

Conference Program Agenda

Monday, December 11, 2000

- 11:00am – 5:00pm Registration Open - *The Orchid Atrium (Level One)*
- 11:00am – 1:00pm Poster Presenters to set up displays for Poster Session I - *Mangrove Ballroom (Level One)*

Plenary Session: Defining Success

River of Grass Ballroom – Salons D, G & H (Level One)

Session Moderator: G. Ronnie Best, PWS, Conference Chair, U.S. Geological Survey

- 1:00pm – 1:15pm **Opening Comments: Setting the Stage for *Defining Success*** — *G. Ronnie Best, PWS, Co-Chair, Science Coordination Team, U.S. Geological Survey*
- 1:15pm – 2:00pm **Good Science: Essential Ingredient for Restoration Success** — *Charles (Chip) G. Groat, Director, U.S. Geological Survey and Denise J. Reed, University of New Orleans (p. 91)*
- 2:00pm – 2:45pm **The Use of a Total System Conceptual Ecological Model for Setting System-wide Performance Measures for the Greater Everglades Restoration Plan** — *John C. Ogden, South Florida Water Management District; Nicholas G. Aumen, National Park Service; G. Ronnie Best and Donald L. DeAngelis, U.S. Geological Survey; Frank Mazzotti, University of Florida/IFAS, Center for Natural Resources – South Florida (p. 133)*
- 2:45pm – 3:00pm **Special Dedication to Aaron Higer**
- 3:00pm – 3:15pm Refreshment Break - *Orchid Atrium & Solarium South*
- 3:15pm – 4:00pm **Case Study – Water Quality Issues in the Greater Everglades: Setting the Stage for Integrated Science** — *Nicholas G. Aumen, National Park Service, Everglades National Park; Richard Harvey, U.S. Environmental Protection Agency; Thomas D. Fontaine, South Florida Water Management District; Melissa Meeker, Florida Department of Environmental Protection*
- 4:00pm – 4:45pm **Case Study – Measuring Success: The Chesapeake Bay Experience** — *William Matuszeski, Director, Chesapeake Bay Program Office, U.S. Environmental Protection Agency*
- 4:45pm – 5:30pm **Case Study – Restoration Evaluation With Specific Expectations: The Kissimmee River** — *David H. Anderson, Center for Environmental Studies; Louis A. Toth, South Florida Water Management District*
- 6:00pm – 8:00pm Welcome Reception - *Watkins Lawn*

Tuesday, December 12, 2000

7:00am – 8:00am Early Morning Refreshments - *Orchid Atrium & Solarium South (Level One)*

Concurrent Session I: Ecology and Ecological Modeling - AM
River of Grass Ballroom – Salons D, G & H (Level One)

Conceptual Models and Everglades Restoration – Part I

Session Moderator: *John C. Ogden, South Florida Water Management District*

- 8:00am – 8:15am Opening Remarks – Session Overview
- 8:15am – 8:45am **An Overview of the Historical Everglades Ecosystem and Implications for Establishing Restoration Goals** — *Sujoy Roy* and *Steven A. Gherini*, Tetra Tech Inc. (p. 151)
- 8:45am – 9:15am **Restoration of Lake Okeechobee: Fixing the Headwaters of the Everglades** — *Alan Steinman*, South Florida Water Management District (p. 162)
- 9:15am – 9:45am **The Caloosahatchee Estuary Conceptual Model** — *Tomma Barnes*, South Florida Water Management District (p. 54)
- 9:45am – 10:15am **Conceptual Model Development-Uncertainty Identification and Research Prioritization for the Comprehensive Everglades Restoration Plan** — *Steve Davis*, South Florida Water Management District (p. 76)
- 10:15am – 10:30am Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
- 10:30am – 11:00am **Multiple Approaches for Evaluating Hydrology and Vegetation Monitoring Data to Demonstrate Wetland Restoration Success at the Disney Wilderness Preserve** — *Michael Duever*, South Florida Water Management District; *Jean McCollom*, The Nature Conservancy (p. 82)
- 11:00am – 11:30am **The Next 100 Years of Evolution of the Greater Everglades Ecosystem in Response to Anticipated Sea Level Rise: Nature, Extent and Causes** — *Harold R. Wanless*, *Peter Oleck*, University of Miami and *Lenore P. Tedesco*, *Bob E. Hall*, Indiana University/Purdue University at Indianapolis (p. 174)
- 11:30am – 1:00pm Lunch on Own

Tuesday, December 12, 2000

7:00am – 8:00am Early Morning Refreshments - *Orchid Atrium & Solarium South (Level One)*

Concurrent Session II: Ecology & Ecological Modeling – AM *River of Grass Ballroom – Salons F & I (Level One)*

Hydrologic Effects on Tree Islands

Session Moderator: *John C. Volin, Florida Atlantic University*

- 8:00am – 8:15am Opening Remarks – Session Overview
- 8:15am – 8:45am **Hydrologic and Topographic Gradient Effects on Woody Vegetation of Tree Islands in the Everglades Wildlife Management Area** — *Michael Anderson*, Florida Atlantic University, Division of Biological Science (p. 53)
- 8:45am – 9:15am **Investigating the Response of Tree Island Function to Increased Water Flow in a Southern Everglades Ecosystem** — *Tiffany Gann*, Florida International University (p. 90)
- 9:15am – 9:45am **Predicting the Response of Everglades Tree Islands to Changes in Water Management** — *Lorraine Heisler*, US Fish and Wildlife Service-A.R.M. Loxahatchee National Wildlife Refuge (p. 100)
- 9:45am – 10:15am **Tree Island Studies at the Arthur R. Marshall Loxahatchee National Wildlife Refuge** — *Laura A. Brandt*, U.S. Fish and Wildlife Service - A.R.M. Loxahatchee National Wildlife Refuge (p. 55)
- 10:15am – 10:30am Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
- 10:30am – 11:00am **Spatial Differences of Litter Fall and Basal Area of Tree Island Species in Water Conservation Area 3 in the Central Everglades** — *Michael S. Korvela, Fred H. Sklar, Carlos Coronado and Megan Jacoby*, South Florida Water Management District (p. 115)
- 11:00am – 11:30am **Trends In Tree-Island Development In The Florida Everglades** — *Debra Willard*, U.S. Geological Survey (p. 275)
- 11:30am – 1:00pm Lunch on Own

Tuesday, December 12, 2000

7:00am – 8:00am Early Morning Refreshments - *Orchid Atrium & Solarium South (Level One)*

Concurrent Session III: Ecology & Ecological Modeling – AM *Immokalee Room (Level Three)*

Estuaries and Adjacent Coastal Systems

Session Moderator: *Thomas J. Smith III, U.S. Geological Survey*

- 8:00am – 8:15am Opening Remarks – Session Overview
- 8:15am – 8:45am **The Effect of Enhanced Freshwater Inflow on Sedimentation and Elevation Change in Mangrove Forests of Southwestern Florida — *Donald Cahoon*, U. S. Geological Survey National Wetlands Research Center (p. 65)**
- 8:45am – 9:15am **Mangrove Prop-Root Fish Assemblages As Indicators Of Salinity Change — *George Dennis*, U. S. Geological Survey, Biological Resources Division, Florida Caribbean Science Center (p. 79)**
- 9:15am – 9:45am **Patterns in the Distribution and Abundance of Mangrove-Associated Fishes and Crustaceans along a Salinity Gradient in Shark River Everglades National Park — *Carole McIvor*, U. S. Geological Survey, Biological Resources Division, Florida Caribbean Science Center (p. 123)**
- 9:45am – 10:15am **Predicting Salinity In Florida Bay — *Bruce Wardlaw*, U. S. Geological Survey (p. 177)**
- 10:15am – 10:30am Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
- 10:30am – 11:00am **Sea-Level Rise And The Future Of Florida Bay In The Next Century — *Robert Halley*, U.S. Geological Survey (p. 94)**
- 11:00am – 11:30am **Manatee Aerial Surveys in South Florida — *Bruce B. Ackerman and Holly H. Edwards*, Florida Marine Research Institute, Florida Fish and Wildlife Conservation Commission, St. Petersburg, FL (p. 49)**
- 11:30am – 1:00pm Lunch on Own

