

Charlotte Harbor National Estuary Program
2017 Charlotte Harbor Watershed Summit: Showcasing Our Accomplishments
AGENDA

Day 1: Tuesday, March 28, 2017

8:15 – 8:45 Registration & Coffee/Tea

- 8:45 Welcome & Announcements – Jaime Boswell, CHNEP Environmental Scientist
8:50 Opening Remarks – Jennifer Hecker, CHNEP Executive Director

9:05 Session 1 - Water Quality and Quantity: New Tools – Melynda Brown, FDEP-Charlotte Harbor Aquatic Preserves

- 9:10 Moving Toward Ecosystem Restoration on Cecil Webb WMA - Roger Copp, A.D.A. Engineering, Inc.
9:30 Online Water Quality Trend Analysis: Improving Accessibility of a Robust Statistical Analysis Technique - Jason Scolaro, Water Institute, University of South Florida
9:50 Aspects of Development of a Comprehensive Nutrient Management Plan for Sanibel, Florida - Mark Thompson, Sanibel-Captiva Conservation Foundation

10:10 – 10:30 Break

- 10:30 Three-dimensional Model Evaluation of the Impact on Salt Transport by Physical Alterations to the Caloosahatchee River and Estuary - Detong Sun, South Florida Water Management District
10:50 Developing a Nutrient Framework for Managing and Restoring Biological Integrity of Southwest Florida Tidal Creeks - Jay Leverone, Sarasota Bay Estuary Program
11:10 Nitrate plus Nitrite Loads into the Tidal Caloosahatchee River, 2014-2016 - Amanda Booth, USGS
11:20 Water Quality and Effects of Water Release from Lake Okeechobee to Caloosahatchee River and Estuary - Michael Celebrado, St. Michael Lutheran School
11:30 Water quality Trends in Estero Bay (2005-2016) - Rebecca Flynn, FDEP-Estero Bay Aquatic Preserve

11:50 – 1:05 Lunch Break/Posters

- WQQ1 Innovation for Restoration: the C-43 Water Quality Treatment and Testing Project - Cassandra Thomas, South Florida Water Management District
WQQ2 Sediment Iron Flux along the Caloosahatchee River – Sean Jones, Mote Marine Laboratory
WQQ3 Shifting Chlorophyll *a* Baselines: Changes in Phytoplankton Abundance in Response to Physical Variability and River Discharge in Charlotte Harbor National Estuary – Michael Sauer, Sanibel-Captiva Conservation Foundation

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1:05 Session 2 - Water Quality and Quantity: Monitoring and Assessment – Hans Zarbock, Polk County

1:10 Charlotte Harbor Aquatic Preserves' Long-term Water Quality Monitoring within Matlacha Pass Aquatic Preserve - Arielle Taylor-Manges, FDEP-Charlotte Harbor Aquatic Preserve

1:30 Scratching the SERFIS: Surveying Estuarine Response to Freshwater Inflows in the Caloosahatchee - Cassondra Thomas, Sout Florida Water Management District

1:50 Caloosahatchee Regional Water Management Issues – Short and Long-term Solutions for Storage and Treatment - James Evans, City of Sanibel

2:10-2:30 Break

2:30 Early Detection of Stress and Preemptive Rehabilitation for Successful Mangrove Forest Management - Laura L. Flynn, Coastal Resources Group, Inc.

2:50 Evaluating the Benefits of Hydrologic Restoration of Shakett Creek and Dona Bay - Phase II Efforts - David Tomasko, Ph.D., ESA

3:10 Shell and Prairie Creek RA Plan – Management Actions to Address Mineralized Impairment of Surface Waters - Lizanne Garcia, South West Florida Water Management District

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Day 2: Wednesday, March 29, 2017

