



# ASLO 2004 Program Summer Meeting

The Changing Landscapes of Oceans and Freshwater  
June 13-18, 2004 · Savannah International Trade & Convention Center · Savannah, Georgia · USA

[www.aslo.org/savannah2004](http://www.aslo.org/savannah2004)



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## Welcome to the ASLO 2004 Summer Meeting!

The ASLO 2004 Summer Meeting will provide a forum for researchers to highlight recent advances with an emphasis on fully exploring the changing landscapes of oceans and freshwater. In addition to traditional topics presented at ASLO summer meetings, participation has been expanded to include those in wetland sciences, marine processes, biodiversity and ecosystems function, interfaces among terrestrial, freshwater, and marine environments, and new instrumentation approaches. Presentations will be inclusive of all areas of aquatic science.

Make your plans to arrive early! This year's meeting will begin on Sunday afternoon with a Presidential Address from Pete Jumars, ASLO President, on The State of the Society, followed by an opening welcome mixer reception. Plan to arrive in time to register and hear this exciting talk before you attend the reception. On Monday morning, the 2004 ASLO Awards will be announced, followed by the plenary lecture featuring Wallace S. "Wally" Broecker. Poster sessions and receptions are scheduled to provide a second opportunity to make professional connections in a social setting. Daily conference events will be held at the Savannah International Trade and Convention Center.

## 2004 Summer Meeting Presidential Address

### The State of the Society

Peter Jumars, ASLO President

Sunday, June 13, 2004, 5:30 to 6:30 p.m.

Chatham Ballroom



ASLO President Peter Jumars will address the "state of the society" on Sunday afternoon immediately prior to the opening welcome mixer reception. He will talk about ASLO's present and past accomplishments and its future directions.

ASLO President Peter A. "Pete" Jumars is professor of oceanography and marine science at the Darling Marine Center, University of Maine, Walpole, Maine. He received his B.A in biological sciences in 1969 from the University of Delaware, Newark, Delaware, and his Ph.D. in oceanography in 1974 from Scripps Institution of Oceanography, University of California San Diego. He completed his postdoctoral work from 1974 to 1975 at the University of Southern California in polychaete systematics.

Pete Jumars has been in his current position at the Darling Marine Center since 1999. Prior to that he was at the School of Oceanography, University of Washington, in Seattle, Washington, and with the Oceanic Biology Program and Sediment Dynamics Program in the Office of Naval Research, Arlington, Virginia. Throughout his career he has supervised 11 completed Ph.D.s and substantially more assorted MS students and interns in addition to four postdocs. His research interests are biological-physical interactions, including biomechanics, unsteady flows at low Reynolds numbers, and sedimentary acoustics; predictive theory in ecology; deposit feeding; digestion theories and observations, both for animals with guts and for bacteria; and biology of polychaetes.

His teaching interests include fluid and sedimentary biomechanics and organism-sediment-chemistry-physics interactions.

Jumars holds numerous society affiliations in addition to ASLO. He is involved with the American Association for the Advancement of Science, American Geophysical Union, British Ecological Society, Council of Scientific Society Presidents, and the Society for Integrative and Comparative Biology. Jumars became president of ASLO in 2002 and will serve through 2004. He has served on the board as a member-at-large and president-elect. He also was editor-in-chief, *Limnology and Oceanography*, from 1986 to 1992. The society recognized Jumars with the G. Evelyn Hutchinson Award in 1994.

## Plenary Address

### The Great Ocean Conveyor and the Angry Climate Beast

Wallace S. "Wally" Broecker, Newberry Professor of Earth and Environmental Sciences, Lamont-Doherty Earth Observatory  
Monday, June 14, 2004, 9:00 a.m.  
Chatham Ballroom



Wallace S. "Wally" Broecker will be the plenary speaker for Monday. He is the Newberry Professor of Earth and Environmental Sciences at the Lamont-Doherty Earth Observatory in Palisades, New York. He received his Ph.D. from Columbia University in 1958 and became an assistant professor there in 1959. Broecker was made associate professor in 1961 and became professor in 1964. He has been the Newberry Professor of Earth and Environmental Sciences since 1977. Broecker became a member of the National Academy of Sciences in 1979. His research interests include paleoclimatology, ocean chemistry, isotope dating and environmental science.

In his work, he explores the clear evidence that different parts of the earth's climate system are linked in very subtle yet dramatic ways and that the climate system has jumped from one mode of operation to another in the past. He is trying to understand how the earth's climate system is engineered, so we can understand what it takes to trigger mode switches. Until we do, we cannot make good predictions about future climate change. Broecker's research is directed toward the role of the oceans in climate change. Over the last several hundred thousand years, climate change has come mainly in discrete jumps that appear to be related to changes in the mode of thermohaline circulation. We place strong emphasis on using isotopes as a means to understand physical mixing and chemical cycling in the ocean, and the climate history as recorded in marine sediments.

Broecker's career has included numerous honors and awards. Among his most recent awards are the Tyler Prize for Environmental Achievement from the University of Southern California and the Arthur L. Day Prize and Lectureship from the National Academy of Sciences in 2002. The Don J. Easterbrook Distinguished Scientist Award from the Geological Society of America was awarded him in 2000, and he received the Desert Research Institute's 1999 Nevada Medal. In 1996, Broecker received the National Medal of Science. His honors include the DOCS Distinguished Lecturer (Louisiana State University), 1997; Zucker Fellow (Yale University), 1997; Silver Lecturer (University of New Mexico), 1997; Fellow, American Geophysical Union; Fellow, European Geophysical Union, 1992; National Academy of Science, 1979; and American Academy of Arts and Sciences, 1976.

## About the Conference Meeting Site

This meeting has been carefully planned to provide an appropriate atmosphere and numerous opportunities to interact with colleagues and friends. All plenary sessions, exhibits, posters, and the special and contributed sessions will take place at the Savannah International Trade and Convention Center. Opened in early 2000, the Savannah International Trade and Convention Center is the centerpiece of a remarkable renaissance blending the best of the Old and New South in one of America's most historic cities. The state-of-the-art facility offers impressive vistas of Savannah's bustling waterfront along nearly 1800 feet of public river walk.

## About Savannah



Savannah is a city rich in history, Southern charm, and old-fashioned hospitality. Savannah traces its roots back to 1733 when British General James Oglethorpe first founded the city on a bluff above River Street. Today, Savannah offers world-class restaurants, Civil War forts, dozens of art galleries, fine antique shops, and much more. Visitors revel in our elegant architecture, ornate ironworks, fountains and lush green squares. Savannah's natural beauty is

rivalled only by the city's hospitable reputation and charm.

Savannah has one of the largest historic districts in the United States, with thousands of architecturally significant buildings nestled under giant live oaks hung with Spanish moss. Known as The Hostess City of the South, Savannah attracts visitors from across the country and around the world. The city is brimming with activity all year round. From walking tours to deep-sea fishing excursions, there are plenty of things to do in Savannah. Whether you're looking to relax at a local day spa or to explore Savannah's historic treasures, you can discover Savannah at your own pace!

When it comes to sightseeing, Savannah has some of the finest historic homes, museums, and historic sites in the Southeast. From Civil War forts to English Regency house museums, Savannah offers a broad range of sightseeing options for visitors and residents alike. With all of the area's unique history, arts and architecture, be sure to take the time to enjoy all that Savannah has to offer!

Savannah is situated at the mouth of the Savannah River, which forms the border between Georgia and South Carolina. The city is precisely located at 31 degrees, 4 minutes north latitude and 81 degrees, 5 minutes west longitude. The area has a large network of rivers and creeks, many of them under tidal influence. The Intracoastal Waterway runs along the east coast, much of which is comprised of ecologically vital marshes.

Savannah enjoys a subtropical climate that makes outdoor activities possible year-round. The summers are hot, and the winters are mild. The temperatures during the month of June typically reach into the upper 80° Fahrenheit (27° Celsius) range during the day with evening lows near 70° Fahrenheit (21° Celsius).

## Housing Arrangements

Housing arrangements for the 2004 ASLO Summer Meeting have been made at a variety of hotels, all easily accessible to the convention center by water taxi or alternate transportation, and offering a wide range of room rates that will allow you to select the one that best fits your needs. Room rates range from \$113 USD per night to \$152 USD per night. Hotel reservation information is included in this brochure with complete room rate and reservation information listed for each hotel.

## Transportation

The Savannah International Trade and Convention Center is a waterfront property located on Hutchinson Island. Thus, its location will provide a unique opportunity for the attendees to use water transportation. A water transportation system, including ferries and water taxis, links Hutchinson Island with River Street and Chatham Area Transit's free shuttle bus service. Bus service will be available from conference hotels to the convention center on a regular schedule from 7 a.m. until 6 p.m. The busses will run every 15 minutes during peak times and every 30 minutes at other times. Free water transportation passes and bus service will be provided only to those staying at one of the official conference hotels. (See page 11 of this brochure for a list and information on these hotels.)

## For More Information

For more information on the ASLO 2004 Summer Meeting, please contact:

Helen Schneider Lemay  
Registration Coordinator and Meeting Manager  
ASLO Business Office  
5400 Bosque Boulevard, Suite 680  
Waco, Texas 76710-4446  
Phone: 254-399-9635, Toll-Free: 800-929-ASLO  
Fax: 254-776-3767  
E-mail: [business@aslo.org](mailto:business@aslo.org)

## Conference Committee

### Conference Co-chairs:

Amy Parker, US EPA  
([Parker.Amanda@epa.gov](mailto:Parker.Amanda@epa.gov))

Alan Decho, University of South Carolina  
([awdecho@gwm.sc.edu](mailto:awdecho@gwm.sc.edu))

### Planning and Steering Committee Members:

Willem Goedkoop, Swedish Univ. of Agricultural Sciences  
([willem.goedkoop@ma.slu.se](mailto:willem.goedkoop@ma.slu.se))

Jan Stevenson, Michigan State University  
([rjstev@msu.edu](mailto:rjstev@msu.edu))

Ramesh Reddy, University of Florida  
([krr@ufl.edu](mailto:krr@ufl.edu))

Kevin Carman, Louisiana State University  
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Matthew Gilligan, Savannah State University  
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Joel Kostka, Florida State University  
([jkostka@ocean.fsu.edu](mailto:jkostka@ocean.fsu.edu))

Naomi Detenbeck, U.S. EPA Environmental Effects Research Lab  
(detenbeck.naomi@epa.gov)

Howard Riessen, SUNY College at Buffalo  
(riesshep@buffalostate.edu)

Peter Verity, Skidaway Institute of Oceanography  
(peter@skio.peachnet.edu)

Helen Schneider Lemay, Conference Manager  
ASLO Business Office (business@aslo.org)

### ASLO Board Members

Peter A. Jumars, President  
University of Maine

M. Robin Anderson, Secretary  
Fisheries and Oceans Canada

Lynda Shapiro, Treasurer  
Oregon Institute of Marine Biology

Jonathan Cole, President-Elect  
Institute of Ecosystem Studies

William Lewis, Past-President  
Center for Limnology, University of Colorado

Deborah Bronk, Member-at-Large  
College of William and Mary/VIMS

Robert Sterner, Member-at-Large  
University of Minnesota

Daniel Conley, Member-at-Large  
National Environmental Research Institute, Denmark

Carol Folt, Member-at-Large  
Dartmouth College

Morten Sondergaard, Member-at-Large  
University of Copenhagen

Curtis Suttle, Member-at-Large  
University of British Columbia

Peter Williams, Member-at-Large  
School of Ocean Sciences, United Kingdom

Letise Houser, Student Representative  
University of Delaware

Colin Stedmon, Student Representative  
National Environmental Research Institute

### ASLO Staff Members

Everett Fee, Editor-in-Chief  
*Limnology & Oceanography*

Lucille Doucette, Journals Manager  
*Limnology & Oceanography*

Gregory Cutter, Editor, *L&O Bulletin*  
Old Dominion University

Paul Kemp, Web Editor and Editor, *L&O Methods*  
Stony Brook University

Susana Feng, Managing Editor  
*L&O Methods*

Adrienne Froelich, Director of Public Policy

Helen Schneider Lemay, Business Manager  
sg Meeting & Marketing Services

### Future ASLO Meetings

#### ASLO 2005 Aquatic Sciences Meeting

February 20-25, 2005  
Salt Lake City, Utah

#### ASLO 2005 Summer Meeting

June 19-25, 2005  
Santiago de Compostela, Spain

#### ASLO 2006 Summer Meeting

June 4-9, 2006  
Victoria, B.C., Canada

#### ASLO 2007 Winter Meeting

February 4-9, 2007  
Santa Fe, New Mexico

### Presentation Archive

Abstracts of papers presented during the ASLO 2004 Summer Meeting will be published in the conference abstract book as well as archived on the ASLO web site following the meeting.

### Commercial and Nonprofit Exhibits and Additional Sponsorship Opportunities

An exhibit area will be set up in Exhibit Hall A in the Savannah International Trade and Convention Center. Due to the location of the convention center, sessions and exhibits will begin at 9:00 a.m. Exhibits will be open Tuesday, June 15, Wednesday, June 16, and Thursday June 17, during conference hours. Attendees will have access to the exhibit hall during the conference hours, posters will be on display in the exhibit hall, and morning and afternoon coffee breaks will be set Tuesday, Wednesday, and Thursday in the exhibit area as well.

#### Academia Book Exhibits

Bruce Davis  
3512 Willow Green Court  
Oakton, VA 22124  
703-716-5537 Voice, 703-620-3676 Fax  
<http://www.acadbkex.com>

#### Astoria-Pacific, Inc.

Tom Swenson  
PO Box 830  
Clackamas, OR 97015-0830  
321-409-1195 Voice, 321-409-1882 Fax  
<http://www.astoria-pacific.com>

#### Elsevier

Diana Murray  
360 Peirn Avenue South  
New York City, NY 10010  
212-633-3767 Voice, 212-633-3112 Fax  
<http://www.elsevier.com>

**Odom Hydrographic Systems, Inc.**

Kelly Marbry  
1450 Seaboard Avenue  
Baton Rouge, LA 70810  
225-769-3051 Voice, 225-766-5122 Fax  
<http://www.odomhydrographic.com>

**Oxford University Press**

Mary Haley  
198 Madison Avenue  
New York City, NY 10016  
212-726-6079 Voice, 212-726-6446 Fax  
<http://www.oup.com/us>

**Springer-Verlag New York, Inc.**

Acasia Dalmau-Lopez  
175 Fifth Avenue  
New York City, NY 10010-7858  
212-460-1600 Voice, 201-272-4505 Fax  
<http://www.springer-ny.com>

**Stevens Water Monitoring Systems, Inc.**

Fred Holloway  
5465 S.W. Western Avenue, Suite F  
Beaverton, OR 97005  
503-469-8000 Voice, 503-469-8100 Fax  
<http://www.stevenswater.com>

Exhibitors are invited to participate in the topical sessions by utilizing the two complimentary registrations, which have been allotted to each organization. Additional representatives may attend the various social activities associated with the meeting by paying the spouse/guest fee of \$100.00 USD. For more information, please see the registration section on page 10. Both commercial and nonprofit exhibitors are encouraged to participate. The costs for exhibits are as follows:

Commercial (For-profit) .....	\$1150.00 USD
Non-profit .....	\$750.00 USD

Several opportunities are available for sponsorship of various breaks, receptions and other functions throughout the meeting. Please contact the Exhibits/Sponsorship Coordinator at the ASLO Business Office, (800) 929-ASLO or (254) 399-9635 if you would like more information.

**Opportunities and Information for Students**

For up-to-date information on all planned student events, housing recommendations, room sharing opportunities and the Career Link Program, please check the ASLO conference web site at <http://www.aslo.org/savannah2004> and click on Student Information.

**ASLO Student Meeting**

The ASLO Student Meeting will be held from 12:00 to 1:15 p.m. on Monday, June 14, 2005 in Ballroom A.

**Minorities Program**

The 15th annual ASLO Minorities Program will be held at the 2004 Summer Meeting. The initiative is a shared undertaking between

Hampton University and ASLO and is funded by the Ocean Sciences Division of the National Science Foundation. Minority students will attend a field trip and give presentations in a student symposium. These students will participate in a special session on Monday, June 14, in room 205 of the Savannah International Trade and Convention Center. Students participating in this program will be aided by ASLO member volunteers who will serve as meeting mentors. If you would like to recommend a student for the program, or if you are interested in serving as one of the meeting mentors, please contact:

Dr. Ben Cuker  
Marine Science Department  
Hampton University  
Hampton, VA 23668  
Phone: 757-727-5884 · Fax: 757-727-5740  
E-mail: [benjamin.cuker@hamptonu.edu](mailto:benjamin.cuker@hamptonu.edu)

**Outstanding Student Poster Awards**

ASLO will present several awards for the most outstanding posters presented by student members. Posters in all areas of aquatic science are appropriate, including theory, modeling, and laboratory or field experimentation. To be eligible, the student must be an ASLO member and first author on research that has not been presented previously at ASLO or other scientific meetings. Presentations will be judged on the basis of innovation/scientific insight, quality of experimental design/methods, and clarity/effectiveness of presentation. All posters submitted by students will be considered for the student poster awards. There is no need to apply.

Student posters will be judged immediately following the conclusion of the poster set-up time on Monday afternoon, June 14, 2004. Therefore, posters that are not in place by this time will not be eligible for awards and will not be judged.

**Volunteers Needed for Poster Judging**

Post docs and professionals who are members of ASLO are invited to serve as poster judges. Each judge will be responsible for evaluating 10 posters. Please indicate your area of expertise and interest in serving as a volunteer by sending an e-mail to: Colin Stedmon at [CST@DMU.dk](mailto:CST@DMU.dk).

**Career Link Program**

Prospective employers and supervisors are invited to post job announcements free of charge at the conference. Positions advertised on the ASLO web site will be printed out and posted. In addition, advertisements can be sent to Letise Houser at [lthouser@Udel.edu](mailto:lthouser@Udel.edu), who will ensure that they are posted for viewing during the meeting. Likewise, students are invited to post one-page resumes for viewing. Electronic versions of ads and resumes will be distributed free of charge after the meeting. To learn more about the Career Link Program, please go to the following page on the ASLO web site: <http://www.aslo.org/career/careerlink.html>.

**Roommates Wanted**

Roommates Wanted is a free on-line service to those who are seeking roommates during ASLO meetings. To participate, visit ASLO's website at <http://www.aslo.org/meetings/roommates.html>.



## Conference Events

### Registration

Date: Sunday, June 13, 2004 – 3:00 to 9:00 p.m.  
 Monday, June 14, 2004 through Thursday,  
 June 17, 2004 – 7:00 a.m. to 5:00 p.m.  
 Location: Exhibit Hall A Lobby

Conference attendees are encouraged to register on Sunday afternoon so that they will have their programs and materials prior to the opening reception for the conference on Sunday evening and before the general session begins on Monday morning.

### Presidential Address The State of the Society

Date: Sunday, June 13, 2004 - 5:30 p.m. to 6:30 p.m.  
 Location: Chatham Ballroom

ASLO President Peter Jumars will address the "state of the society" on Sunday afternoon immediately prior to the opening welcome mixer reception. He will talk about ASLO's present and past accomplishments and its future directions.

### Opening Welcome Mixer Reception

Date: Sunday, June 13, 2004 - 6:30 p.m. to 8:30 p.m.  
 Location: River Concourse Foyer

An opening welcome mixer reception will be held on Sunday evening at the Savannah International Trade and Convention Center. In addition to the reception, the conference registration area will be open so that you can check-in for the meeting at this time.

