



## **Society of Wetland Scientists South Central Chapter Fall Meeting October 21 - 23, 2010, Oxford, MS**

The annual South Central Chapter meeting will be held in Oxford, MS, from October 21-23, 2010. The overall theme for the meeting is '**Wetlands in a landscape context**'. The meeting will start with optional workshops on Thursday. All presentations (poster and podium) are scheduled for Friday and Saturday and will be held at the University of Mississippi Field Station (UMFS). A field trip to the USDA-ARS National Sedimentation laboratory will be held late Friday morning. The Friday night social and mixer will be held at Parrish's (just off the historic Oxford Square). Registration is open online at <http://www.sws.org/regional/southcentral/>. **Please register as soon as possible, but definitely prior to October 7.** The meeting will adjourn by 12:30 pm on Saturday. More information about Oxford is available at <http://www.oxfordcvb.com/index.html>.

### **Meeting Agenda**

#### **Thursday, October 21**

**9.00 AM – 3.30 PM**

#### **Workshop 1: Crayfish Ecology and Identification in the Southern USA**

#### **Location: The University of Mississippi Field Station**

The workshop will focus on general taxonomy, biology, and ecology of crayfishes in the southern U.S and will be hosted by Dr. Susie Adams, ecologist, US Forest Service Center for Bottomland Hardwoods Research in Oxford, MS. She has graduate degrees in Fisheries Management and in Organismal Biology and Ecology from the University of Idaho and the University of Montana, respectively. She has conducted fish, crayfish, and amphibian research in wetlands, roadside ditches, streams, large rivers, and lakes and recently created a Crayfishes of Mississippi website (<http://maps.fs.fed.us/crayfish/>). More details about UMFS can be found at <http://www.baysprings.olemiss.edu/>. The main goals of the workshop will be to facilitate better understanding of crayfishes in the context of other studies, and to practice crayfish sampling techniques. Participants will learn enough crayfish anatomy to begin identifying specimens. The depth of the topic will depend on the interests of the participants. Specimens of numerous genera and species, as well as dissecting scopes, will be available for some practice with identification. Various sampling methods will also be discussed and several of them will be tried out in the afternoon on

the grounds of the Field Station. There should be plenty of time available to discuss the areas of interest to participants. Resource lists for further reading will be provided. Bring hip or chest waders if possible. Box lunches will be provided.

**9.00 AM – 3.30 PM**

**Workshop 2: Using and Applying Geographic Information Systems to Wetlands**

**Location: Room 238, The Geoinformatics Lab, Old Chemistry Building,  
The University of Mississippi, Oxford, MS**

The University of Mississippi Geoinformatics Center (UMGC) is a multi-disciplinary research center conducting research in Geospatial Information Science and Technology (GIS&T). UMGC has conducted research with faculty and graduate students from the various departments including: Biology, Computer and Information Science, Geology and Geological Engineering, Sociology and Anthropology, School of Business, and the University of Mississippi Medical Center. UMGC strives to improve the understanding, usage and access to geo-spatial information for all areas of interest by conducting and disseminating research in GIS&T and remote sensing. UMGC also develops and hosts community relevant applications and workshops. UMGC will be hosting a one day workshop highlighting the use and application of GIS&T for wetlands and environmental scientists. The workshop will focus on the basics of GIS while including information and tips on applying GIS to environmental applications. The GIS workshop will be a full day workshop conducted by Hal Robinson, Associate Director, University of Mississippi Geoinformatics Center. **It will be held at the Geoinformatics lab on the main campus of the University of Mississippi, Oxford.** Box lunches will be provided.

**6.00 – 9.00 PM      SWS SCC Board Meeting, Old Taylor Grocery, Taylor, MS**

**Friday, October 22**

**Location: Education building, The University of Mississippi Field Station,  
Abbeville, MS**

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|------------------------|---|
| <b>8.00 – 9.00 AM</b>  | <b>Registration and Coffee</b>  |
| <b>8.30 AM</b>         | <b>Posters go up</b>  |
| <b>8.45 – 9.00 AM</b>  | <b>Welcome and overview of meeting</b><br><b>Marge Holland and Matt Stahman</b>   |
| <b>9.00 – 9.30 AM</b>  | <b>Ray Highsmith    <i>The Deepwater Horizon oil spill: a perspective</i></b>   |
| <b>9.30 – 10.00 AM</b> | <b>Mel Warren    <i>Response of fishes to constructed, woody microhabitats in sand-bed streams of the upper coastal plain, Mississippi, USA</i></b> |

- 10.00 – 10.15 AM**      **Coffee Break**
- 10.15 – 10.45 AM**      **Martin Locke**    *Research program at the USDA-ARS National Sedimentation Laboratory: edge-of-field buffers and wetlands in agricultural landscapes*
- 10.45 – 1.30 PM**      **Field Trip to USDA ARS National Sedimentation Laboratory (box lunches will be provided)**
- 1.30 – 2.30 PM**      **Chapter business meeting**

### **Student Presentations**

- 2.30 – 2.50 PM**      **Andrew W. McDonnell**    *Comparing nitrogen pathways in catfish aquaculture: split pond vs earthen pond*
- 2.50 – 3.10 PM**      **Justin J. Geise**    *The effects of fragmentation on arthropod biodiversity in native canebreaks*
- 3.10 – 3.30 PM**      **Sajag Adhikari**    *Study on effects of three carrier solvents on seed germination and seedling growth and development of four wetland plants*
- 3.30 – 3.50 PM**      **Coffee break and Poster viewing**
- 3.50 – 4.10 PM**      **Josef Hoffmann**    *Hydrodynamic modeling of the Mississippi River, Bonnet Carre spillway, and Labranche wetlands*
- 4.10 – 4.30 PM**      **Elizabeth Usborne**    *Effects of weirs on sediment accumulation and ph in agricultural drainage ditches over time*
- 4.30 – 4.50 PM**      **Rick Zarate**    *Bioconcentration of triclosan, methyl-triclosan, and triclocarban in the plants and sediments of a constructed wetland*
- 4.50 - 5.10 PM**      **Melissa Koontz**    *Flooding conditions and nitrogen concentration affect growth of a buffer grass: *Leersia oryzoides* (L.) sw. (rice cutgrass)*
- 6.00 – 9.00 PM**      **Reception at Parrish's pub (Just off The Square, Oxford, MS)**

