

**Society of Wetland Scientists
23rd Annual Meeting, June 2-7, 2002
Lake Placid, New York**

LIST OF POSTER PRESENTATIONS

Posters will be displayed throughout the conference

Formal Poster Session/Reception will be
Monday evening, June 3, 5:00-7:00PM

- PARSHURAM ACHARYA and J.P. Sah. **Wetland Vegetation and their Traditional Uses in Ghodaghodi Lake System of Far Western Nepal**
- SUZANNA BRAUER, Stephen H. Zinder, Joseph B. Yavitt, Janice E. Thies and Esther R. Angert. **Characterization of Microbial Community Structure in Northern Peatlands in Tompkins County, New York**
- AMANDA BURDT. **Variation of Hydric Soil Temperature and the Growing Seasons of Dominant Communities under Different Land Treatments**
- MARIANNE K. BURKE and Charles A. Harrison. **Test of the Relative Importance of Canopy and Root System Gaps on Laurel Oak (*Quercus laurifolia*) Advance Regeneration**
- CHRISTINA S. BUSH, Megan K.G. La Peyre and John A. Nyman. **Can Fish Habitat be Restored Using Terraces and Coconut Mats in Louisiana Marshes?**
- SPRING CARTY, Lauchlan Fraser and David Steer. **An Experimental Study of the Effectiveness of Four Wetland Plant Species for Wastewater Treatment.**
- CARMEN CHAPIN and Benjamin Wolfe. **Response of Soil Alkaline Phosphatase Activity to Phosphorus Addition in Two Calcareous Fens**
- MARK CLARK, Ramesh Reddy, Patrick Inglett and Ron Corstanje. **Biogeochemical Characterization of the Nations Wetlands**
- EMILY THERESE CLOYD, John M. Farrell and Donald J. Leopold. **Predicting the Effects of Changes in Wetland Vegetation and Water Level Fluctuations on Northern Pike Spawning and Growth**
- NINA COLEMAN, Joanna Grand and Robin Harrington. **A Discriminant Analysis of the Relationship between *Phragmites australis* Invasion of Interdunal Swales and Landscape Level Variables**
- ANGELA M. CONKLIN and Robert P. Brooks. **Development of an Invertebrate Community Index (ICI) for Isolated Depressions in the Ridge and Valley Physiographic Province of Central Pennsylvania**
- DARRIN DANTIN, Ronald Boustany, Jeanne Scott, Michael Lewis and James Moore. **The Use of Fluorescence as an Indicator of Phytotoxicity to *Vallisneria americana* Exposed to Copper and Atrazine under Controlled High and Low Nutrient Conditions**
- RICHARD DAY and Thomas Doyle. **Effects of Hydrology, Substrate, and Nutrients on Growth of Baldcypress (*Taxodium distichum* (L.) L.C.Rich.) and Black Willow (*Salix nigra* Marsh.)**

- RONALD DELAUNE, William H. Patrick, Jr., Gary W. Peterson and Aroon Jugsujinda. **Impact of Mississippi River Freshwater Diversion on Marsh Stability**
- FANNY DELISLE, Claude Lavoie and Martin Jean. **Reconstructing the Spread of 14 Exotic or Invasive Plant Species along the St. Lawrence River (Québec)**
- Steve Duncan, VALANNE GLOOSCHENKO and Russell Dick. **Conserving Alaska's Wetlands – A Proposed Mitigation Bank Partnership between Sealaska Corporation and the U. S. Army Corps of Engineers, Alaska District**
- KEITH EDWARDS and C. Edward Proffitt. **Functional Equivalency of Dredge-Filled Created to Natural Salt Marshes in Southwest Louisiana**
- ANTHONY ESPOSITO. **Delineating Wetland Boundaries in Areas With Problem Soils**
- TODD FOLSE, John Rapp and Darin Lee. **A Technique to Measure Marsh Elevation in a Floating Marsh**
- MICHEL GENDRON, Jamie Fortune, Ron Maher and Bob Clay. **Coastal Habitat Securement Initiative for Ducks Unlimited Ontario.**
- JANICE M. GILBERT, Serita D. Frey and Virginie Bouchard. **Linkages Between Macrophyte Functional Diversity and Trace Gas Fluxes**
- KEVIN GODWIN, Donald Leopold and Matthew Buff. **A GIS-based Landscape Approach to Predicting and Evaluating Vulnerable Wetland Ecosystems: A Hydrogeologic Setting (HGS) Model for Fens**
- DORIEDSON FERREIRA GOMES, Arno Brichta, Luciano Fernando Fernandes and Eduardo Mendes da Silva. **Paleoproductivity of the Iguape Bay at the Lower Paraguaçu River (Bahia, Brazil)**
- SHIRLEAN GOODWIN, Shuwen Li and S. Reza Pezeshki. **Evaluation of Flood and Drought effect on Ribulose-1,5-bisphosphate Expression in Leaves of Cattail (*Typha latifolia*)**
- NOEL GURWICK, Peter Groffman, Gary Blazejewski and Mark Stolt. **Carbon Availability in Riparian Zones: The Role of Buried Soils**
- DICK HAMMERSCHLAG. **Goose Browse Impacts on Urban Reconstructed Freshwater Tidal Wetlands in Washington, D.C.**
- TIMOTHY F. HOFFMAN, David T. Osgood, R. Laurence Davis, James Saiers and Richard A. Orson. **Effect of Peat Structure on Creekbank Porewater Discharge in a Reference and a Tidally Restored Salt Marsh**
- MEGAN JACOBY, Carlos Coronado-Molina, Michael Korvela and Fred Sklar. **The Relationship Between Litterfall Production and Hydrology on Tree Islands in the Central Everglades**
- TERRI M. JICHA, Colleen M. Elonen, Leroy E. Anderson, Naomi E. Detenbeck and Sharon L. Batterman. **Microbial Activity: An indicator of Watershed Impacts on Riverine Coastal Wetlands of Lake Michigan**
- SUNEETI JOG. **Vascular Plant Flora of Highland Heights Community Park: A Floristic Survey and Trend Analysis of a Suburban Wetland**
- SARAI KANOUSE and Megan La Peyre. **Linking Fish and Habitats: A Study of Nekton Use of Three Brackish Marsh Pond Microhabitats at Marsh Island Wildlife Refuge, Louisiana**
- JASON KARNEZIS and Lauchlan Fraser. **The Effect of Hydrology and Fertility on Synthesized Wetland Plant Communities**
- VICKY KRIKELAS, Ann Hayden, Emily Bosanquet, Todd Cooper and Michelle Torrent. **Wetland Mitigation Alternatives for the Casmalia Resources Disposal Site**