Tuesday, December 12, 2000

7:00am – 8:00am Early Morning Refreshments - *Orchid Atrium & Solarium South (Level One)*

Concurrent Session IV: Water Quality & Water Treatment Technologies – AM *Chokoloskee Room (Level Two)*

Water Quality Treatment

Session Moderator: *Jennifer Jorge, South Florida Water Management District*

- 8:00am – 8:15am Opening Remarks – Session Overview
- 8:15am – 8:45am **Chemical Treatment: An Advanced Treatment Technology for Everglades Agricultural Area (EAA) Stormwater** — *Earl E. Shannon, T. C. Emenhiser and T. Horan, HSA Engineers and Scientists; J. L. Lopez and D. Campbell, South Florida Water Management District (p. 445)*
- 8:45am – 9:15am **Sequenced Vegetation Communities for Optimizing Phosphorus Removal within Stormwater Treatment Areas** — *Thomas DeBusk, Azurea, Inc. and DB Environmental, Inc.; Forrest Dierberg, John Juston and Scott Jackson, DB Environmental, Inc. (p. 431)*
- 9:15am – 9:45am **Nitrogen Reduction for Periphyton Stormwater Treatment Area (PSTA) Research in the Everglades Nutrient Removal Project Test Cells** — *Lori Wenkert, and Jana Majer Newman, South Florida Water Management District; Ron Clarke and Steve Gong, CH2M HILL (p. 450)*
- 9:45am – 10:15am **The Effects of Flow Rates on Phosphorus Uptake by Periphyton** — *Steve Simmons and John Volin, Florida Atlantic University (p. 447)*
- 10:15am – 10:30am Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
- 10:30am – 11:00am **First Year Total Phosphorus Mass Balance for STA Optimization Research in the Everglades Nutrient Removal Project North Site Test Cells** — *Tammy Lynch and Jana Majer Newman, South Florida Water Management District (p. 437)*
- 11:00am – 11:30am **The Effect of Drawdown and Presence of macrophytes on P Stability in Soils from the Everglades Nutrient Removal Project** — *John R. White and K. Ramesh Reddy, Wetland Biogeochemistry Laboratory, Soil and Water Science Department, University of Florida/IFAS (p. 452)*
- 11:30am – 1:00pm Lunch on Own

Tuesday, December 12, 2000

Concurrent Session I: Ecology and Ecological Modeling - PM *River of Grass Ballroom – Salons D, G & H (Level One)*

Conceptual Models and Everglades Restoration – Part II

Session Moderator: *Mike Duever, South Florida Water Management District*

- 1:00pm – 1:15pm Opening Remarks – Session Overview
- 1:15pm – 1:45pm **Using Adaptive Management to Assess Biotic Response to Environmental Change** — *Michael Runge*, U.S. Geological Survey, Patuxent Wildlife Research Center (p. 154)
- 1:45pm – 2:15pm **Regional Controls of Population and Ecosystem Dynamics in an Oligotrophic Wetland-dominated Coastal Landscape - Introducing a New Long Term Ecological Research (LTER) Project in the Coastal Everglades** — *Daniel L. Childers*, Florida International University (p. 68)
- 2:15pm – 2:45pm **Unexpected Responses in Ecosystem Restoration - A Case Study of Submerged Plants Turbid Water and a Strong Wind Event at Lake Okeechobee Florida** — *Karl Havens*, South Florida Water Management District (p. 98)
- 2:45pm – 3:00pm Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
- 3:00pm – 3:30pm **Escherian Features in the South Florida Landscape and Their Implications For Restoration** — *Patrick Kangas*, University of Maryland (p. 110)
- 3:30pm – 4:00pm **The Natural and Changing Role of Fire in South Florida Ecosystems** — *Jerome A. Jackson*, Florida Gulf Coast University (p. 107)

Population Studies: Invertebrates

- 4:00pm – 4:30pm **Life History, Ecology and Interactions of Everglades Crayfishes in Response to Hydrological Restoration** — *Noble Hendrix*, School of Aquatic Sciences and Fisheries-University of Washington (p. 101)
- 4:30pm – 5:00pm **Apple Snail Populations: Persistence in Hydrologically Fluctuating Environments** — *Phil Darby*, Biology Department, University of West Florida (p. 74)
- 5:00pm – 7:00pm Reception and Formal Poster Session I — *Ecology and Ecological Modeling - Mangrove Ballroom (Level One)*

Tuesday, December 12, 2000

Concurrent Session II: Ecology & Ecological Modeling – PM *River of Grass Ballroom – Salons F & I (Level One)*

Hydroperiod Effects on Animal and Plant Populations

Session Moderator: *William Loftus, U.S. Geological Survey at Everglades National Park*

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|-----------------|---|
| 1:00pm – 1:15pm | Opening Remarks – Session Overview |
| 1:15pm – 1:45pm | Impact of Hydroperiod on Planktonic Copepod Communities in Everglades National Park: Preliminary Results —
<i>M. Cristina Bruno</i> , South Florida Natural Resources Center - Everglades National Park (p. 62) |
| 1:45pm – 2:15pm | Relationships between Aquatic Diptera Communities and Hydropattern in the Rocky Glades-Everglades National Park —
<i>Richard E. Jacobsen</i> , South Florida Natural Resources Center (p. 108) |
| 2:15pm – 2:45pm | The Role of Seasonal Hydrology in the Dynamics of Fish Communities Inhabiting Karstic Wetlands of the Florida Everglades —
<i>Robert Kobza</i> , Florida International University, Department of Biological Sciences (p. 113) |
| 2:45pm – 3:00pm | Refreshment Break - <i>Orchid Atrium & Solarium South (Level One)</i> |
| 3:00pm – 3:30pm | The Effect of Physical Structures and Hydrologic Cycles on Population Genetic Structure of <i>Gambusia holbrooki</i> in the Florida Everglades —
<i>Thomas C. McElroy</i> , Florida International University (p. 122) |
| 3:30pm – 4:00pm | Encroachment by Cypress into Desiccated Areas with Historical Hydroperiods of Long Inundation and Deep Depths Is Not Reversed by Subsequent Rewatering —
<i>John Volin</i> , Florida Atlantic University, Division of Biological Science (p. 173) |
| 4:00pm – 4:30pm | Land Cover Change Detection in Southwest Florida and Application to the Florida Panther Habitat Model —
<i>Randy S. Kautz, Beth Stys, and Cory Morea</i> , Florida Fish and Wildlife Conservation Commission (p. 111) |
| 4:30pm – 4:45pm | Closing Remarks |
| 5:00pm – 7:00pm | Reception and Formal Poster Session I — <i>Ecology and Ecological Modeling - Mangrove Ballroom (Level One)</i> |

