

**MID-ATLANTIC CHAPTER  
OF THE  
AMERICAN FISHERIES SOCIETY**

**2012 ANNUAL MEETING PROGRAM**

**DUPONT ENVIRONMENTAL EDUCATION  
CENTER**

**Russell W. Peterson Urban Wildlife Refuge  
Wilmington, DE**

**NOVEMBER 1<sup>st</sup> – 2<sup>nd</sup>, 2012**



# WELCOME

On November 1st and 2nd, 2012 the Mid-Atlantic Chapter of the American Fisheries Society is holding its Annual Meeting at the DuPont Environmental Education Center(DEEC). The DEEC at the Russell W. Peterson Urban Wildlife Refuge on Wilmington's Riverfront opened to the public in October of 2009. This state of the art four-story, 13,500-square-foot facility is owned by the Riverfront Development Corporation of Delaware and is operated by the Delaware Nature Society. It is located on the edge of the 212-acre Peterson Refuge on the tidal Christina River, where the city, river and marsh meet.

The Education Center showcases the many species of amphibians, birds, mammals, fish, reptiles and native plants that make their home in the refuge. Visitors are able to explore the interactive exhibits, join a guided tour, or participate in a variety of free and low-cost programs. The DuPont Environmental Education Center is accessible by river taxi, river walk, DART trolley and car. Free parking is available on site and in several Riverfront parking lots located at the end of Justison Street, south of Frawley Stadium. The river walk also connects to the pedestrian bridge that leads to the facility.

Directions to the DuPont Environmental Education Center are here:

<http://www.delawarenaturesociety.org/deecdir.html>

1400 Delmarva Lane

Wilmington, DE 19801

(302) 656 - 1490

Coordinates for GPS: 39.723042 N, -75.561657 W

Danish and coffee will be available during morning registration. Come early to check in and get a chance to wander the boardwalk prior to the start of the meeting. Our Plenary Speaker, Rich Horwitz from the Academy of Natural Sciences of Drexel University will open the conversation on our focus of "watershed urbanization". There will be brief tours of the education center and a chance to set wire mesh fish traps in the nearby tide pools in between oral presentations. During lunch hour a chance to stroll the River Walk will be possible with a provided box lunch. Additional presentations on population modeling will be offered at the DEEC following lunch. After, check-in at the Double Tree Hotel (Legal District) for the poster session, dinner social and raffle that will take place in the evening. This will be a great opportunity for mentorship and meeting the potential next generation of our profession.

Proceeds from the raffle will be used to help fund student travel to future meetings (this year all students received free housing). Tickets will be sold during registration, breaks and lunch on the first day. Please consider donating an item to benefit the chapter! Second day will be filled with presentations with a break to retrieve the fish traps and commence with a business meeting and lunch at the nearby Iron Hill Brewery.

Thank you and we look forward to seeing everyone in Wilmington, Delaware!

# INSTRUCTIONS FOR AUTHORS

## *Oral Presentation Authors*

During registration, electronic copies of talks should be brought to the podium in the Osprey Room on the fourth floor of the Dupont Environmental Education Center. Authors are encouraged to bring presentations in two formats, flash drive and CD/DVD. Presentations should be no longer than 15 minutes and each will be followed by a 5-minute question and answer period. An award will be given for best student presentation at the conclusion of the meeting on Friday at the Iron Hill Brewery Lunch.

## *Poster Authors*

Poster set up will take place between 4:30 and 5:00 pm on Thursday November 1<sup>st</sup> at the Double-Tree Hotel Banquet Hall, so we ask that authors bring their poster with them when checking in. Directions to the Double-Tree Hotel (Legal District) are :

<http://doubletree3.hilton.com/en/hotels/delaware/doubletree-by-hilton-hotel-downtown-wilmington-legal-district-ILGDTDT/maps-directions/index.html>

## **DoubleTree by Hilton Hotel Downtown Wilmington - Legal District**

700 N. King Street, Wilmington, Delaware, 19801, USA TEL: 1-302-655-0400

We will provide easels to support your poster. The formal poster session will be held from 5:00pm –6:00pm, poster authors are asked to please remain by your poster to answer questions during this time. An award will be given for best student poster at the conclusion of the meeting on Friday at the Iron Hill Brewery Lunch.

# DETAILED SCHEDULE

\* Marks student presentation

## Day 1, Thursday Morning November 1st, 2012

**8:00 – 9:30 Registration with Coffee and Pastries**

*DuPont Environmental Education Center*

**9:30 - 9:40 Welcome and introduction**

*Osprey Room*

*Roland Hagan, Chapter President*

*John Harrod, Delaware Nature Society/DEEC*

**9:40 – 10:10 Plenary Presentation - Urbanization and Lotic Assemblages**

*Plenary Speaker - Richard J. Horwitz*

**10:10 – 10:30 \* Quantifying current distribution of sea nettles (*Chrysaoura quinquecirrha*) and ctenophores (*Mnemiopsis leidyi*) in Barnegat Bay, New Jersey**

*Talia Young*

**10:30 – 10:50 Comparison of two floating barriers in reducing human-sea nettle interaction in Barnegat Bay, New Jersey**

*Nina Sassano*

**Break – Check out donated raffle items / purchase raffle tickets**

**11:00 – 11:20 \*Distribution and abundance of ichthyoplankton in Barnegat Bay, NJ**

*K. Markowitz*

**11:20 – 11:40 \*Biophysical Dynamics of Larval Summer Flounder Ingress into Delaware Bay**

*Edward Hale*

**11:40 – 12:00 \* Trends in Ichthyoplankton Composition from a Long Term Data Set at Little Egg Inlet, New Jersey: Response to Increasing Temperatures**

