

Poster Directory

NOTE: Presenting authors appear in **Bold**. Poster number is listed to the left of the poster title.

Session 1 – Tuesday, December 7, 2004

- On display from 5pm Sunday through 7pm Tuesday, with a formal poster session and reception on Tuesday from 5pm-7pm.

Poster No.

- 1-84**Restoration of Riverine Wetlands: A Long Term Case Study on the Flint River, Georgia** – *Bart Baca*, CSA South. Inc., Wetlands, Dania Beach, FL
- 1-02**Ecological Benefit and Impact Analyses of Alternative Plans for the North Palm Beach Comprehensive Everglades Restoration Project: A Procedural Approach for Restoration Planning** – *Pinar Balci*, Ecology and Environment Inc., West Palm Beach, FL
- 1-69**Detecting Trends in Water Temperatures in the Lower Klamath River, California** – *John Bartholow*, US Geological Survey, Fort Collins Science Center, Fort Collins, CO
- 1-79**Quantifying the Effect of Dam Removal on Water Temperatures in the Lower Klamath River, California, and Implications for Salmon Recovery** – *John Bartholow*, US Geological Survey, Fort Collins Science Center, Fort Collins, CO
- 1-03**Southwest Florida Coastal Conservation Corridor Plan** – *James Beever*, Florida Fish and Wildlife Conservation Commission, Habitat Conservation Scientific Services, Punta Gorda, FL
- 1-59**Jamaica Bay Marsh Island Ecosystem Restoration - Pilot Program Study** – *Brett Berkley*, MATRIX Environmental & Geotechnical Services, Inc., Ecological Services, East Hanover, NJ
- 1-30**Putting Fish Back Into Fish Creek: Creek Restoration in Urban Anchorage** – *Daniel Billman*, HDR, Engineering, Anchorage, AL
- 1-04**An Agency Approach to Watershed Enhancement: Learning from the Past and Planning for the Future** – *James Borawa*, N.C. Wildlife Resources Commission, Division of Inland Fisheries, Asheville, NC
- 1-85**New Technology for Restoration of Sediment-Impacted Streams** – *David Braatz*, Streamside Systems, LLC, Findlay, OH
- 1-23**Synthesis of Land Use Data for the Chesapeake Bay Watershed** – *Sara Brandt*, Chesapeake Research Consortium, Chesapeake Bay Program Office, Annapolis, MD

Session 1 – Tuesday, December 7, 2004 (continued)

- On display from 5pm Sunday through 7pm Tuesday, with a formal poster session and reception on Tuesday from 5pm-7pm.

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- 1-86 **A Study of Minimum Flows and Levels (MFLs) With Regard to Water Quality Protection and Restoration in the St. Johns River Water Management District – *John Brawley***, Battelle, Coastal Resource and Environmental Management, Duxbury, MA
- 1-05 **Evaluation of Everglades Agricultural Area Storage Reservoirs Using Regional Modeling – *Lehar Brion***, South Florida Water Management District, Office of Modeling, West Palm Beach, FL
- 1-70 **Application of a Decision Support System Model for Drought Management Analysis in a Western River System – *Sharon G. Campbell***, US Geological Survey, Fort Collins Science Center, Fort Collins, CO
- 1-60 **Sheldon Marsh Environmental Restoration (Section 227) Project – *Shanon Chader***, US Army Corps of Engineers, Buffalo District, Buffalo, NY
- 1-26 **Application of SeaWiFS and MODIS Imagery in Monitoring Water Quality of Chesapeake Bay – *Zhiqiang Chen***, University of South Florida, College of Marine Science, St. Petersburg, FL
- 1-24 **Assessing Urban Land Cover Change in the Chesapeake Bay Watershed (1990 - 2000) – *Peter Claggett***, US Geological Survey, Chesapeake Bay Program Office, Annapolis, MD
- 1-06 **“Fine Tuning Everglades Restoration”: The Loxahatchee Impoundment Landscape Assessment (LILA) Project – *Eric Cline***, Iowa State University, Botany, West Palm Beach, FL and South Florida Water Management District
- 1-21 **Using Historic Photography as a Resource for Ecological Restoration of the Florida Everglades: the 1940s Photoset and Geodatabase Development – *Alisa Coffin***, US Geological Survey, FISC, Gainesville, FL
- 1-31 **Towards a Healthy Steelhead Population with Watershed Restoration in Washington’s Wind River – *Patrick Connolly***, US Geological Survey, Columbia River Research Laboratory, Cook, WA
- 1-07 **Structural vs. Functional Measures in Restoration Projects – *Ryan C. Davis***, Exponent, Albany, NY
- 1-36 **Planning for Mixed Seeding Restoration on Xeric Uplands in Florida – *Linda Duever***, Conway Conservation, Micanopy, FL

Session 1 – Tuesday, December 7, 2004 (continued)

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- 1-75 **Aiding Rio Grande Restoration by Using Stable Isotope Analyses to Characterizing the Past and Present Condition of the River Food Web** – *Melanie S. Edwards*, University of New Mexico, Department of Biology, Albuquerque, NM
- 1-67 **Prioritizing Flood Protection while Restoring Ecological Function in Urban Rivers** – *Theodore Endreny*, SUNY ESF, Ecological Engineering, Syracuse, NY
- 1-22 **Enhancing Restoration Through Conservation -- Using the Chesapeake Bay Watershed Resource Lands Assessment to Prioritize Land Protection** – *Andrew Fitch*, University of Maryland Center for Environmental Science, Chesapeake Bay Program, Annapolis, MD
- 1-27 **Wetland Enhancement Decision-Making Tools & Training for Landowners and Technical Service Providers** – *Mitch Flinchum*, University of Florida/IFAS, IFAS Everglades Research and Education Center, Belle Glade, FL
- 1-80 **Restoration of Western River Ecosystems: Reality or Rigormortis?** – *Marshall Flug*, US Geological Survey, DOI/BRD, Fort Collins, CO
- 1-81 **Spatial and Temporal Changes in the Vegetation Community Structure Along the Harney River, Florida** – *Ann Foster*, US Geological Survey, FISC, Gainesville, FL
- 1-33 **Vic Fazio Yolo Wildlife Area: A Lessons Learned Overview of the Largest Wetland Ecosystem Restoration Project in the Western United States** – *Miki Fujitsubo*, US Army Corps of Engineers, Planning Division, Sacramento, CA
- 1-66 **Oak Scrub Restoration at Hilochee Wildlife Management Area: A Preliminary Assessment** – *Cyndi Gates*, Florida Fish and Wildlife Conservation Commission, Terrestrial Habitat Conservation and Restoration, Clermont, FL
- 1-72 **Conceptual Restoration Designs of Riparian Habitat in the Lower Cuyahoga River, Ohio, for Larval Fish** – *Michael Greer*, US Army Corps of Engineers, Buffalo District, Buffalo, NY
- 1-34 **Wetland and Wildlife Habitat Creation at Opportunity Ponds** – *Grant Gurnee*, Walsh Environmental, Ecological Restoration Group, Boulder, CO
- 1-57 **The Impact and Recovery of Ice Roads and Ice Pads on Tundra Ecosystems, National Petroleum Reserve, Alaska (NPR-A)** – *Scott Guyer*, Bureau of Land Management, Alaska State Office, Anchorage, Alaska