- DANIEL LACHANCE, Claude Lavoie and André Desrocher. **Biodiversity of Wetlands in an Agricultural Landscape: Peatlands of Southeastern Québec**
- SUSAN LAUBSCHER and Robert Brooks. **Development of a Floodplain Invertebrate Community Index (FICI) for Pennsylvania Riverine Systems**
- CLAUDE LAVOIE, Martin Jean, Guy Letourneau, Annie Saint-Louis and Fanny Delisle. **A Survey of the Distribution of Exotic Plant Species along the St. Lawrence River, Quebec**
- JENNIFER LEEDS, Stephen Smith, P. Brian Garrett and Paul McCormick. **Responses of Sawgrass (*Cladium jamaicense*) to Phosphorus Enrichment in the Northern Florida Everglades: Implications for Water Management and Ecosystem Restoration**
- STEPHEN LENART, Kevin Kuehn and Robert Neely. **Effects of Cadmium Contamination on Plant Litter Decay and Microbial Activity in a Modeled Wetland System: Does Contamination During Plant Growth Play a Role?**
- RAYMOND Y. LI, Frances P. Gelwick and Stephen E. Davis, III. **Fish Assemblage Structure of Lick Creek Floodplain Habitats**
- SHUWEN LI, S. Reza Pezeshki and Shirlean Goodwin. **Effects of Soil Moisture Regimes on Photosynthesis and Growth in Cattail (*Typha latifolia*)**
- BECKY LIPPMANN, Virginia Bouchard, Martin Quigley, Jay Martin, Tim Granata and Larry Brown. **Potential for Denitrification and Methanogenesis in a First-Year Constructed Wetland**
- DANIEL MACDONALD, Gregory Gustina, Michael Ericsson and Robert Lichvar. **Geospatial and Database Software Applications Designed to Streamline Natural Resources Inventory and Data Transfers**
- JULIANA MACEDO. **The Correlation Between Seasonality and Fishing in the Pantanal**
- LAURIE MACHUNG, James Benson and Ira Stern. **A Wetlands Protection Strategy for the New York City Water Supply Watershed**
- WENDY M. MAHANEY, Denice H. Wardrop and Robert P. Brooks. **Controls on Wetland Plant Community Composition and the Implications for Ecosystem Function**
- LEONARDO MALTCHIK and Cinthia Groth. **Stability of Macrophytes to Disturbance by Flash Floods in a Floodplain System of Southern Brazil**
- Paul Martin, Michael Tyrrell, COLIN DUNCAN, Denis Blais and Gus McLachlan. **Restoration Success of Newly Constructed Natural Gas Pipeline Right-of-Ways: Upland, Wetland and Riverine Habitats**
- JON McCLOSKEY and Cynthia Loftin. **Using Image Differencing and Post-classification Comparison to Monitor Vegetation Change in the Okefenokee Swamp, Georgia**
- RHONDA L. McDOUGAL and Henry R. Murkin. **Carbon Sequestration and Greenhouse Gas Flux in Canadian Prairie Wetlands: An Integrated Catchment Assessment**
- J. MURRAY McHUGH. **Effects of Mycorrhizal Inoculation, Phosphorus Availability, Salinity, and Period-of-inundation on Seedling Growth, in the Nursery, of two Saltmarsh Grasses, *Spartina alterniflora* and *Spartina cynosuroides***
- RACHEL MICHAELS and Joseph Zieman. **The Effects of Fiddler Crabs (*Uca pugnax*) on Pore Water Chemistry of a *Spartina alterniflora* Salt Marsh**
- BRIAN MILAN and Richard F. Shaw. **Comparison of Fish and Decapod Crustacean Distribution Between Smooth Cordgrass, *Spartina alterniflora*, and Black Mangrove, *Avicennia germinans*, Marsh Edge in Southeastern Louisiana**
- MICHIRU MIYAMOTO, Kunihiro Yoshino and Keiji Kushida. **Vegetation Mapping of Kushiro Wetland in Northeast Hokkaido, Japan: Application of SPOT Images, Airborne Color Near Infrared (CNIR) Images for Classification**