### **Saturday, October 23**

**Location: Education building, The University of Mississippi Field Station, Abbeville, MS**

- 8.30 – 8.45 AM**      **Welcome**

## Student Presentations

- 8.45 – 9.05 AM      **Rani Menon**    *Phosphorus mitigation using *Juncus effusus*, *Carex lurida* and *Dichantherium acuminatum* var. *acuminatum* in constructed wetlands*
- 9.05 – 9.25 AM      **Tyler J. Stubbs**    *Evaluation of using a Yabby pump as a new technique for sampling benthic macro-invertebrates and sediment*
- 9.25 – 9.45 AM      **Traci C. Hudson**    *Maintenance influence on ecosystem metabolism of drainage channels*
- 9.45 – 10.05 AM      **Bishnu R. Twanabasu**    *Effects of salinity, hydrology, sedimentation, and simulated hurricane on arbuscular mycorrhiza and dark septate endophyte colonization in wetland plants of coastal marshes*
- 10.05 – 10.25 AM      **Coffee break and Poster viewing**
- 10.25 – 10.45 AM      **Justyn R. Foth**    *Aquatic macroinvertebrate communities in Mississippi River alluvial valley forested wetlands*
- 10.45 – 11.05 AM      **Orathai Pongruktham**    *Effects of hydrological connectivity on physicochemical properties and phytoplankton biomass of lakes in the lower Mississippi River floodplain*
- 11.05 – 11.25 AM      **Alex Littlejohn**    *Environmental and agricultural benefits of low-grade weirs*
- 11.25 – 11.45 AM      **Jordan Sloop**    *Herbaceous plant community dynamics in a bottomland hardwood forest following a 100 year flood*
- 11.45 – 12.00 PM      **Judges deliberate**
- 12.00- 12.15 PM      **Presentation of awards and adjournment**

## Poster Presenters

1. **Catlin W Ames**    *Substrate preferences of the endangered piedmont blue burrower (*Cambarus harti*)*
2. **Heather L. Tyler**    *Effect of agricultural runoff on bacterial community composition*
3. **Ying Chen**    *Relationship between coastal vegetation biomass with elevational and salinity gradients*
4. **Scott G. Owen**    *Watershed level wetland mapping for the white oak bayou wetland management plan - Maumelle, Arkansas*
5. **Joshua A. Jones**    *A greenhouse study of interactions of sea-level rise, elevated  $CO_2$ , and sedimentation on marsh elevation dynamics*

**6. Matthew Dempsey** *The anatomical and morphological responses of the noxious plant, *Cardiospermum halicacabum* (balloon vine), to four levels of water availability*

## **DIRECTIONS**

A general map showing the Old Chemistry Building, The Oxford square and the UM Field Station is can be found at

[http://maps.google.com/maps?f=d&source=s\\_d&saddr=Oxford,+MS+38655&daddr=Old+Chemistry+Building,+The+University+of+Mississippi,+Oxford,+MS+to:Co+Rd+202,+Abbeville,+MS+to:Parrish's+pub,+Oxford,+MS&hl=en&geocode=FR9kDAIdcAug-inZoafwb3uAiDEdr9syMpvkdq%3BFWBdDAIdFsqp-imTI\\_QMjngAiDE\\_wr2B8haeSA%3BFdrkDQIdXkKs-il79o1LLH6AiDHDITYOglktow%3BFRVnDAIdHAOq-iEgAvMecSXDqymf3edN-ngAiDHf51G9CUX0LA&mra=ls&sll=34.5405,-89.126587&sspn=0.610855,1.234589&ie=UTF8&ll=34.409742,-89.454117&spn=0.160034,0.308647&t=h&z=12](http://maps.google.com/maps?f=d&source=s_d&saddr=Oxford,+MS+38655&daddr=Old+Chemistry+Building,+The+University+of+Mississippi,+Oxford,+MS+to:Co+Rd+202,+Abbeville,+MS+to:Parrish's+pub,+Oxford,+MS&hl=en&geocode=FR9kDAIdcAug-inZoafwb3uAiDEdr9syMpvkdq%3BFWBdDAIdFsqp-imTI_QMjngAiDE_wr2B8haeSA%3BFdrkDQIdXkKs-il79o1LLH6AiDHDITYOglktow%3BFRVnDAIdHAOq-iEgAvMecSXDqymf3edN-ngAiDHf51G9CUX0LA&mra=ls&sll=34.5405,-89.126587&sspn=0.610855,1.234589&ie=UTF8&ll=34.409742,-89.454117&spn=0.160034,0.308647&t=h&z=12). **Directions to the field station can also be found at** <http://www.baysprings.olemiss.edu/directions/>.

It is located about 11 miles northeast of the University of Mississippi Oxford campus.

## **ACCOMMODATION**

We will not be booking a block of rooms exclusively for the meeting. A list of hotels with price ranges and amenities can be found at <http://www.oxfordcvb.com/lodging.html>.

## **Contact Information**

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### **Marge Holland**

Local Host, 2010 SCC SWS Fall meeting

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