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- 1-87 **Illinois River Basin Ecosystem Restoration** – *Karen Hagerty*, US Army Corps of Engineers, Rock Island District, Economic & Environmental Analysis Branch, Rock Island, IL
- 1-88 **Ecosystem Restoration in the Upper Chariton River/Rathbun Lake Watershed** – *Valerie Hansen*, US Army Corps of Engineers, Kansas City District, Kansas City, MO
- 1-89 **Restoring the Resacas of the Rio Grande River: Water Quality, Hydrology, and Biodiversity** – *Jim Henderson*, US Army Corps of Engineers, Engineer Research and Development Ctr., Vicksburg, MS
- 1-01 **The South Florida Information Access (SOFIA) System** – *Heather Henkel*, US Geological Survey, Center for Coastal and Watershed Studies, St. Petersburg, FL
- 1-25 **Segmentation and Land Use in the Phase 5 Chesapeake Bay Watershed Model** – *Kate Hopkins*, UMCES/CBPO, Modeling Team, Annapolis, MD
- 1-08 **Integrating Environmental Decision Making into a Framework for Farm Policy** – *Glenda Humiston*, University of California, Berkeley, Society and Environment, Richmond, CA
- 1-82 **Riparian and Wetland Restoration Projects in the US Army Corps of Engineers Albuquerque District** – *Ondrea Hummel*, US Army Corps of Engineers, Environmental Resources Section, Albuquerque, NM
- 1-73 **Section 206: Aquatic Ecosystem Restoration of Big Escambia Creek, Alabama and Florida** – *Jenny Jacobson*, US Army Corps of Engineers, Planning & Environmental Division, Mobile, AL
- 1-90 **Monitoring Evaluation of North Carolina Stream Restoration Projects** – *Greg Jennings*, North Carolina State University, Biological & Agricultural Engineering, Raleigh, NC
- 1-83 **Riparian Forest Restoration Project** – *Rachel Jolley*, School of Forestry & WLSC, Auburn University, Auburn, AL
- 1-55 **A Multidisciplinary Assessment of the Effect of the Restoration of a More Natural Hydrologic Regime on the Large Lakes of Voyageurs National Park, Minnesota** – *Larry Kallemeyn*, US Geological Survey, Biological Division, International Falls, MN
- 1-09 **Cargill's Adaptive Management Approach to Restoration** – *Parker Keen*, Cargill Crop Nutrition, Land Management, Riverview, FL

Session 1 – Tuesday, December 7, 2004 (continued)

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- 1-91**Redefining the San Antonio Channel Improvement Project to Include Environmental Restoration** – *Charissa Kelly*, US Army Corps of Engineers, Planning, Environmental, Regulatory Branch, Fort Worth, TX
- 1-71**Green River Lake, KY – Modifying Reservoir Regulation and Operation** – *Richard Kessler*, The Nature Conservancy, Kentucky Chapter, Campbellsville, KY
- 1-48**Preliminary Hydrodynamic Modeling of Capitol Lake and the Deschutes River Estuary to Support Restoration Feasibility Assessment** – *Tarang Khangaonkar*, Battelle Seattle Research Center, Water Resources, Seattle, WA
- 1-32**Enhancing the Quantification of Fish and Wildlife Habitat Gains in the Great Lakes' Areas of Concern Through the Broader Use of Habitat Evaluation Procedures** – *Bruce Kirschner*, International Joint Commission, Great Lakes Regional Office, Windsor, Ontario
- 1-40**Visual_HEA: Habitat Equivalency Analysis Software** – *Kevin Kohler*, NSU Oceanographic Center, National Coral Reef Institute, Dania Beach, FL
- 1-49**The Feasibility of Marsh Restoration and Connectivity in the New Jersey Hackensack Meadowlands** – *Mark Laska*, Great Eastern Ecology, Inc., New York, NY
- 1-50**Restoration Program Assessment for the National Estuarine Research Reserve System (NERRS)** – *Mark Laska*, Great Eastern Ecology, Inc., New York, NY
- 1-51**Restoring Tidal Influences to a Historically Impounded System in Westchester County, New York** – *Mark Laska*, Great Eastern Ecology, Inc., New York, NY
- 1-68**Designing for Ecology and Community: Restoring the Neglected Spaces Enmeshed in Florida's Urban Sprawl** – *Dianne Lennon*, Restoration Partners, Inc., Environmental Planning and Design, Jupiter, FL
- 1-78**Urban Watershed Restoration in the Lower Bronx River, New York: Unique Challenges, Partnerships, and Technologies** – *Cecelia Linder*, NOAA, Restoration Center, Silver Spring, MD
- 1-58**Current Loxahatchee Watershed Restoration Activities - Martin County, Florida** – *Kimball Love*, Martin County, Office of Water Quality, Stuart, FL
- 1-45**The NOAA Community-based Habitat Restoration Program: Partnerships for Success** – *Daphne Macfarlan*, NOAA Fisheries, Restoration Center, St. Petersburg, FL