8:15 – 8:45 Registration & Coffee/Tea

8:45 Welcome & Announcements – Jaime Boswell, CHNEP Environmental Scientist

8:50 Opening Remarks – Jennifer Hecker, CHNEP Executive Director

9:05 Session 3 - Habitat and Living Resources: Plants – Kris Kaufman, NOAA

9:10 Ecological Enhancements of the Charlotte Harbor Spectral Optical Model for Interpretation of Inter-annual Seagrass Performance - L. Kellie Dixon, Mote Marine Laboratory

9:30 Comparison of Two Seagrass Programs within the Charlotte Harbor Estuaries - Melynda Brown, FDEP-Charlotte Harbor Aquatic Preserves

9:50 Integrated Management Practices Controlling Submerged Vegetation in the Canals of Cape Coral, Florida - Jason Cull, Lee County Hyacinth Control District

10:10 *Vallisneria americana* (Tape Grass) as an Indicator of Freshwater Inflow to a Sub-tropical Estuary - Christopher Buzzelli, South Florida Water Management District

10:30 - 10:50 Break

10:50 Identifying and Diagnosing Locations of Ongoing and Future Saltwater Wetland Loss: Mangrove Heart Attack - Lisa B. Beever, Formerly CHNEP

11:10 Habitat Restoration in Charlotte Harbor - Stephanie T. Powers, South West Florida Water Management District

11:30 Wildflower Preserve Habitat Restoration Project - Thomas Ries, Scheda Ecological Associates, Inc.

11:50 – 12:55 Lunch Break/Posters

HLR1 The Impact of Removal of *Melaleuca quinquenervia* on the Growth of Native Trees: Slash Pine (*Pinus elliotii*) and Pond Cypress (*Taxodium ascendens*) - Irma Sanchez, Florida Gulf Coast University

HLR2 Factors Affecting the Restoration of *Vallisneria americana* in the Caloosahatchee River - Kory M. Ross, Florida Gulf Coast University

HLR3 Peace and Withlacoochee River Threats Assessment – Matt Phillips, Florida Fish and Wildlife Conservation Commission

12:55 Session 4 - Habitat and Living Resources: Stewardship – John Ryan, Sarasota County

1:00 Caloosahatchee Freshwater Flows and Submersed Angiosperms - Richard Bartleson, Sanibel-Captiva Conservation Foundation

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- 1:10 Using Web-based GIS Software to Survey the Mangroves of Sarasota County's Shoreline - Alyssa Vinson, Sarasota County Environmental Protection
- 1:20 Challenges of Competing Interests, Logistics, and Payoffs in Two Different Restoration Projects in Southwest Florida - Nora Demers, Florida Gulf Coast University
- 1:30 Engaging the Community in the Alligator Creek TMDL Watershed - John Ryan, Sarasota County
- 1:50 Water Management - Making Tangible Improvements in the Health of the Caloosahatchee River and Estuary through Innovation, Planning and Relationship Building - David E Lindsay, Lehigh Acres Municipal Services Improvement District
- 2:10 Cross-curricular Integration of the Florida Gulf Coast University Campus as a Living Laboratory - Brian Bovard, Florida Gulf Coast University
- 2:30 – 2:50 Break**
- 2:50 WET PLAN - Collaboration to Improve Stormwater Quality in Neighborhood Ponds - Liz Donley, CHNEP
- 3:00 Detention Ponds for Stormwater Treatment: Evaluation of Compliance and Effectiveness in Lee Co., FL – Don Duke, Florida Gulf Coast University
- 3:20 Swamp Walks: Connecting People to the Landscape of Southwest Florida - Brenda L. Thomas, Florida Gulf Coast University
- 3:40 Limnological Assessment of the Ponds of Burnt Store Lakes POA (Charlotte County, FL) - Serge Thomas, Florida Gulf Coast University

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Day 3: Thursday, March 30, 2017

8:15 – 8:45 Registration & Coffee/Tea

8:45 Welcome & Announcements – Jaime Boswell, CHNEP Environmental Scientist

8:50 Opening Remarks – Jennifer Hecker, CHNEP Executive Director

9:05 Session 5 - Habitat and Living Resources: Fish – Courtney Sarri, FWC – Fish and Wildlife Research Institute

