

## **BASIS- 4**

### **THE FOURTH TAMPA BAY AREA SCIENTIFIC AND INFORMATION SYMPOSIUM**

**Monday, October 27 - Thursday, October 30, 2003**  
**Sunsree Resort Conference Center**

#### **DRAFT AGENDA** **August 19, 2003 Version**

#### **Monday, October 27<sup>th</sup>**

9:00 a.m. - noon Registration and poster set up

Lunch available at the Sunsree Resort or nearby (not included in registration fee)

#### **BASIS 4 WELCOME**

1:00 - 1:30 p.m. Welcome and Keynote Address

#### **Generations of Science and Management in Tampa Bay**

Dr. Ernie Estevez, Mote Marine Laboratory

#### **FISH AND WILDLIFE**

P. Carlson, Session Chair

1:30 - 1:45 Overview of manatee and turtle population status in Tampa Bay.  
E. Haubold (FWC Florida Marine Research Institute)

1:45 - 2:00 Community-based manatee protection in Tampa Bay.  
P. Leasure (Pinellas County) and N. Holland (Tampa Bay Estuary Program)

2:00 - 2:15 Status of coastal bird populations of the Tampa Bay System  
R. Paul and A. Paul (Audubon)

2:15 - 2:45 Comparison of fish and macroinvertebrate communities in six Tampa Bay  
tributaries  
T. MacDonald, T.S. Tsou and R.H. McMichael (FWC Florida Marine Research  
Institute)

2:45 – 3:00 Populations of juvenile and small-adult fishes in Tampa Bay: A decadal  
perspective  
E. Matheson, R.H. McMichael, Jr., D.L. Leffler and T.C. MacDonald (FWC  
Florida Marine Research Institute)

3:00 – 3:15 Acoustic telemetry: Its application to assess the feasibility of stock enhancement  
of red drum in Tampa Bay.  
C. Neidig (Mote Marine Laboratory)

3:15 – 3:30 **BREAK**

### **INVASIVE SPECIES**

N. Holland, Session Chair

3:30 – 4:00 Survey of non-indigenous species in Tampa Bay  
P. Baker (University of Florida Department of Fisheries and Aquatic Sciences)

4:00 – 4:30 Ecology and distribution of Asian Green Mussel (*Perna viridis*) in Tampa Bay  
N. Smith (Eckerd College)

4:30 – 5:00 The exotic armored catfishes (Loricariidae) and *Hoplosternum littorale*  
(Callichthyidae) in Florida, particularly the Hillsborough River  
R. Ruiz-Carus and H. J. Grier (FWC Florida Marine Research Institute)

### **Evening Reception and Poster Viewing**

5:30 – 7:00 Evening Reception and poster viewing  
Sponsored by Mote Marine Laboratory

### **Tuesday, October 28<sup>th</sup>**

### **WATER AND SEDIMENT QUALITY, WATER QUANTITY, and ATMOSPHERIC DEPOSITION**

A. Janicki, Session Chair

8:15 – 8:30 Introduction  
A. Janicki (Janicki Environmental, Inc.)

8:30 – 9:00 A comparison of water quality and the factors that influence water quality in the segments that comprise Tampa Bay  
A. Janicki (Janicki Environmental, Inc), J.O.R. Johansson (City of Tampa Bay Study Group), A. Squires (Pinellas County Department of Environmental Management), R. Boler (Environmental Protection Commission of Hillsborough County), and R. Brown (Department of Environmental Management, Manatee County)

9:00 – 9:20 Biomass shifts in phytoplankton, macroalgae, and seagrass with reduced nitrogen loading rates to Hillsborough Bay, Tampa Bay, FL  
J.O.R. Johansson (City of Tampa Bay Study Group)

- 9:20 – 9:40 Water quality in the tidal reaches of Hillsborough County rivers and streams  
G. Morrison and R. Boler (Environmental Protection Commission of Hillsborough County)
- 9:40 – 10:00 Effects of entrainment and temperature increase on phytoplankton: a novel use of HPLC pigment analyses and particle size analysis  
J. Culter, J. M. Sprinkle and G. Kirkpatrick (Mote Marine Laboratory)
- 10:20 – 10:40 Break
- 10:40 – 11:00 Assessing Pinellas County surface water quality using a probabilistic design  
K. H. Levy, A. Squires and M. Flock (Pinellas County Department of Environmental Management), D. Wade and A. Janicki (Janicki Environmental, Inc.)
- 11:00 – 11:20 Developing nutrient loading limits for Bishop Harbor from the former Piney Point phosphate facility  
K. Hackett, A. Janicki, J. R. Pribble, D. Wade (Janicki Environmental, Inc.)
- 11:20 – 11:50 Sediment quality issues in Tampa Bay  
S. Grabe (EPCHC), D. Wade (Janicki Environmental, Inc), and D. McDonald (McDonald Environmental, LLD)
- 11:50 – 12:10 Development of a benthic quality index focused as a management tool in establishing and monitoring sediment quality targets for the Tampa Bay estuary  
K. J. Malloy, D. Wade, A. Janicki (Janicki Environmental, Inc) and S. Grabe (Environmental Protection Commission of Hillsborough County)
- 12:10 – 12:30 Benthic nutrient fluxes in Tampa Bay  
P. Carlson, L. Yarbrow, D. Saindon, A. Ketron and H. Arnold (FWC Florida Marine Research Institute)
- 12:30 – 1:30 Lunch on site (box or buffet)
- 1:30 – 2:00 Views on some of the key hydrodynamic and hydrologic characteristics of Tampa Bay  
M. Luther (USF College of Marine Science) and S. Flannery (Southwest Florida Water Management District)
- 2:00 – 2:20 Tampa Bay Water's Hydrobiological Monitoring Program  
R. McConnell (Tampa Bay Water), D. Robison (PBS&J) and A. Janicki (Janicki Environmental, Inc.)
- 2:20 – 2:40 A hydrobiological comparison of the Alafia River, Hillsborough River, and Tampa Bypass Canal