Tuesday, December 12, 2000

Concurrent Session III: Hydrology & Hydrological Modeling – PM *Immokalee Room (Level Three)*

Hydrologic Evaluation of Restoration Plans

Session Moderator: Thomas Van Lent, National Park Service at Everglades National Park

- 1:00pm – 1:15pm Opening Remarks – Session Overview
- 1:15pm – 1:45pm **Recipe for Restoration** — *Robert Johnson*, Everglades National Park
- 1:45pm – 2:15pm **Sensitivity of the Comprehensive Everglades Restoration Plan to Individual Project Components** — *Everett R. Santee, Jenifer Barnes, Raul Novoa, Kenneth C. Tarboton, Lehar M. Brion, Alaa Ali, Luis G. Cadavid, and Calvin J. Neidrauer*, South Florida Water Management District (p. 279)
- 2:15pm – 2:45pm **Uncertainty Analysis of Regional Simulation Models** — *Wasantha Lal, Paul Trimble*, South Florida Water Management District (p. 293)
- 2:45pm – 3:00pm Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
- 3:00pm – 3:30pm **Using a Salinity Model for Biscayne Bay to Assess Salinity Variations Resulting from Alterations in Freshwater Inflows** — *John D. Wang and Jiangang Luo*, University of Miami (p. 312)
- 3:30pm – 4:00pm **A Retrospective and Critical Review of Aquifer Storage and Recovery and Conceptual Frameworks of the Upper Floridan Aquifer in Southern Florida** — *Ronald S. Reese*, U.S. Geological Survey, Miami (p. 298)
- 4:00pm – 4:30pm **Spatial Simulations of Tree Islands as Ecosystem Indices for Everglades Restoration** — *Yegang Wu, Fred H. Sklar, Ken Rutchey, Weihe Guan, and Les Vilcheck*, South Florida Water Management District (p. 314)
- 4:30pm – 5:00pm **Sound-bite Hydrology** — *Richard Punnett*, U.S. Army, Corps of Engineers (p. 297)
- 5:00pm – 7:00pm Reception and Formal Poster Session I — *Ecology and Ecological Modeling - Mangrove Ballroom (Level One)*

Tuesday, December 12, 2000

Concurrent Session IV: Water Quality & Water Treatment Technologies – PM *Chokoloskee Room (Level Three)*

Water Quality Monitoring and Trends

Session Moderator: *Benjamin McPherson, U. S. Geological Survey*

- 1:00pm – 1:15pm Opening Remarks – Session Overview
- 1:15pm – 1:45pm **Geochemical Monitoring Of Restoration Progress** — *Kimberly Yates* and *Robert Halley*, U.S. Geological Survey (p. 453)
- 1:45pm – 2:15pm **An Analysis Of Changes In Basin-Wide And Farm-Scale Phosphorus Loading From The Everglades Agricultural Area Due To Implementation Of Best Management Practices** — *Randy McCafferty* and *William Baker*, South Florida Water Management District (p. 439)
- 2:15pm – 2:45pm **Characterization of Phosphorus Cycling and Speciation in the Northern Florida Everglades by High Resolution Mass Spectrometry** — *William T. Cooper* and *Jennifer Llewelyn*, Department of Chemistry; *William M. Landing*, Department of Oceanography; *Vincent J. M. Salters* and *Yang Wang*, Department of Geology and National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL (p. 429)
- 2:45pm – 3:00pm Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
- 3:00pm – 3:30pm **Water Quality Monitoring of Tidal River and Canal Systems in the Ten Thousand Islands Estuaries: Implications for Essential Fish Habitat and Watershed Dynamics** — *Matt Finn*, Huckleberry Fisheries; *Anne-Marie Eklund* and *Jennifer Schull*, National Marine Fisheries Service (p. 432)
- 3:30pm – 4:00pm **Water Quality Impact Analysis of Southwest Florida: Wetland Permitting Alternatives on Surface Water Quality** — *Terry L. Rice*, Florida International University; *Dennis J. Peters*, *Jeffrey Q. Rhodes* and *Paul Szerszen*, Science Applications International Corporation (SAIC) (p. 444)
- 4:00pm – 4:30pm **Nutrient and Sulfur Contamination in the South Florida Ecosystem: Synopsis of Phase I Studies and Plan for Phase II Studies** — *William H. Orem*, *Harry E. Lerch*, *Anne L. Bates*, *Margo Corum*, and *Marisa Chrisinger*, U.S. Geological Survey; *Robert A. Zielinski*, U.S. Geological Survey (p. 441)
- 4:30pm – 4:45pm Closing Remarks
- 5:00pm – 7:00pm Reception and Formal Poster Session I — *Ecology and Ecological Modeling - Mangrove Ballroom (Level One)*

Wednesday, December 13, 2000

7:00am – 8:00am Early Morning Refreshments - *Orchid Atrium & Solarium South (Level One)*

Concurrent Session I: Ecology and Ecological Modeling - AM
River of Grass Ballroom – Salons D, G & H (Level One)

Population Studies: Coldblooded Vertebrates

Session Moderator: Laura A. Brandt, U.S. Fish and Wildlife Service

- 8:00am – 8:15am Opening Remarks – Session Overview
- 8:15am – 8:45am **Hydrology and Fish Community Dynamics in the Florida Everglades: Perspectives from a 20-Year Study** — *Joel Trexler*, Florida International University Department of Biological Science (p. 169)
- 8:45am – 9:15am **Dispersal and Successional Patterns of the Fish Community of the Rockland Wetland Complex of Southern Florida** — *Bill Loftus*, U. S. Geological Survey, Biological Resources Division (p. 117)
- 9:15am – 9:45am **Trophic Interactions of Large-carnivorous and Small-omnivorous Fishes in Freshwater Marshes of the Florida Everglades** — *John Chick*, Illinois Natural History Survey (p. 67)
- 9:45am – 10:15am **Spatial and Stage-Structured Models of American Alligator Populations in Support of ATLSS** — *Jon Allen*, University of Florida, IFAS, Entomology & Nematology Department (p. 51)
- 10:15am – 10:30am Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
(Poster Session I displays MUST be removed by this time)
- 10:30am – 11:00am **An Assessment of Potential Contaminant Exposures and Effects for Alligators in the Greater Everglades Ecosystem** — *Timothy Gross*, U. S. Geological Survey, Biological Resources Division, Florida Caribbean Science Center (p. 93)
- 11:00am – 11:30am **American Alligator Nesting And Reproductive Success In Everglades National Park** — *George Dalrymple*, Everglades Research Group (p. 72)
- 11:00am – 1:00pm Poster Presenters to set up displays for Poster Session II
Mangrove Ballroom (Level One)
- 11:30am – 1:00pm Lunch on Own

Wednesday, December 13, 2000

7:00am – 8:00am Early Morning Refreshments - *Orchid Atrium & Solarium South (Level One)*

Concurrent Session II: Ecology and Ecological Modeling – AM *River of Grass Ballroom – Salons F & I (Level One)*