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- 1-46**Hydrologic Restoration on Florida's Gulf Coast: An Examination of the Process –**
Daphne Macfarlan, NOAA Fisheries, Restoration Center, St. Petersburg, FL
- 1-10**Effective Communication of Scientific Information: A Case Study in Adaptive**
Management – *Jana Machula*, California Bay Delta Authority, CALFED Science
Program, Sacramento, CA
- 1-11**Community Partnering and Educational Outreach Have Made Ten Mile Creek**
More Than Just A Restoration – *Doris Marlin*, US Army Corps of Engineers, DP-I,
Jacksonville, FL
- 1-43**Population Decline of the Federally Endangered Snail Kite in Florida –** *Julien*
Martin, University of Florida, Florida Cooperative Fish and Wildlife Research Unit,
Gainesville, FL
- 1-37**Restoration of Sod Pastures to Native Vegetation at The Disney Wilderness**
Preserve – *Chris Matson*, The Nature Conservancy, The Disney Wilderness Preserve,
Kissimmee, FL
- 1-62**FIU-Singeltary Restoration Project –** *John Meeder*, Florida International University,
Southeast Environmental Research Center, Miami, FL
- 1-12**Setting Interim Goals and Interim Targets for the Comprehensive Everglades**
Restoration Plan – *Carol Mitchell*, Everglades National Park, South Florida
Ecosystem Office, Homestead, FL
- 1-56**Economic Impact Survey of Eurasian Watermilfoil Removal from Houghton Lake**
– *Mark Mongin*, SePRO, Aquatic Specialty Business, Carmel, IN
- 1-38**Wildlife Utilization of Phosphate Mined Lands –** *Robin Moore*, University of South
Florida, Tampa, FL
- 1-63**Cat Island Chain Restoration, Green Bay –** *Rob Nairn*, Baird & Associates,
Oakville, Ontario
- 1-77**Restoration of Longleaf Pine Sandhill and Flatwoods in a City Park in North-**
Central Florida: A Progress Report – *Geoffrey Parks*, City of Gainesville, Nature
Operations Division, Gainesville, FL
- 1-28**Decision Models and Directions for the South West Florida Feasibility Study –**
Leonard Pearlstine, University of Florida, Ft Lauderdale Research & Education
Center, Davie, FL

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- On display from 5pm Sunday through 7pm Tuesday, with a formal poster session and reception on Tuesday from 5pm-7pm.

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- 1-29 **Integrating Urban Growth Models and Habitat Models for Ecological Evaluation of Landscape Impacts** – *Leonard Pearlstine*, University of Florida, Ft Lauderdale Research and Education Center, Davie, FL
- 1-13 **The Biscayne Bay Coastal Wetlands Project: Planning the Restoration of a South Florida Estuary** – *Patrick Pitts*, US Fish and Wildlife Service, South Florida Ecological Services Office, Vero Beach, FL
- 1-41 **The Use of Community Metrics and Health Indices to Monitor the Health of Restored Ecosystems and the Use of Adaptive Management Strategies to Promote Future Success** – *John Roebig*, Lawler Matusky & Skelly Engineers LLP, New York, NY
- 1-14 **Federal Policy Issues in Large-Scale Ecosystem Restoration Initiatives** – *Pervaze Sheikh*, Congressional Research Service, Resources, Science, and Industry Division, Washington, DC
- 1-15 **Development of a Conceptual Model for the Potomac Watershed** – *Stacey Sloan-Blersch*, US Army Corps of Engineers, Baltimore District, Baltimore, MD
- 1-16 **Managing Lake Shorelines: How Do We Put It All Back Together? (Restoration of Aquatic Vegetation in Lakes and Reservoirs)** – *Michael Smart*, US Army Corps of Engineers, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX
- 1-52 **Primary Dune Species of Barrier Islands (e.g. *Amaranthus pumilus*) and the Impact of Increasing Episodic, Extreme Stress Events Linked to Global Change** – *Allison G. Snow*, Wake Forest University, Department of Biology, Winston-Salem, NC
- 1-61 **Establishment of Poplar Island: A Large Marsh Restoration Project in Chesapeake Bay** – *Court Stevenson*, University of Maryland, Center of Environmental Science, Horn Point Laboratory, Cambridge, MD
- 1-17 **Partnering for Success in Submerged Aquatic Vegetation Research, Restoration, and Education in the Chesapeake Bay Watershed** – *Rebecca Thur*, Chesapeake Research Consortium, Freshwater SAV Partnership, Edgewater, MD
- 1-18 **Confronting Social Impediments to Adaptive Management, Lessons from the Grand Canyon Ecosystem** – *Christopher Updike*, Northern Arizona University, Center for Sustainable Environments, Flagstaff, AZ
- 1-19 **From Design to Maintenance: Case Studies in Adaptive Management for Restoration Success** – *Ron Van Fleet*, Sarasota County, Public Works/Permitting, Mitigation and Restoration, Sarasota, FL

Session 1 – Tuesday, December 7, 2004 (continued)

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- 1-64**Recharging the Edwards - Cibolo Creek, Texas, Watershed Study** – *Marie Vanderpool*, US Army Corps of Engineers, Fort Worth District, Hydrology and Hydraulics, Fort Worth, TX
- 1-20**National Ecosystem Center of Expertise (ECO-CX)** – *David Vigh*, US Army Corps of Engineers, Mississippi Valley Division, Vicksburg, MS
- 1-39**A Multi-Criteria, GIS Tool for Evaluation of Impacts to Fish and Wildlife When Planning Large Ecosystem Restoration Projects** – *Les Vilchek*, US Fish and Wildlife Service, Ecological Services, Vero Beach, FL
- 1-65**Bird Island Field Pipeline Removal – Kleberg County, Texas** – *Catherine R. Villarreal*, Shiner Moseley and Associates, Inc., Corpus Christi, TX
- 1-35**New Ecosystem Modeling Service Suite for Regional Ecosystem Restoration** – *Dali Wang*, The Institute for Environmental Modeling, University of Tennessee, Knoxville, TN
- 1-42**EXHEP: Expert Habitat Evaluation Procedures (HEP) Software** – *Antisa Webb*, US Army Corps of Engineers, Engineer Research Development Center, Environmental Lab, Vicksburg, MS
- 1-47**Setting a New SAV Restoration Goal for the Chesapeake Bay by Analyzing the Historical Record** – *Howard Weinberg*, University of Maryland Center for Environmental Science, Chesapeake Bay Program, Annapolis, MD
- 1-53**Planning, Design, and Construction of a Tidal Wetland Restoration Project In a Highly Urbanized Estuary, Woodbridge, NJ** – *Craig A. Woolcott*, National Oceanic Atmospheric Administration (NOAA)/National Marine Fisheries Service (NMFS), NOAA Restoration Center, Highlands, NJ
- 1-76**The Proposed Panama City – Bay County International Airport Relocation: Wetland Permitting and Mitigation Aspects** – *Scott Zengel*, PBS&J, North Florida Environmental Services, Tallahassee, FL

