional Assessment of Wetland Hydrology Using HGM

2:10-2:30 R. D. RHEINHARDT, M.C. Rheinhardt, and M.M. Brinson
Regional HGM Guidebook for Wet Pine Flats On Mineral Soils In the Atlantic and Gulf Coastal Plains

2:30-2:50 F. RICHARD HAUER, Bradley J. Cook, Michael J. Gilbert, Ellis J. Clairain, and R. Daniel Smith
HGM Functional Assessment of Alluvial Floodplain Wetlands In the Northern Rocky Mountains: A Multivariate and Multimetric Analysis

2:50-3:10 James Paulus and MARK SUDOL
Development and Application of an HGM Assessment Method for Spring and Seep Wetlands On Owens Dry Lakebed

Session 9C. ECOLOGY AND COMPOSITION OF VEGETATED AND NON-VEGETATED FLATS (Cont.)
Session Chair: Martha Rheinhardt

1:30-2:00 PETER MAY and Patrick Kangas
Experimentally Induced Predation / Disturbance Influences On Emergent Macrophytes In Kenilworth Marsh Washington, DC

2:00-2:30 R.D. RHEINHARDT, M.C. Rheinhardt, and M.M. Brinson
Classification, Distribution, and Ecology of Mineral Soil Wet Pine Flats

2:30-3:00 E. GORDON, C. Peia, C. Rodriguez, J. Rodriguez, L. Delgado
Characterization of Vegetation In a Oligohaline Herbaceous Wetland In Sucre State, Venezuela
Session 9D. ECOLOGY OF RESTORED ECOSYSTEMS: SEDIMENTATION AND SOIL PROCESSES  
Session Chair: Donald Cahoon

1:30-1:50 DONALD R. CAHOON, Paul Marin, Brian Black, and James C. Lynch  
Restoring Tidal Marsh Elevations Through Uncontrolled Sediment Diversions In the Balize Delta of the Mississippi River

1:50-2:10 P. MICHAEL WHITED, N. Euliss, L. Foss, R. Gleason, and A. Oliness  
Soil Properties for Assessing Wetland Restoration Success In the Prairie Pothole Region

2:10-2:30 JULIE FONTAINE and Theodore Shear  
Characterization of Soil Development In a Created Small Stream Swamp In Eastern North Carolina

2:30-2:50 LEWIS O. MORGAN, P.E., A. Mahendra Rodrigo, P.E., and Jennifer A. Howe  
Two-Dimensional Hydraulic Modeling for the Restoration of a Tidal Marsh System

2:50-3:10 CHARLES ANDREW COLE, Christopher A. Urban, Robert P. Brooks and David Hoyt  
Wetland Soil Development In Created Wetlands At Fort Drum, NY

Session 9E. LANDSCAPE ASSESSMENT  
Session Chair: Mary Kentula

1:30-1:50 S. DIANE ECKLES  
A Spatial-Temporal Analysis of Wetlands, Chickahominy River Watershed, VA

1:50-2:10 JAMES B. STANFILL  
Mapping and Evaluating Wetlands In Coastal North Carolina Using GIS and NC-CREWS

2:10-2:30 JENNIFER K. PEROT, Denice H. Wardrop, Karen McLaughlin, and Robert P. Brooks  
Protocol for Wetland Area Inventory In the Ridge and Valley Province In Central Pennsylvania

2:30-2:50 CHRISTINE KEENAN, Jorge Lagos, Heather Songer, and Lisa Moll  
The Use of GIS to Combine Regulatory Requirements With Ecosystem Restoration and Management Goals On Phosphate Mined Lands

2:50-3:10 MARY E. KENTULA and Stephanie E. Gwin  
Wetland Condition and Loss In the Rapidly Urbanizing Area of Portland, Oregon

Session 9F: OPEN

Session 9G. Special Symposium: DEVELOPMENT OF REFERENCE BOTTOMLAND HARDWOOD ECOSYSTEMS: THE SOUTHERN FORESTED WETLAND INITIATIVE (Section 3)  
Session Chair: Marianne Burke