Everglades Macrophyte and Landscape Ecology

Session Moderator: *Robert Twilley, University of Louisiana at Lafayette*

- 8:00am – 8:15am Opening Remarks – Session Overview
- 8:15am – 8:45am **Patterns, Niches and Mechanisms in the Ridge and Slough Landscape: Implications for Restoration** — *Christopher McVoy*, South Water Florida Management District (p. 125)
- 8:45am – 9:15am **Vegetation: Environment Relationships and Water Management in Shark Slough-Everglades National Park** — *Michael Ross*, Florida International University (p. 150)
- 9:15am – 9:45am **Restoration of *Jacquemontia reclinata* to the South Florida Ecosystem** — *Jack Fisher*, Fairchild Tropical Garden (p. 86)
- 9:45am – 10:15am **Community Patterns of Seedling Recruitment After Summer Fire in Two Pine Rocklands** — *Suzanne Koptur*, Department of Biological Sciences, Florida International University (p. 114)
- 10:15am – 10:30am Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
(*Poster Session I displays MUST be removed by this time*)
- 10:30am – 11:00am **Dispersal, Reproduction and Physiological Ecology of Two Invasive Non-Indigenous Fern Species - *Lygodium microphyllum* and *Lygodium japonicum*** — *Michael Lott*, Florida Atlantic University, Division of Biological Science (p. 120)
- 11:00am – 11:30am **Seedling Dynamics Across a Mangrove - Sawgrass Ecotone in the Southwest Florida Everglades** — *Kevin Whelan*, ASci / USGS-BRD-Co/ SERC (p. 180)
- 11:00am – 1:00pm Poster Presenters to set up displays for Poster Session II
Mangrove Ballroom (Level One)
- 11:30am – 1:00pm Lunch on Own

Wednesday, December 13, 2000

7:00am – 8:00am Early Morning Refreshments - *Orchid Atrium & Solarium South (Level One)*

Concurrent Session III: Hydrology and Hydrological Modeling- AM
Immokalee Room (Level Three)

FLOW WORKSHOP: *How important is the flow for Everglades Restoration?*
Session Moderator: *Nicholas G. Aumen, National Park Service*

8:00am – 8:15am Opening Remarks – Session Overview

8:15am – 9:15am Brief overview by Workshop Panelist – **Christopher McVoy, Tom MacVicar, Randy VanZee, Steve Davis, Dan Childers and Peter Stone**

WORKSHOP QUESTIONS:

- **What were the historic patterns of flow in the greater Everglades both temporally and spatially?**
- **What is the linkage between flow and landscape patterns?**
- **How important is flow for restoration of the remnant greater Everglades and coastal ecosystems?**

9:15am – 10:15am **Discussion and Interactions between Panel Members**

10:15am – 10:30am Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
(Poster Session I displays MUST be removed by this time)

10:30am – 11:00am **Audience and Panel Discussion**

11:00am – 11:30am Closing remarks

11:00am – 1:00pm Poster Presenters to set up displays for Poster Session II
Mangrove Ballroom (Level One)

11:30am – 1:00pm Lunch on Own

Wednesday, December 13, 2000

7:00am – 8:00am Early Morning Refreshments - *Orchid Atrium & Solarium South (Level One)*

Concurrent Session IV: Water Quality and Water Treatment Technologies – AM *Chokoloskee Room (Level Two)*

Nutrient/Biology Interactions

Session Moderator: *Tom Crisman, University of Florida/IFAS, Center for Wetlands*

- 8:00am – 8:15am Opening Remarks – Session Overview
- 8:15am – 8:45am **Spatial Changes in Redox Conditions and Food Web Relations at Low and High Nutrient Sites in the Everglades** — *Carol Kendall, Steven R. Silva, and Cecily C. Y. Chang*, U. S. Geological Survey, Menlo Park, CA; *Robert F. Dias*, Old Dominion University; *Paul Garrison*, Wisconsin Department of Natural Resources; *Ted Lange*, Florida Fish and Wildlife Conservation Commission; *David P. Krabbenhoft*, U. S. Geological Survey; *Q. Jerry Stober*, U. S. Environmental Protection Agency (p. 434)
- 8:45am – 9:15am **Nutrients Sequestered in Microbial Mats Reflect Remote Source Water Quality in Everglades National Park** — *Evelyn E. Gaiser, Leonard J. Scinto, Krish Jayachandran, and Ronald D. Jones, Jennifer H. Richards, Daniel L. Childers, and Joel Trexler*, Florida International University (p. 433)
- 9:15am – 9:45am **Nutrient Ratios and the Eutrophication of South Florida Coastal Waters** — *Larry E. Brand* and *Maiko Suzuki Ferro*, University of Miami, RSMAS (p. 425)
- 9:45am – 10:15am **Salinity, Turbidity, Algal Blooms, and Seagrass Dieoff in Florida Bay – Spatial, Temporal, and Causal Relationships** — *Larry E. Brand* and *Maiko Suzuki Ferro*, University of Miami, RSMAS; *Thomas W. Schmidt*, South Florida Natural Resources Center, Everglades National Park (p. 427)
- 10:15am – 10:30am Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
(Poster Session I displays MUST be removed by this time)
- 10:30am – 11:00am **Factors Influencing the Dissolved Oxygen Profiles in the Northern Everglades** — *Panchabi Vaithyanathan* and *Curtis J. Richardson*, Wetland Center, Nicholas School of the Environment, Duke University (p. 449)
- 11:00am – 11:30am **Factors Influencing the Calcium Carbonate Precipitation in the Everglade Sloughs** — *Panchabi Vaithyanathan* and *Curtis J. Richardson*, Wetland Center, Nicholas School of the Environment, Duke University (p. 448)
- 11:00am – 1:00pm Poster Presenters to set up displays for Poster Session II
Mangrove Ballroom (Level One)
- 11:30am – 1:00pm Lunch on Own

Wednesday, December 13, 2000

Concurrent Session I: Ecology and Ecological Modeling - PM

River of Grass Ballroom – Salons D, G & H (Level One)

Population Studies: Birds

Session Moderator: Joseph Schaefer, University of Florida/IFAS, Center for Natural Resources

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| 1:00pm – 1:15pm | Opening Remarks – Session Overview |
| 1:15pm – 1:45pm | Is the Everglades a Demographic Sink for Wading Birds? — Peter Frederick , University of Florida, Department of Wildlife Ecology and Conservation (p. 88) |
| 1:45pm – 2:15pm | Linkages between the Snail Kite Population and Wetland Dynamics in a Highly Fragmented South Florida Hydroscape — Wiley M. Kitchens , U.S. Geological Survey-Florida Cooperative Fish and Wildlife Research Unit (p. 112) |
| 2:15pm – 2:45pm | The Role of Fire in Sustaining Populations of Cape Sable Seaside Sparrows Within the Southern Everglades — Julie Lockwood , University of California-Environmental Studies (p. 116) |
| 2:45pm – 3:00pm | Refreshment Break - <i>Orchid Atrium & Solarium South (Level One)</i> |
| 3:00pm – 3:30pm | The Sensitivity of an Endangered Species to Changes in Demographic and Landscape Level Parameters: an Individual-Based Model for the Cape Sable seaside sparrow (<i>Ammodramus maritimus mirabilis</i>) — John L. Curnutt , U. S. Geological Survey - Restoration Ecology Branch (p. 85) |
| 3:30pm – 4:00pm | Non-Breeding Season Ecology Of The Cape Sable Seaside Sparrow: Field Observations And Implications For Management — Joan Morrison , Department of Biology, Trinity College (p. 130) |
| 4:00pm – 4:30pm | Demonstrating the Destruction of the Habitat of the Cape Sable Seaside Sparrow — Stuart Pimm , Columbia University, Center for Environmental Research & Conservation (p. 137) |
| 4:30pm – 5:00pm | Reintroduction of Brown-headed Nuthatches and Eastern Bluebirds to Everglades National Park — Gary Slater and Kenneth D. Meyer , Avian Research and Conservation Institute, Inc.; <i>Skip Snow</i> , South Florida Natural Resources Center (p. 160) |
| 5:00pm – 5:15pm | Closing Remarks |
| 5:15 pm | Sessions Conclude and Evening on Own |