Session 2 – Thursday, December 9, 2004

- On display from 7am Wednesday through 12noon Friday, with a formal poster session and reception on Thursday from 5pm-7pm.

Poster No.

- 2-55 **Enhanced Monitored Natural Attenuation (MNA): Innovative Remedial Strategy for Sustainable Ecosystem Restoration?** – *Marshall Allen*, Florida International University, Hemispheric Center for Environmental Technology, Miami, FL
- 2-56 **The US Geological Survey Integrated Hydrologic Monitoring of the Florida's Southwest Coast and Florida Bay: Importance to CERP Monitoring and Assessment Plan Performance Measures** – *Gordon Anderson*, US Geological Survey, FISC-WRS, Homestead, FL
- 2-57 **Monitoring the Hydrodynamics of the Everglades Mangrove Transitional Zone: Getting the Water Right at the Ecological Ecotone** – *Gordon Anderson*, US Geological Survey, FISC-WRS, Homestead, FL
- 2-84 **Pilot Study to Quantify Floodplain Soil Phosphorus in the Kissimmee River Restoration Area** – *Carmen Baez-Smith*, South Florida Water Management District, Kissimmee Division, West Palm Beach, FL
- 2-45 **Assessing the Effect of Hydrophilic Soil Amendments on Riparian Plant Growth and Survival in Western Texas** – *Pamela Bailey*, US Army Corps of Engineers, Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS
- 2-102 **Use of an Amphibian IBI to Evaluate Success of Constructed Wetlands** – *Joe Bartoszek*, Ohio EPA, DSW/WQ, Dayton, OH
- 2-117 **Information Scale, Reporting, and Assessment: Performance Measures for Biscayne Bay Fish Communities** – *Sarah Bellmund*, Biscayne National Park, Resource Management, Homestead, FL
- 2-46 **Mercury in Mosquitofish: Assessing the Influences of Bioaccumulation and Bioavailability** – *Bryan Bemis*, US Geological Survey, Water Resources, Menlo Park, CA
- 2-01 **Biscayne Bay Hydrodynamic Data Collection** – *Lee Anne Bledsoe*, Biscayne National Park, Resource Management, Homestead, FL
- 2-41 **A Formidable Challenge to Everglades Restoration – Controlling Old World Climbing Fern** – *Laura Brandt*, US Fish and Wildlife Service, Senior Wildlife Biologist for A.R.M. Loxahatchee NWR, Boynton Beach, FL
- 2-120 **GIS Data Development of Fire History for Everglades National Park from 1948 to 1979** – *Kristy Capobianco*, US Geological Survey, FISC, Gainesville, FL

Session 2 – Thursday, December 9, 2004 (continued)

- On display from 7am Wednesday through 12noon Friday, with a formal poster session and reception on Thursday from 5pm-7pm.

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- 2-23 **A Summary of Baseline Vegetation Data for Phase I of the Kissimmee River Restoration Project and Expectations for Wetland Vegetation Recovery in the Restored System** – *Laura Carnal*, South Florida Water Management District, Kissimmee Division, West Palm Beach, FL
- 2-26 **Management Recommendations for Exotic and Nuisance Plant Species Control in a Disturbed Maritime Hammock Community** – *Michelle Carte*, Florida Institute of Technology, Marine and Environmental Systems, Jacksonville, FL
- 2-32 **Adapting Restoration to Disturbance: Wildfire Impacts on Wetland and Upland Restoration and Invasive Exotic Control** – *Mary Kay Cassani*, Florida Gulf Coast University, College of Arts and Sciences, Ft. Myers, FL
- 2-89 **The Roles of American Alligators and American Crocodiles as Indicators of Environmental Change** – *Michael Cherkiss*, University of Florida, FLREC, Davie, FL
- 2-31 **A Biological Control Agent for Invasive Plant Species, Old World Climbing Fern (*Lygodium microphyllum*)** – *Tainya Clarke*, Florida International University, Environmental Studies, Miami, FL
- 2-60 **Verification of ATLSS SESI Models Using Species Abundance Data** – *Jane Comiskey*, The Institute for Environmental Modeling, Dept. of Ecology and Evolutionary Biology, Knoxville, TN
- 2-103 **Pyrite Oxidation in Dredged Estuarine Sediments: Challenges for Beneficial Use** – *Jeffrey Cornwell*, University of Maryland Center for Environmental Science, Horn Point Laboratory, Cambridge, MD
- 2-35 **Conceptual Model for an Ecologically Based Management Plan for Brazilian Peppertree, *Schinus terebinthifolius*, in Florida** – *James Cuda*, University of Florida/IFAS, Entomology & Nematology, Gainesville, FL
- 2-104 **The Impact of Stream Nutrient Loading on Filamentous Green Algae in Conesus Lake and the Use of Continuous Flow-Through Incubation Chambers for Measurement *In Situ* of Changes in Biomass** – *Peter D'Aiuto*, SUNY Brockport, Environmental Science and Biology, Altamonte Springs, FL
- 2-90 **The Potential Utility of Apple Snail Egg Clusters in the Context of Ecological Performance Measures** – *Philip Darby*, University of West Florida, Biology, Pensacola, FL