### Opening Session and ASLO Awards Presentation

Date: Monday, June 14, 2004 - 9:00 to 10:40 a.m.  
 Location: Chatham Ballroom

Attendees of the 2004 ASLO Summer Meeting will attend the welcome and opening session on Monday morning. Society awards and the plenary lecture will immediately follow. Society award recipients will be recognized and honored as part of the general session.

### Annual Business Meeting

Date: Monday, June 14, 2004 - 5:30 to 6:30 p.m.  
 Location: Room 100

ASLO's annual business meeting is scheduled for Monday evening from 5:30 to 6:30 p.m. at the convention center. All ASLO members and meeting participants are encouraged to attend.

### Poster Sessions and Receptions

Dates: Tuesday, June 15 and Wednesday,  
 June 16, 2004 - 3:30 to 5:30 p.m.  
 Location: Exhibit Hall A

Poster sessions and receptions will take place in the convention center on Tuesday and Wednesday evenings. Poster sessions are an important part of the 2004 Summer Meeting and provide invaluable contribution to the theme. Posters will be on display during the reception each evening and exhibits will be open during this time.

### National Science Foundation - Update on Funding Opportunities for Biological Research

Date: Tuesday, June 15, 2004 – 12:00 to 1:30 p.m.  
 Location: Room TBD

During recent years, the National Science Foundation has developed many new opportunities for funding that are directly applicable to scientists involved in ocean, freshwater/terrestrial, and other forms of biological research. Dr. Matthew Kane, National Science Foundation, Div. Molecular and Cellular BioSciences (BIO/ MCB), will discuss such new and emerging funding programs. Examples will include: Assembling the Tree of Life (AToL); Biocomplexity in the Environment (BE); Frontiers in Integrative Biological Research (FIBR); Interagency NSF/USDA Microbial Genome Sequencing Program (MGSP); Interagency NSF/NIH Ecology of Infectious Diseases Program (EID); Microbial Observatories and Microbial Interactions & Processes (MO & MIP); National Ecological Observatory Network (NEON); Research in BioGeosciences (BioGeo); Research Coordination Networks (RCN). For more information, contact Dr. Kane at mkane@nsf.gov.

### Wednesday Evening Riverboat Cruise and Dinner (Optional)

Date: Wednesday, June 16, 2004  
 Participants will board at the riverboat dock located at 9 East River Street at 6:30 p.m. and will return at 9:30 p.m.

Cost: Adults: \$38.00 per person  
 (Price includes the riverboat cruise and dinner.)  
 Tickets may be purchased thru 12:00 p.m.  
 Monday, June 14, 2004.

No visit to Savannah is complete without a riverboat cruise along beautiful historic River Street. The River Street Riverboat Company operates Savannah's premier dinner entertainment cruise ships. The riverboats cruise year round from their riverfront dock located at 9 East River Street (directly behind City Hall and next door to the Hyatt Regency). The dinner will have a truly Southern flare with assorted salads, fried chicken, barbeque pork, macaroni and cheese, Savannah red rice, green beans, buttered corn, cornbread, fresh fruit, desserts and iced tea and coffee. A cash bar will be available on board the riverboat. Participants will be shown a view of Savannah and will experience a part of the South that they will never forget!

### Field Trip: Tour of Savannah Coastal Environments and Marine Science Facilities by Bus and Boat

Date: Sunday, June 13, 2004 - Participants will board busses at 8:00 a.m. and will return at approximately 2:00 p.m.

Cost: \$70.00 (Price includes bus transportation, tour of facilities, boat transportation, and lunch.) Tickets may be purchased thru Wednesday, June 9, 2004.

Led by faculty and staff from Savannah State University (SSU), the Skidaway Institute of Oceanography (SKIO), and the University of Georgia (UGA), field trip participants will board busses on River Street at 8:00 a.m. on Sunday, June 13, 2004, for a tour of the marine science facilities and habitats at SSU and on Skidaway Island (SKIO, UGA, NOAA Gray's Reef National Marine Sanctuary). Here the group will board the "Spirit of Harbortown" for a lunch

cruise/tour along coastal salt marsh waterways. Local researchers will provide brief presentations about harvested resources, crab decline, dying marshes, local natural history (birds, reptiles, and dolphins), coastal water quality and dynamics (coastal oceanography). Students from the ASLO Minorities Program will join field trip participants. The group will tour the Savannah River and will return back to Savannah by mid-afternoon.

### Additional Conference Events and Organized Activities

Information on workshops and field trips may be added at a later date. Please check the conference web site: <http://www.aslo.org/savannah2004> or call the ASLO Business Office: (254) 399-9635 or (800) 929-ASLO.

## Instructions for Poster Presenters, Oral Presenters, and Session Chairs

### Abstracts

Abstracts for this meeting will be posted and archived on the ASLO Website (<http://www.aslo.org>), and a complete book of abstracts will be distributed to registered attendees at the meeting.

### Poster Presentations

Poster sessions are an important part of the ASLO 2004 Summer Meeting and provide invaluable contributions to the theme and sub-themes. Posters will be on display in Exhibit Hall A of the Savannah International Trade and Convention Center on Tuesday, Wednesday, from 8:00 a.m. to 5:30 p.m., and Thursday from 8:00 a.m. until 3:30 p.m. Poster sessions will coincide with the poster reception Tuesday and Wednesday afternoons from 3:30 to 5:30 p.m. Refreshments will be served during the poster sessions. Authors should be available for discussion purposes during each poster session reception.

All poster presenters were notified of their poster number in advance of the meeting. If you did not receive such notification, please contact the conference management office at [business@aslo.org](mailto:business@aslo.org) or call 800-929-2756 or 254-399-9635.

Actual poster space will be 40 inches high by 44 inches wide (3 ft. 4 in. high by 3 ft. 8 in. wide or 1.016m high by 1.1176m wide) in size. Size requirements must be strictly adhered to so that they fit within the space assigned to them. If your poster exceeds these specifications, it may be subject to removal.

It is very important that poster presenters adhere to the designated set up and tear down instructions and times. Posters may be set up on Monday, June 14, 2004, from 3:00 to 5:00 p.m. You will set up your poster according to your assigned number and to the sequential numbers on the poster boards. Student posters will be judged immediately following the conclusion of the poster set-up time on Monday afternoon. Therefore, student posters that are not in place by this time will not be eligible for awards and will not be judged.

All posters must be dismantled on Thursday, June 17, from 3:30 to 5:30 p.m. If the presenting author has not dismantled a poster by the designated time, the convention decorator may discard it.

### Oral Presentations

All concurrent sessions will take place at the Savannah International Trade and Convention Center. With the exception of tutorials, oral

presentations will be a total of 20 minutes in length, including set up, questions, and discussion. Please plan to allow at least five minutes for questions and discussion time. Session chairs have been instructed to strictly adhere to the schedule so that participants may move quickly among the concurrent session locations. If a presentation should be cancelled for any reason, this time will be used for additional discussion or a stretch break.

Presenters will not be allowed to provide their own laptop computer, and, in fact, personal laptop computers cannot be plugged into projectors in oral session rooms.

### Pre-Conference Presentation Uploading

It is highly recommended that you submit your presentation prior to the conference via the conference FTP site established through AVHQ Speaker Services. All individual presentations will be password protected. As a presenter for the 2004 ASLO Summer Meeting, you will access the site and your presentation using the same user name and password you were given for your conference abstract submission.

Please follow these easy instructions for pre-conference uploading of your presentation via the secure FTP site:

1. Go to the ASLO 2004 Summer Meeting Website ([www.aslo.org/meetings/savannah2004](http://www.aslo.org/meetings/savannah2004))
2. On the front page of the conference web site, select the link for AVHQ Speaker Services ([www.avhqspeakerservices.com](http://www.avhqspeakerservices.com))
3. Select "Submit Your Presentation."
4. Select 2004 ASLO Summer Meeting from the dropdown list of available conference/shows.
5. Select "Presenter Login."
6. Login with the same user name and password that you were assigned for the ASLO 2004 Summer Meeting. (You received your user name and password in your Abstract Submission Confirmation for the ASLO 2004 Summer Meeting.)
7. You will be presented with two options: Update "Previously Added Presentation" or "Submit New Presentation." If you are submitting your presentation for the first time, select "Submit New Presentation."
8. Click on "Upload New Presentation."
9. Fill out questionnaire.
10. Click "Submit."
11. Click the "Upload File" button. An "Upload File" box will open up. Use the Browse button to find your presentation and click "Upload File."
12. Wait for the website to tell you that your presentation has been submitted.
13. You will receive an immediate confirmation of receipt. Within 72 hours, you will receive another e-mail that your file has been checked and accepted.

This is the best way to submit your presentation. You will receive confirmation of your submitted presentation from AVHQ Speaker Services. You will also find helpful information and tips on creating better presentations.

If there is a problem with uploading during the submission process, a technician will walk you through the steps on the telephone tech support line. Once uploaded, speaker technicians will open the presentation file to make sure everything will open and execute



correctly. If any changes are made, AVHQ will notify the presenter via e-mail or phone and advise them as to whether it is correct or if further work is needed. Regarding security, AVHQ will download the presentations that are uploaded each day, take them off the ftp site, and place them on their local secure server.

**Bring a back-up copy of your presentation with you to the meeting on either a disk/CD-ROM or DVD-ROM.**

### Speaker Ready Room

A speaker ready room will be located in Room 102 of the Savannah International Trade and Convention Center for presenters to preview their materials and run-through their presentations. The speaker ready room will be open from 1:00 to 9:00 p.m. on Sunday, from 7:00 a.m. to 7:00 p.m. on Monday, Tuesday, and Wednesday, and then from 7:00 a.m. to 3:30 p.m. on Thursday.

### Presentation Room

Audio-visual technicians will be available in the Room 101 of the Savannah International Trade and Convention Center from 1:00 to 9:00 p.m. on Sunday and from 7:00 a.m. to 7:00 p.m. on Monday, Tuesday, Wednesday, and Thursday.

If you do not submit your presentation prior to the conference, you must bring your PowerPoint presentation to Room 101 at least 24 hours before your presentation. Qualified technicians can help you transfer your presentation from your laptop, if necessary. Speakers will have the ability to review and make changes to their PowerPoint presentations in the presentation room. It is recommended that each presentation be reviewed no less than three hours before the start of the session.

If you are using slides, extra slide carousels will be provided. If you are using one of these carousels, please mark it with your name using the tape and markers that will be provided in the room.

### PC and Macintosh Platforms

All PC computers in the presentation room will be installed with Microsoft Office 2000®. PowerPoint presentations created on the Macintosh platform should work, but Macintosh presentations should be reviewed in the speaker ready room to make sure all fonts and video clips are present in the form they were created in. Macintosh users should name their presentations with a .ppt suffix (example: presentation.ppt).

### Microsoft XP

If you are using Microsoft Office XP, please save your PowerPoint presentation down to the PowerPoint 97-2000 version.

### "Pack & Go"

The "Pack & Go" utility within Microsoft PowerPoint is a useful tool to use when you place video and/or sound files within your presentation. It is also helpful when using non-standard fonts within your presentation. This utility will compress your presentation along with the associated files into a single compressed file. You can then copy your presentation onto a floppy disk, CD-R, CD-RW, or Zip disk and bring it to the speaker ready room, where it can be unpacked and reviewed. It is important to remember that Macintosh only offers this option in its Macintosh Office for OS X.

### Laptop Support

A-V technicians will offer support to remove presentations from laptops. This action will require the installation of Zip Disk drivers or the installation of other drivers for removable media. It also might be required to configure the network card. If you plan on having to remove your presentation from your laptop, it is advisable to show up to the presentation room as soon as possible, to work out any unforeseen problems.

### Media Support

We recommend you bring at least 2 copies of your presentation to the meeting in case there is a problem with one of them. When bringing your presentation on a disk, it may be on a Zip 100, Zip 250, CD-R, CD-RW, Compact Flash, Memory Stick, or 1.44 floppy. It is recommended that at least one backup copy of your presentation be brought to the presentation room when you check in.

### Additional Presentation Guidelines

Keep animations to a minimum. Although, when using a bulleted list of points, it may be useful to have the points appear.

Zip Disks, 1.44 Floppy, and CD's will be returned to the speaker.

All presentations will be deleted at the end of the day. All copies will be deleted at the end of the meeting.

If you plan to do a PowerPoint presentation, it is highly recommended that you have a backup of your presentation in the form of overhead transparencies.

All oral session rooms will be equipped with the following audio-visual equipment:

- 1 computer projector (PowerPoint)
- 1 PC computer
- 1 overhead projector
- 1 screen
- 1 laser pointer
- 1 timer
- 1 lavalier microphone

### Rental of additional audio-visual equipment:

Rental of a VCR, 35 mm slide projector, monitor, audio systems, provision of extra power outlets, extra tables, stands, etc. can be handled for an additional cost. Internet connectivity in the session room is also available at an additional cost. If you did not request extra equipment at the time your abstract was submitted, please contact Ed Berru at AVHQ Speaker Services by phone at 214-210-8075 or by email at eberru@avhq.com

Any costs for additional equipment will be billed to the abstract's presenting author.

For any PowerPoint presentation or audio-visual related questions, please contact:

Ed Berru  
 AVHQ Speaker Services  
 10540 N. Stemmons Freeway  
 Dallas, TX 75220  
 Office: 214-210-8075  
 Email: eberru@avhq.com

## Registration Information

Online registration is preferred and highly recommended. You can register electronically on the conference web site (<http://www.aslo.org/savannah2004>). Electronic registrations must include complete credit card information.

Every attempt has been made to allow secure transmissions of your credit card information and transaction, but ASLO assumes no liability for your credit card information when it is released electronically. All credit card transactions will be processed through the conference web site. Transactions are protected and encrypted using a secure socket layer (SSL) certificate provided by Verisign, Inc. SSL technology is the industry-standard method for protecting web communications. The SSL security protocol provides data encryption, server authentication, message integrity, and optional client authentication for a TCP/IP (internet) connection. Credit card verification and debit services will be provided by Authorize.net, a leading provider of Internet-based transaction services with thousands of online and traditional business customers around the world.

You will receive a separate electronic confirmation for each on-line form that you submit.

If registration by electronic means is not possible, please complete the registration form included in this book and send to the address listed below with payment or charge card information. Please return mailed-in registrations to:

ASLO Business Office  
5400 Bosque Boulevard, Suite 680  
Waco, Texas 76710-4446

Please make checks payable to: ASLO  
(All payments must be in U.S. dollars drawn on a U.S. bank.)

Registrations complete with purchase order or credit card information that are not accompanying an abstract submission can be faxed to: (254) 776-3767.

The full registration fee includes admission to all sessions, exhibits, evening sessions (unless otherwise specified), Sunday welcome reception and poster receptions (Tuesday and Wednesday), coffee breaks, book of abstracts, and the program book (sent to all registrants prior to the conference). Optional events such as any special organized activities, field trips, and the Wednesday evening riverboat cruise are not included.

Substantial savings apply if the payment and registration form are received on or before May 10, 2004.

### Substitutions or Cancellations

We understand that occasionally other responsibilities and personal obligations prevent you from attending a program for which you have registered. If you find that you will not be able to attend the ASLO meeting, we encourage you to send a substitute. Substitutions can be made at any time, even on-site at the conference.

If you find it necessary to cancel after you have already paid, we can refund your conference fee (less an \$80 USD processing fee) if we receive notice in writing on or before May 10, 2004. Due to the limited number of enrollments available, registrants who cancel on or after May 11, 2004, will be not be eligible for any part of a refund.

To provide cancellation notice and request a refund, please send a letter to: Helen Schneider Lemay, ASLO Business Office, 5400 Bosque Boulevard, Suite 680, Waco, Texas 76710-4446, fax your request to (254) 776-3767, or via e-mail to [business@aslo.org](mailto:business@aslo.org).

### Registration Fees

Fees are stated in U.S. dollars and must be paid in U.S. dollars.

In order to register as an ASLO member, you must be a current member of the society at the time that you register. Registration fee refunds will not be issued to those who register as a non-member and then later join the society.

- ASLO Members: \$350.00 USD on or before May 10, 2004 (\$410.00 USD after May 10, 2004)
- Non-members (Those who are not a member of ASLO): \$450.00 USD by May 10, 2004 (\$510.00 USD after May 10, 2004)
- ASLO Student Members: \$200.00 USD by May 10, 2004 (\$260.00 USD after May 10, 2004)
- Non-Member Students: \$250.00 USD by May 10, 2004 (\$310.00 USD after May 10, 2004)
- One-day registrations: \$150.00 USD
- Spouse/Guest: \$100.00 USD (Spouse and guest fees cover only the conference social events such as the Sunday welcome reception, coffee services, and the poster receptions (Tuesday through Thursday). Optional events are not included. However, spouses and guests are encouraged to register for the special activities. Spouses and guests cannot be admitted to the sessions without paying the appropriate full registration fee.
- A late fee of \$60.00 USD will be added to all registrations received after May 10, 2004.

Fees to attend ASLO's 2004 Summer Meeting must be paid in advance. Due to the limited numbers, registrations are not considered guaranteed until a check, money order, purchase order, or charge card information is received. All fax registrations must include complete credit card information, including number, expiration date, and cardholder name. VISA, MasterCard, and American Express are accepted. Organizations can be billed only if a purchase order accompanies the registration either by fax or by mail.

Registration and any other fees listed on the conference registration form are payable in U.S. currency only.

If desired, confirmation will be sent to attendees upon receipt of each completed and paid registration.

### Conference Check-In and Registration

Registration prior to the meeting is strongly encouraged. By doing so, you will greatly reduce the amount of time necessary to complete the on-site registration process and pick up your meeting materials.

Meeting materials and name badges can be picked up on Sunday, June 13, 2004, at the Savannah International Trade and Convention Center, Exhibit Hall A Lobby, from 3:00-9:00 p.m. Registration will be opened each day at the convention center, Exhibit Hall A Lobby, from Monday, June 14, through Thursday, June 17, from 7:00 a.m. to 5:00 p.m.

Name badges will be included in your registration packet and must be worn at all times throughout the meeting. Your conference receipt will be included in with your badge.

Maps showing the various session and meeting room locations are included at the end of this program, so be sure to bring it with you to the meeting.

### Special Needs

If you have a disability or limitation that may require special consideration in order to fully participate, please contact the meeting's planning organization to discuss how we can accommodate your needs. Call 800-929-ASLO or 254-399-9635 or send e-mail to [business@aslo.org](mailto:business@aslo.org).

### Childcare

If you would like to connect with other attendees and arrange childcare together, please e-mail [alexism@sgmeet.com](mailto:alexism@sgmeet.com). You may also want to check with your hotel to see if they offer in-house day care services. Any arrangements made represent a contractual agreement between the individual and the childcare agency/provider selected. ASLO assumes no responsibility for the services rendered.

### Message and Jobs Boards

Messages for colleagues can be posted on message boards at the Savannah International Trade and Convention Center. A bulletin board also will be available to post job listings. If you know of pertinent job announcements, you are encouraged to take advantage of this opportunity by posting them on this board. If you know of a job opportunity and would like to submit a listing but will not be able to attend the meeting, please e-mail a brief description to the ASLO student board representative Letise Houser at [lhouser@udel.edu](mailto:lhouser@udel.edu) by May 17, 2004.