*Jamie F Caridad*

**12:00 – 12:20 \* Evaluating Changes in the Phenology of Fall in the Nearshore Coastal Zone Using a Thermal Habitat Model for Marine Fish**

*Amelia Snow*

**12:20 – 1:20 Boxed Lunch – For consumption on the River Walk or Boardwalk – Set fish traps!**

*Roast Turkey w/ Gruyere and Honey Mustard on Whole Wheat,*

*Roast Beef w/ Chinese Mustard and Arugula on Focaccia,*

*Mozzarella w/ Tomato Basil and Olive Oil on Ciabatta,*

## **Day 1, Thursday Afternoon November 1<sup>st</sup>, 2012**

**1:20 – 1:40 Effects of Food abundance on oyster recruitment: results of a biophysical model**

*Paola C. Lopez-Duarte*

**1:40 – 2:00 Collaborative Shellfish Modeling in Delaware Bay Fosters Better Shellfishery Management**

*Daphne M. Munroe*

**2:00 – 2:20 Striped Marlin Food Web Dynamics around Magdalena Bay, Baja California**

*Jennifer Pincin*

**Break - Check out donated raffle items / purchase raffle tickets**

**2:30 – 2:50 Can Sex-At-Length Keys Generated from Federal and State Survey Data Be Applied to Recreational and Commercial Landings of Summer Flounder?**

*Eleanor A. Bochenek*

**2:50 – 3:10 Spatial Variability in sex-at-length of summer flounder (*Paralichthys dentatus*) landed in the commercial and recreational fisheries from Massachusetts to North Carolina.**

*Jason M. Morson*

**3:10 – 3:30 Association of Pelagic Fishes with Piers in the Lower Hudson River as measured with Dual Frequency Identification Sonar (DIDSON)**

*Jenna Rackovan*

**3:30 – 4:00 Retrieve Fish Traps from Tide Pools – Reset for overnight sampling at DEEC**

**4:00 - 5:00 Hotel Check In / Poster Set Up at Double-Tree Hilton (Legal District)**

**5:00 - 6:00 Poster Session – Double Tree Hilton Banquet Room (Cash Bar)**

*Bring your donated items to be displayed for Raffle*

**\*The effects of Ocean Acidification on Otolith Size of Fish with Varying Habitat Requirements**

*Andrea Stoneman,*

**New Jersey's voluntary biological collection program for bluefish (*Pomatomus saltatrix*): 2011**

*Steven M. Luell*

**\*Hydroacoustic assessment of sturgeon habitat utilization in the Delaware River** *Amy Comer*

**\*Conservation planning for sand tigers in Delaware** *Symone Johnson*

**\*Effect of shore-angling on post release survivorship of sand tigers** *James Kilfoil*

**\* Assessing the Expansion and Impact of the Common Reed *Phragmites australis* on Blue Crab (*Callinectes sapidus*) Habitat Selection in Blackbird Creek, DE** *Kris Roeske*

**6:00 - 8:00 Dinner - Double Tree Hilton Banquet Room**

*Double Entrée Buffet with choice of three salads*

**8:00 - 9:00 Social and Raffle - Double Tree Hilton Banquet Room (Cash Bar)**

**9:00 - 11:00 Mentoring Groups - Double Tree Hilton Select Guest Rooms**

## **Day 2, Friday Morning November 2<sup>nd</sup>, 2012**

### **7:30 – 8:30 Continental Breakfast at Dupont Environmental Education Center**

*Pastries, Croissants, Scones and Muffins with fresh sliced fruit, coffee, teas and juices*

### **8:30 – 8:50 Is the invasive Asian Shore Crab (*Hemigrapsus sanguineus*) Expanding into Upper Barnegat Bay?**

*John A. Tiedemann*

### **8:50 – 9:10 Assessing the impacts of urbanization on blue crabs, (*Callinectes sapidus*) in Barnegat Bay, NJ**

*Paul R. Jivoff*

### **9:10 – 9:30 Fine scale telemetry quantifies spatial structure of encounters among individuals of a protogynous reef-dwelling fish species (*Centropristis striata*)**

*Andrew J. Hassall*

### **9:30 – 9:50 \* Assessing Sound Pressure Level Weighting of Acoustic Tag Detection Records to Calculate Sequential Fish Positions**

*Walker C. Davis*

### **Break**

### **10:10 – 10:30 Behavioral mediation of exposure duration to hypoxia for immature Atlantic croaker (*Micropogonius undulatus*) in the wild**

*Thomas M. Grothues*

### **10:30 – 10:50 Use of telemetry to determine habitat and movements of juvenile Delaware River resident Atlantic sturgeons**

*Matt Fisher*

### **10:50 – 11:10 \* Utilizing Remote sensing and acoustic biotelemetry to create dynamic species distribution models for Atlantic Sturgeon in the Mid-Atlantic**

*Matthew Breece*

### **11:10 – 11:30 Cooperative Development and testing of Sink Gillnet Modifications for Reducing Bycatch of Atlantic Sturgeon While Maintaining Target Species Catches**

*James L. Armstrong*

### **11:30 – 11:50 \* Incorporating Acoustic Telemetry, Satellites and Underwater Robots to Understand Sand Tiger Shark Movements and Species Assemblages in the Mid-Atlantic Bight**

*Danielle Haulsee*

### **11:50 - 12:45 Business Meeting at DEEC**

### **1:00 - 3:00 Lunch at Iron Hill Brewery / Student Awards Presented**

*Sandwich Buffet including Pecan Chicken Salad, Club Wrap, Smoked Turkey, and Mediterranean Wrap*