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- 2-33**Specific Conductance in the Everglades Agricultural Area – *Samira Daroub***, University of Florida, Everglades Research and Education Center, Belle Glade, FL
- 2-11**The Results of Monitoring Hard Corals Restored after the Installation of Telecommunication Cables off South Florida – *Donald Deis***, PBS&J, Environmental, Jacksonville, FL
- 2-42**Transport of Dissolved and Particulate Phosphorus in Canal Waters Downstream of STA-1W – *Orlando Diaz***, University of Florida, Everglades Research and Education Center, Belle Glade, FL
- 2-79**Effect of Scaling on Hydraulic Conductivity in a Karst Aquifer – *Vincent J. DiFrenna***, Florida International University, Earth Sciences, Miami, FL
- 2-105**The Response of Below and Aboveground Biomass of *Typha* to Harvesting: A Modelling Approach – *Hai Dinh Ngoc***, Saitama university, Department of Environmental Science and Human Engineering, Saitama, Saitama
- 2-47**Chlorophyll *a* as an Indicator of Eutrophication in the Caloosahatchee Estuary and San Carlos Bay, Florida – *Peter Doering***, South Florida Water Management District, Coastal Ecosystems Division, West Palm Beach, FL
- 2-48**Phosphorus Release and Retention by Soils of Natural Isolated Wetlands in Okeechobee Basin, Florida – *Ed Dunne***, University of Florida, Wetland Biogeochemistry Laboratory, Gainesville, FL
- 2-94**Fish Assemblages as an Indicator of Biological Function in Aquatic Systems Restored after Phosphate Mining – *Douglas Durbin***, Biological Research Associates, Water Resources, Tampa, FL
- 2-49**Mercury Bioaccumulation Responses to Everglades Restoration – *David Evans***, NOAA, Center for Coastal Fisheries and Habitat Research, Beaufort, NC
- 2-38**Submergence and Salinity Effects on Decomposition of Wetland Plants; Exotic: Purple Loosestrife - *Lythrum salicaria* versus Native: Cattail - *Typha* sp. – *Laurence Fernberg***, Malcolm Pirnie, Inc., Ecorestoration, White Plains, NY
- 2-43**Periphyton Stormwater Treatment Areas: Results of Increased Velocity and Increased Water Depths on Phosphorus Removal Efficiency – *Erin Fogarty-Kellis***, South Florida Water Management District, Everglades, West Palm Beach, FL

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- 2-12 **The Use of Otolith Microchemistry to Monitor and Evaluate the Movement of Coral Reef Fish in South Florida Waters – *Trika Gerard***, NOAA SE Fisheries/FAMU, Larval Fish Ecology, Miami, FL
- 2-71 **Evaluation of Regional Models for Evapotranspiration in the Everglades – *Edward German***, US Geological Survey, Water Resources Division, Altamonte Springs, FL
- 2-86 **Use of a Modified Macrohabitat Guild Structure for Assessing Fish Dependence on Off-Channel Habitats in the Kissimmee River – *Lawrence Glenn***, South Florida Water Management District, Kissimmee Division, West Palm Beach, FL
- 2-106 **Physiological Effects of Crude Oil and Brine on Loblolly Pine (*Pinus taeda*) – *Dean Goodin***, Shaw Environmental, Inc., Baton Rouge, LA
- 2-107 **Seed Germination in Wild Celery, *Vallisneria americana* Michx. from Lake Okeechobee, Florida U.S.A. – *Herbert Grimshaw***, South Florida Water Management District, Okeechobee Division, West Palm Beach, FL
- 2-20 **Ecosystem Restoration, Coastal Erosion Protection, and Recreational Amenities using Artificial Reef Submerged Breakwaters and Coral Propagation Techniques – *Lee Harris***, Florida Tech, Marine & Environmental Systems, Melbourne, FL
- 2-91 **Predicting Wildlife Population Responses by Making Comparisons across a Species' Range: A Case Study between Mangrove and Salt Marsh Diamondback Terrapins (*Malaclemys terrapin*) – *Kristen Hart***, Duke University, Nicholas School of the Environment and Earth Sciences Marine Laboratory, Beaufort, NC
- 2-59 **ATLSS Data Viewer: A Tool to Analyze and Display ATLSS Model Outputs – *Steve Hartley***, US Geological Survey, National Wetlands Research Center, Lafayette, LA
- 2-50 **Influence of the Form of Dissolved Nitrogen Inputs on Phytoplankton Community Composition in Florida Bay and the Southwestern Florida Shelf – *Cynthia Heil***, Florida Fish & Wildlife Conservation Commission, Florida Water Research Institute, St. Petersburg, FL
- 2-58 **Using an Integrated Hydrologic Monitoring Network as a Tool to Analyze Everglades Ecosystem Response during CERP Implementation – *Clinton Hittle***, US Geological Survey, Center for Water and Restoration Studies, Miami, FL

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- 2-65 **Measuring the Influence of Water Management Infiltration Basins on Water Quality in Neighboring Marshes in Everglades National Park using Midge Bioassessment Methods** – *Richard Jacobsen*, Everglades National Park, South Florida Natural Resources Center, Homestead, FL
- 2-84 **Development of Invertebrate Performance Measures for Everglades Hydrological Restoration: Chironomid – Hydroperiod Relationships in Everglades National Park** – *Richard Jacobsen*, Everglades National Park, South Florida Natural Resources Center, Homestead, FL
- 2-82 **Monitoring the Extremes: How a Comprehensive Monitoring and Analysis Program Captured the Affects of Drastically Different Weather in 2002 and 2003 on Chesapeake Bay** – *David Jasinski*, Chesapeakebay Program Office, Monitoring, Annapolis, MD
- 2-80 **Computational Challenges in South Florida Watershed Modeling for Ecosystem Restoration** – *Hsin-Chi Jerry Lin*, US Army Engineer Research and Development Center, Coastal and Hydraulics Laboratory, Vicksburg, MS
- 2-24 **Long-Term Management of the Kissimmee Chain of Lakes, Florida** – *Brad Jones*, South Florida Water Management District, Kissimmee Division, West Palm Beach, FL
- 2-61 **Characterizing Important Spatial Scale Lengths of Florida Everglades Vegetation for Hydrologic Model Parameterization and Restoration Monitoring** – *John Jones*, US Geological Survey, Eastern Region Geography, Reston, VA
- 2-121 **Relating Water Depth, Hydroperiod, and Flows with Elevation Differences in the Everglades Ridge and Slough Community** – *Eric Jorczak*, University of Florida, Soil and Water Science, Gainesville, FL
- 2-75 **Nekton Habitat Use and Responses to Wetland Restoration in the Mississippi River Delta** – *Frank Jordan*, Loyola University New Orleans, Biological Sciences, New Orleans, LA
- 2-111 **Characterization and Selection of *Uniola Paniculata* L. Genotypes for Enhanced Dune Restoration** – *Mike Kane*, University of Florida/IFAS, Environmental Horticulture/IFAS, Gainesville, FL
- 2-51 **Effects of Canal-Water Intrusion on C and N Biogeochemistry and Isotopes at the A.R.M. Loxahatchee National Wildlife Refuge** – *Carol Kendall*, U. S. Geological Survey, WRD, Menlo Park, CA