### E-mail Access

E-mail terminals to access electronic mail will be set up in Room 104 of the Savannah International Trade and Convention Center during conference hours Sunday through Thursday. We also suggest you check with your hotel regarding the e-mail facilities and instructions on access.

### For More Information

For more information on the ASLO Summer Meeting, address all correspondence and questions regarding registration, conference logistics, and hotel accommodations to:

Helen Schneider Lemay  
Registration Coordinator and Meeting Manager  
ASLO Business Office  
5400 Bosque Boulevard, Suite 680  
Waco, Texas 76710-4446  
Phone: 254-399-9635, Toll-Free: 800-929-ASLO  
Fax: 254-776-3767  
E-mail: [business@aslo.org](mailto:business@aslo.org)

If your questions pertain to the program, please contact one of the meeting chairs. If you need information regarding content of a particular session, please contact the appropriate session organizer.

### Hotel and Accommodation Information

ASLO has selected eight (8) Savannah hotels to host attendees of the ASLO Summer Meeting. These hotels provide a range of sleeping room rates.

Please make your hotel reservations directly with the hotel of your choice by phone, fax, mail or Internet by the appropriate reservation cut-off date in order to guarantee the special meeting rates. We strongly encourage you to support ASLO by making your hotel reservations at one of the conference hotels listed in this program. As stated earlier, free water transportation will be provided to those who stay at one of the official conference hotels listed below. Alternate transportation also will be available for ASLO meeting attendees who are guests at these same hotels.

### Conference Hotels

#### Hilton Savannah DeSoto Hotel (Headquarter Hotel)

15 East Liberty Street  
Savannah, Georgia 31401  
Phone: 912-232-9000  
Toll-free: 800-426-8483  
Fax: 912-232-6018  
Rates: \$152 single occupancy/\$155 double occupancy  
Reservation Cut-off Date: May 17, 2004

Overlooking charming Madison Square, the Hilton Savannah DeSoto Hotel is ideally located in the heart of Savannah's popular historic, dining, shopping and theatre districts and a short walk to Savannah's bustling River Street and City Market. The hotel is located just 20 minutes from the Savannah International Airport and is located conveniently near the Intracoastal Marina. For over a century, the Historic Hilton Savannah DeSoto Hotel has been renowned for its traditional southern hospitality. Originally built in 1890, the Hilton Savannah DeSoto offers the same excellent service that made the DeSoto Hotel famous throughout the South as Savannah's grandest hotel. Guestrooms are traditionally and elegantly furnished and all have scenic views of Savannah's historic skyline. The Hilton Savannah DeSoto provides covered self-parking for registered guests at a charge of \$7 per day. Valet parking is available at the front entrance of the hotel for a charge of \$10 per day.

Savannah Marriott Riverfront  
100 General McIntosh Boulevard  
Savannah, Georgia 31401  
Phone: 912-233-7722  
Toll-free: 800-228-9290  
Fax: 912-233-3765  
Rates: \$142 single occupancy/\$145 double occupancy  
Reservation Cut-off Date: May 17, 2004

Located on the eastern edge of the historic riverfront and connected via the riverwalk to world-famous River Street, The Savannah Marriott Riverfront is within easy walking distance of the historic district where guests can enjoy the beautiful squares, historic house museums, art galleries, and antique shops. The Savannah Marriott Riverfront offers newly renovated guest rooms specifically designed for the business traveler. The hotel also features an indoor atrium with an indoor pool and lobby bar. Self-parking is available at the Marriott for \$7 per night.



The Mulberry Hotel  
601 E. Bay Street  
Savannah, Georgia 31401  
Phone: 912-238-1200  
Toll Free: 877-468-1200  
Fax: 912-236-2184  
Rates: \$138 single occupancy/\$141 double occupancy  
Reservation Cut-off Date: May 17, 2004

Located on beautiful Washington Square and within steps of Savannah's rich history, The Mulberry Inn takes you back to the elegance and graciousness of another era. Located in the heart of the historic district, the hotel features 145 newly renovated guest rooms. Throughout the hotel, you are sure to find that the period furnishings, oil paintings, polished hardwood floors, and elegant chandeliers offer an endless escape into Savannah's rich history. The Mulberry represents a style of service and hospitality that is traditional to the Old South. Self-parking is available at the Mulberry Hotel for \$8 per night.

River Street Inn  
124 East Bay Street  
Savannah, Georgia 31401  
Phone: 912-234-6400  
Toll Free: 800-253-4229  
Fax: 912-234-1478  
Rates: \$138 single occupancy/\$141 double occupancy  
Reservation Cut-off Date: May 17, 2004

The River Street Inn is located at the beginning of Savannah's landmark historic district. Wrapped around a central atrium, this five-story historic inn on Savannah's Riverfront is preserved to offer leisure and business travelers a taste of yesterday with all the modern conveniences. Rooms vary in theme and décor, from hardwood floors and four-poster beds, to plush carpeting and private balconies. All 86 guest rooms are well appointed, offering views of the Savannah River to the North and Savannah's Historic District to the South. The romantic ambiance of Savannah and the antebellum south is right outside your guest room. Guests can enjoy walking onto the French-style balconies to watch the huge ocean freighters pass, or watch the night sky through floor-length windows. The River Street Inn provides self-parking for registered guests at a charge of \$7 per day. Valet parking is available for a charge of \$10 per day.

Planters Inn  
29 Abercorn Street  
Savannah, Georgia 31401  
Phone: 912-232-5678  
Toll-free: 800-554-1187  
Fax: 912-232-8893  
Rates: \$132 single occupancy/\$135 double occupancy  
Reservations Cut-off Date: May 17, 2004

The elegant Planters Inn was created with a lavish attention to detail. This award-winning property blends the warmth and charm of a small Inn with the services of a grand hotel. A landmark building, Planters Inn opens onto historic Reynolds Square, where live oak trees, flowering azaleas, and horse drawn carriages set a

tranquil mood. A short stroll through the park leads to Savannah's bustling riverfront where renovated cotton warehouses now feature quaint shops and varied restaurants. It is only a short walk from the riverfront. The Inn's 60 guest rooms are all individually decorated in the finest fabrics and Baker furnishings. Our guest rooms are all accessed from quiet interior hallways, and offer four-poster rice beds, period furnishings and private baths. The Planters Inn will provide either self or valet parking to ASLO overnight guests for \$7 per night.

Hampton Inn  
201 East Bay Street  
Savannah, Georgia 31401  
Phone: 912-231-9700  
Toll Free: 1-800-576-4945  
Fax: 912-231-0440  
Rates: \$128 single occupancy/\$131 double occupancy  
Reservation Cut-off Date: May 17, 2004

The Hampton Inn Savannah Historic District is a beautiful new property built from the ground up. The lobby is furnished with antiques, lustrous heart pine floors, and authentic Savannah gray brick exposed brick walls. The hotel features a rooftop pool with a spectacular view of the Savannah River, fitness center, English pub-style fireside lobby bar and complimentary continental breakfast. The hotel also offers trolley pick-up for tours. The Hampton Inn will provide overnight self-parking for \$8 per night. Hotel parking is limited and overflow space should be available at the city garage located right across the street at the same rate.

Radisson Hotel Historic Savannah  
411 West Bay Street  
Savannah, Georgia 31401  
Phone: 912-790-7000  
Toll-free: 800-333-3333  
Fax: 912-790-7070  
Rates: \$122 single occupancy/\$125 double occupancy  
Reservation Cut-off Date: May 17, 2004

As an upscale boutique hotel, the Radisson Hotel Historic Savannah was designed to compliment its historic setting, while meeting the expectations of contemporary hotel guests. Throughout the hotel a subtle Celtic design can be found. Guest rooms feature 10-14 foot ceilings trimmed in crown molding that frame four poster mahogany beds. Suites feature marble spa tubs with separate showers, while the second floor hosts versatile meeting space, a cardio fitness center, terrace heated pool and spa. Radisson Hotel Historic Savannah has 150 guestrooms, featuring custom furnishings with an Irish accent such as mahogany 4-poster king beds and two 2-poster queen beds. The hotel, located at the corner of Montgomery Street and Bay Street, directly adjacent to "City Market," sits in the heart of Savannah's Historic District. The Radisson provides self-parking for registered guests at a charge of \$7 per day. Valet parking is available for a charge of \$10 per day.

Savannah-Days Inn & Suites Historic District  
 201 W. Bay Street  
 Savannah, Georgia 31401  
 Phone: 912-236-4440  
 Toll-free: 877-542-7666  
 Fax: 912-232-2725  
 Rates: \$113 single occupancy/\$116 double occupancy; \$130 one-bedroom suites plus \$3 per person  
 Reservation Cut-off Date: May 17, 2004

The Days Inn Historic Riverfront Savannah is a seven-story all interior corridor property cradled by majestic live oaks, beautiful flowing rivers and fascinating historic homes. The hotel is conveniently located between River Street and Old City Market. To reach River Street simply walk across Bay Street and follow the stone stairs down to enjoy unique shops, magnificent galleries, numerous restaurants and harbor cruises. A quick step behind the hotel will place you in City Market, a delightful area with artists at work in their studios, horse drawn carriage tours, outdoor cafes and a wonderful variety of live music. The Days Inn will provide parking for overnight guests at a rate of \$5 for self-parking per day.

## Transportation Information

### Special Airline Rates

The Savannah/Hilton Head International Airport is approximately 15 minutes from downtown Savannah. Delta Airlines is providing special rates for ASLO Summer Meeting attendees as the official airline for flights to Savannah. Simply contact Delta's toll-free number at (800) 241-6760. You also can call your travel agent. To take advantage of the discounted fares being offered by Delta, please refer to Delta File Number: 201012A when making your reservations. Delta's new "bonus" program has increased the discount to 10% off the lowest applicable fare for tickets purchased less than 60 days prior to departure and 15% for tickets purchased at least 60 days prior to departure. By ensuring that the meeting number appears on your ticket, you will be supporting ASLO.

### Airport Shuttle Service

For a list of companies that provide courtesy vehicles, taxi cabs, and limited ground transportation services including limousines and shuttles to and from the Savannah International Airport to the various downtown hotels, please go to the airport's web site at: <http://www.savannahairport.com/groundtransport.php>

### Car Rental

AVIS has been appointed the official car rental company for the American Society of Limnology and Oceanography meeting in Savannah, Georgia. To make reservations if you are calling from the U.S., please call (800) 331-1600. If you live outside the U.S., please visit the website [www.avis.com](http://www.avis.com) for a list of international numbers to call and select Customer Service. You may also contact your travel agent. The AVIS Worldwide Discount Number for the ASLO meeting is: D130903. You also can make your reservations online and have your discount number automatically included by accessing the AVIS web site at: <http://www.avis.com/AvisWeb/html/meetings/go.html?1452>

When you complete the on-line reservation process, you will receive an email confirmation.

### Taxi/ Bus Service to the Airport

Taxi service from the Savannah International Airport to any of the conference hotels will cost approximately \$20.00 USD for one passenger. Typically taxi service operators charge for additional passengers at a rate of \$5.00 per passenger. If you prefer to take an airport shuttle bus or another type of transportation, please consult the Savannah International Airport web site for a list of services: <http://www.savannahairport.com/groundtransport.php>

### Local City Transportation

Chatham Area Transit (CAT) provides free transportation service on its CAT Shuttles between the Savannah Visitors Center on MLK, Jr. Boulevard and the waterfront, as well as throughout the historic district. The shuttle makes five stops in the waterfront area. The free CAT Shuttle serves Savannah's Downtown and Historic District and connects to other CAT bus routes and the Savannah Belles Ferry service that provides daily service between Hutchinson Island and River Street.

### Savannah International Trade and Convention Center Parking

For those attendees planning to bring their vehicles with them while visiting the Savannah International Trade and Convention Center, there are designated specific areas strictly to be used by clients and guests. The main parking lot is located adjacent to the facility and can be accessed by either of the two parking booths located at the east and west entrances of the center. The daily charge is \$2.00 per day per car.

## Meeting Schedule

**Sunday, June 13, 2004**

8:00 a.m. - 2:00 p.m.	Field Trip: Tour of Savannah Coastal Environments and Marine Science Facilities by Bus and Boat Busses will board at the Savannah International Trade and Convention Center on River Street at 8:00 a.m. and return to the same location at 2:00 p.m.	10:40 - 11:00 a.m.	Break Savannah International Trade and Convention Center- Chatham Ballroom Foyer
		11:00 a.m. - 12:00 p.m.	Morning Concurrent Oral Sessions Savannah International Trade and Convention Center - Various Rooms
3:00 - 9:00 p.m.	Registration Savannah International Trade and Convention Center – Exhibit Hall A Lobby	12:00 - 1:30 p.m.	Lunch Attendees on their own for lunch
		12:00 – 1:15 p.m.	ASLO Student Meeting Savannah International Trade and Convention Center – Ballroom A
5:30 - 6:30 p.m.	Presidential Address Savannah International Trade and Convention Center – Chatham Ballroom	1:30 - 3:10 p.m.	Afternoon Concurrent Oral Sessions Savannah International Trade and Convention Center - Various Rooms
6:30 - 8:30 p.m.	Opening Welcome Mixer Reception Savannah International Trade and Convention Center – River Concourse Foyer	3:00 - 5:00 p.m.	Poster Set-up Savannah International Trade and Convention Center - Exhibit Hall A

**Monday, June 14, 2004**

7:00 a.m. - 5:00 p.m.	Registration Savannah International Trade and Convention Center – Exhibit Hall A Lobby	3:10 - 3:30 p.m.	Break Savannah International Trade and Convention Center - Exhibit Hall A Foyer
		3:30 - 5:30 p.m.	Afternoon Concurrent Oral Sessions Savannah International Trade and Convention Center - Various Rooms
8:00 - 9:00 a.m.	Complimentary Coffee Service Savannah International Trade and Convention Center – Chatham Ballroom	5:30 - 6:30 p.m.	ASLO Business Meeting Savannah International Trade and Convention Center - Room 100
9:00 - 10:40 a.m.	Conference Welcome and Awards Presentation Dr. Peter Jumars, University of Maine, ASLO President		

**Tuesday, June 15, 2004**

	Plenary Address Dr. Wallace S. "Wally" Broecker, Newberry Professor of Earth and Environmental Sciences, Lamont-Doherty Earth Observatory, Palisades, New York	7:00 a.m. - 5:00 p.m.	Registration Savannah International Trade and Convention Center – Exhibit Hall A Lobby
	Savannah International Trade and Convention Center - Chatham Ballroom	8:00 a.m. - 5:30 p.m.	Exhibits Savannah International Trade and Convention Center - Exhibit Hall A
		9:00 - 10:20 a.m.	Morning Concurrent Oral Sessions Savannah International Trade and Convention Center - Various Rooms



10:20 - 10:40 a.m.	Break Savannah International Trade and Convention Center - Exhibit Hall A	3:30 - 5:30 p.m.	Poster Sessions and Receptions Savannah International Trade and Convention Center - Exhibit Hall A
10:40 a.m. - 12:00 p.m.	Morning Concurrent Oral Sessions Savannah International Trade and Convention Center - Various Rooms	6:30 - 9:30 p.m.	Evening Riverboat Cruise and Dinner Participants board at the Riverboat dock at 9 East River Street at 6:30 p.m. and return to the same location at 9:30 p.m.
12:00 - 1:30 p.m.	Lunch Attendees on their own for lunch		
12:00 - 1:30 p.m.	National Science Foundation - Update on Funding Opportunities for Biological Research Savannah International Trade and Convention Center - Room TBD	<b>Thursday, June 17, 2004</b>	
1:30 - 3:30 p.m.	Afternoon Concurrent Oral Sessions Savannah International Trade and Convention Center - Various Rooms	7:00 a.m. - 5:00 p.m.	Registration Savannah International Trade and Convention Center - Exhibit Hall A Lobby
3:30 - 5:30 p.m.	Poster Sessions and Receptions Savannah International Trade and Convention Center - Exhibit Hall A	9:00 - 10:20 a.m.	Morning Concurrent Oral Sessions Savannah International Trade and Convention Center - Various Rooms
		10:20 - 10:40 a.m.	Break Savannah International Trade and Convention Center - Exhibit Hall A
<b>Wednesday, June 16, 2004</b>		10:40 a.m. - 12:00 p.m.	Morning Concurrent Oral Sessions Savannah International Trade and Convention Center - Various Rooms
7:00 a.m. - 5:00 p.m.	Registration Savannah International Trade and Convention Center - Exhibit Hall A Lobby	12:00 - 1:30 p.m.	Lunch Attendees on their own for lunch
9:00 - 10:20 a.m.	Morning Concurrent Oral Sessions Savannah International Trade and Convention Center - Various Rooms	1:30 - 3:30 p.m.	Afternoon Concurrent Oral Sessions Savannah International Trade and Convention Center - Various Rooms
10:20 - 10:40 a.m.	Break Savannah International Trade and Convention Center - Exhibit Hall A	3:30 - 5:30 p.m.	Exhibit and Poster Teardown Savannah International Trade and Convention Center - Exhibit Hall A
10:40 a.m. - 12:00 p.m.	Morning Concurrent Oral Sessions Savannah International Trade and Convention Center - Various Rooms		
12:00 - 1:30 p.m.	Lunch Attendees on their own for lunch		
1:30 - 3:30 p.m.	Afternoon Concurrent Oral Sessions Savannah International Trade and Convention Center - Various Rooms		

Monday, June 14, 2004

SS04: The Interacting Effects of Temperature and Resources on Composition, Structure and Function of Aquatic Biota

Chair(s): Edward Hall, hall0506@umn.edu

Location: Room 203

11:00 AM Pomeroy, L. R.; Sheldon, W. M.; Wiebe, W. J.: LIFE BEYOND THE EDGE: IT'S NOT JUST TEMPERATURE

11:40 AM Hall, E. K.; Cotner, J. B.: INTERACTING EFFECTS OF TEMPERATURE AND NUTRIENTS ON NATURAL BACTERIOPLANKTON COMMUNITIES

1:30 PM Koch, M. S.; Schopmeyer, S. A.; Madden, C.: HYPERSALINITY AND HIGH TEMPERATURE EFFECTS ON THREE TROPICAL SEAGRASSES

1:50 PM Blukacz, E. A.; Sprules, W. G.; Shuter, B.: EVALUATING THE EFFECTS OF PREY HETEROGENEITY ON PREDATOR CONSUMPTION

2:10 PM Whitman, K. J.; Oviatt, C. A.; Keller, A. A.; Borkman, D. G.; Libby, P. S.: THE EFFECT OF WINTER WATER TEMPERATURES ON THE WINTER-SPRING PHYTOPLANKTON BLOOM IN MASSACHUSETTS BAY

2:30 PM Nedwell, D. B.; Rusmana, I.; Lloyd, D. L.: SELECTION BY TEMPERATURE AND NITRATE CONCENTRATION OF BENTHIC NITRATE REDUCING BACTERIAL POPULATIONS IN A NUTRIED ESTUARY.\*

SS09: Recovery of Shallow-Water Sediment Systems After Disturbance

Chair(s): Kristina Sundback, kristina.sundback@marbot.gu.se  
Carolyn Currin, Carolyn.Currin@noaa.gov  
Graham Underwood, gju@essex.ac.uk

Location: Room 204

3:30 PM Thrush, S.; Hewitt, J.; Cummings, V.; Lundquist, C.; Lohrer, A.: DISTURBANCE AND RECOVERY IN SOFT-SEDIMENTS: ECOLOGY AND RISK ASSESSMENT