Wednesday, December 13, 2000

Concurrent Session II: Ecology and Ecological Modeling – PM

River of Grass Ballroom – Salons F & I (Level One)

Regional Environmental Monitoring and Assessment Program (REMAP)

Session Moderator: *Susan Gray, South Florida Water Management District*

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| 1:00pm – 1:15pm | REMAP – Opening Remarks – Session Overview |
| 1:15pm – 1:45pm | REMAP: Landscape Water Quality Gradients and Tissue Concentrations in the Everglades Ecosystem — <i>Jerry Stober</i> , United States Environmental Protection Agency, Region 4 SESD (p. 166) |
| 1:45pm – 2:15pm | REMAP: Soil Subsidence and Soil Preservation in the Public Everglades — <i>Daniel Scheidt</i> , United States Environmental Protection Agency (p. 157) |
| 2:15pm – 2:45pm | REMAP: Using Diatoms for Risk Assessment in the Everglades — <i>Evelyn Gaiser</i> , Southeast Environmental Research Center (p. 89) |
| 2:45pm – 3:00pm | Refreshment Break - <i>Orchid Atrium & Solarium South (Level One)</i> |
| 3:00pm – 3:30pm | REMAP: Macrophyte Species Distributions and Community Structure across the Everglades Ecosystem — <i>Jennifer H. Richards</i> , Department of Biological Sciences, Florida International University (p. 145) |
| 3:30pm – 4:00pm | REMAP: Leaf Morphology and Tissue Nutrients of Two Everglades Macrophytes with Respect to Soil Physiochemistry — <i>Christopher Ivey</i> and <i>Jennifer H. Richards</i> , Department of Biological Sciences, Florida International University (p. 144) |
| 4:00pm – 4:30pm | REMAP: Aerial Photo Vegetation Assessment in the Everglades Ecosystem — <i>Marguerite Madden</i> and <i>Roy Welch</i> , Center for Remote Sensing and Mapping Science (CRMS), University of Georgia (p. 121) |
| 4:30pm – 5:00pm | REMAP: Bioaccumulation of Mercury in the Everglades: Patterns in the Foodweb — <i>William Loftus</i> , U. S. Geological Survey, Biological Resources Division and <i>Joel Trexler</i> , Florida International University (p. 119) |
| 5:00pm – 5:30pm | REMAP: Conceptual Models and Path Analysis - Analyzing Large Scale Patterns in the South Florida Everglades Ecosystem — <i>Kent W. Thornton</i> , FTN Associates, Ltd. (p. 168) |
| 5:30pm – 6:00pm | REMAP: Policy and Management Implications from the Everglades Ecosystem Assessment Project — <i>Ron Jones</i> , Southeast Environmental Research Center, Florida International University (p. 167) |
| 6:00pm – 6:15pm | Closing Remarks |
| 6:15pm | Session Concludes and Evening on Own |

Wednesday, December 13, 2000

Concurrent Session III: Hydrology and Hydrological Modeling – PM *Immokalee Room (Level Three)*

Restoration Science – Hydrology

Session Moderator: Jayantha [Obey] Obeysekera, South Florida Water Management District

- 1:00pm – 1:15pm Opening Remarks – Session Overview
- 1:15pm – 1:45pm **(Invited) Overview of the Science Needs for Restoration** — *Carl Goodwin*, U.S. Geological Survey
- 1:45pm – 2:15pm **Concepts and Algorithms for an Integrated Surface Water/Groundwater Model for Natural Areas and Their Application** — *Lahar M. Brion, Sharika U.S. Senarath, A. M. Wasantha Lal, Mark Belnap, Randy J. Van Zee*, South Florida Water Management District (p. 280)
- 2:15pm – 2:45pm **Development of Numerical Tools for Defining Wetland Hydrologic Processes: SICS and TIME** — *Eric D. Swain*, U.S. Geological Survey (p. 304)
- 2:45pm – 3:00pm Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
- 3:00pm – 3:30pm **Quantification Of Ground-Water Seepage Beneath Levee 31N, Miami-Dade County, Florida** — *Mark Nemeth and Helena Solo-Gabriele*, University of Miami (p. 301)
- 3:30pm – 4:00pm **Effect of Water Management in the Everglades Nutrient Removal Area (ENR) on Hydrologic Interactions with Groundwater** — *Jungyill Choi*, and *Judson W. Harvey*, U.S. Geological Survey, Reston (p. 282)
- 4:00pm – 4:30pm **Ground-Water Discharge to Biscayne Bay** — *Christian Langevin*, U.S. Geological Survey (p. 294)
- 4:30pm – 5:00pm **Simulation of Anthropogenic Impacts to the Regional Climatic Patterns of Central and Southern Florida** — *Craig A. Mattocks*, Scientific Software Solutions, Inc., and *Paul Trimble*, South Florida Water Management District (p. 307)
- 5:00pm – 5:30pm **Object-Oriented Hydrologic Simulation Models for South Florida** — *Randy Van Zee, Mark Belnap, A. M. Wasantha Lal*, Hydrologic Systems Modeling Division, South Florida Water Management District (p. 311)
- 5:30pm Sessions Conclude and Evening on Own

Wednesday, December 13, 2000

Concurrent Session IV: Ecology and Ecological Modeling - PM *Chokoloskee Room (Level Two)*

Florida Bay Indicators

Session Moderator: *Joel Trexler, Florida International University*

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|-----------------|---|
| 1:00pm – 1:15pm | Opening Remarks – Session Overview |
| 1:15pm – 1:45pm | Historical Reconstruction of Seagrass Distribution-Water Quality and Salinity Using Molluscan Indicator Species — <i>G. Lynn Brewster-Wingard</i>, U.S. Geological Survey (p. 57) |
| 1:45pm – 2:15pm | Ostracode Shell Chemistry as a Paleosalinity Proxy in Florida Bay — <i>Gary Dwyer</i>, Duke University (p. 84) |
| 2:15pm – 2:45pm | Historical Trends in Epiphytal Ostracodes from Florida Bay: Implications for Seagrass and Macro-benthic Algal Variability — <i>T. M. Cronin</i>, U.S. Geological Survey (p. 71) |
| 2:45pm – 3:00pm | Refreshment Break - <i>Orchid Atrium & Solarium South (Level One)</i> |
| 3:00pm – 3:30pm | Water Birds in Florida Bay: Conspicuous Ecological Indicators? — <i>Joan Browder</i>, Southeast Fisheries Science Center (p. 60) |
| 3:30pm – 4:00pm | Diatoms as Indicators of Environmental Change in Sediment Cores from Northeastern Florida Bay — <i>J. K. Huvane</i>, U.S. Geological Survey (p. 105) |
| 4:00pm – 4:30pm | Ecological Controls on Benthic Foraminifer Distributions in Biscayne Bay, Florida — <i>Scott Ishman</i>, Southern Illinois University (p. 106) |
| 4:30pm – 5:00pm | The Potential for Filter Feeding Sponges to Control Phytoplankton Blooms in Florida Bay — <i>Bradley J. Peterson</i>, Florida International University, Department of Biological Sciences (p. 135) |
| 5:00pm – 5:30pm | Nutrient Cycling and Transport at the Florida Bay - Everglades Boundary — <i>David T. Rudnick</i>, South Florida Water Management District (p. 152) |
| 5:30pm | Sessions Conclude and Evening on Own |