Session 2 – Thursday, December 9, 2004 (continued)

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- 2-81 **Estimating Missing Rainfalls in South Florida Using Neural Networks-Based Classification** – *Tae-Woong Kim*, National Park Service, South Florida Ecosystem Office, Homestead, FL
- 2-29 **Fish Introductions into Everglades Wetlands: An Unforeseen Consequence of Restoration** – *Jeffrey Kline*, Everglades National Park, South Florida Natural Resources Center, Homestead, FL
- 2-87 **Habitat Use by Wetland Fish Assemblages: Establishing Baseline Community Conditions for Wetland Restoration in Tampa Bay, Florida** – *Justin Krebs*, US Geological Survey, St Petersburg, FL
- 2-99 **A New Aerial Survey Method to Monitor the Response of Manatees to Restoration of the Florida Everglades** – *Catherine Langtimm*, US Geological Survey, Florida Integrated Science Center, Gainesville, FL
- 2-68 **Modeling the Water Flow of the Biscayne Bay Coastal Wetland Watershed System for Ecosystem Restoration** – *Hsin-Chi Jerry Lin*, US Army Engineer Research and Development Center, Coastal and Hydraulics Laboratory, Vicksburg, MS
- 2-02 **Success and Limits of a Marine Protected Area: the Blue Crab in Chesapeake Bay** – *Rom Lipcius*, College of William and Mary, Virginia Institute of Marine Science, Gloucester Point, VA
- 2-95 **Can Restoration Change the Role of Everglades Karst Holes as Sinks for Aquatic Animals?** – *William Loftus*, US Geological Survey, Florida Integrated Science Center, Homestead, FL
- 2-96 **Between the Rock and a Wet Place: Restoration of the Rocky Glades** – *William Loftus*, US Geological Survey, Florida Integrated Science Center, Homestead, FL
- 2-17 **Establishing Baseline Data for Mangrove Forest Fishes in the Everglades: How Important is Hydrology?** – *Carole McIvor*, US Geological Survey, Center for Coastal & Watershed Studies, St Petersburg, FL
- 2-122 **Phosphorus Estimation in Isolated Wetlands of Lake Okeechobee Sub-basins using GIS, Remote Sensing and Classification Trees** – *Kathleen McKee*, University of Florida, Soil and Water Science, Gainesville, FL
- 2-52 **Water Quality in South Florida’s Arthur R. Marshall Loxahatchee National Wildlife Refuge ---Trends and Spatial Characteristics of Selected Constituents** – *Benjamin McPherson*, US Geological Survey, WRD, Tampa, FL

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- On display from 7am Wednesday through 12noon Friday, with a formal poster session and reception on Thursday from 5pm-7pm.

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- 2-16 **Freshwater Discharge Required to Re-Establish Biscayne Bay Coastal Wetlands and Nearshore Estuarine Zone** – *John Meeder*, Florida International University, SERC, Miami, FL
- 2-123 **Assessment of Soil Salinity and Moisture Fluctuations in the Bald Cypress Floodplains of the Loxahatchee River Watershed** – *Amanda Mortl*, University of Florida, Agricultural and Biological Engineering, Homestead, FL
- 2-97 **Age and Growth of Florida Gar, a Top Predatory Fish in Southern Florida** – *Debra Murie*, University of Florida, Fisheries and Aquatic Sciences, Gainesville, FL
- 2-78 **Hydrology, Ecology, and Simulation of the Six Mile Cypress/Ten Mile Canal Watershed System** – *John Murray*, Florida Gulf Coast University, Computer Science, Fort Myers, Florida
- 2-112 **Habitat Requirements of Three Species and Their Responses to Translocation to Reclaimed Phosphate Mined Land** – *Henry R. Mushinsky*, University of South Florida, Department of Biology, Tampa, FL
- 2-113 **Cottonwood Management and Regeneration along the Missouri River** – *Kristine Nemec*, US Army Corps of Engineers, Planning Branch, Omaha, NE
- 2-124 **Historic Changes in the Everglades Ridge and Slough Patterned Landscape** – *Martha Nungesser*, South Florida Water Management District, Everglades Division, West Palm Beach, FL
- 2-40 **Determining the Condition of Northern Everglades Tree Islands Impacted by Hydrology and Invasive Exotic Species** – *Pamela Pannozzo*, University of Florida, Wildlife Ecology and Conservation, Ft. Lauderdale, FL
- 2-39 **Hydrologic Changes Following Removal of Invasive Plants at Prairie Creek, Midewin National Tallgrass Prairie** – *Geoffrey Parish*, Graef, Anhalt, Schloemer & Associates, Environmental Division, Milwaukee, WI
- 2-77 **Modeling Hydrologic Events in a Post-Wildfire Watershed Restoration Environment Using the MIKE-SHE Model** – *Boris Poff*, USDA Forest Service, Rocky Mountain Research Station, Flagstaff, AZ
- 2-25 **Restoration of Floodplain Marsh Along the St. Johns River in Brevard County, Florida** – *Kimberli Ponzio*, St. Johns River Water Management District, Water Resources, Palatka, FL