1:30-1:50 CLIFF R. HUPP, Michael R. Schening, and Richard Day  
Sediment Trapping Along Black- and Brown-Water Riverine Forested Wetlands, Coosawhatchie River, South Carolina and Cache River, Arkansas
THOMAS A. ABRAHAMSEN and Terry L. Maluk
Aquatic Community Ecology, Water Quality, and the Distribution of Trace Elements and Organic Compounds In a River Reach On the Coosawhatchie Bottomlands Ecosystem Study Site (1996-98)

J. S. WAKELEY, M. P. Guilfoyle, T. J. Spengler, W. C. Barrow, Jr., P. B. Hamel, and C. Woodson
Habitat Relationships Of Breeding Birds In Three Southeastern Bottomland Hardwood Forests

MARIANNE BURKE
Closing Remarks: Phase II of the Southern Forested Wetlands Initiative

Break

Session 10A. Special Symposium: THE STATE OF BAY SCIENCE: ADVANCES AND CHALLENGES FOR AQUATIC AND WETLAND RESOURCES OF THE CHESAPEAKE BAY (Section 4)
Session Chair: Janet Keough

CAROLYN V. WATSON
Tips for Turning Technical Science Into Bay Policy

CARL HERSHNER
Status and Trends of Wetland Research and Management In the Chesapeake Bay Region

G. MICHAEL HARAMIS, R. Michael Erwin, and David F. Brinker
Waterbirds In a Changing Environment: The Chesapeake Bay

Session 10B. DEVELOPING HYDROGEO MORPHIC MODELS: CASE STUDIES
Session Chair: Candy Bartoldus

ERIC D. STEIN, Ruben S. Ramirez, and Ken J. Halama
Customized Reference Sets: Application of the HGM Framework to Site-Specific Functional Evaluation

MARIAN ELISABETH NORRIS and Jean Marie Hartman
Developing an HGM Model In Urban/Suburban New Jersey

OPEN

MARSH ZELLHOEFER, Sarah L. Emery, and William J. Jeffords, Jr.
Alternative Wetland Functional Assessment Methodology

Session 10C: OPEN
Session 10D. ECOLOGY OF RESTORED WETLANDS: INVASIVE SPECIES CONTROL
Session Chair: Robert Ingram

3:45-4:05 OPEN

4:05-4:25 ROBERT J. INGRAM and Kurt N. Olson
Wetland Creation, Enhancement and Restoration In Two Degraded Phragmites Infested Sites In Eastern Massachusetts.

4:25-4:45 JAMES P. AMON and Kimberly A. Mason
Restored Wetland Provides Significant Recharge to Local Aquifer

4:45-5:05 THOMAS G. PARKER
Restoring Diversity Along a Phalaris-Dominated Bull Trout Migratory Corridor In Western Montana

Session 10E. RESTORATION ECOLOGY: CASE STUDIES
Session Chair: TBA

3:45-4:05 L.S.FERNBERG, S.E.Thompson, and A.M.Russo
Ponds, Plants, and Riffles: A Natural Alternative to Leachate Treatment At Fort Drum

4:05-4:25 MARC SEELINGER, Adam Jack, and W. Richard DeMario
Urban Lake Revitalization

4:25-4:45 TED DEVENS
An Overview of Wetland Construction Methods Employed By a Major Wetland Mitigation Program In North Carolina

4:45-5:05 JOAN S. THULLEN, James J. Sartoris, and William E. Walton
Vegetation Management Investigations In a Southwestern US Constructed Wetland.

5:30 PM- 7:00 PM
Poster Session Reception (no host)

7:00 PM
Silent Auction Ends

7:00 PM- 9:00PM
SWS Annual Banquet and Awards
Mike Davis, ASA Army Civil Works
— Friday, June 11 —

8:00 AM-9:45 AM

Session 11A: DISCUSSION PANEL: THE TULLOCK RULE AND ITS IMPACT ON MID-ATLANTIC WETLANDS
Session Chair: Jim Martin

Session 11B. ECOLOGICAL PROCESSES AND CLASSIFICATION IN WETLAND AND OPEN WATER HABITATS
Session Chair: M. Zaki Moustafa