Thursday, December 14, 2000

7:00am – 8:00am Early Morning Refreshments - *Orchid Atrium & Solarium South (Level One)*

Concurrent Session I: Ecology and Ecological Modeling - AM *River of Grass Ballroom – Salons D, G & H (Level One)*

Population Studies:Mammals

Session Moderator: Wiley M. Kitchens, U.S. Geological Survey, Florida Fish & Wildlife Coop Unit at the University of Florida

8:00am – 8:15am Opening Remarks – Session Overview

8:15am – 8:45am **Movements and Habitat Use by Florida Manatees in the Everglades Ecosystem** — *Jim Reid*, U. S. Geological Survey (p. 140)

8:45am – 9:15am **The Influence of Habitat on the Distribution and Abundance of Small Mammals in the Southwest Everglades** — *Diane Riggs*, Florida International University (p. 148)

9:15am – 9:45am **Modeling Spatial Use Patterns of White-tailed Deer in the Florida Everglades** — *Christine Hartless*, Department of Wildlife Ecology and Conservation, University of Florida (p. 96)

9:45am – 10:15am **Corridors, Landscape Linkages and Conservation Planning for the Florida Panther (*Puma concolor coryi*)** — *Rebecca P. Meegan* and *David S. Maehr* University of Kentucky and *Thomas S. Hoctor*, University of Florida (p. 127)

10:15am – 10:30am Refreshment Break - *Orchid Atrium & Solarium South (Level One)*

Quantitative Modeling – Part I

10:30am – 11:00am **Application of the Everglades Landscape Model in Restoration Initiatives** — *Carl Fitz*, South Florida Water Management District (p. 87)

11:00am – 11:30am **An Overview of the Across Trophic Level System Simulation Program** — *Donald DeAngelis*, U. S. Geological Survey, Biological Resources Division, Florida Caribbean Science Center-University of Miami (p. 77)

11:30am – 1:00pm Lunch on Own

Thursday, December 14, 2000

7:00am – 8:00am Early Morning Refreshments - *Orchid Atrium & Solarium South (Level One)*

Concurrent Session II: Ecology and Ecological Modeling – AM *River of Grass Ballroom – Salons F & I (Level One)*

Nutrients, Soils, and Biotic Communities – Part I

Session Moderator: *Sue Newman, South Florida Water Management District*

- 8:00am – 8:15am Opening Remarks – Session Overview
- 8:15am – 8:45am **Linkages between Microbial Community Composition and Biogeochemical Processes along Nutrient Gradients in the Everglades Agricultural Areas** — *Andrew Ogram*, University of Florida (p. 134)
- 8:45am – 9:15am **The Ecological Basis for a Phosphorus (P) Threshold in the Everglades: Directions for Sustaining Ecosystem Structure and Function** — *Curtis Richardson*, Duke University Wetland Center (p. 147)
- 9:15am – 9:45am **Macroinvertebrate Response to Nutrient Enrichment in the Florida Everglades** — *Robert Shuford III*, South Florida Water Management District (p. 159)
- 9:45am – 10:15am **The Effect of Fish Detritus on an Oligotrophic Everglades Marsh** — *Chris Stevenson*, Florida International University (p. 165)
- 10:15am – 10:30am Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
- 10:30am – 11:00am **Slough Macrophyte Community Changes In The Northern Everglades - Influence Of P Enrichment And Hydrology** — *Panchabi Vaithyanathan*, Duke University (p. 172)
- 11:00am – 11:30am **Microbial Indicators of Phosphorus Enrichment in Everglades Soil** — *A. L. Wright*, Wetland Biogeochemistry Laboratory, Soil and Water Science Department, University of Florida (p. 183)
- 11:30am – 1:00pm Lunch on Own

Thursday, December 14, 2000

7:00am – 8:00am Early Morning Refreshments - *Orchid Atrium & Solarium South (Level One)*

Concurrent Session III: Hydrology and Hydrological Modeling - AM *Immokalee Room (Level Three)*

Hydrologic Science for Restoration

Session Moderator: *Carl Goodwin, U.S. Geological Survey*

- 8:00am – 8:15am Opening Remarks – Session Overview
- 8:15am – 8:45am (Invited) **Operation of the Everglades System: Present and Future** — *Cal Neidrauer*, South Florida Water Management District
- 8:45am – 9:15am **Topography of the Florida Everglades** — *Gregory Desmond, Edward Cyran, Vince Caruso, Gordon Shupe, and Robert Glover*, U.S. Geological Survey, Reston (p. 284)
- 9:15am – 9:45am **Quantity, Timing, and Distribution of Freshwater Flows into Northeastern Florida Bay** — *Clinton D. Hittle*, U.S. Geological Survey (p. 289)
- 9:45am – 10:15am **Regional Evaluation of Evapotranspiration in the Everglades** — *Edward R. German*, U.S. Geological Survey, Altamonte Springs (p. 287)
- 10:15am – 10:30am Refreshment Break - *Orchid Atrium & Solarium South (Level One)*
(*Poster Session II displays MUST be removed by this time*)
- 10:30am – 11:00am **Long-Term Daily Evapotranspiration Estimation in South Florida** — *Kenneth C. Tarboton*, South Florida Water Management District (p. 306)
- 11:00am – 11:30am **Determination of Resistance Coefficients for Flow through Submersed and Emergent Vegetation in the Florida Everglades** — *Jonathan K. Lee, Harry L. Jenter, and Hannah M. Visser*, U.S. Geological Survey, Reston, VA; *Lisa Roig*, Roig and Associates, Reston, VA (p. 291)
- 11:30am – 1:00pm Lunch on Own

Thursday, December 14, 2000

7:00am – 8:00am Early Morning Refreshments - *Orchid Atrium & Solarium South (Level One)*

Concurrent Session IV: Social and Human Sciences - AM *Chokoloskee Room (Level Two)*

Characteristics of the South Florida Community

Session Moderator: *Daniel Suman, University of Miami, RSMAS-Division of Marine Affairs & Policy*

8:00am – 8:15am Opening Remarks—*Walter (Tony) Rosenbaum, University of Florida*
– Session Overview

8:15am – 8:30am **The Human Side of Everglades Restoration** — *Carolyn A. Dekle,*
South Florida Regional Planning Council (p. 404)

8:30am – 8:45am **Space, Place, and Environmental Attitudes in South Florida** —
Hugh Gladwin and *Elena Sabogal,* Florida International University
(p. 406)

8:45am – 9:00am **Integrating Environmental Justice Into The Comprehensive
Everglades Restoration Master Program Management Plan** —
Bonnie Kranzer, Governor’s Commission for Everglades; and *Richard
David Gragg III,* Center for Environmental Equity and Justice,
Environmental Sciences Institute, Florida A&M University (p. 407)

9:00am – 9:15am **The 8 1/2 Square Mile Area: A Case Study of the Social Impacts of
Everglades Restoration** — *Daniel Suman,* Rosenstiel School of
Marine and Atmospheric Science, University of Miami (p. 416)