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- 2-03 **Using Natural Chemical Tracers to Evaluate Point-source and Non-Point Sources of Freshwater Inputs to Biscayne Bay** – *Rene Price*, Florida International University, SERC and Earth Sciences, Miami, FL
- 2-19 **Mitigation of a S.E. Florida USA Coral Reef Damaged by the Grounding of a Nuclear Submarine: Results of a Hypotheses-Based Restoration Study** – *Patrick Quinn*, Oceanographic Center, Nova Southeastern University, Dania Beach, FL
- 2-100 **Are Manatee Over-Wintering Strategies and Restoration Efforts Compatible in the Northwestern Everglades Region?** – *Jim Reid*, US Geological Survey, Center for Aquatic Resource Studies, Sirenia Project, Gainesville, FL
- 2-30 **Disturbance: Tree Island Spread v. Exotic Plant Invasion** – *Amy Renshaw*, Florida International University, Southeast Environmental Research Center, Miami, FL
- 2-76 **Habitat Assessment for Hatching American Crocodile in the C-111 Wetland Basin and Florida Bay Wildlife Protection Area Based on Monthly Salinity Contouring Analysis from 1996 to 2003** – *Amanda Rice*, US Geological Survey, FISC-WRS, Homestead, FL
- 2-93 **Use of Amphibian Communities as Indicators of Restoration Success in the Everglades** – *Amanda Rice*, US Geological Survey, NA, Homestead, FL
- 2-125 **Application of Soil Mapping and Modeling Efforts in WCA-2 Integrating GIS, Geostatistics and Remote Sensing Techniques** – *Rosanna Rivero*, University of Florida, Department of Soil and Water Science/Urban and Regional Planning, Gainesville, FL
- 2-44 **History of Phosphorus Accumulation in Soils along a Nutrient Gradient in Water Conservation Area 2A, South Florida** – *John Robbins*, National Oceanic and Atmospheric Administration, Great Lakes Environmental Research Laboratory, Ann Arbor, MI
- 2-04 **Habitat Relationships of Fish and Shrimp in Southern Biscayne Bay** – *Michael Robblee*, US Geological Survey, c/o Everglades National Park, South Florida Natural Resources Center, Homestead, FL
- 2-34 **Quantifying the Effects of Nutrient Reduction on Growth Rates of Phytoplankton in Kings Bay, Florida** – *Darlene Saindon*, University of Florida, Dept. of Fisheries and Aquatic Sciences, Gainesville, FL

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- 2-108**Modeling the Effect of Soil Amendments (Composts) on Water Balance and Water Quality** – *Reza Savabi*, USDA-ARS, SHRS, Everglades AGro-Hydrology Proj, Miami, FL
- 2-05**Aspects of Oyster Ecology and Their Utility in the Design of Estuarine Restoration Projects in the Greater Everglades: Example from Southern Golden Gate Estates** – *Michael Savarese*, Florida Gulf Coast University, Coastal Watershed Institute, Fort Myers, FL
- 2-73**Sheet Flow Velocity in Everglades National Park, Florida** – *Raymond Schaffranek*, US Geological Survey, WRD/NRP, Reston, VA
- 2-83**Model for Simulation of Surface-Water Flow and Transport through Freshwater-Wetland and Coastal-Marine Ecosystems in Everglades National Park, Florida** – *Raymond Schaffranek*, US Geological Survey, WRD/NRP, Reston, VA
- 2-109**Restoration of the Florida Mouse to Native and Reclaimed Mined Sites: Assessing Habitat Quality to Improve Translocation Success** – *Dan Schmutz*, Berryman & Henigar, Water Resources & Environmental Sciences, Orlando, FL
- 2-06**Oyster Reef Restoration** – *Bruce Schwenneker*, Malcolm Pirnie, Newport News, VA
- 2-36**Linkage Between Microbial Metabolic Diversity and Restoration Age in the Hole-in-the-Donut, Everglades National Park** – *Kanika Sharma*, University of Florida, Soil and Water Science Department, Gainesville, FL
- 2-28**Natural Plant Pathogens of Brazilian Pepper (*Schinus terebinthifolius* Raddi) in the Everglades National Park: Potential for Biological Control** – *Kateel G. Shetty*, Department of Environmental Studies and Southeast Environmental Research Center, Florida International University, Miami, FL
- 2-18**Techniques for Restoring Gorgonians to Coral Reef Injury Areas** – *Lauren Shuman*, National Coral Reef Institute, Nova Southeastern University Oceanographic Center, Dania Beach, FL
- 2-66**Unraveling Trophic Interactions Between the Periphyton Mat Complex and Consumers in the Florida Everglades** – *Shawn Smith*, Florida International University, Department of Biological Sciences, Miami, FL
- 2-13**Influence of Porewater Salinity and Nutrients on Seedling Recruitment of Mangroves and Invasive Exotic Plants across a Mangrove - Marsh Ecotone on the Harney River, Everglades National Park** – *Thomas Smith III*, US Geological Survey, Florida Integrated Science Center, Saint Petersburg, FL