4:10 PM Whitlatch, R. B.; Hamilton, J.; Osman, R. W.: SCALE-DEPENDENT RECOVERY DYNAMICS: THE ROLES OF LIFE HISTORIES AND TIDES

4:30 PM Norkko, A.: SCALE-DEPENDENT MACROFAUNAL RECOLONIZATION IN EPHEMERAL SOFT SEDIMENT HABITATS

4:50 PM Valente, R. M.: SEDIMENT-PROFILE IMAGING: A POTENTIAL TECHNIQUE FOR EVALUATING RECOVERY RATES OF SHALLOW-WATER SEDIMENT SYSTEMS

SS10: Biogeochemical Cycles and Macroecology in Coastal Wetlands

Chair(s): Yoko Furukawa, yoko.furukawa@nrlssc.navy.mil  
Erik Kristensen, ebk@biology.sdu.dk  
Joel Kostka, jkostka@ocean.ocean.fsu.edu

Location: Room 201

11:00 AM Morris, J. T.: RESPONSES OF COASTAL WETLAND PRODUCTIVITY AND BIOGEOCHEMISTRY TO CHANGING SEA LEVEL

11:40 AM Cornwell, J. C.: NUTRIENT BURIAL IN COASTAL PLAIN TIDAL MARSHES

1:30 PM Cook, P. M.; Butler, E. C.; Eyre, B. D.; Revill, A. T.; Volkman, J. K.: CARBON AND NITROGEN CYCLING ON INTERTIDAL MUDFLATS IN A TEMPERATE AUSTRALIAN ESTUARY

1:50 PM Gribsholt, B.; Boschker, H. T.; Andersson, M.; Struyf, E.; Trammer, A.; Brion, N.; De Brabandera, L.; Van Damme, S.; Dehairs, F.; Meire, P.: WHOLE ECOSYSTEM 15N LABELING TO IDENTIFY NITROGEN CYCLING IN MARSHES

2:10 PM Kostka, J. E.; Dollhopf, S. L.; Westbrook, D.; Smith, A.; Hunter, E.; Hyun, J.; Kristensen, E.; Alongi, D.: INFLUENCE OF MACROBENTHOS ON COUPLED NITRIFICATION-DENITRIFICATION AND N-TRANSFORMING MICROBIAL COMMUNITIES IN COASTAL WETLAND SEDIMENTS

2:30 PM Engelsen, A.; Larson, F. M.: THE IMPACT OF SEDIMENT PROCESSES ON INITIATION AND GROWTH OF GREEN ALGAL MATS

2:50 PM Ding, H.; Sun, M.: DIFFERENTIAL EFFECTS OF BENTHIC GRASS SHRIMP ON DEGRADATION OF VARIOUS ALGAL LIPIDS: EVIDENCE FROM MICROCOSM STUDY

3:30 PM Koretsky, C. M.; Miller, D.: A FIELD AND MODELING STUDY OF MACROPHYTE AND MACROFAUNAL EFFECTS ON SALT MARSH SEDIMENT PORE WATER AND SOLID PHASE GEOCHEMISTRY (SAPELO ISLAND, GA, USA)

3:50 PM Neubauer, S. C.; Givler, K.; Megonigal, J. P.: COMPETITION IN THE RHIZOSPHERE: EFFECTS OF WETLAND PLANT ROOTS ON RATES AND PATHWAYS OF ANAEROBIC CARBON METABOLISM IN FRESHWATER AND BRACKISH TIDAL MARSHES

4:10 PM Kristensen, E.; Alongi, D. M.; Kostka, J. E.: FIDDLER CRABS AND TREE ROOTS IN MANGROVE SEDIMENT: ECOLOGICAL AND BIOGEOCHEMICAL INTERACTIONS

4:30 PM Carey, E. A.; Taillefert, M.: NEW INSIGHTS ON THE FORMATION OF PYRITE IN SALT MARSH SEDIMENTS

4:50 PM Meile, C.; Berg, P.; Tuncay, K.: SPECIES DEPENDENT PORE WATER IRRIGATION: IMPLICATIONS FOR ELEMENTAL CYCLING IN EARLY DIAGENESIS

5:10 PM Furukawa, Y.: NUMERICAL MODEL REPRESENTATION OF THE BIOGEOCHEMICAL CYCLES IN COASTAL SALT MARSH ENVIRONMENTS

CS02: Benthos

Chair(s): Mary C. Curran, curranc@savstate.edu

Location: Room 203

3:30 PM Corcoran, A. A.; Dunsmuir, A.; Cebrian, J.; Pennock, J. R.: INVESTIGATING THE ROLES OF UVB RADIATION AND NUTRIENT ENRICHMENT IN BENTHIC MICROALGAL COMMUNITIES

3:50 PM Banaszak, A. T.; García Ramos, M.; Martínez Vázquez, D. M.: THE PRESENCE OF SYMBIOTIC DINOFLAGELLATES IN TISSUES OF GASTROPODS THAT UNDERGO METAMORPHOSIS

4:10 PM Aberle-Malzahn, N.; Hillebrand, H.; Grey, J.; Wiltshire, K. H.: SELECTIVITY AND COMPETITIVE INTERACTIONS BETWEEN TWO BENTHIC INVERTEBRATE GRAZERS- AN EXPERIMENTAL STUDY USING 13C- AND 15N-LABELLED DIATOMS

(\*) represents Tutorial presentations

- 4:30 PM Hollebone, A. L.; Hay, M. E.: AN INVASIVE CRAB IN THE SOUTH ATLANTIC BIGHT: HOW MANY, WHERE, AND WHAT ARE THEIR EFFECTS?
- 4:50 PM Rennie, M. D.; Collins, N. C.; Purchase, C. F.; Tremblay, A.: PREDICTIVE MODELS OF BENTHIC INVERTEBRATE METHYLMERCURY IN ONTARIO AND QUÉBEC LAKES
- CS08: Zooplankton  
Chair(s): TBD  
Location: Room 202
- 11:00 AM Kainz, M.; Arts, M. T.; Mazumder, A.: TRANSFER OF ESSENTIAL FATTY ACIDS WITHIN THE PLANKTONIC FOOD WEB AND ITS ECOLOGICAL ROLE FOR HIGHER TROPHIC LEVELS
- 11:20 AM Carotenuto, Y.; Lampert, W.: EFFECTS OF FRESHWATER DIATOMS ON FEEDING AND LIFE HISTORY OF DAPHNIA: NUTRITIONAL ADEQUACY AND OXYLIPIN PRODUCTION
- 11:40 AM Anderson, T. R.; Hessen, D. O.; Elser, J. J.: PHOSPHORUS, CARBON AND NITROGEN LIMITATION OF FRESHWATER ZOOPLANKTON STUDIED USING AN ADVANCED STOICHIOMETRIC MODEL
- 1:30 PM Acharya, K.; Kyle, M.; Elser, J. J.: GROWTH-RNA-PHOSPHORUS COUPLING: TEST OF GROWTH RATE HYPOTHESIS OF DAPHNIA
- 1:50 PM Johnson, C. R.; O'Brien, W. J.: VERTICAL AND TEMPORAL DENSITY DISTRIBUTION OF TWO COPEPODS, CYCLOPS SCUTIFER AND DIAPTOMUS PRIBILOFENSIS, IN TOOLIK LAKE, AK
- 2:10 PM Spaak, P.; Wolinska, J.: DO PARASITES INFLUENCE THE CO-EXISTENCE OF HYBRID AND PARENTAL DAPHNIA IN LAKES?
- 2:30 PM Hall, C. J.; Mueller-Solger, A.; Alemdar, C.; Liston, A.: FOOD RESOURCES FOR CALANOID COPEPODS IN THE SACRAMENTO-SAN JOAQUIN RIVER DELTA, CA.
- 2:50 PM Mellard, J. P.; Fields, D. M.; Brown, J.; Weissburg, M. J.; Yen, J.: BEHAVIORAL ADAPTATIONS OF A POLAR COPEPOD
- 3:30 PM Ajtai, P.; Kaufmann, R. S.: SWIMMING BEHAVIOR OF LARVAL MUSSELS (MYTILUS CALIFORNIANUS AND M. GALLOPROVINCIALIS)
- 3:50 PM Weithoff, G.: FOOD AND TEMPERATURE DRIVEN CHANGES IN LIFE HISTORY TRAITS OF TWO SYMPATRIC ROTIFERS
- 4:30 PM Gilbert, J. J.: FEMALES FROM FERTILIZED, DIAPAUSING EGGS AND PARTHENOGENETIC, SUBITANEOUS EGGS IN THE ROTIFER BRACHIONUS CALYCIFLORUS: STARVATION RESISTANCE AND FECUNDITY
- 4:50 PM Walsh, E. J.; Howard, S.; Bonilla, L.; Schroeder, T.: SEXUAL REPRODUCTION AND DIAPAUSE OF THE ROTIFER HEXARTHRA IN SHORT-LIVED PONDS OF THE CHIHUAHUA DESERT (HUECO TANKS HISTORIC SITE, TEXAS)
- CS11: Trophic Dynamics  
Chair(s): Carolyn A. Currin, carolyn.currin@noaa.gov  
Location: Room 204
- 11:00 AM Bretsch, K. P.: PATTERNS AND MECHANISMS OF HABITAT PARTITIONING BY TIDAL MIGRATORY NEKTON
- 11:20 AM Moncayo-Estrada, R.; Escalera-Gallardo, C.: FACTORS THAT AFFECT THE DOMINANCE OF THE SPECIES OF CHARALES (PISCES: CHIROSTOMA) IN LAKE CHAPALA
- 11:40 AM Bledsoe, E. L.; Jett, C. E.; Philips, E. J.: MICROZOOPLANKTON GRAZING AND THE CONTROL OF PHYTOPLANKTON STANDING CROP ALONG A NUTRIENT GRADIENT IN THE SUWANNEE RIVER ESTUARY, FLORIDA, USA
- 12:00 PM Putland, J. N.; Iverson, R. L.: MICRO- AND MESOZOOPLANKTON GRAZING DYNAMICS DURING SUMMER IN APALACHICOLA BAY, FLORIDA
- 1:30 PM Taylor, B. E.; DeBiase, A. E.; Pinder, J. E.; Hinton, T. G.: CONTAMINANT UPTAKE AND TRANSFER BY LITTORAL AND PLANKTONIC INVERTEBRATES IN A SMALL IMPOUNDMENT IN SOUTH CAROLINA
- 1:50 PM Smalley, G. W.; Hay, M. E.: PREY SELECTION, GRAZING AND GROWTH RATES OF EUPLOTES SP. FEEDING ON THE FLAGELLATES PHAEOCYSTIS GLOBOSA AND ISOCHRYSIS GALBANA
- 2:10 PM Currin, C. A.; Brewer, J.; Delano, P.: PREFERENTIAL ASSIMILATION OF RESUSPENDED BENTHIC MICROALGAE BY INTERTIDAL BIVALVES IN KACHEMAK BAY, ALASKA
- 2:30 PM Opsahl, S. P.; Purvis, K. M.; Chanton, J. P.: ELLUCIDATING THE SUBTERRANEAN FOOD WEB IN THE UPPER FLORIDAN AQUIFER USING A COMBINED ISOTOPIC APPROACH
- 2:50 PM Stutes, J. P.; Dunsmuir, A. L.; Hunter, A.; Corcoran, A.; Cebrian, J.: COMPARING COMMUNITY PRODUCTION DYNAMICS BETWEEN SEAGRASS DOMINATED BENTHOS AND BARE SEDIMENT ACROSS AN EUTROPHICATION GRADIENT IN NW FLORIDA.
- CS20: Sediment-Water Interactions  
Chair(s): Hélène Cyr, helene@zoo.utoronto.ca  
Location: Room 200
- 11:00 AM Anderson, J. T.; Boynton, W. R.; Greene, S.; Jordan, T. E.; Cornwell, J. C.: SPATIAL AND TEMPORAL VARIABILITY IN PATUXENT RIVER SEDIMENT CYCLING FLUXES
- 11:20 AM Douglas, R. W.; Doe, S. G.; Donald, N. M.; Kilinc, S.; Rippey, B.: MEASURING THE IN-SITU PARTICLE SETTLING RATE CONSTANT AND INVESTIGATING PARTICLE SEDIMENTATION MODELS IN LAKES
- 11:40 AM Gardner, W. S.; McCarthy, M. J.; An, S.: ATMOSPHERIC SOURCE VS. SINK OF NITROGEN (N) IN TEXAS COASTAL SEDIMENTS
- 1:30 PM Caffrey, J. M.; Hagy, J. D.; Cherry, J. S.; Campbell, J.; Murrell, M. C.: THE ROLE OF NITRIFICATION IN THE NITROGEN BUDGET OF PENSACOLA BAY SEDIMENTS
- 1:50 PM Murray, M. M.; Dulaiova, H.; Stringer, C. E.; Burnett, W. C.; Chanton, J. P.: MEASURING SUBMARINE GROUNDWATER DISCHARGE INTO SARASOTA BAY
- 2:10 PM Kang, W. J.; Kolasa, K. V.; Rials, M. W.: ESTIMATING GROUNDWATER SEEPAGE AND ITS ASSOCIATED TRANSPORT OF PHOSPHORUS TO A HYPEREUTROPHIC LAKE: A CASE STUDY IN LAKE PERSIMMON, FLORIDA, USA
- 2:30 PM thibodeaux, l. j.; erickson, m. j.; turner, c. l.: ANNUAL CYCLE PATTERNS OF FIELD SOLUBILIZATION MASS-TRANSFER COEFFICIENTS PCBs IN BED-SEDIMENT AND LOTIC MACROECOLOGY DRIVERS

(\*) represents Invited presentations



- 2:50 PM Romigh, M. M.; Davis, S. E.: ORGANIC CARBON FLUX AT THE MANGROVE SOIL-WATER COLUMN INTERFACE IN THE FLORIDA COASTAL EVERGLADES
- 3:30 PM Dai, J.; Sun, M.: VARIATIONS OF ORGANIC MATTER INPUT IN ALTAMAHA ESTUARINE SEDIMENTS WITH DISCHARGE CHANGES AND CORRESPONDING RESPONSES OF BACTERIA TO VARIABLE ORGANIC INPUTS
- 3:50 PM Murrell, M. C.; Hagy, J. D.; Campbell, J. G.; Caffrey, J. M.: BENTHIC AND WATER COLUMN PROCESSES IN A SUBTROPICAL ESTUARY: EFFECTS OF LIGHT ON OXYGEN FLUXES
- 4:10 PM Kamjunke, N.; Bohn, C.; Grey, J.: DOES BENTHIC-PELAGIC COUPLING FUEL THE GROWTH OF PELAGIC HETEROTROPHIC BACTERIA IN EXTREMELY ACIDIC LAKES?
- 4:30 PM Cyr, H.; Sperling, A. T.: DISTRIBUTION AND DYNAMICS OF EPS IN THE LITTORAL SEDIMENTS OF AN OLIGOTROPHIC LAKE
- 4:50 PM Higgins, S. N.; Hecky, R. E.; Guildford, S. J.; Howell, T. E.: CLADOPHORA BLOOMS IN THE LITTORAL ZONE OF EASTERN LAKE ERIE: THE INFLUENCE OF BASIN SCALE PHYSICAL AND CHEMICAL PROCESSES
- 5:10 PM De Lange, H. J.; Peeters, E. T.; De Jonge, J.; Oosterbaan, J.: BENTHIC-PELAGIC COUPLING IN A FLOODPLAIN LAKE: IS PRODUCTION OF OLIGOCHAETES AND CHIRONOMIDS CONTROLLED BY PELAGIC FOOD?
- CS29: Emerging Technologies  
Chair(s): Larry A. Buchanan, larryabuchanan@earthlink.net  
Location: Room 100
- 11:00 AM Barrios, A. T.; Rand, P.: USE OF PASSIVE ACOUSTIC MONITORING TO RESOLVE SPATIAL/TEMPORAL PATTERNS OF SPAWNING ACTIVITY FOR RED DRUM, *SCIAENOPS OCELLATUS*, IN THE NEUSE RIVER ESTUARY, NC.
- 11:20 AM Buchanan, L. A.; van der Wal, M.: AN ACOUSTIC MEANS OF DETERMINATION OF POLLUTANT MIGRATION
- 11:40 AM Haberstroh, P. R.; Brandes, J. A.; Gelinis, Y.; Dickens, A. F.; Wirick, S.: NANOSCALE INVESTIGATIONS OF THE CHEMICAL COMPOSITION OF GRAPHITIC BLACK CARBON IN RIVERINE AND MARINE SEDIMENTS
- 1:30 PM Henrich, V. C.; Rublee, P. A.; Marshall, M. M.; Christensen, E. F.: MICROARRAYS AS ENVIRONMENTAL SURVEILLANCE TOOLS IN AQUATIC ECOSYSTEMS: MICROBIAL COMMUNITY DETECTION FROM LAKEWATER SAMPLES
- 1:50 PM Rublee, P. A.; Henrich, V. C.; Marshall, M. M.; Balsler, L. M.: MICROARRAYS AS ENVIRONMENTAL SURVEILLANCE TOOLS IN AQUATIC ECOSYSTEMS: WILL NATURAL VARIATION PRECLUDE PRACTICAL USE?
- 2:10 PM Szela, T. L.; Marsh, A. G.: A HIGH-THROUGHPUT, OPTICAL METHOD FOR SIMULTANEOUSLY MEASURING RESPIRATION RATES IN MARINE INVERTEBRATE LARVAE
- 2:30 PM Wootton, L. S.; Burkitt, J. W.; VanWagner, C. L.; Myatt, S.: USE OF GIS IN ASSESSING PATTERNS OF DENSITY AND IMPACTS ON NATIVE DIVERSITY OF THE INVASE SEDGE *CAREX KOBOMUGI* IN NEW JERSEY'S COASTAL DUNES
- CS38: Modeling Approaches  
Chair(s): Patrick T. Haertel, haertel@aero.und.edu  
Location: Room 100
- 3:10 PM Huang, H.; Chen, C.; Blanton, J. O.; Andrade, F. A.: NUMERICAL MODELING OF TIDAL CURRENT ASYMMETRY OVER THE ESTUARINE-TIDAL CREEK-INTERTIDAL SALT MARSH COMPLEX IN THE OKATEE RIVER, SOUTH CAROLINA
- 3:30 PM Davies, K. L.; Davies, L.: PRESENTING BERNOULLI THE FISH - A FLUID FLOW COMPUTER SIMULATION SHOWING HOW A FISH MIGHT MAXIMIZE FORWARD SPEED BY DYNAMICALLY ADJUSTING HIS BODY SHAPE
- 3:50 PM Haertel, P. T.: SIMULATING LARGE LAKE CIRCULATIONS USING SLIPPERY SACKS
- 4:10 PM Hellweger, F. L.: MODELING PHOSPHORUS LUXURY UPTAKE IN LAKE BIWA, JAPAN
- 4:30 PM Saidi, A.; Khalili, A.; Joergensen, B. B.: ON DIFFUSIVE BOUNDARY LAYER OF SEDIMENTS WITH TOPOGRAPHY
- 4:50 PM Saidi, A.; Khalili, A.; Joergensen, B. B.: ON SHEAR STRESS IN BENTHIC FLUX CHAMBERS WITH EXTERNAL PUMPING CIRCUIT
- 5:10 PM Sharma, S.; Jackson, D. A.; Howell, E. T.: SPATIAL AND TEMPORAL ASSESSMENT OF THE INFLUENCE OF RIVER DISCHARGE ON THE NEARSHORE WATER QUALITY OF EASTERN LAKE ERIE.