- AMANDA NAHLIK and M. Siobhan Fennessy. **Using Amphibians as Ecological Indicators: Biological Integrity in Natural, Restored, and Created Wetlands**
- THOMAS E. OSTERTAG and Philip C. Darby. **The Role of Seed Banks in Contributing to the Community Structure of a Wet Flatwoods Periodically Subjected to Fire**
- SONJA N. OSWALT and Sammy L. King. **Evaluation and Description of a Bottomland Hardwood System in West Tennessee**
- MEHMET OZALP, William H. Conner, Thomas M. Williams, Greame Lockaby and David H. Van Lear. **Chemical Constituents and Hydrology of River Systems Affecting Productivity of Tidally Influenced Floodplain Forests in Coastal South Carolina**
- FATIMATA A. PALE. **Initial Results of a Multi-Year Survey of Wetland Plant Seeds of Northwestern Pennsylvania**
- MARY PIERCE and Jessica Archer. **Introduction to Wetlands: Opportunities for Students of Public Schools through a National Science Foundation Grant**
- J.P. PRENGER, L. Yang, W. Graham, and K.R. Reddy. **Soil Microbial and Enzyme Activity Levels Related to Historic Nutrient Enrichment in a Freshwater Marsh**
- Avram Primack, SAM MUTITI, ALISHA SHUMAKER and DEEN BHATTA. **Geography of the Potential for Human Impacts to Wetlands from Development and Roads in the Adirondacks**
- HANNAH PRIOR, Kevin. B. Hallberg, Grahame Hall and D. Barrie Johnson. **Macrophytes: Friend or Foe? The Importance of Microbiological Processes in the Bioremediation of AMD**
- NOEL QUINN and Barry Warner. **Testate Amoebae Assemblages as Environmental Indicators of Water Tables and Soil Moisture in a Kettle-hole Peatland in Southern Ontario**
- PATRICIA S. RAFFERTY and Rebecca J. Howard. **Installation of Water Quality Monitoring Wells in Unconsolidated Soils**
- HEATHER L. RAY, G. Wayne Minshall and Richard Inouye. **Macroinvertebrate Colonization and Decomposition of Cattail and Bulrush Litter in a Newly Constructed Wetland**
- LISETTE ROSS, Eric Butterworth and Henry Murkin. **Hydrology, Ecology and Disturbance of Western Boreal Wetlands in Canada**
- KIMBERLI SCOTT, Melanie A. Vile, Anuradha Kuchibhatla, John A. Navaratnam and R. Kelman Wieder. **Peat Mining Effects on Rates of Carbon Mineralization and Enzymatic Activity in Peat**
- MAYUMI SEO, Ronald Corstanje, Joseph Prenger and K. Ramesh Reddy. **Spatial Distribution of Selected Microbial Parameters in the Blue Cypress Marsh Conservation Area, Florida**
- JUSTIN SMITH, Rong Su, Rachel Amonette, Kevin Kuehn, Robert Sinsabaugh and Robert Neely. **Microbial Dynamics Associated with *Typha latifolia* Decay in Two Lake Erie Coastal Wetlands**
- ROBB B. STAVNE, Jonathan E. Thompson and A. Lee Foote. **The Effects of Cattle Grazing on Wetland-dependent Birds in the Aspen Parkland**
- SUSAN-MARIE STEDMAN and Lynne Trulio. **Interagency Federal Guidance for Wetland Restoration, Creation, and Enhancement**
- WENDY VAN LOON, Alan Werker and Ray Legge. **Assessing Microbial Pathogen Removal by Wetlands: Experimental Methods**
- KELLI WEAVER, James Miner, Steven Benton, Richard Cahill and Geoffrey Pociask. **Using Specific Conductance Dataloggers to Estimate Chloride in Surface and Groundwater Near a Calcareous Fen**

PETER WEISHAMPEL and Barbara Bedford. **Assessing Arbuscular Mycorrhizal Colonization and Diversity in Calcareous Fen Plant Communities**

BENJAMIN WOLFE and Janice Thies. **Application of BIOLOG® EcoPlate™ Carbon Substrate Utilization Profiles in a Rich Graminoid Fen Rhizosphere Community.**

MINHUA YAN, Wei Deng and Xuehui Ma. **Climate Change in the Sanjiang Plain Disturbed by Large Scale Reclamation**

LI ZHANG, William J. Mitsch and Daniel F. Fink. **Biogeochemical Parameters and Nutrient Dynamics of the Upper Big Darby Creek Watershed: A Pre-restoration Approach**