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- 2-14 **Trajectories of Mangrove Forest Recovery in the Southwest Everglades a Decade Following Hurricane Andrew: Variable Patterns of Recruitment, Growth, and Mortality** – *Thomas Smith III*, US Geological Survey, Florida Integrated Science Center, Saint Petersburg, FL
- 2-126 **Response of Muhly Grass to Different Seasons of Prescribed Fire in Southern Florida** – *Jim Snyder*, US Geological Survey, Florida Integrated Science Center, Ochopee, FL
- 2-114 **Spoil Island Renovation** – *Julia Stack*, The Florida Aquarium, Horticulture/Biological Operations, Tampa, FL
- 2-101 **Modeling Manatee Response to Hydrologic Restoration in the Ten Thousand Islands and Everglades National Park** – *Brad Stith*, US Geological Survey, Center for Aquatic Resources Studies, Sirenia Project, Gainesville, FL
- 2-127 **The Relationship Between Soil Moisture and Nutrient Availability in Tree Islands of Shark Slough, Everglades National Park** – *Elizabeth Struhar*, Florida International University, Environmental Studies, Miami, FL
- 2-70 **Effect of Surface Cover on Surface Radiation Balance in the Florida Everglades** – *David Sumner*, U. S. Geological Survey, Water Resources Division, Altamonte Springs, FL
- 2-62 **Using a Hydrologic/Ecological Model Linkage to Evaluate the Influence of Ecosystem Restoration on Everglades Fish Population** – *Eric Swain*, US Geological Survey, Center for Water and Restoration Studies, Miami, FL
- 2-115 **Fast Growing Tree Bridge Crops for Ecological Restoration of Phosphate Mined Lands** – *Bijay Tamang*, University of Florida, School of Forest Resources and Conservation, Gainesville, FL
- 2-116 **Is Roller Chopping an Alternative Management Practice to Fire in Restoring Dry Prairie?** – *George Tanner*, University of Florida/IFAS, Wildlife Ecology and Conservation, Gainesville, FL
- 2-67 **Benthic Periphyton Recovery and Phosphorus Dynamics upon Artificial Flooding in a Newly Burned Freshwater Marl Prairie (Everglades National Park, FL, USA)** – *Serge Thomas*, SERC/FIU, Periphyton Group, Miami, FL
- 2-110 **Permanent Habitat Changes on Cape Sable, Everglades National Park** – *Ginger Tiling*, US Geological Survey, Geology, St. Peterburg, FL

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- 2-98 **Assessment of American Crocodile Populations of Southern Florida: Trends in Population and Reproduction Rates – *William Tucker***, MACTEC Engineering and Consulting, Inc., Water Resources, Newberry, FL
- 2-85 **The Spatial Distribution and Relative Abundance of Larval Dragonflies (Anisoptera) Found in the Freshwater Marshes of the Florida Everglades – *Raul Urgelles***, Florida International University, Biological Sciences, Miami, FL
- 2-07 **The Role of Oysters, Oyster Reef-Associated Organisms, and Adaptive Resource Management in Setting Water Quality Targets in the Caloosahatchee Estuary, Florida – *Aswani Volety***, Florida Gulf Coast University, Ecological and Social Sciences, Fort Myers, FL
- 2-72 **The Importance of Flow in Restoring and Maintaining the Ridge-Slough-Tree Island Landscape Pattern in the Florida Everglades – *John Volin***, Florida Atlantic University, Biological Sciences, Davie, FL
- 2-08 **Environmental Alterations in Florida Bay in the Past 3000 Yrs Based on Diatom Assemblages Extracted from Sediment Cores – *Anna Wachnicka***, Florida International University, Southeast Environmental Research Center, Miami, FL
- 2-92 **Threats to Amphibian Populations in South Florida – *Hardin Waddle***, University of Florida, Florida Co-Op Fish & Wildlife Research Unit, Ochopee, FL
- 2-53 **Addressing Data Needs for Ecosystem Management: Enhancing an Existing Long-Term Water Quality Monitoring Network for the Northern Everglades – *Mike Waldon***, US Fish and Wildlife Service, A.R.M. Loxahatchee National Wildlife Refuge, Boynton Beach, FL
- 2-54 **Surface Water Quality Monitoring in Everglades, Florida – *Qingren Wang***, Tropical Research and Education Center, University of Florida/IFAS, Homestead, FL
- 2-21 **Forest Structure and Vital Rates of Mangrove Communities in the Everglades: Implications for Restoration – *Greg Ward***, Computer Science Corporation, US Geological Survey - Florida Integrated Science Center, Homestead, FL
- 2-22 **Growth Curve Estimates of *A. germinans*, *L. racemosa*, and *R. mangle* in Relation to Salinity and Nutrient Gradients Across the Mangrove Intertidal Zone – *Greg Ward***, Computer Science Corporation, US Geological Survey - Florida Integrated Science Center, Homestead, FL

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- 2-69 **Changes in Groundwater Influence Soil Surface Elevation in a Mangrove Forest along the Shark River, Everglades National Park** – *Kevin Whelan*, US Geological Survey, Florida Integrated Science Center, Miami, FL
- 2-37 **TAME *Melaleuca*: An Integrated Pest Management Approach for Control of *Melaleuca quinquenervia*** – *M. Scott Wiggers*, USDA-ARS, Invasive Plant Research Laboratory, Fort Lauderdale, FL
- 2-09 **Recent Changes to an Estuarine-Marine Ecosystem: Using Benthic Foraminiferal Assemblage Data toward a Predictive Model of Ecosystem Change, Central and Southern Biscayne Bay, Florida** – *Christopher Williams*, Southern Illinois University Carbondale, Geology Department, Carbondale, IL
- 2-63 **Evaluating the Effects of Everglades Restoration Scenarios by Linking the Local-Scale Southern Inland and Coastal Systems (SICS) Model to the Regional South Florida Water Management Model (SFWMM)** – *Melinda Wolfert*, US Geological Survey, FISC- Water and Restoration Studies, Miami, FL
- 2-64 **Applying the Penman-Monteith Equation in the Everglades to Calculate the Actual Evapotranspiration in Order to Improve Predictions for Restoration Scenarios** – *Melinda Wolfert*, US Geological Survey, FISC- Water and Restoration Studies, Miami, FL
- 2-88 **Patterns of Movement of Florida Gar (*Lepisosteus platyrhincus*) in the Everglades Revealed by Radio Telemetry** – *Lawrence Wolski*, Florida International University, Biological Sciences, Miami, FL
- 2-15 **Mangrove Assessments as an Indicator of Restoration Success in Die-Off Areas Located Adjacent to Development** – *Kathy Worley*, The Conservancy of Southwest Florida, Environmental Science, Naples, FL
- 2-10 **Modeling Three-Dimensional Coastal Water Quality with a General Paradigm** – *Gour-Tsyh (George) Yeh*, University of Central Florida, Civil and Environmental Engineering, Orlando, FL
- 2-74 **Nutrients Inputs along Coastal Transects within Everglades National Park, Florida** – *Mark Zucker*, US Geological Survey, Water, Miami, FL