9:10 Modeling to Assess the Influence of Water Withdrawals on Spatial Distributions and Abundance of Estuarine Species in Charlotte Harbor, Florida - Peter J. Rubec, Florida Fish and Wildlife Conservation Commission

9:30 Impacts of Coastal Development and Altered Watersheds on Juvenile Fish Nursery Habitats - JoEllen Wilson, Bonefish & Tarpon Trust

9:50 Environmental Drivers Affecting River Use by Large Predatory Fishes in Southwest Florida - David Blewett, FWC – Fish and Wildlife Research Institute

10:10 Fish Communities and Diet of a Juvenile Sportfish in the Seagrass-associated Tidal Creeks of Charlotte Harbor's Cape Haze Peninsula - Geoff Huston, FWC – Fish and Wildlife Research Institute

10:30 – 10:50 Break

10:50 Indicators of Wetland Restoration Success in South Florida: Two Case Studies - David W. Ceilley, Johnson Engineering Inc.

11:10 Differences in Large-scale Habitat Use Patterns between Two Smalltooth Sawfish, *Pristis pectinata*, Nursery Areas - Rachel Scharer, FWC – Fish and Wildlife Research Institute

11:30 Diel Movements of Juvenile Smalltooth Sawfish (*Pristis pectinata*): Implications for Defining the Size of a Nursery Hotspot - Cecily Burton, FWC – Fish and Wildlife Research Institute

11:50 – 1:05 Lunch Break/Posters

HLR3 The Gopher 300: a Metadata Analysis of Gopher Tortoise (*Gopherus polyphemus*) Burrow Commensals - Alvin Bruce, FGCU

HLR4 Habitat Use of Florida Box Turtle (*Terrapene carolina bauri*) on a Barrier Island: Sanibel, Florida - Natasha Gibson, FGCU

HLR5 Range of the Zebratail Blenny, *Hyppleurochilus caudovittatus* Bath, 1994, with Comments on Identification of the *Hyppleurochilus* complex in the Gulf of Mexico - Chrystal H. Murray, Florida Fish and Wildlife Research Institute

HLR6 SCIENCE FAIR: Using *Brassica juncea* to Phytomine Copper from Low Grade Ores using Chelating Agents - Katie E. Thorp, University of Florida

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- 1:05 Session 6 - Habitat and living resources: Reptiles, Invertebrates and Shellfish – Yamilet Santana Reyes, Florida Department of Agriculture and Consumer Services**
- 1:10 Where and How do Sawfish Spend Time in Nurseries? Insights from Acoustic and Accelerometer Data - Gregg R. Poulakis, FWC-Fish and Wildlife Research Institute
- 1:20 Collecting Ultra Fine-scale Movement Data on Sawfish in the Peace River using Traditional Acoustic Monitoring Techniques - Rebecca K. May, Florida Gulf Coast University
- 1:30 Utilizing Citizen Scientists for Long-term Oyster Habitat Restoration Monitoring - Jaime Boswell, CHNEP
- 1:50 Restoring Oyster Reefs in Charlotte Harbor - Trabue Harborwalk Pilot Oyster Reef Creation Project Early Results - Laura Geselbracht, The Nature Conservancy
- 2:10 Oyster (*Crassostrea virginica*) Larval Transport Modeling for the Caloosahatchee River/Estuary - Joëlle Richard, Florida Gulf Coast University
- 2:30 – 2:50 Break**
- 2:50 The Effects of the 2015-2016 El Nino on the Coastal Ecosystem around Sanibel Island, FL - Eric Milbrandt, Sanibel-Captiva Conservation Foundation
- 3:10 Measuring the Fate and Non-target Impacts of Dibrom using Aerial Ultra-low Volume (ULV) Spray Technology in Mangrove and Open Marsh Wetlands - Edwin M. Everham III, Florida Gulf Coast University
- 3:30 Sixteen Years of the Southwest Florida Frog Monitoring Network - John Herman, Florida Gulf Coast University