(◊) represents Tutorial presentations

## Tuesday, June 15, 2004

## SS02: Indicators of Environmental Condition and Change Along The Freshwater-Marine Continuum

Chair(s): Hans Paerl, hans\_paerl@unc.edu  
Ray Torres, torres@geol.sc.edu  
Denice Heller Wardrop, dhw110@mail.psu.edu

Location: Room 205

- 1:30 PM Carrick, H. J.: BIOLOGICAL AND PHYSICAL INDICATORS OF HYPOXIA IN LAKE ERIE
- 1:50 PM YIN/Kedong, Y. K.; Harrison/Paul J., .; ZHOU/Weihua, .: EFFECTS OF WINDS AND TOPOGRAPHY ON LOW OXYGEN WATERS IN THE PEARL RIVER ESTUARINE COASTAL WATERS
- 2:10 PM Puchniak, M. K.; Hall, R. I.; Hecky, R. E.; Wilkinson, P.: HOW IS LAKE MALAWI/NYASA RESPONDING TO RAPID LAND USE CHANGE?
- 2:30 PM Ginn, B. K.; Smol, J. P.; Cumming, B. F.: ASSESSMENT OF ACIDIFICATION IN CLEAR (LOW DOC) AND COLOURED (HIGH DOC) LAKES IN SOUTHERN NOVA SCOTIA, CANADA USING PALEOLIMNOLOGICAL TECHNIQUES
- 2:50 PM Anderson, M. R.; Tlusty, M. F.; Pepper, V. A.: INDICATORS OF ORGANIC ENRICHMENT AT COLD WATER AQUACULTURE SITES – THE CASE OF COASTAL NEWFOUNDLAND, CANADA
- 3:10 PM Montoya, J. P.; Rathbun, K. M.; Sheats, N.; Michener, R. M.; Mayo, C.: ISOTOPIC TRACKING OF SEWAGE NITROGEN IN MASSACHUSETTS BAY

## SS05: The Educational Value of Coastal Ocean Observing Systems

Chair(s): Janet W. Campbell, janet.campbell@unh.edu  
Amy Holt Cline, acline@cisunix.unh.edu  
Tom Shyka, tom@gomoos.org

Location: Room 100

- 1:30 PM Rosenfield, J. M.: SYNERGY IN SCIENCE: USING REAL TIME DATA ON THE INTERNET TO ADDRESS CONCERNS IN SECONDARY SCHOOL SCIENCE\*
- 2:10 PM Murray, L.; McDonnell, J.; Hotaling, L.; De Luca, M.; Newman, M.; Gibson, D.: USE OF OBSERVING SYSTEMS IN SCIENCE EDUCATION: A COURSE FOR TEACHERS
- 2:30 PM Sautter, L. R.; Sancho, G.: COORDINATED COASTAL OBSERVATION SYSTEM GROUND-TRUTHING CRUISES AS OCEANOGRAPHIC RESEARCH TRAINING PLATFORMS FOR POST-SECONDARY STUDENTS
- 2:50 PM Windsor, J. G.; Maul, G. A.; Johnson, K. B.: MARINE FIELD PROJECTS: AN INTERDISCIPLINARY UNDERGRADUATE CAPSTONE EDUCATIONAL EXPERIENCE CONDUCTED ALONG THE EAST COAST OF FLORIDA.

## SS07: New Methods in Microzooplankton Ecology

Chair(s): George McManus, george.mcmanus@uconn.edu  
Peter Verity, peter@skio.peachnet.edu

Location: Room 203

- 1:30 PM Gallager, S. M.: IMAGING MICROPLANKTON FOR IDENTIFICATION AND DESCRIPTION OF MOTILITY PATTERNS TO ASSESS PREY VULNERABILITY AND COMMUNITY STRUCTURE\*
- 2:10 PM Frischer, M. E.: MOLECULES TO MICROZOOPLANKTON: THE APPLICATION OF MOLECULAR APPROACHES IN MICROZOOPLANKTON ECOLOGY\*
- 2:30 PM McManus, G. B.; Costas, B.; Snoeyenbos-West, O.; Salcedo, T.; Katz, L.: MOLECULAR APPROACHES TO THE STUDY OF DIVERSITY AND BIOGEOGRAPHY OF MARINE CHOREOTRICH AND OLIGOTRICH CILIATES
- 2:50 PM Arnold, W. S.; Hitchcock, G. L.; Frischer, M. E.; Wanninkhof, R.; Sheng, Y. P.: DISPERSAL OF AN INTRODUCED LARVAL COHORT IN A COASTAL LAGOON
- 3:10 PM Gast, R. J.; Moran, D. M.: NEOPARAMOEBA DIVERSITY AND DISTRIBUTION IN LONG ISLAND SOUND

## SS09: Recovery of Shallow-Water Sediment Systems After Disturbance

Chair(s): Kristina Sundback, kristina.sundback@marbot.gu.se  
Carolyn Currin, Carolyn.Currin@noaa.gov  
Graham Underwood, gjcu@essex.ac.uk

Location: Room 204

- 9:00 AM Bell, S. S.; Stafford, N. B.: DISTURBANCE IN SEAGRASS LANDSCAPES: DETECTION AND ECOLOGICAL IMPLICATIONS\*
- 9:20 AM Fonseca, M. S.; Piniak, G. A.; Kenworthy, W. J.; Whitfield, P. E.; Fisher, G.: FORECASTING RECOVERY OF INJURED TRUST RESOURCES USING SPATIALLY EXPLICIT MODELS
- 9:40 AM Fellows, K. A.; Dunton, K. H.; Onuf, C. P.: IMPACTS OF HUMAN DISTURBANCES ON SEAGRASS COMMUNITIES IN A SOUTH TEXAS COASTAL LAGOON, USA
- 10:40 AM Perissinotto, R.; Kibirige, I.; Thomas, C. M.; Thwala, X. C.; Iyer, K.: RESPONSE OF MICROALGAE AND ZOOPLANKTON TO ALTERNATION OF CLOSED AND OPEN PHASES IN TWO CONTRASTING SOUTH AFRICAN ESTUARIES\*
- 11:00 AM Underwood, G. J.: RECOVERY RATES AND RESPONSES OF INTERTIDAL BENTHIC MICROALGAE TO DISTURBANCE
- 11:20 AM Guarini, J. M.; Richard, P.; Blanchard, G. F.: QUANTIFICATION OF THE DYNAMICS OF THE INTERTIDAL MICROPHYTOBENTHOS IN SEMI-ENCLOSED LITTORAL ECOSYSTEMS. REGULATION OF THE RESUSPENSION BY THE BIOMASS.
- 11:40 AM Ni Longphuir, S.; Leynaert, A.; Herlory, O.; Guarini, J. M.; Ragueneau, O.; Chauvaud, L.; Jean, F.; Thouzeau, G.: IN SITU OBSERVATIONS OF DIEL MIGRATION OF SUBTIDAL MICROPHYTOBENTHOS, THE BAY OF BREST, FRANCE.
- 1:30 PM Harper, S. J.; Hayes, A. R.: APPLICATION OF GIS AND HYDROACOUSTIC TECHNOLOGY TO MODEL RADIONU-

(\*) represents Invited presentations

- CLIDE DISTRIBUTIONS IN RESERVOIR SEDIMENTS  
 1:50 PM Hanlon, A. R.; Underwood, G. J.; Baker, N. R.: PHOTO-SYNTHETIC RESPONSES TO HERBICIDE IN INTACT MICROPHYTOBENTHIC COMMUNITIES  
 Chair(s): Howard Riessen, rieszehp@buffalostate.edu  
 Charles Ramcharan, cramcharan@laurentian.ca  
 Location: Room 201
- 2:10 PM Dunsmuir-Stutes, A. L.; Corcoran, A. A.; Cebrian, J.: EFFECTS OF REDUCED LIGHT AVAILABILITY AND NUTRIENT ENRICHMENT ON THE METABOLISM OF ESTUARINE MICROPHYTOBENTHIC COMMUNITIES  
 9:00 AM Hart, D. R.: INTRAGUILD PREDATION AND TROPHIC CASCADES IN AQUATIC FOOD WEBS
- 2:30 PM Piehler, M. F.; Currin, C. A.; Winklemann, V.; Twomey, L. J.; Hall, N. S.; Paerl, H. W.: SANDFLAT MICROPHYTOBENTHIC COMMUNITY EFFECTS AND RECOVERY FROM WEATHERED DIESEL FUEL EXPOSURE  
 9:40 AM Ramcharan, C. W.; Yan, N. D.; Keller, W. B.: IMPACTS ON ZOOPLANKTON OF FISH COMPARED TO INVERTEBRATE PLANKTIVORES  
 10:00 AM Kolesar, S. E.; Rose, K. A.; Breitbart, D. L.: INDIVIDUAL-BASED MODEL OF HYPOXIA EFFECTS ON INTRAGUILD PREDATION BETWEEN CTENOPHORES AND FISH LARVAE IN A CHESAPEAKE BAY FOOD WEB
- 2:50 PM Larson, F. M.; Groth-Petersen, D.; Dahllöf, I.; Sundbäck, K.: RECOVERY FROM TOXICANT AND NUTRIENT LOAD OF A SHALLOW-WATER SEDIMENT SYSTEM –RESPONSE AND ROLE OF ORGANISM GROUPS  
 10:40 AM Viitasalo, S.; Viitasalo, M.: BIOTURBATION AND PREDATION BY BENTHIC ANIMALS AFFECT ZOOPLANKTON RECRUITMENT IN THE BALTIC SEA  
 11:00 AM Boersma, M.; Esser, M.; Greve, W.: EFFECTS OF TEMPERATURE AND THE PRESENCE OF BENTHIC PREDATORS ON THE VERTICAL DISTRIBUTION OF THE CTENOPHORE PLEUROBRACHIA PILEUS
- 3:10 PM Sundback, K.; Groth Petersen, D.; Larson, F.; Dahllöf, I.: RECOVERY OF A SHALLOW-WATER SEDIMENT SYSTEM-INTERACTIONS BETWEEN NUTRIENTS AND TOXICANTS  
 11:20 AM Lehtiniemi, M.; Engström-Öst, J.; Lindén, E.; Viitasalo, S.; Viitasalo, M.: MYSID SHRIMPS – THE VERSATILE PREDATORS OF THE BALTIC SEA
- SS12: Reconstruction of Marginal Marine Environments Using the Sediment Record  
 Chair(s): Carol Pride, pridec@savstate.edu  
 Beth Christensen, bchristensen@gsu.edu  
 Deborah Freile, dfreile@berry.edu  
 Location: Room 205
- 9:00 AM Goldstein, S. T.: RECONSTRUCTING MARGINAL MARINE ENVIRONMENTS OF THE RECENT PAST: A REVIEW  
 1:30 PM Yan, N. D.: REVIEW OF THE IMPACTS OF THE NON-INDIGENOUS, INVERTEBRATE ZOOPLANKTIVORE, BYTHOTREPHES, ON CANADIAN SHIELD LAKES\*
- 9:40 AM Alexander, C. R.: RETROSPECTIVE STUDIES IN MARGINAL MARINE ENVIRONMENTS: READING THE SEDIMENT RECORD\*  
 1:50 PM Foster, S. E.; Sprules, W. G.: BYTHOTREPHES INVASION; SPECIES REPLACEMENT OR TROPHIC DISRUPTION
- 10:00 AM Kendrick, T.; Christensen, B. A.; Pride, C. J.: INDUCED PRESERVATIONAL BIAS IN MARSH FORAMINIFERA: EXAMPLES FROM SKIDAWAY ISLAND, GEORGIA  
 2:10 PM Pichlova, R.; Vanderploeg, H. A.; Cavaletto, J. F.: EFFECTS OF TWO INVADDED INVERTEBRATE PREDATORS BYTHOTREPHES LONGIMANUS AND CERCOPAGIS PENGOI ON LAKE MICHIGAN ZOOPLANKTON: DO THEY HAVE AN IMPACT?
- 10:40 AM Hilbun, N. L.; Bianchi, T. S.; Aronson, R. B.: INFLUENCE OF LAND USE IN THE LAST CENTURY ON THE CORAL COMMUNITIES IN BAHÍA ALMIRANTE, BOCAS DEL TORO, PANAMA  
 2:30 PM Branstrator, D. K.: CONTRASTING LIFE-HISTORY STRATEGIES IN TWO CLADOCERAN PREDATORS: LEPTODORA KINDTI AND BYTHOTREPHES LONGIMANUS
- 11:00 AM McQuoid, M. R.; Nordberg, K.: DISCERNING BETWEEN NATURAL AND ANTHROPOGENIC INFLUENCE ALONG THE SWEDISH WEST COAST USING PALEODIATOM RECORDS  
 2:50 PM Saunders, P. A.; Porter, K. G.: THE IMPACT OF CHAOBORUS ON ZOOPLANKTON POPULATION DYNAMICS DEPENDS ON ABIOTIC ENVIRONMENT
- 11:20 AM Weckström, K.; Vaalgamaa, S.; Korhola, A.; Reuss, N.; Drew, S.; Kauppila, P.; Pitkänen, H.: ASSESSING ECOLOGICAL REFERENCE CONDITIONS, POLLUTION HISTORY AND RECENT RECOVERY OF AN URBAN ESTUARY, THE NORTHERN BALTIC SEA  
 3:10 PM Riessen, H. P.; Young, J. D.: CHAOBORUS PREDATION AND DAPHNIA DEFENSE STRATEGIES: ONE SIZE DOESN'T FIT ALL
- 11:40 AM Reuss, N.; Conley, D.; Bianchi, T. S.: SEDIMENT PIGMENTS AS A PROXY FOR LONG-TERM CHANGES IN PLANKTON COMMUNITY STRUCTURE  
 CS12: Watershed Ecology and Ecosystems  
 Chair(s): Lauri Arvola, lauri.arvola@helsinki.fi  
 Location: Room 100
- SS15: Do Invertebrate Predators Have Leading Roles or Bit Parts in Plankton Communities?  
 9:00 AM Bumby, M. J.: SURVEYS OF CHANGES IN SUBMERSED MACROPHYTE SPECIES & THEIR BIOMASS IN GREEN LAKE, GREEN LAKE COUNTY, WISCONSIN USING FIELD DATA FROM 1921, 1971, 1981, 1991 & 2001  
 9:20 AM Ensign, S. H.; Doyle, M. W.: QUANTIFYING CONTROLS ON TRANSIENT STORAGE AND NUTRIENT RETENTION USING CHANNEL MANIPULATIONS  
 9:40 AM Goldman, C. R.: LAKE TAHOE: FOUR DECADES OF ENVIRONMENTAL CHANGE  
 10:00 AM Libes, S. M.; Bennett, J.; Ferguson, M.: BACTERIAL CONTAMINATION AND EUTROPHICATION IN A BLACK-WATER RIVER

(–) represents Tutorial presentations



- 10:40 AM Phlips, E. J.; Love, N.; Badylak, S.; Hansen, P.; John, C. V.; Gleeson, R.; Lockwood, J.: WATER QUALITY AND HYDRODYNAMIC CHARACTERISTICS OF THE GUANA TOLOMATO MATANZAS ESTUARINE RESEARCH RESERVE AND OTHER LAGOONS ALONG THE EAST COAST OF FLORIDA
- 11:00 AM Schelske, C. L.; Lowe, E. F.; Battoe, L. E.; Brenner, M.; Coveney, M. F.; Kenney, W. F.: ABRUPT BIOLOGICAL RESPONSE TO HYDROLOGIC AND LAND-USE CHANGES IN LAKE APOPKA, FLORIDA (USA)
- 11:20 AM Squires, M. M.; Devito, K. J.; Mazzucchi, D.: HYDROGEOMORPHIC LANDSCAPE AND LAKE ECOSYSTEM PROPERTIES
- 11:40 AM Wurtsbaugh, W. A.; Nydick, K.; Baker, M. A.; Hall, R. O.: NITROGEN TRANSPORT THROUGH LINKED STREAM-LAKE SYSTEMS MEASURED WITH 15-N TRACER
- CS13: Wetlands Ecology  
Chair(s): Robert J. Daoust, daoust@biol.sc.edu  
Location: Room 203
- 9:00 AM Daoust, R. J.; Morris, J. T.; Hopkinson, C. S.: PATTERNS OF COMPATIBLE OSMOLYTE ACCUMULATION IN THREE MARSH MACROPHYTE SPECIES ALONG AN ESTUARINE SALINITY GRADIENT
- 9:20 AM Scott, J. T.; Doyle, R. D.; Conry, T.: PERIPHYTON NUTRIENT LIMITATION AND NITROGEN FIXATION ALONG A WETLAND NUTRIENT DEPLETION GRADIENT
- 9:40 AM Ogbebo, F. E.; Ochs, C. A.; Britton, C. A.; Threlkeld, S. T.: MULTIPLE INTERACTION EFFECTS OF NATURAL AND ANTHROPOGENIC FACTORS ON PHYTOPLANKTON COMPOSITION AND PRIMARY PRODUCTION IN MODEL WETLANDS
- 10:00 AM Smith III, T. J.: TRAJECTORIES OF RECOVERY 10 YEARS AFTER CATASTROPHIC DISTURBANCE IN THE MANGROVE FORESTS OF SOUTH FLORIDA
- 10:40 AM Biber, P. D.; Paerl, H. W.; Gallegos, C. L.; Kenworthy, W. J.: ARE SEAGRASSES THE CANARIES OF NORTH CAROLINA ESTUARIES?
- 11:00 AM Hunter, A. E.; Stutes, J.; Cebrian, J.: A COMPARISON OF PRIMARY PRODUCTION, DECOMPOSITION, AND HERBIVORY IN TWO JUNCUS ROMERIANUS MARSHES ON THE NORTHERN GULF OF MEXICO
- 11:20 AM Burfeind, D. D.; Stunz, G. W.: THE EFFECTS OF PROPELLER SCARRING ON SEAGRASS ASSOCIATED FAUNA
- 11:40 AM Nanez-James, S. E.; Minello, T.: THE EFFECT OF VIE TAGS ON GROWTH AND SURVIVAL OF JUVENILE BLUE CRABS CALLINECTES SAPIDUS
- CS40: Biogeochemical Cycles - Process Level  
Chair(s): Patrick W. Inglett, pwi@mail.ifas.ufl.edu  
Location: Room 200
- 9:00 AM Haas, J. R.; Northup, A.; Morgan, N. K.: EFFECTS OF CHEMICAL SPECIATION ON U(VI) REDUCTION BY SHEWANELLA PUTREFACIENS
- 9:20 AM Donkor, A. K.; Bonzongo, J. C.; Nartey, V. K.: PRELIMINARY ASSESSMENT OF THE ENVIRONMENTAL IMPACT OF ARTISANAL GOLD MINING AND MERCURY POLLUTION IN SOUTHWESTERN GHANA, WEST AFRICA
- 9:40 AM Bonzongo, J. C.; Youn, S.: LABORATORY SIMULATION OF SITE SPECIFIC CONDITIONS AND METHYL MERCURY FORMATION IN FRESHWATER SEDIMENTS
- 10:00 AM Gomez-Moreno, J. M.; Bonzongo, J. C.: CONTROLLING MERCURY METHYLATION BY ENHANCEMENT OF SELECTIVE INDIGENOUS SEDIMENTARY MICROBES: IMPLICATION FOR DEVELOPMENT OF LINERS FOR ENGINEERED WETLANDS
- 10:40 AM Engstrom, P.; Dalsgaard, T.; Hulth, S.; Risgaard-Petersen, N.; Sundback, K.: NITROGEN REMOVAL BY ANAMMOX IN COASTAL MARINE SEDIMENTS
- 11:00 AM Sigleo, A. C.: SEDIMENT DENITRIFICATION IN THE YAQUINA ESTUARY, OREGON
- 11:20 AM Jordan, T. E.; Cornwell, J. C.; Boynton, W. R.: CHANGES IN PHOSPHORUS BIOGEOCHEMISTRY ACROSS THE TRANSITION FROM FRESHWATER TO SALTWATER
- 11:40 AM Poister, D.; DeGuelle, C.: PARTICLE SIZE DISTRIBUTION AND COMPOSITION IN A TEMPERATE LAKE: DECOUPLING OF PRODUCTION AND SEDIMENTATION
- 1:30 PM Cole, J. J.; Van de Bogert, M.; Bastviken, D.; Bade, D. L.; Pace, M. L.; Carpenter, S. R.: MULTIPLE APPROACHES TO ESTIMATING GAS EXCHANGE AT THE AIR WATER INTERFACE
- 2:10 PM Müller-Solger, A. B.; Grosholz, E. D.; Kuok, S. F.; Ger, K. A.; Sommer, T. R.; Goldman, C. R.: BIOAVAILABILITY AND NUTRITIONAL QUALITY OF ORGANIC MATTER IN CENTRAL CALIFORNIA FLOODPLAINS
- 2:30 PM Yoshimura, C.; Tockner, K.; Gessner, M. O.; Furumai, H.: DECOMPOSITION OF FINE PARTICULATE ORGANIC MATTER IN STREAMS
- 2:50 PM MAIE, N.; Miyoshi, T.; Jaffé, R.: QUANTITATIVE AND QUALITATIVE ASPECTS OF DOM LEACHED FROM WETLANDS BIOMASS
- 3:10 PM Hamill, B. J.; Cherrier, J.: LIGHT-MEDIATED DOM RELEASE BY THE CENTRIC DIATOM T. WEISSFLOGII AND SUBSEQUENT UPTAKE BY NATURAL BACTERIAL ASSEMBLAGES
- CS43: Nutrient Dynamics  
Chair(s): Mike T. Brett, mtbrett@u.washington.edu  
Location: Room 202
- 9:00 AM Brett, M. T.: A REASSESSMENT OF THE NUTRIENT LOADING CONCEPT IN LIMNOLOGY AND PHOSPHORUS RETENTION IN LAKES
- 9:20 AM Fulton, R. S.; Smith, D. R.: DEVELOPMENT OF PHOSPHORUS LOAD REDUCTION GOALS FOR 7 LAKES IN THE UPPER OCKLAWAHA RIVER BASIN, FLORIDA, USA
- 9:40 AM O'Neill, L. P.; Benitez-Nelson, C. R.: SEDIMENT TRAP INORGANIC AND ORGANIC PHOSPHORUS COMPOSITION ACROSS AN OXIC-ANOXIC INTERFACE
- 10:00 AM Keller, T. A.; Dobberfuhl, D. R.: SETTING WATER QUALITY RESTORATION TARGETS
- 10:40 AM Veiga Nascimento, R. A.; Anderson, M. A.: WATER QUALITY IMPACTS OF TERTIARY TREATED WASTEWATER DISCHARGE INTO A SMALL SOUTHERN CALIFORNIA LAKE
- 11:00 AM Yang, L. Y.; Qin, B. Q.; Hu, W. P.; Luo, L. C.; Song, Y. Z.: WET AND DRY ATMOSPHERIC DEPOSITION OF NITROGEN AND PHOSPHORUS TO A LARGE, SHALLOW,