9:15am – 10:15am Discussion / Q&A with Speakers

10:15am – 10:30am Refreshment Break - *Orchid Atrium & Solarium South (Level One)*

Land Use and Restoration Policy Development and Analysis

Session Moderator: *Ken Lipartito, Florida International University*

10:30am – 10:45am **Land-use Changes and Flood Protection Policies in South Florida**
— *Mahadev Bhat, Ken Lipartito and Irma Alonso,* Florida
International University (p. 400)

10:45am – 11:00am **From Boon to Affliction: How the *Melaleuca quinquenervia*
Became a Weed** — *Jorge Schmidt,* Florida International University,
Miami, FL (p. 415)

11:00am – 11:15am **A Model for Ecosystem Management Through Land-Use
Planning: Understanding the Mosaic of Protection Across
Ecological Systems in Southern Florida** — *Samuel Brody,*
University of North Carolina (p. 401)

11:15am – 11:30am Discussion / Q&A with Speakers

11:30am – 1:00pm Lunch on Own

Thursday, December 14, 2000

Concurrent Session I: Ecology and Ecological Modeling - PM *River of Grass Ballroom – Salons D, G & H (Level One)*

Quantitative Modeling – Part II

Session Moderator: *Lou Gross, University of Tennessee*

- 1:00pm – 1:15pm Opening Remarks – Session Overview
- 1:15pm – 1:45pm **A Comparison of Ecosystem Attributes among Four South Florida Wetland Habitats** — *Johanna Heymans*, University of British Columbia Fisheries Centre (p. 104)
- 1:45pm – 2:15pm **The Utility of Mangrove Unit Models in the Greater Everglades Ecosystem Restoration Program** — *Robert Twilley*, University of Louisiana at Lafayette (p. 170)
- 2:15pm – 2:45pm **Population Modeling of the American Crocodile (*Crocodylus acutus*) for Conservation and Management in South Florida** — *Paul Richards*, University of Miami, Department of Biology (p. 146)
- 2:45pm – 3:00pm Refreshment Break- *Orchid Atrium & Solarium South (Level One)*
- 3:00pm – 3:30pm **Modeling the Everglade Snail Kite** — *Wolf Mooij*, Netherlands Institute of Ecology, Centre for Limnology (p. 129)
- 3:30pm – 4:00pm **Sensitivity and Uncertainty Analysis of a Spatial-Explicit Fish Population Model Applied to Everglades Restoration** — *René Salinas*, University of Tennessee (p. 156)
- 4:00pm – 4:30pm **ALFISHES: A Size-Structured and Spatially-Explicit Model for Predicting the Impact of Hydrology on the Resident Fishes of the Everglades Mangrove Zone of Florida Bay** — *Jon Cline*, The Institute for Environmental Modeling (p. 70)
- 4:30pm – 5:00pm **Development of a GIS Tool to Visualize and Analyze ATLSS Models Result for Resource Managers** — *Antonio Martucci*, Johnson Controls World Services, Inc. at USGS-National Wetlands Research Center, *James B. Johnston* and *Steve Hartley*, USGS-National Wetlands Research Center (p. 109)
- 5:00pm – 7:00pm Reception and Formal Poster Session II — *Hydrology & Hydrological Modeling, Information Systems, Social & Human Sciences, Water Quality & Water Treatment Technologies*
Mangrove Ballroom (Level One)

Thursday, December 14, 2000

Concurrent Session II: Ecology and Ecological Modeling – PM

River of Grass Ballroom – Salons F & I (Level One)

Nutrients, Soils, and Biotic Communities - Part II

Session Moderator: *Curtis J. Richardson, Duke University, Durham, NC*

- 1:00pm – 1:15pm Opening Remarks – Session Overview
- 1:15pm – 1:45pm **Ecological Exchanges between a Mangrove Creek and Surrounding Wetlands in the Southern Everglades — *Enrique Reyes*, Coastal Ecology Institute, Louisiana State University (p. 143)**
- 1:45pm – 2:15pm **Responses of Periphyton, Water Lily, and Soil to P Enrichment of an Everglades Slough — *Sue Newman, P.V. McCormick, and S.L. Miao*, South Florida Water Management District (p. 132)**
- 2:15pm – 2:45pm **Hydrology, Nutrient Supply and the Lower Trophic Levels of the Everglades Marshes — *Quan Dong*, Florida International University (p. 80)**
- 2:45pm – 3:00pm Refreshment Break - *Orchid Atrium & Solarium South (Level One)*

Concurrent Session II: Information Systems – PM

River of Grass Ballroom – Salons F & I (Level One)

Technology Update

Session Moderator: *Gail Clement, Florida International University & U.S. Geological Survey*

- 3:00pm – 3:30pm **Everglades National Park Scientific Database: Lessons Learned in Developing an Integrated Relational Database Using Historical Data — *Darrell Tidwell*, Everglades National Park (p. 374)**
- 3:30pm – 4:00pm **South Florida Ecosystem Database Access — *Roy Sonenshein*, U.S. Geological Survey (p. 373)**
- 4:00pm – 4:30pm **Some Lessons from the ATLSS Project: Modeling and Everglades Restoration — *Louis J. Gross*, The Institute for Environmental Modeling- University of Tennessee (p. 372)**
- 4:30pm – 5:00pm **The Data Web Pages of the Tides and Inflows in the Mangroves of the Everglades (TIME) Project — *Michael Duff*, U.S. Geological Survey (p. 371)**
- 5:00pm – 7:00pm Reception and Formal Poster Session II — *Hydrology & Hydrological Modeling, Information Systems, Social & Human Sciences, Water Quality & Water Treatment Technologies Mangrove Ballroom (Level One)*

Thursday, December 14, 2000

Concurrent Session III: Hydrology and Hydrological Modeling – PM *Immokalee Room (Level Three)*

Multi-objective management of the Greater Everglades System

Session Moderator: *Hanley K. [Bo] Smith, U. S. Army Corps of Engineers*

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|-----------------|---|
| 1:00pm – 1:15pm | Opening Remarks – Session Overview |
| 1:15pm – 1:45pm | (Invited) Meetings The Needs Of The Urban And Agricultural Systems — <i>Patrick Gleason</i> , South Florida Water Management District |
| 1:45pm – 2:15pm | Five-year Incremental Analysis of the Lower East Coast Regional Water Supply Plan — <i>Jayantha Obeyseker</i> , <i>Everett R. Santee</i> , <i>Kenneth C. Tarboton</i> , <i>Luis G. Cadavid</i> , <i>Lehar Brion</i> , <i>Raul Novoa</i> , South Florida Water Management District (p. 296) |
| 2:15pm – 2:45pm | Establishing Minimum Water Levels for the Everglades — <i>Joel VanArman</i> and <i>David Swift</i> , South Florida Water Management District (p. 309) |
| 2:45pm – 3:00pm | Refreshment Break - <i>Orchid Atrium & Solarium South (Level One)</i> |
| 3:00pm – 3:30pm | USDA-Everglades Agro-hydrology Computer Model - Interaction of Surface and Subsurface Water Flow — <i>M. Reza Savabi</i> , USDA-ARS, SHRS, Miami (p. 300) |
| 3:30pm – 4:00pm | Operational Planning for Everglades Restoration — <i>Luis Cadavid</i> , <i>Paul Trimble</i> , <i>Alaa Ali</i> , <i>Cary White</i> and <i>Jayantha Obeyseker</i> , South Florida Water Management District (p. 281) |
| 4:00pm – 4:30pm | The ATLSS High Resolution Topology and High Resolution Hydrology Models — <i>Scott M. Duke-Sylvester</i> and <i>Louis J. Gross</i> , University of Tennessee (p. 286) |
| 4:30pm – 4:45pm | Closing Remarks |
| 5:00pm – 7:00pm | Reception and Formal Poster Session II — <i>Hydrology & Hydrological Modeling, Information Systems, Social & Human Sciences, Water Quality & Water Treatment Technologies - Mangrove Ballroom (Level One)</i> |