D. Robison (PBSJ) and R. McConnell (Tampa Bay Water)

- 2:40 – 3:00 A revised integrated hydrologic model for water supply management in the Tampa Bay region  
E.Z. Hosseinipour and J.Geurink (Tampa Bay Water)
- 3:00- 3:20 Near-term forecasting of surface water supplies from the Hillsborough River and Tampa Bypass Canal system  
J. Lantrip (Tampa Bay Water), M. Griffin (CH2M HILL) and A. Aly (INERA Inc.)
- 3:20- 3:50 Break
- 3:50 – 4:10 An integrated observing and modeling system for Tampa Bay  
M. Luther, B. Galperin, S.D. Meyers, S.A. Gilbert, V. Subramanian, and L. Wetzell (University of South Florida College of Marine Science), M. Vincent (NOAA National Ocean Service), M. Hansen (USGS)
- 4:10 – 4:30 Ecological criteria for the determination of minimum freshwater inflows for the Alafia River estuary  
M.S. Flannery, X. Chen, (Southwest Florida Water Management District), E.Peebles (USF College of Marine Science), D. Wade (Janicki Environmental, Inc), E. Estevez (Mote Marine Laboratory, A Janicki (Janicki Environmental, Inc) and J. Culter (Mote Marine Laboratory)
- 4:30 – 4:50 Summary of atmospheric deposition studies and loading results in Tampa Bay, Florida  
R. Pribble (Janicki Environmental, Inc.) and N. Poor (USF College of Public Health)
- 4:50 – 5:10 Export of atmospherically derived nitrogen in the Tampa Bay watershed  
C. D. Pollman, N.D. Poor (USF College of Public Health) and V. Bhethanabotla (USF Department of Chemical Engineering)
- 5:10- 5:30 Source attribution for the atmospheric deposition of polycyclic hydrocarbons (PAHs) to Tampa Bay  
N. Poor (USF College of Public Health), S. Campbell (USF Department of Chemical Engineering) and H. Kay (USF College of Public Health)

**Tuesday evening**

**6:00 pm. – 7:30 p.m.**

“Journey Through Time”- opening of a sediment core from Tampa Bay  
Sponsored by the US Geological Survey  
Pizza and refreshments

**Wednesday, October 29<sup>th</sup>**

**HABITAT**

B. Henningsen, Session Chair

- 8:30- 9:00      Keynote Address  
                         **A Perspective of the Future of Marine Habitat Management in Florida**  
                         Ken Haddad (Executive Director, Florida Fish and Wildlife Conservation Commission)
- 9:00 – 9:23      The maturation and future of habitat restoration programs for the Tampa Bay (Florida) Estuarine Ecosystem  
                         B. F. Henningsen (SWFWMD SWIM)
- 9:23 – 9:46      Management implications of spatial and temporal patterns of seagrass change in Tampa Bay, 1950 to 2002  
                         D. Tomasko (SWFWMD SWIM)
- 9:46 – 10:09    Hard bottom habitats: An overview of mapping and monitoring needs of epibenthic communities in Tampa Bay, Florida  
                         T. Ash (EPCHC) and R. Runnels (FDEP Aquatic Preserves)
- 10:09 – 10:32    Freshwater wetlands in the Tampa Bay watershed  
                         B. Stetler, G. Morrison and G. Kelly (EPCHC)
- 10:32 – 11:00    Break
- 11:00 – 10:23    Coastal upland habitats of the Tampa Bay Ecosystem: Status, trends and management perspectives  
                         R. Whitman, Jr. (Peninsula Design, Inc.)
- 11:23 – 11:46    Sea level variations in Tampa Bay  
                         T. Edgar and M. Crane (USGS)
- 11:46 – 12:09    The Coastal Conservation Corridor Plan for the Tampa Bay Estuarine Ecosystem  
                         J. Beever, III (FWC) and M. Bryant (The Nature Conservancy, Sarasota)
- 12:09- 12:29    Synthesis and panel discussion
- 12:30 – 1:30      Lunch (box or buffet)
- 1:30 – 1:50      Tampa Bay Interactive Mapping System and Digital Library: Providing accessible data and information for management and research  
                         J. Johnston (USGS), K. Smith (USGS), A. Martucci (Johnson Controls World

Services, Inc.) and C. Cretini (Johnson Controls World Services, Inc.)