(\*) represents Invited presentations

- WELL-MIXED LAKE (LAKE TAIHU, CHINA)
- 11:20 AM Sterner, R. W.; Elser, J. J.; Hessen, D. O.; McCauley, E.: A GLOBAL COMPARATIVE ANALYSIS OF PARTICULATE C:N:P STOICHIOMETRY OF SURFACE WATERS IN LAKES AND OCEANS
- 11:40 AM Verburg, P.; Hecky, R. E.: CLIMATE EFFECT ON CIRCULATION IN LAKE TANGANYIKA: LOSS OF PRODUCTIVITY, DECREASED N LIMITATION AND N FIXATION RATES
- 1:30 PM Wissel, B.; Quiñones-Rivera, Z. J.; Justil, D.; Fry, B.: SEASONAL VARIABILITY OF DISSOLVED INORGANIC CARBON (DIC) AND NITROGEN STABLE ISOTOPES ACROSS THE GULF OF MEXICO'S HYPOXIC ZONE
- 1:50 PM Doyle, R. D.; Scott, J. T.; Conry, T.: PLANKTONIC NITROGEN FIXATION IN A TEXAS RESERVOIR: HOT SPOTS AND HOT MOMENTS
- 2:10 PM McCutchan, Jr., J. H.; Pribyl, A. L.; Lewis, Jr., W. L.; Saunders III, J. F.: WHOLE-SYSTEM ESTIMATION OF DENITRIFICATION IN A PLAINS RIVER: A COMPARISON OF TWO METHODS
- 2:30 PM Linares, E.; Sundbäck, K.: UPTAKE OF DISSOLVED FREE AMINO ACIDS (DFAA) BY ISOLATED AND SEMI-NATURAL MICROPHYTOBENTHIC COMMUNITIES
- 2:50 PM Mulholland, M. R.; Boneillo, G. E.; Bernhardt, P.; Minor, E. C.: INTERANNUAL AND INTER-SITE DIFFERENCES IN BROWN TIDE (AUREOCOCCUS ANOPHAGEFFERENS) BLOOM PHYSIOLOGY.
- 3:10 PM Mason, B. M.; Szmant, A. M.: THE ROLES OF PARTICULATE MATTER AND MACROALGAE IN BOUNDARY LAYER NUTRIENT ENRICHMENT: FACTORS INFLUENCING THE GROWTH OF MACROALGAE ON CORAL REEFS?

## POSTER SESSIONS

- SS02: Indicators of Environmental Condition and Change Along The Freshwater-Marine Continuum
- Chair(s): Hans Paerl, [hans\\_paerl@unc.edu](mailto:hans_paerl@unc.edu)  
Ray Torres, [torres@geol.sc.edu](mailto:torres@geol.sc.edu)  
Denice Heller Wardrop, [dhw110@mail.psu.edu](mailto:dhw110@mail.psu.edu)
- Location: Exhibit Hall A
- Montgomery, M. T.; Smith, J. P.; Boyd, T. J.; Osburn, C. L.: EFFECT OF BENTHIC COMMUNITY CHANGE ON BACTERIAL PAH METABOLISM IN ANTHROPOGENICALLY IMPACTED ESTUARINE SEDIMENTS
  - Peeler, K. A.; Chanton, J. P.; Opsahl, S. P.: CAFFEINE AS AN ANTHROPOGENIC TRACER
  - Chumacero, M.; Real, E.; Granados, S.; Valdes, D. S.: SEDIMENT OXYGEN CONSUMPTION IN A COASTAL LAGOON OF A TOURISTIC ZONE (NICHUPTÉ, CANCUN, MEXICO).
  - Marshall, H. L.; Morris, J. T.; Geider, R.: PLANT PIGMENTS AS REMOTE SENSING INDICATORS
  - Hladik, C. M.; Schalles, J. F.: AN IMPROVED ALGORITHM FOR REMOTE ESTIMATION OF CHLOROPHYLL IN OPTICALLY COMPLEX COASTAL WATERS
  - Robertson, C. Y.; Nelson, J. R.; Tzeng, M.; Moore, T.; Green, A.: COLORED DISSOLVED ORGANIC MATTER AS AN OPTICAL TRACER OF COASTAL WATER MASSES ON

- THE SOUTH ATLANTIC BIGHT CONTINENTAL SHELF OFF GEORGIA
- Giguere, M. J.; Wason, C. J.; Bradt, S. R.; Moore, T. S.; Campbell, J. W.; Blakemore, R. P.; Baker, A. L.: PROJECT LAKE WATCH: CAN WE MONITOR NEW HAMPSHIRE LAKES FROM SPACE?
  - Connelly, W. J.; Houde, E. D.; Bichy, J. B.: BIOMASS SIZE SPECTRA OF FISH COMMUNITIES ALONG SALINITY GRADIENTS IN ESTUARINE TRIBUTARIES WITH DIFFERENT LAND-USE PATTERNS
  - Characklis, G. W.; Blackwood, A.; Fries, J. S.; Noble, R. T.: THE ROLE OF PARTICLE-MEDIATED TRANSPORT IN THE ECOLOGY OF HUMAN PATHOGENS IN THE NEUSE RIVER ESTUARY, NC, USA
  - Waggener, A. L.; Winkelmann, V.; Valdes, L. M.; Hall, N. S.; Piehler, M. F.; Paerl, H. W.: TROPHIC DYNAMICS AT THE CHLOROPHYLL A MAXIMUM OF THE NEUSE RIVER ESTUARY, NORTH CAROLINA.
  - Shirenko, L. A.; Krylenkova, N. L.: PHENOL-OXIDIZING BACTERIA – PHENOLS RELATIONSHIPS IN DIFFERENT LAKES OF NORTH-WEST RUSSIA
  - Gallo, T. E.; Piehler, M. F.; Paerl, H. W.: EFFECTS OF LANDUSE ON PHYTOPLANKTON COMMUNITY STRUCTURE AND PRODUCTIVITY IN ESTUARINE NURSERY CREEKS

SS09: Recovery of Shallow-Water Sediment Systems After Disturbance

Chair(s): Kristina Sundback, [kristina.sundback@marbot.gu.se](mailto:kristina.sundback@marbot.gu.se)  
Carolyn Currin, [Carolyn.Currin@noaa.gov](mailto:Carolyn.Currin@noaa.gov)  
Graham Underwood, [gju@essex.ac.uk](mailto:gju@essex.ac.uk)

Location: Exhibit Hall A

- Reid, N. J.; Hamilton, S. K.: BIOGEOCHEMICAL IMPACTS OF MAJOR RESERVOIRS ON THE KALAMAZOO RIVER SYSTEM

SS12: Reconstruction of Marginal Marine Environments Using the Sediment Record

Chair(s): Carol Pride, [pridec@savstate.edu](mailto:pridec@savstate.edu)  
Beth Christensen, [bchristensen@gsu.edu](mailto:bchristensen@gsu.edu)  
Deborah Freile, [dfreile@berry.edu](mailto:dfreile@berry.edu)

Location: Exhibit Hall A

- Vaalgamaa, S.; Weckström, K.; Korhola, A.; Conley, D. J.: SEDIMENT STRATIGRAPHICAL EVIDENCE OF HUMAN IMPACTS ON THREE BALTIC SEA ESTUARIES
- Pride, C. J.: LAYING THE GROUNDWORK FOR BENTHIC FORAMINIFERAL STUDIES: DOWNSTREAM VARIATIONS IN SEDIMENT AND WATER COLUMN PROPERTIES OF THE WILMINGTON RIVER ESTUARY
- Conley, D. J.; Anderson, N. J.; Andren, E.; Clarke, A.; de Jonge, V.; Ellegaard, M.; Juggins, S.; Kauppila, P.; Korhola, A.; Reuss, N.; Telford, R. J.; Vaalgamaa, S.; Weckstrom, K.: MONITORING LONG-TERM TRENDS IN EUTROPHICATION AND NUTRIENTS IN THE COASTAL ZONE

CS02: Benthos

Chair(s): Mary C. Curran, [curranc@savstate.edu](mailto:curranc@savstate.edu)

(-) represents Tutorial presentations

- Location: Exhibit Hall A
17. Shostell, J. M.; Williams, B. S.: INCREASED HABITAT HETEROGENEITY: EFFECTS ON MACROINVERTEBRATE BIOMASS AND DISTRIBUTION PATTERNS IN A SHALLOW EUTROPHIC RESERVOIR
18. Curran, M. C.; Cross, R. E.: DYNAMICS OF BENTHIC MEIOFAUNA IN RESPONSE TO DISTURBANCE FROM RAY FEEDING ACTIVITY IN A MARSH CREEK
19. Beseres, J. J.; Feller, R. J.: POTENTIAL REGULATION OF SUBTIDAL MACROBENTHOS BY JUVENILE WHITE SHRIMP, *LITOPENAEUS SETIFERUS*
20. Bower, D. M.; Noffke, N.: MICROBIAL MATS IN COASTAL HABITATS OF THE MODERATE CLIMATE ZONE: A CASE STUDY FROM FISHERMANS ISLAND, VIRGINIA
21. Lee, W. J.; O'Riordan, R. M.; Koh, L. L.: SPATIAL AND TEMPORAL PATTERNS OF RECRUITMENT AND POPULATION DYNAMICS OF INTERTIDAL BARNACLES ON EQUATORIAL SOUTH-EAST ASIAN SHORES
22. Chaplin-Ebanks, S. A.; Curran, M. C.: DIFFERENCES IN THE PREVALENCE OF BOPYRID PARASITISM ON THE GRASS SHRIMP *PALAEEMONETES PUGIO* IN FOUR TIDAL CREEKS IN THE SOUTHEASTERN USA
- CS08: Zooplankton  
Chair(s): TBD  
Location: Exhibit Hall A
23. Lopez, C. L.; Zoppi de Roa, E.: DAY-NIGHT VERTICAL DISTRIBUTION AND FEEDING PATTERNS OF FOURTH INSTAR OF *CHAOBORUS* LARVAE IN A NEOTROPICAL RESERVOIR (SOCUY RESERVOIR, VENEZUELA)
24. Nejstgaard, J. C.; Frischer, M. E.; Verity, P. G.: QUANTITATIVE MOLECULAR DETECTION OF PREY IN COPEPOD GUTS
25. Houser, L. T.; Epifanio, C. E.: CAN LARVAL CRABS ALTER THEIR HORIZONTAL SWIMMING BEHAVIOR IN RESPONSE TO BIOCHEMICAL CUES?
26. Lombard, F.; Sciandra, A.; Gorsky, G.: ESTIMATION OF APPENDICULARIANS ENVIRONMENTAL IMPACT BY MODELLING ECOPHYSIOLOGY, GROWTH AND REPRODUCTION
27. Young, J. D.; Yan, N. D.: SUMMER DEATH RATES AND A PREDATOR REFUGE FOR BYTHOTREPHES *LONGIMANUS* IN HARP LAKE, ONTARIO, CANADA
28. Richmond, C. E.; Marcus, N. H.; Sedlacek, C.; Miller, G. A.; Oppert, C.: SEASONAL IMPACTS OF HYPOXIA ON THE POPULATION DYNAMICS OF THE CALANOID COPEPOD *ACARTIA TONSA*
29. Youn, S. H.; Choi, J. K.: GROWTH AND EGG PRODUCTION OF COPEPOD *ACARTIA HONGI* IN KYEONGGI BAY, KOREA
30. Elliott, D. T.; Kaufmann, R. S.: DYNAMICS OF THE ZOOPLANKTON COMMUNITY IN MISSION BAY, SAN DIEGO, CALIFORNIA
31. Costas, B. A.; McManus, G. B.; Dam, H. G.; Smith, A. N.: GRAZING ON COCCOLITHOPHORIDS AND CALCITE PARTICLES BY MICROZOOPLANKTON
32. Long, J. D.: VARIABLE FECAL PELLET PRODUCTION OF THREE CALANOID COPEPODS: THE IMPORTANCE OF ALGAL MORPHOLOGY, CULTURE AGE, AND GRAZER SPECIES
- CS11: Trophic Dynamics  
Chair(s): Carolyn A. Currin, carolyn.currin@noaa.gov  
Location: Exhibit Hall A
33. Doi, H.; Kikuchi, E.; Takagi, S.; Shikano, S.: SEASONAL DYNAMICS OF CARBON STABLE ISOTOPE RATIOS FOR CHIRONOMID LARVA, PHYTOPLANKTON, AND BENTHIC DIATOMS INHABITING STRONGLY ACIDIC LAKE KATANUMA
34. Marin, S. L.; Mancilla, M. A.: PATTERNS AND PROCESSES EXPLAINING ABUNDANCE OF SEA LICE, *CALIGUS ROGERCRESSEYI*, ON EXPERIMENTAL CULTURE OF RAINBOW TROUT IN SOUTHERN CHILE
35. Smith, J. S.; Fisk, A. T.; Maruya, K. A.: USING STABLE ISOTOPES OF CARBON, NITROGEN, AND SULFUR TO CHARACTERIZE THE FOOD WEB IN A TOXAPHENE CONTAMINATED SALT MARSH
36. Goedkoop, W.; Åkerblom, N.; Demandt, M.: TROPHIC FRACTIONATION IN *CHIRONOMUS RIPARIUS* REARED ON FOOD OF AQUATIC AND TERRESTRIAL ORIGIN.
- S12: Watershed Ecology and Ecosystems  
Chair(s): Lauri Arvola, lauri.arvola@helsinki.fi  
Location: Exhibit Hall A
37. Kelley, C. A.; Wicks, C. M.; Peterson, E. W.: ESTROGEN IN KARST SPRING BASINS OF MISSOURI
38. Medley, K. A.; Havel, J. E.: ZOOPLANKTON SPECIES RICHNESS AND COMMUNITY COMPOSITION IN FLOODPLAIN PONDS: EFFECTS OF FLOODING AND HABITAT CONNECTIVITY
39. Havel, J. E.; Medley, K. A.: DISPERSAL AND INVASIBILITY: WATERSHED ANALYSIS POINTS TOWARD DOWNSTREAM RESERVOIRS AT INCREASED RISK OF EXOTIC SPECIES
40. Arvola, L.; Huitu, E.; Mäkelä, S.; Ojala, A.; Kankaala, P.; Tulonen, T.; Oravainen, R.: LONG-TERM AND SHORT-TERM CHANGES IN C:N:P-RATIO FROM UPSTREAM TO DOWNSTREAM WATER BODIES WITHIN A LARGE BOREAL RIVER BASIN
41. Helms, B. S.; Feminella, J. W.: DETECTING RESPONSES TO URBANIZATION USING FISHES IN STREAMS OF WEST GEORGIA, USA
42. Maloney, K. O.; Burnette, A.; Mitchell, R. M.; Feminella, J. W.: ARE FISH ASSEMBLAGES INFLUENCED BY MILITARY LAND USE IN SMALL STREAMS AT FORT BENNING, GEORGIA?
43. Runck, C.; Elam, D. L.: DIEL PATTERNS IN DISCHARGE AND WATER CHEMISTRY VARIABLES IN AN URBAN RIVER.
- CS13: Wetlands Ecology  
Chair(s): Robert J. Daoust, daoust@biol.sc.edu

