*******What Lies Beneath – Barnegat Bay***

**2015 BARNEGAT BAY RESEARCH FORUM**

**OCEAN COUNTY COLLEGE**

***Tuesday, November 17, 2015***

***9:00 a.m. – 3:30 p.m.***

**Sponsors: Barnegat Bay Partnership and the**

**New Jersey Department of Environmental Protection**

**AGENDA**

**Check-in:**  Registration 8:30

**Welcome:**  Stan Hales, Director, BBP 9:00

**Meeting Goals and Org.:**  Thomas Belton, 9:05

 Barnegat Bay Research Coordinator, NJDEP

1. **WATER QUALITY MONITORING AND MODELING**

* Water Quality Monitoring and Assessment in Support of Model Development 9:20
* *Patricia Ingelido,* *NJDEP, Bureau of Environmental Analysis, Restoration*

*and Standards (BEARS)*

* Hydrodynamic and Water-Quality Modeling 9:35
* *Helen Pang, NJDEP BEARS*
* Phosphorus Dynamics in Barnegat Bay Sediments 9:50
* *David Velinsky and Bhanu Paudel, Academy of Natural Sciences of Drexel*

 *University (ANSD); Nat Weston, Villanova University*

* **Facilitated Discussion and Questions** 10:05
1. **BIOLOGICAL ENDPOINTS SUPPORTING THE DEVELOPMENT OF ESTUARINE NUTRIENT CRITERIA**
* Benthic Invertebrate Community Monitoring and Indicator Development 10:25
* *Gary Tagon, Judith P. Grassle, Charlotte M. Fuller, and Rosemarie F.*

*Petrecca, Rutgers University*

* Diatoms as Environmental Indicators in Barnegat Bay 10:40
* *Marina Potapova, Nina Desianti, David Velinsky, Paul Kiry, Linda Zaoudeh, Roger Thomas, Paula Zelanko, ANSD; Mihaela Enache and Thomas Belton, NJDEP*
* Baseline Characterization of Phytoplankton and Harmful Algal Blooms 10:55
* *Ling Ren and Don Charles, ANSD; Thomas Belton and Mihaela Enache, NJDEP*
* **Facilitated Discussion and Questions** 11:10

**LUNCH (on your own - view posters)** 11:30

1. **CHARACTERIZING ENVIRONMENTALLY SENSITIVE AREAS (ESAs)**
* Ecological Evaluation of Sedge Island Marine Conservation Area 12:30
* *Paul Jivoff, Rider University*
* Salt Marsh Nutrient Histories and Ecosystem Services (Denitrification) 12:45
* *David Velinsky, ANSD; Tracy Quirk, ANSD and Louisiana State University; Jeff Cornwell and Mike Owens, University of Maryland*
* Evaluation of Environmentally Sensitive Areas (ESAs) to Water Craft Impacts 1:00
* *Richard G. Lathrop Jr., Eden Buenaventura and Edwin Green, Rutgers University*
* **Facilitated Discussion and Questions** 1:15
1. **NATURAL RESOURCE ASSESSMENT AND MANAGEMENT**  **(SUSTAINABLE FISHERIES)**
* Hard Clam Survey in Barnegat Bay – Little Egg Harbor Estuary 1:35
* *Kira Dacanay, NJDEP Bureau of Shellfisheries*
* Benthic-Pelagic Coupling: Hard Clams Indicators of Suspended Particulates 1:50
* *Monica Bricelj, John Kraeuter and Gef Flimlin, Rutgers*
* Assessment of the Distribution and Abundance of Stinging Sea Nettles 2:05
* *Paul Bologna and Jack Gaynor, Montclair University*
* Baseline Characterization of Zooplankton in Barnegat Bay 2:20
	+ *Ursula Howson and James Nickels, Monmouth University*
* **Facilitated Discussion and Questions** 2:35
1. **ECOSYSTEMS-BASED MANAGEMENT**
* Assessment of Fishes and Crabs Responses to Human Alteration of Barnegat Bay 2:55
* *Jessica Valenti, Kenneth Able, Tom Grothues, Rutgers; and Paul Jivoff, Rider University*
* Multi-Trophic Level Modeling of Barnegat Bay 3:10
* *Olaf Jensen, Heidi Fuchs and Jim Vasslides, Rutgers University*
* **Facilitated Discussion and Questions** 3:25

**CONCLUDING REMARKS** (Gary Buchanan and Stan Hales)3:35

**NOTES:**