Thursday, December 14, 2000

Concurrent Session IV: Social and Human Sciences - PM

Chokoloskee Room (Level Two)

Behavioral Methods of Restoration Planning and Management

Session Moderator: J. Walter Milton, University of Central Florida and University of Florida

- 1:00pm – 1:15pm Opening Remarks—**Bob Leeworthy**, U.S. Dept. of Commerce, NOAA, – Session Overview
- 1:15pm – 1:30pm **Forecasting the Human Population of South Florida: The State of the Art and Directions for the Future** — *Alice L. Clarke*, Florida International University (p. 403)
- 1:30pm – 1:45pm **Measuring the Economic Benefits of Everglades Ecosystem Restoration** — *J. Walter Milton*, University of Central Florida (p. 413)
- 1:45pm – 2:00pm **Adaptive Learning in Ecological Policy and Management** — *Clyde F. Kiker*, University of Florida / IFAS, Food and Resource Economics Department (p. 408)
- 2:00pm – 2:45pm Discussion / Q&A with Speakers
- 2:45pm – 3:00pm Refreshment Break - *Orchid Atrium & Solarium South (Level One)*

Policy Making Processes for Restoration

Session Moderator: Frank Mazzotti, University of Florida/IFAS, Center for Natural Resources – South Florida

- 3:00pm – 3:15pm **Ways to Make Science More Usable for Policy Makers and Managers in Greater Everglades Ecosystem Restoration and Management** — *Frank J. Mazzotti*, University of Florida (p. 411)
- 3:15pm – 3:30pm **A Strategic Plan for Everglades Restoration: Defining Success - The Marshall Plan** — *John Arthur Marshall*, Arthur R. Marshall Foundation (p. 410)
- 3:30pm – 3:45pm **Environmental Decisionmaking by Stakeholder Consensus** — *Michael R. Bauer*, National Wildlife Federation (p. 399)
- 3:45pm – 4:30pm Discussion / Q&A with Speakers
- 4:30pm – 4:45pm Closing Remarks
- 5:00pm – 7:00pm Reception and Formal Poster Session II — *Hydrology & Hydrological Modeling, Information Systems, Social & Human Sciences, Water Quality & Water Treatment Technologies*
Mangrove Ballroom (Level One)

Friday, December 15, 2000

7:30am – 8:30am Early Morning Refreshments - *Orchid Atrium & Solarium South (Level One)*

Closing Concurrent Sessions: Critical Needs for *Measuring Success*

Five Concurrent Sessions: Setting the *GEER* in Motion (Moderated by Topic Chairs)

8:30am – 9:30am **Topic Discussion Charge: Define Critical Immediate (2-year) and Near-Term (5-year) Science and Technical Needs**

Concurrent Session I: Ecology & Ecological Modeling

River of Grass Ballroom – Salons D, G & H (Level One)

Panel Members:

Donald L. DeAngelis, Ph.D., Topic Chair, U.S. Geological Survey

Thomas Armentano, Ph.D., National Park Service, Everglades National Park

Susan Gray, Ph.D., South Florida Water Management District

Concurrent Session II: Hydrology & Hydrological Modeling

Immokalee Room (Level Three)

Panel Members:

Aaron Higer, Topic Chair, U.S. Geological Survey

Jayantha (Obey) Obeysekera, Ph.D., South Florida Water Management District

Thomas Van Lent, Ph.D., National Park Service, Everglades National Park

Concurrent Session III: Information Systems

Goodland Room (Level Two)

Panel Members:

Gail Clement, Topic Chair, Florida International University

David Buker, National Park Service, Everglades National Park

Roy Sonenshein, U.S. Geological Survey

Concurrent Session IV: Social & Human Sciences

Chokoloskee Room (Level Two)

Panel Members:

Bonnie Kranzer, Ph.D., AICP, Topic Chair, Exec. Director,
Governor's Commission for the Everglades

Mahadev Bhat, Ph.D., Florida International University

Concurrent Session V: Water Quality & Water Treatment Technologies

River of Grass Ballroom – Salons F & I (Level One)

Panel Members:

Nicholas G. Aumen, Ph.D., Topic Chair, National Park Service, Everglades National Park

Thomas D. Fontaine, Ph.D., South Florida Water Management District

Jennifer Jorge, Ph.D., South Florida Water Management District

Friday, December 15, 2000 *(continued)*

Closing Plenary Session I: Critical Needs for *Measuring Success* — Summary Presentation and Brief Discussion of Each Topic

Session Moderator: *G. Ronnie Best, PWS, Conference Chair, U.S. Geological Survey*

Panel Members: *Topic Chairs and Co-Chairs*

- 9:30am – 9:45am **Ecology & Ecological Modeling** *(DeAngelis, Armentano, Gray)*
- 9:45am – 10:00am **Hydrology & Hydrological Modeling** *(Higer, Obeysekera, Van Lent)*
- 10:00am – 10:15am **Information Systems** *(Clement, Buker, Sonenshein)*
- 10:15am – 10:30am Refreshment Break
- 10:30am – 10:45am **Social & Human Systems** *(Kranzer, Bhat)*
- 10:45am – 11:00am **Water Quality & Water Treatment Technologies** *(Aumen, Fontaine, Jorge)*

Closing Plenary Session II: Critical Needs for *Measuring Success* — Enhancing the Greater Everglades Ecosystem Conceptual Model

11:00am – 12:00pm **Panel and Audience Discussion**

Session Moderator: *G. Ronnie Best, PWS, Conference Chair, U.S. Geological Survey*

Co-Moderator and Panel Lead: *John C. Ogden, SCT Co-Chair, South Florida Water Management District*

Panelists: *Steering Committee and Topic Chairs*

G. Ronnie Best, Ph.D., PWS, Conference Chair, U.S. Geological Survey

Robert Johnson, National Park Service, Everglades National Park

Frank Mazzotti, Ph.D., Director, University of Florida/IFAS, Center for Natural Resources – South Florida

John C. Ogden, South Florida Water Management District

K. Ramesh Reddy, Ph.D., Graduate Research Professor and Chair, Soil and Water Science Department, University of Florida/IFAS

Hanley (Bo) K. Smith, Ph.D., US Army Corps of Engineers

Donald L. DeAngelis, Ph.D., Topic Chair, U.S. Geological Survey

Aaron Higer, Topic Chair, U.S. Geological Survey

Gail Clement, Topic Chair, Florida International University

Bonnie Kranzer, Ph.D., AICP, Topic Chair, Exec. Director, Governor's Commission for the Everglades

Nicholas G. Aumen, Ph.D., Topic Chair, National Park Service, Everglades National Park

12:00pm Conference Concludes — *Have a Safe Trip Home!*