(\*) represents Invited presentations



Location: Exhibit Hall A

44. Hutchens, J. J.; Walters, K.; Player, D. H.; Bevington, A.; Dukes, E.: GASTROPOD-HALOPHYTE ASSOCIATIONS IN SALT MARSHES OF SOUTH CAROLINA, USA
45. Hoskins, D. L.; Woolford, E.; Tenholder, P.; Jenkins, J.; Nimrod, M.: SUCCESS OF A SPARTINA ALTERNIFLORA TRANSPLANTS AT A GEORGIA DIEBACK AREA: A PRELIMINARY STUDY
46. Tiling, G.; Smith, T. J.; Dismukes, J. S.: HISTORIC HABITAT CHANGES ON CAPE SABLE, FLORIDA
47. Graham, S. A.; Craft, C. B.; McCormick, P. V.; Aldous, A.: PEAT ACCRETION AND PHOSPHORUS ACCUMULATION: WATER QUALITY MANAGEMENT AT UPPER KLAMATH LAKE, OREGON THROUGH WETLAND RESTORATION
48. Touchette, B. W.; Boyko, A. L.; Steudler, S. E.: DROUGHT-INDUCED OXIDATIVE STRESS IN THE EMERGENT MACROPHYTE, JUSTICIA AMERICANA L.
49. Dismukes, J. S.; Smith, T. J.; Tiling, G.: INTERTIDAL VEGETATION IN THE TAMPA BAY ESTUARY: DYNAMIC RESPONSE TO HUMAN AND NATURAL IMPACT AND RESTORATION

CS20: Sediment-Water Interactions

Chair(s): Hélène Cyr, helene@zoo.utoronto.ca

Location: Exhibit Hall A

50. Howell, K. A.; Reimers, C. E.; Stecher, H. A.; Alleau, Y.; Johnson, M. G.: OPTIMIZATION OF VOLTAMMETRIC METHODS FOR IN SITU DETERMINATION OF TOTAL SULFIDE IN ANOXIC POREWATER USING A MERCURY PLATED GOLD ELECTRODE
51. Slaby, E. F.; Hemond, H. F.; McCorkle, D. C.: DISSOLVED INORGANIC NITROGEN CYCLING IN A
52. Stringer, C. E.; Burnett, W. C.; Chanton, J. P.: ASSESSMENT OF GROUNDWATER FLOW VIA RADON TRACING INTO LAKE BARCO, FL USA: HOW MANY MEASUREMENTS ARE NEEDED?
53. Cherry, J. S.; Hagy, J. D.; Caffrey, J. M.; Campbell, J. G.; Murrell, M. C.: LIGHT DEPENDENCE OF SEDIMENT-WATER NUTRIENT EXCHANGE IN A GULF OF MEXICO ESTUARY
54. Campbell, P. L.; Swarzenski, P. W.; Klerks, P.; Klerks, P.: RECONSTRUCTING RECENT METAL ENRICHMENT RECORDS IN TAMPA BAY: A COMPARISON OF SAFETY HARBOR AND BISHOP HARBOR
55. Sansone, F. J.; Haberstroh, P. R.: POREWATER MOVEMENT WITHIN WAVE-IMPACTED PERMEABLE SEDIMENTS: DO SURFACE-MOUNTED PRESSURE TRANSDUCERS TRACE INTERNAL WAVES?
56. Ithier-Guzman, W.; Pyrtle, A.; Smoak, S.; Sastre, M.: FATE AND SOURCES OF ANTHROPOGENIC RADIONUCLIDES IN THE PUERTO RICO; PRELIMINARY RESULTS

CS29: Emerging Technologies

Chair(s): Larry A. Buchanan, larryabuchanan@earthlink.net

Location: Exhibit Hall A

57. Edgington, D. R.; Walther, D.; Cline, D. E.; Sherlock, R.; Koch, C.: DETECTING AND TRACKING ANIMALS IN UNDERWATER VIDEO USING A NEUROMORPHIC SALIENCY-BASED ATTENTION SYSTEM
58. Hood, J. M.; Sterner, R. W.; Villar-Argaiz, M.; Zimmer, K. D.: APPLICATION OF NEAR INFRARED SPECTROMETRY (NIRS) TO THE ANALYSIS OF SESTON CARBON, NITROGEN, AND PHOSPHORUS
59. Ivanikova, N. V.; McKay, R. M.; Bullerjahn, G. S.: CONSTRUCTION OF A NITRATE RESPONSIVE CYANOBACTERIAL BIOREPORTER FOR ESTIMATING NITRATE BIOAVAILABILITY IN FRESHWATER
60. SUTO, Y.; UCHIDA, T.; FUJIWARA, K.: PHOTO-EMISSION TYPE NANOCHANNEL SENSOR FOR ALUMINUM DETECTION IN NATURAL WATERS

CS38: Modeling Approaches

Chair(s): Patrick T. Haertel, haertel@aero.und.edu

Location: Exhibit Hall A

61. Whipple, S. J.; Patten, B. C.; Verity, P. G.: LIFE CYCLE OF THE MARINE PHYTOPLANKTON PHAEOCYSTIS: A CONCEPTUAL MODEL TO SUMMARIZE LITERATURE AND GUIDE RESEARCH
62. Hilbert, K.; Chigbu, P.; Baham, J. M.; Young, J. H.; Hughes, R. I.; Reddy, R. S.; Strange, T. R.; Jester, K.; Watts, M.; McIntosh, M.: A HURRICANE STORM SURGE PREDICTION TOOL THAT USES SIMULATION MODELING AND GIS TO ASSESS THE POTENTIAL IMPACTS OF VARIOUS STORM CATEGORIES IN MISSISSIPPI
63. Janicki, A.; Pribble, R.; Poe, A. C.; Wade, D.: ESTIMATES OF TOTAL NITROGEN LOADINGS TO TAMPA BAY, FLORIDA FROM 1985-1998

CS40: Biogeochemical Cycles - Process Level

Chair(s): Patrick W. Inglett, pwi@mail.ifas.ufl.edu

Location: Exhibit Hall A

64. Abell, J.; Laverman, A.; Hyacinthe, C.; Van Cappellen, P.: RELATING DENITRIFICATION RATES AND ORGANIC CARBON AVAILABILITY IN AQUATIC SEDIMENTS USING PLUG FLOW-THROUGH REACTORS
65. Aké-Castillo, J. A.; Vázquez, G.: LITTER PRODUCTION AND DECOMPOSITION OF RHIZOPHORA MANGLE IN A TROPICAL COASTAL LAGOON
66. Callahan, J.; Wang, X. C.; Chen, R. F.: ANALYSIS OF THE ACID INSOLUBLE FRACTION OF HMWDOM USING DIRECT TEMPERATURE RESOLVED PYROLYSIS-MASS SPECTROMETRY
67. Torres, I. C.; Reddy, K. R.: BIOGEOCHEMICAL PROPERTIES AND MICROBIAL ACTIVITY OF A EUTROPHIC LAKE SEDIMENT, LAKE OKEECHOBEE, USA

(-) represents Tutorial presentations

68. Hayes, M. K.; Taylor, G. T.; Astor, Y.; Scranton, M. I.: VERTICAL DISTRIBUTIONS OF THIOSULFATE, SULFITE AND ELEMENTAL SULFUR IN THE CARIACO BASIN
69. Devereux, R.; Yates, D. F.; Quarles, R. L.: SULFATE REDUCTION RATES IN A THALASSIA TESTUDINUM SEAGRASS BED, NORTHWEST FLORIDA USA GULF OF MEXICO COAST
70. Ransom, B. L.; Bano, N.; Budinoff, C.; Hollibaugh, R. A.; Hollibaugh, J. T.: SULFIDE OXIDATION DRIVES DISSIMILATORY ARSENATE REDUCTION IN ALKALINE, HYPERALKALINE, MONO LAKE, CALIFORNIA
71. Inglett, P. W.; Reddy, K. R.: INTRINSIC VERSUS EXTRINSIC FACTORS AFFECTING STABLE ISOTOPIC CHANGES DURING LITTER DECOMPOSITION
72. Osborne, T. Z.; Reddy, K. R.; Grunwald, S.; Newman, S.: ECOSYSTEM AND VEGETATION COMMUNITIES AS FACTORS IN DISSOLVED ORGANIC CARBON PRODUCTION IN THE GREATER EVERGLADES BASIN.
- Location: Exhibit Hall A
73. Winnike-McMillan, S. K.; Piehler, M. F.; Thompson, S. P.; Paerl, H. W.: NITROGEN ATTENUATION IN HEADWATER STREAMS OF COASTAL PLAIN WATERSHEDS, NEUSE RIVER ESTUARY, NC
74. McCarthy, M. J.; Lavrentyev, P. J.; Yang, L.; Zhang, L.; Chen, Y.; Qin, B.; Gardner, W. S.: NITROGEN DYNAMICS RELATIVE TO MICROBIAL FOOD WEB STRUCTURE IN A SUBTROPICAL, SHALLOW, WELL-MIXED, EUTROPHIC LAKE (TAIHU LAKE, CHINA)
75. Luyet, M. P.; Capper, N.; Libes, S. M.; Bennett, J.: CAN OFF-SHORE OUTFALL PIPES DISPERSE NUTRIENTS AND BACTERIA FROM STORMWATER RUNOFF?
76. Nielsen, O. I.; Koch-Rose, M.; Madden, C.: PHOSPHATE KINETIC IN SEAGRASS-DOMINATED SUBTROPICAL/TROPICAL CARBONATE SEDIMENTS
77. Perez-Rodriguez, R. Y.; Alfaro-De la Torre, M. C.; Huerta-Diaz, M. A.: EXTRACTION OF PHOSPHORUS ASSOCIATED TO IRON OXYHYDROXIDES IN RIVER AQUATIC SEDIMENTS
78. Usry, B. P.; Showers, W. J.; DeMaster, D. J.: NITRATE LOADING DETERMINED BY HOURLY MONITORING IN THE NEUSE RIVER BASIN, NORTH CAROLINA
79. White, W. R.; Threlkeld, S. T.: NUTRIENT STOICHIOMETRY IN ALGAL RESPONSES TO MULTIPLE STRESSORS IN EXPERIMENTAL AGRICULTURAL WETLANDS

## CS43: Nutrient Dynamics

Chair(s): Mike T. Brett, mtbrett@u.washington.edu

## Wednesday, June 16, 2004

SS02: Indicators of Environmental Condition and Change

(\*) represents Invited presentations

	Along The Freshwater-Marine Continuum		FERRYBOX SYSTEMS FOR EVALUATION OF PHYTOPLANKTON DYNAMICS
Chair(s):	Hans Paerl, hans_paerl@unc.edu Ray Torres, torres@geol.sc.edu Denice Heller Wardrop, dhw110@mail.psu.edu	2:30 PM	<u>Pirhalla, D. E.</u> ; Ransibrahmanakul, V.; Holderied, K.; Stumpf, R. P.: APPLICATION OF SEAWIFS DATA IN COASTAL WATERS: ASSESSING THE INFLUENCE OF LAND-BASED PRECIPITATION ON MONTHLY CHLOROPHYLL IN THE SOUTH ATLANTIC BIGHT, USA
Location:	Room 205		
9:00 AM	<u>Dillon, K. S.</u> ; Chanton, J. P.: THE USE OF NITROGEN STABLE ISOTOPES TO INVESTIGATE NITROGEN SOURCES AND SINKS IN AN URBANIZED WATERSHED: SARASOTA BAY, FLORIDA	2:50 PM	<u>Krupica, K. L.</u> ; Sprules, W. G.: HOW PRODUCTIVE IS OUR OCEAN: MONITORING CHANGES OF ZOOPLANKTON COMMUNITIES IN ATLANTIC COASTAL WATERS
9:20 AM	<u>Cai, W.</u> ; Wang, Y.; Wang, Z.; Jiang, L.; Chen, F.: DISSOLVED INORGANIC CARBON PARAMETERS AS INDICATORS OF ECOSYSTEM METABOLISM IN A LAND-TO-OCEAN CONTINUUM IN THE SOUTHEASTERN US CONTINENTAL MARGIN	3:10 PM	<u>Davies, S. B.</u> ; Perry, J. E.: LONG TERM CHANGES IN VEGETATION PATTERNS IN A TIDAL FRESHWATER MARSH
9:40 AM	<u>Kemp, P. F.</u> ; Aller, J. Y.: ESTIMATING PROKARYOTIC DIVERSITY: WHEN IS A 16S RDNA LIBRARY LARGE ENOUGH?	SS03:	The State of Wetland Science
10:00 AM	<u>Paerl, H. W.</u> ; Dyble, J.; Valdes, L. M.; Hall, N. S.; Winkelmann, V.; Moisaner, P. H.; Pinckney, J. L.; Piehler, M. F.; Leuttich, R. A.: MICROALGAL INDICATORS OF HUMAN AND CLIMATICALLY-INDUCED ECOLOGICAL CHANGE IN ESTUARIES	Chair(s):	K. Ramesh Reddy, krr@ufl.edu Amy Parker, aparker@smokey.forestry.uga.edu
10:40 AM	<u>Pinckney, J. L.</u> ; Paerl, H. W.; Valdes, L. M.: PHYTOPLANKTON PHOTOPIGMENTS: A USEFUL BIOINDICATOR FOR MEASURING CHANGES IN THE CONDITION OF ESTUARINE ECOSYSTEMS	Location:	Room 201
11:00 AM	<u>Millie, D. F.</u> ; Pinckney, J. L.; Paerl, H. W.; Bendis, B. J.; Pigg, R. J.: NEURAL NET MODELING OF ESTUARINE PHYTOPLANKTON: PRELIMINARY ASSESSMENTS FOR THE NEUSE (NC) AND ST. JOHNS (FL) RIVERS	9:00 AM	<u>Richardson, J.</u> : THE ROLE OF WETLANDS IN THE LANDSCAPE
11:20 AM	<u>Rowe, E. A.</u> ; Redalje, D. G.; Sawant, P.; Natter, M. J.; Pluhar, R.; Kirk, E.; Schilling, R.: BACTERIOPLANKTON DYNAMICS RELATED TO ENVIRONMENTAL VARIABLES IN THE ST. LOUIS BAY, MISSISSIPPI, USA	9:20 AM	<u>Patrick, W. H.</u> ; Yu, K.: WETLANDS: SOURCES AND SINKS FOR GREENHOUSE GASES
11:40 AM	<u>Heil, C. A.</u> ; Glibert, P. M.; O'Neil, J. M.; Dennison, W. D.; Hollander, D.; O'Donohue, M. J.; Costanzo, S.; Greenwood, J.; Revilla, M.; Hoare, A.; Alexander, J.; Murasko, S.: COMPARATIVE ANALYSIS OF NUTRIENT CYCLING AND MICROBIAL DYNAMICS IN TWO EUTROPHIED SUBTROPICAL ESTUARIES: FLORIDA BAY, USA, AND MORETON BAY, AUSTRALIA	9:40 AM	<u>Crumpton, W. G.</u> : WATER QUALITY-NUTRIENT PROCESSING BY WETLANDS IN AGRICULTURAL WATERSHEDS
1:30 PM	<u>Muylaert, K.</u> ; Pérez Martinez, C.; Lauridsen, T.; Declerck, S.; Zwart, G.; Condé Porcuna, J. M.; Jeppesen, E.; De Meester, L.; Vyverman, W.: RICHNESS INCREASES BUT EVENNESS DECREASES WITH INCREASING PRODUCTIVITY IN PHYTOPLANKTON COMMUNITIES FROM SHALLOW LAKES	10:00 AM	<u>Rasmussen, T. C.</u> : HYDROLOGIC CONNECTIVITY OF ISOLATED WETLANDS
1:50 PM	<u>Cebrian, J.</u> ; Hauxwell, J.; Lartigue, J.: PHYTOPLANKTON-MACROALGAE INTERACTIONS AT HIGH LEVELS OF ANTHROPOGENIC EUTROPHICATION: DOES INTENSE WATER-COLUMN SHADING OFTEN LEAD TO MACROALGAL DECLINE?	10:40 AM	<u>Ogram, A. V.</u> : THE STATE OF WETLAND MICROBIAL ECOLOGY
2:10 PM	<u>Engelke, C. J.</u> ; Schroeder, F.; Petersen, W.; Colijn, F.; Hesse, K. J.; Marx, S.; Wiltshire, K. H.: IN SITU HIGH RESOLUTION MEASUREMENTS OF PHYSICAL, CHEMICAL AND BIOLOGICAL FACTORS ON BUOY AND	11:00 AM	<u>Hagerthey, S. E.</u> : PERIPHYTON STRUCTURE AND FUNCTION IN FRESHWATER WETLANDS
		11:20 AM	<u>Craft, C. B.</u> ; Mendelssohn, I. A.; Fennessy, M. S.: VEGETATION ECOLOGY IN WETLANDS
		11:40 AM	<u>Reddy, K. R.</u> ; Inglett, P. W.; Delaune, R. D.; Parker, A.: COUPLED BIOGEOCHEMICAL CYCLES IN WETLANDS
		1:30 PM	<u>Sklar, F. H.</u> : MODELS FOR WETLAND ECOLOGY, MANAGEMENT AND RESTORATION: EXAMPLES FROM THE EVERGLADES
		1:50 PM	<u>Grunwald, S.</u> ; Heuvelink G B M , ; Reddy, K. R.: SPATIO-TEMPORAL MODELING OF WETLAND PROPERTIES AND PROCESSES
		2:10 PM	Richardson, T. C.; <u>Hurt, G. W.</u> ; Skulnick, B. L.; Ellis, L. R.: METHODOLOGY TO PREDICT WATER LEVELS IN SANDHILL LAKES USING SOIL MORPHOLOGY, FLORIDA, USA
		2:30 PM	<u>Rudnick, D. T.</u> : EVALUATING THE BIOGEOCHEMICAL EFFECTS OF EVERGLADES AND FLORIDA BAY RESTORATION
		2:50 PM	<u>Scott, D. E.</u> ; Gibbons, J. W.: ISOLATED WETLANDS: WHO NEEDS 'EM?
		3:10 PM	<u>Crisman, T. L.</u> : INTERNATIONAL WETLANDS IN CRISIS: CONSERVATION IN THE FACE OF INCREASED THREATS AND DECREASED WATER
		SS08:	Coastal Development: Connecting Research with Practical Application in Local Communities
		Chair(s):	Dwayne Porter, porter@sc.edu