8:00-8:20 M. ZAKI MOUSTAFA
The Effect of Sampling Frequency On Nutrient Loads and Concentrations In a Subtropical Wetland

8:20-8:40 KIRK A. LAKEY
Vegetation Zones and the Classification Of Mediterranean Wetlands On the Greek Island of Crete

8:40-9:00 SARAH SPEAR COOKE and Richard Pratt
Characterization of Size and Growth Rates For Some Common Pacific Northwest Wetland Tree Species

9:00-9:20 CHARLES L. WOLVERTON
Methods For Creation of Wetlands on Abandoned Iron Mine Tailings Basins

9:20-9:40 PAUL V. ZIMBA, Tom Hargis, Suzi Brashear, Larry Boihem1, Chris Swarzenski, Chris Dionigi, and Richard Johnson
Acute Phytotoxicity of the Herbicide Atrazine On Panicum hemitomen: Greenhouse Experiments

Session 11C: WORKSHOP
Session Chair: William Magladetsh

Session 11D. RESTORATION ECOLOGY: CASE STUDIES
Session Chair: TBA

8:00-8:20 MATTHEW C. PERRY, Peter C. Osenton, Gregory A. Gough, and Holliday H. Obrecht
Creation of a Green-Tree Reservoir for Mitigation of Forested Wetland Losses In Maryland

8:20-8:40 L. E. SHAW, J. L. Cassin, and L. C. Lee
Using HGM to Monitor Wetland Restorations: Lessons From Two Forested Wetland Restoration Projects

8:40-9:00 DOUGLAS M. TITUS, Garrett G. Hollands, and James M. McManus
A Modified HGM Approach for Creating Forested Wetlands On Glacial Till and Bedrock Slopes.

9:00-9:20 REBECCA DORSEY
Using HEP to Assess Habitat Value of Wetlands and Uplands for a Proposed Reservoir Project
9:20-9:40  THOMAS SANKEY
Development of Mitigation Plans For Unique Habitats: Virginia’s Grafton Ponds

Session 11E: APPLIED RESTORATION ECOLOGY
Session Chair: Charles Andrew Cole

8:00-8:20  CHARLES ANDREW COLE
A Comparison Of Bay Swamp Reclamation Techniques In Central Title: A Proposed Model Of Ecosystem Development For Created Wetlands

8:20-8:40  DOUGLAS A. WILCOX and Kurt P. Kowalski
Overcoming Problems In Data Collection for Wetland Restoration Projects Involving Multiple Participants

8:40-9:00  FREDERIC F. GAINES III, Mike C. Cotter, Denver A. Phares, Carlos J. Frey, and Ann M. Reed
A Comparison Of Bay Swamp Reclamation Techniques In Central Florida Phosphate Mines

9:00-9:20  JOSEPH P. PRENGER, Peter Krottje, Thomas L. Crisman, and Duncan J. Cairns
Biological Monitoring and Assessment of Hydrologic Restoration of Tates Hell Swamp, Florida

9:20-9:40  ALEXANDRA SYPHARD and DANIEL REDGATE
Increasing the Effectiveness of the Wetland Mitigation Process: An Incorporation of GIS Into Site Identification and Design, Monitoring, and Regulatory Tracking

Session 11E. OPEN
Session Chair: TBA

9:45 AM-10:15 AM  Break
10:15 AM- 12:00 PM  Plenary Session - Hampton Roads Ballroom – Level 3
Rooms A and B
Wolfgang J. Junk
“The Importance of Neotropical Floodplains for International Wetland Research”

W. Lee Daniels
“Non-Tidal Wetland Mitigation in Virginia: How Effectively Are We Recreating Soil Functions and Wetness Regimes”

12:00 PM  Poster and Exhibitor Sessions End
12:00 PM - 1:00 PM  Lunch
1:00 PM-2:45 PM  SWS Business Meeting - Hampton Roads Ballroom – Level 3
2:45 PM-3:00 PM  Closing Remarks
3:00 PM  Adjournment
4:00 PM  New Board Meeting - Coral Sea Boardroom Level 2