- 1:50 – 2:10 Synthesizing seagrass models: application to ecological forecasting  
B. Robbins (Mote Marine Laboratory), M. S. Fonseca (NOAA/NOS/CCFHR),  
E.W. Koch (U of Maryland) and A. Malhotra (NOAA/NOS/CCFHR)
- 2:10 – 2:30 Habitat mapping and Habitat Suitability Modeling: Linking fisheries independent  
data to habitats  
P. Rubec, S. Whaley, J.Lewis, G.Henderson and C. Westergren (FWC Florida  
Marine Research Institute)
- 2:30 – 2:50 Tampa Bay historic and current aerial imagery website  
T. Udouj and K. Madley (FWC Florida Marine Research Institute)
- 2:50 – 3:10 Break

## **DREDGING AND DREDGED MATERIAL MANAGEMENT**

H. Greening, Session Chair

- 3:10 – 3:30 Implementing the Tampa Bay Dredged Material Management Strategy  
T. Leeser (USACOE), H. Greening (TBEP), B. McMichael (FWC FMRI),  
E. Sherwood (FWC FMRI) and S. Grabe (EPCHC)
- 3:30 – 3:50 Beach renourishment in the Tampa Bay area: success and failures:  
N. Elko (Pinellas County Public Works)
- 3:50 – 4:10 Lake-dredged material for beef cattle pasture establishment.  
G. Sigua (USDA, Subtropical Agricultural Research Station), M. Holtcamp  
(SWFWMD SWIM), J. Linton (SWFWMD) and S. Coleman (USDA)

## **SPILL PREVENTION AND RESPONSE**

G. Henderson, Session Chair

- 4:10 – 4:15 Session introduction  
G. Henderson (FWC FMRI)
- 4:15– 4:35 Implementation of VTS and PORTS in Tampa Bay  
S. Fiedler (TPA) and M. Luther (USF)
- 4:35- 4:55 The FMSAS, Coastal Area Contingency Plans, ArcIMS and ArcPAD Digital  
Integration for spill prevention and response  
R. Knudsen (FWC) and E. Lesnett (EPCHC)
- 4:55 – 5:15 A summary of restoration projects for natural resource injuries and lost human  
use from the 1993 oil spill  
J. Iliff (NOAA Restoration Center), B. Pridgeon, P. Wieczynski, D. LetoBarone,

G. Henderson, S. Fluke, M. Malvern and L. Craig

5:15- 5:35 Tampa Bay Pre-Spill Natural Resource Damage Assessment (NRDA) Planning:  
Developing cooperative ephemeral data collection plans  
J. Jeansonne (NOAA Damage Assessment Center)

### **Evening Reception and Presentation**

6:00 – 7:30 USF Center for Marine Technology  
Reception and Slide Show

### **Thursday, October 30<sup>th</sup>: 8:30 - noon**

#### **Watershed Management**

Session Chairs: A. Squires, R. McConnell, R. Brown, M. Hammond

- 8:30 – 8:35 Session Introduction  
A. Squires (Pinellas County Department of Environmental Management)
- 8:35 – 8:45 Watershed management across jurisdictional boundaries: The Tampa Bay Estuary Program's comprehensive watershed management plan for Tampa Bay  
R. Eckenrod (Tampa Bay Estuary Program)
- 8:45 – 9:05 EPA watershed management, TMDLs and Tampa Bay  
J. Giattina (US Environmental Protection Agency Region 4)
- 9:05 – 9:25 Florida's TMDL/Watershed Management Program: A Status Report  
E. Livingston (Florida Department of Environmental Protection)
- 9:25 – 9:45 Comprehensive watershed management at the Southwest Florida Water Management District- Tampa Bay  
B. Wirth (Southwest Florida Water Management District)
- 9:45 – 10:05 Watershed management and implementation from a local government perspective  
J. Stowers (Pinellas County)
- 10:05 – 10:25 A water utility's role in watershed protection  
R. McConnell and D. Jones (Tampa Bay Water)
- 10:25 – 11:00 Break
- 11:00 – 11:20 From pushing paper to moving dirt: local implementation of watershed management plans  
H. Zarbock ,E. Araj. (Berryman and Henigar, Inc), R. Brown (Manatee County Department of Environmental Management), J. Merriam (Hillsborough County Stormwater Management) and A. Squires (Pinellas County Department of

Environmental Management)

11:20 – 11:50 Progress Towards Goals for Tampa Bay Restoration and Protection  
H. Greening, R. Eckenrod and N. Holland (Tampa Bay Estuary Program)

11:50 – 12:30 **BASIS 4 Conference Overview from our “outside expert”**  
Dr. Fred Holland (NOAA)

**ADJOURN**