(←) represents Tutorial presentations

	Rick DeVoe, rick.devoe@scseagrant.org Angela Halfacre, halfacre@cofc.edu		DYNAMICS, UV ABSORBANCE, AND BACTERIOPLANKTON RESPONSES TO DIFFERENT SPECIES OF FOREST TREE POC INPUTS
Location:	Room 204	11:20 AM	<u>Anderson, N. J.</u> ; Gibson, C. E.: LANDSCAPE VERSUS CLIMATIC CONTROLS ON DOC VARIABILITY IN LOW ARCTIC LAKES IN SW GREENLAND
9:00 AM	<u>Walker, S. P.</u> ; Porter, D. E.; Jefferson, W. H.; White, D. L.: DESIGN AND IMPLEMENTATION OF A MULTI-PARTICIPANT DATABASE MANAGEMENT PROGRAM FOR THE SOUTH ATLANTIC BIGHT LAND USE-COASTAL ECOSYSTEM STUDY	11:40 AM	<u>Reche, I.</u> ; Pulido-Villena, E.; Morales-Baquero, R.; Sommaruga, R.: GLOBAL CLIMATIC PATTERNS INFLUENCE THE ATMOSPHERIC DEPOSITION OF BIOAVAILABLE ORGANIC CARBON IN HIGH MOUNTAIN LAKES
9:20 AM	<u>Lewitus, A. J.</u> ; Burke, M. K.; DeMattio, K. A.; Kempton, J. B.; Mason, L. J.; Wilde, S. B.; Williams, P. R.: BRACKISH STORMWATER DETENTION PONDS AS NATURAL 'INCUBATORS' FOR HARMFUL ALGAL BLOOMS	1:30 PM	<u>Mladenov, N.</u> ; McKnight, D. M.: INFLUENCE OF PHOTODEGRADATION AND FLOOD ON DOM PROPERTIES IN THE OKAVANGO DELTA, A LARGE ARID-ZONE WETLAND IN BOTSWANA
9:40 AM	<u>Bejarano, A. C.</u> ; Chandler, G. T.: INFLUENCE OF NATURAL DISSOLVED ORGANIC MATTER (DOM) ON ACUTE AND CHRONIC TOXICITY OF THREE URBAN-USE PESTICIDES ON THE ESTUARINE COPEPOD AMPHIASCUS TENUIREMISM	1:50 PM	<u>Frenette, J. J.</u> : SOURCES OF DISSOLVED ORGANIC MATTER IN A FLUVIAL LAKE: OPTICAL EVIDENCE OF STRONG SPATIAL GRADIENTS
10:00 AM	<u>DeLorenzo, M. E.</u> ; Key, P. B.; Chung, K. W.; Fulton, M. H.: TOXICITY OF THE COMMONLY USED FUNGICIDE CHLOROTHALONIL TO THREE ESTUARINE ORGANISMS: AN URBANIZATION AND LAND USE STUDY	2:10 PM	<u>Trudel, G.</u> ; Frenette, J. J.; Daoust, B.: SOLAR RADIATION AND MICROBIAL PROCESSES IMPACTS ON CHEMICAL AND OPTICAL PROPERTIES OF FRESHWATER DISSOLVED ORGANIC MATTER
10:40 AM	<u>Ma, H. B.</u> ; Aelion, C. M.: POTENTIAL RATES OF DENITRIFICATION (DNF) AND DISSIMILATORY NITRATE REDUCTION TO AMMONIUM (DNRA) IN SURFACE AND SUBSURFACE SEDIMENTS OF SC COAST, USA	2:30 PM	<u>Martin, C.</u> ; Frenette, J. J.: INTERACTIONS BETWEEN SOURCES OF DISSOLVED ORGANIC CARBON AND LIGHT IN RIVERS: IMPACTS ON THE PRODUCTIVITY OF BACTERIA AND PHYTOPLANKTON
11:00 AM	<u>Sanger, D. M.</u> ; Holland, A. F.; Filipowicz, A. B.; Gillett, D. J.: LINKING LAND COVER TO THE ENVIRONMENTAL CONDITIONS IN TIDAL CREEKS	2:50 PM	<u>Barnard, C.</u> ; Frenette, J. J.; Vincent, W. F.: CARBON SOURCES OF ZEBRA MUSSEL VELIGERS IN THE ST. LAWRENCE UPPER ESTUARY: DOC UPTAKE AND ISOLATION OF MICROBIAL COMPONENTS IN SITU FOR STABLE ISOTOPE ANALYSIS
11:20 AM	<u>Delano, P.</u> ; Currin, C. A.: SCIENCE-BASED COMMUNITY MONITORING OF RESTORED SALT MARSHES IN NORTH CAROLINA, USA	3:10 PM	<u>Cabaniss, S. E.</u> ; Madey, G. R.; Patricia Maurice, P. A.; Leff, L. G.: STOCHASTIC SIMULATION OF NOM FORMATION AND TRANSFORMATION IN SURFACE WATERS
11:40 AM	<u>Lauritsen, D. D.</u> : LOCAL COMMUNITIES NEED SCIENTIST INVOLVEMENT IN COASTAL DEVELOPMENT DECISIONS		
12:00 PM	<u>Mazumder, A.</u> : SUSTAINABLE CLEAN AND HEALTHY WATER AND COMMUNITIES: CHALLENGES OF INTEGRATING INTER-DISCIPLINARY SCIENCES TO COMMUNITIES AND POLICY MAKERS.	SS14:	Making Connections in Marine Science Research and Guided Inquiry: Undergraduate, Pre-College, and Teacher Programs
SS11:	Cycling and Impact of Dissolved Organic Matter in Rivers, Lakes and Estuaries: Influence of Climate and Landscape	Chair(s):	Susan Libes, susan@coastal.edu Robert Young, ryoung@coastal.edu
Chair(s):	Colin Stedmon, cst@dmu.dk Stiig Markager, ssm@dmu.dk Morten Søndergaard, msondergaard@zi.ku.dk	Location:	Room 202
Location:	Room 203	9:00 AM	<u>Capello, H. E.</u> ; Ochs, C. A.; O'Haver, J. H.; Rock, D.: THE NORTH MISSISSIPPI GK-8 PROJECT: A WATERSHED APPROACH TO ENVIRONMENTAL EDUCATION IN ELEMENTARY AND MIDDLE SCHOOLS
9:00 AM	<u>Vincent, W. F.</u> : FROM THE AMAZON TO POLAR SEAS: DISSOLVED ORGANIC MATTER IN FRESHWATER VERSUS MARINE ECOSYSTEMS	9:20 AM	<u>Goehring, L.</u> : STUDENT EXPERIMENTS AT SEA (SEAS) – FOSTERING AUTHENTIC STUDENT INQUIRY IN THE MID-OCEAN RIDGE ENVIRONMENT*
9:40 AM	<u>Bade, D. L.</u> ; Carpenter, S. R.; Cole, J. J.; Pace, M. L.; Kritzberg, E.; Van de Bogert, M.: ISOTOPIC RESPONSE OF DOC TO A WHOLE-LAKE INORGANIC 13-C ADDITION	9:40 AM	<u>Keener-Chavis, P.</u> : LEARNING OCEAN SCIENCE THROUGH OCEAN EXPLORATION: A NEW NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION CURRICULUM FOR GRADES 6-12
10:00 AM	<u>Sobek, S.</u> ; Tranvik, L. J.; Cole, J. J.: TEMPERATURE INDEPENDENCE OF GLOBAL CARBON DIOXIDE SUPERSATURATION IN LAKES	10:00 AM	<u>McDonnell, J. D.</u> ; Simms, E.; De Luca, M. P.; Hotaling, L.: BRINGING REAL-TIME OCEAN SCIENCE DATA INTO THE CLASSROOM THROUGH COASTAL OCEAN OBSERVATORIES
10:40 AM	<u>Urban, N. R.</u> ; Lu, X.; Auer, M. T.; Green, S. A.: CARBON CYCLING IN LAKE SUPERIOR: WHAT SUPPORTS NET HETEROTROPHY?	10:40 AM	<u>Nielsen, D. C.</u> ; Robigou, V.: INTEGRATING RESEARCH AND EDUCATION THROUGH SEAGOING, RESEARCH EXPERIENCES FOR TEACHERS - THE REVEL PROJECT
11:00 AM	<u>DiLonardo, S. S.</u> ; Wehr, J. D.; Perrone, A. A.: DOC	11:00 AM	<u>Sancho, G.</u> ; Sautter, L.: HANDS-ON AND COLLABORA-

(\*) represents Invited presentations



- 11:20 AM TIVE LEARNING THROUGH OCEANOGRAPHIC RESEARCH EXPERIENCES: THE TRANSECTS PROGRAM  
Valle-Levinson, A.: HIGH SCHOOL TEACHERS AND STUDENTS INTERACTING WITH GRADUATE STUDENTS IN HYDROGRAPHIC DATA COLLECTIONS
- 11:40 AM Young, R. E.: INCREASING THE PARTICIPATION BY UNIVERSITY FACULTY, LOCAL TEACHERS, AND UNDERGRADUATE STUDENTS IN SUSTAINABLE COLLABORATIVE RESEARCH: THE RISING TIDE PROJECT\*
- SS19: Gelatinous Zooplankton  
Chair(s): Monty Graham, mgraham@disl.org  
Location: Room 100
- 9:00 AM Purcell, J. E.: TEMPERATURE AND SALINITY EFFECTS ON ASEXUAL REPRODUCTION IN THE SCYPHOZOAN AURELIA LABIATA\*
- 9:40 AM Breitburg, D. L.; Fulford, R. S.: CHANGING SEA NETTLE ABUNDANCES IN THE PATUXENT RIVER: INDIRECT EFFECTS OF OYSTER DECLINE?
- 10:00 AM Higgins III, J. E.; Graham, W. M.: THE INFLUENCE OF WATER COLUMN STRUCTURE ON REPRODUCTION OF THE MOON JELLYFISH, AURELIA AURITA LINNÉ, IN THE NORTHERN GULF OF MEXICO
- 10:40 AM Rakow, K. C.; Graham, W. M.: MECHANICS OF ORIENTED SWIMMING BY THE JELLYFISH, AURELIA AURITA, IN SHEAR FLOW
- 11:00 AM Morris, A. K.; Hamner, W. M.: CAUGHT ON VIDEO! JELLYFISH AGGREGATIONS ALONG THE MONTEREY UPWELLING SHADOW, MONTEREY, CALIFORNIA
- 11:20 AM Condon, R. H.; Steinberg, D. K.: EFFECTS OF CTENOPHORES ON ORGANIC AND INORGANIC NUTRIENT CYCLING IN THE YORK RIVER ESTUARY, VIRGINIA, USA
- 11:40 AM Moss, A. G.; Madin, L. P.: STRUCTURE – FUNCTION RELATIONSHIPS IN THE CILIATED GROOVE OF PEGEA SOCIA (THALIACEA, BOSC, 1802).
- 1:30 PM Bayha, K. M.; McDonald, J. H.; Gaffney, P. M.: POPULATION GENETIC STRUCTURE OF THE SEA NETTLE CHRYSAORA QUINQUECIRRHA
- 1:50 PM Graham, W. M.; Bolton, T. F.: MOLECULAR AND MORPHOLOGICAL COMPARISONS OF NATIVE AND NON-NATIVE POPULATIONS OF A JELLYFISH INVADER
- 2:10 PM Ortman, B. D.; Bucklin, A.; Youngbluth, M.: LINKING MOLECULAR AND MORPHOLOGICAL CHARACTERS TO ASSESS GELATINOUS ZOOPLANKTON BIODIVERSITY
- 2:30 PM Chiaverano, L. M.; Graham, W. M.: THE EFFECT OF PARASITIC ANEMONES ON THE MORPHOLOGY OF AURELIA SP. (SCYPHOZOA: SEMAESOSTOMEAE) IN MLJET LAKE, CROATIA.
- CS25: Harmful Algal Blooms  
Chair(s): Howard B. Glasgow, howard\_glasgow@ncsu.edu  
Location: Room 202
- 1:30 PM Bradt, S. R.; Haney, J. F.: A TECHNIQUE FOR THE DETECTION OF CYANOBACTERIA IN LAKES BY REMOTE SENSING: DEVELOPMENT AND POTENTIAL APPLICATIONS
- 1:50 PM Glasgow, H. B.; Burkholder, J. M.; Touchette, B. W.; Rosen, N. H.; Allen, E. H.: TOXIC CYANOBACTERIA BLOOMS IN PIEDMONT RESERVOIRS, AND EARLY DETECTION BY REAL-TIME REMOTE MONITORING SYSTEMS
- 2:10 PM Lakeman, M. B.; Cattolico, R. A.: GENERATION AND CHARACTERIZATION OF A LOW-IRON TOLERANT MUTANT OF THE TOXIC ESTUARINE ALGA HETEROSIGMA AKASHIWO
- 2:30 PM Simjouw, J.; Minor, E. C.; Mulholland, M.: COMPARISON OF DISSOLVED ORGANIC MATTER CONCENTRATION AND CHARACTERISTICS DURING BROWN TIDE BLOOMS IN 2002 AND 2003: A SEARCH FOR POSSIBLE CAUSES
- CS37: Estuarine and Near-Shore Processes  
Chair(s): James D. Hagy, hagy.jim@epa.gov  
Location: Room 204
- 1:30 PM Elifantz, H.; Malmstrom, R. R.; Cottrell, M. T.; Kirchman, D. L.: UPTAKE OF EXTRACELLULAR POLYMERIC SUBSTANCES AND GLUCOSE BY NATURAL BACTERIAL ASSEMBLAGES IN THE DELAWARE ESTUARY
- 1:50 PM Burkholder, J. M.; Eggleston, D. B.; Glasgow, H. B.; Reed, R. E.; Melia, G. M.; Kinder, C. A.; Deamer, N. J.; Springer, J. J.: RESILIENCE OF ESTUARINE ECOSYSTEMS TO MAJOR STORMS, EXEMPLIFIED BY THE NEUSE ESTUARY, NORTH CAROLINA, U.S.A.
- 2:10 PM Dobberfuhl, D. R.: DROUGHT AND WATER QUALITY INFLUENCED PATTERNS IN SUBMERGED AQUATIC VEGETATION IN THE ST. JOHNS RIVER, FLORIDA
- 2:30 PM Pigg, R. J.; Millie, D. F.; Bendis, B. J.: AUTONOMOUS INSTRUMENTATION IN CONJUNCTION WITH ADAPTIVE SAMPLING ROUTINES TO CHARACTERIZE THE LOWER ST JOHNS RIVER BASIN, USA
- 2:50 PM Jonsson, B. F.; Lundberg, P. A.; Döös, K.: BALTIC SUB-BASIN TURNOVER TIMES EXAMINED USING A NUMERICAL MODEL
- 3:10 PM Hagy, J. D.; Campbell, J. G.; Murrell, M. C.: PHYSICAL AND BIOLOGICAL CONTROLS ON DISSOLVED OXYGEN DYNAMICS IN A NORTHEASTERN GULF OF MEXICO ESTUARY
- CS42: Microbial Dynamics  
Chair(s): Eric C. Milbrandt, emilbran@sccf.org  
Location: Room 200

(\*) represents Tutorial presentations

- 9:00 AM Howard, M. H.; Connon, S. A.; Watwood, M. E.; Magnuson, T. S.: VIRAL AND BACTERIAL DYNAMICS IN SELECTED HYDROTHERMAL FEATURES OF THE ALVORD DESERT, OREGON  
Rick DeVoe, rick.devoe@scseagrant.org  
Angela Halfacre, halfacre@cofc.edu  
Location: Exhibit Hall A
- 9:20 AM Binder, B. J.: TESTING THE IMPORTANCE OF PHYSIOLOGICAL FACTORS IN REGULATING THE SEASONAL CYCLE OF PROCHLOROCOCCUS AND SYNECHOCOCCUS (PICOCYANOBACTERIA) IN THE SARGASSO SEA  
81. Perry, W. W.; Nowocin, K. J.; Morton, S. L.; Morton, S. L.: VOLUNTEER MONITORING COLLABORATION INCREASES SURVIVAL OF SOUTHEAST PHYTOPLANKTON COMMUNITIES
- 9:40 AM Eldridge, M. L.; Cadotte, M. W.; Bruland, K. W.; Wilhelm, S. W.: THE EFFECT OF IRON AVAILABILITY ON MICROBIAL COMMUNITY STRUCTURE: A COMPARISON OF NATURAL AND ARTIFICIAL FE GRADIENTS.  
82. Mallin, M. A.; Johnson, V. L.; MacPherson, T. A.; Ensign, S. H.: BIOCHEMICAL OXYGEN DEMAND VARIABILITY IN RURAL AND URBAN SOUTHEASTERN STREAMS
- 10:00 AM De Wever, A.; Muylaert, K.; Van der Gucht, K.; Pirlot, S.; Cocquyt, C.; Plisnier, P. D.; Vyverman, W.: VERTICAL AND HORIZONTAL HETEROGENEITY IN PROKARYOTIC COMMUNITY COMPOSITION IN LAKE TANGANYIKA  
SS11: Cycling and Impact of Dissolved Organic Matter in Rivers, Lakes and Estuaries: Influence of Climate and Landscape  
Chair(s): Colin Stedmon, cst@dmu.dk  
Stiig Markager, ssm@dmu.dk  
Morten Søndergaard, msondergaard@zi.ku.dk
- 10:40 AM Milbrandt, E. C.; Shapiro, L. P.: BACTERIA PHYLOTYPES, COMMUNITY STRUCTURE, AND VARIABILITY IN PACIFIC NORTHWEST MUDFLATS  
Location: Exhibit Hall A
- 11:00 AM Peierls, B. L.; Paerl, H. W.: COUPLING AND DECOUPLING OF BACTERIAL AND ALGAL PRODUCTIVITY ALONG THE SALINITY GRADIENT IN A SHALLOW NORTH CAROLINA ESTUARY  
83. von Wachenfeldt, E.; Tranvik, L. J.: TRANSFORMATIONS OF DISSOLVED ORGANIC NITROGEN DURING RESIDENCE IN LAKES – A COMPARISON OF BIOAVAILABILITY IN INLET AND OUTLET OF A LARGE LAKE
- 11:20 AM Tranvik, L. J.; Bigg, E. K.; Knulst, J. C.; Matrai, P. A.; Leck, C.: MICROBES IN THE SURFACE MICROLAYER OF OPEN LEADS IN THE ARCTIC OCEAN - A SOURCE OF HIGH ARCTIC AEROSOL?  
84. Litz, L. P.; Chen, R. F.: CDOM PRODUCTION BY THE SALT MARSH CORDGRASS, SPARTINA ALTERNIFLORA AND ITS FATE IN ESTUARIES
- 11:40 AM JACQUET, S.; DURAN, R.; TORRETON, J. P.; TROUSSELLIER, M.: SPATIAL AND TEMPORAL BACTERIAL COMMUNITY STRUCTURE IN RELATION TO EUTROPHICATION IN THE SW LAGOON OF NEW CALEDONIA  
85. Kelly, S. P.; Rudnick, D. T.; Madden, C. J.: FATE AND EFFECTS OF EVERGLADES DISSOLVED ORGANIC MATTER IN FLORIDA BAY
- 1:30 PM Ochs, C. A.; Ogbobo, F. E.: EFFECTS OF THE LIGHT ENVIRONMENT ON RELATIVE GROWTH RATES OF BACTERIOPLANKTON AND PHYTOPLANKTON UNDER VARIOUS DEGREES OF NUTRIENT-LIMITATION  
SS13: Recent Advances in Organic Phosphorus Investigations: Linking Landscapes  
Chair(s): Susan Newman, sneyman@sfwmd.gov  
Robert Heath, rheath@kent.edu
- 1:50 PM Lau, W. W.; Armbrust, E. V.: INFLUENCE OF PHYTOPLANKTON PHOTORESPIRATORY GLYCOLATE ON BACTERIAL COMMUNITY STRUCTURE  
Location: Exhibit Hall A
- 2:10 PM Leech, D. M.; Wetzel, R. G.: INDIRECT EFFECTS OF ELEVATED CO<sub>2</sub> AND UV ON ENERGY TRANSFER WITHIN THE MICROBIAL LOOP  
86. Heighton, L.; Siefert, R. L.; Schmidt, W.: AVAILABILITY OF PHYTIC ACID COMPLEXES OF FERRIC AND FERROUS IRON TO ENZYMIC DEPHOSPHORALATION BY ASPERGILLUS FICCUM
- 2:30 PM Mille-Lindblom, C.; Fischer, H.; Tranvik, L. J.: BIOMASS AND COMMUNITY COMPOSITION OF PLANT DECOMPOSER BACTERIA AND FUNGI – A COMPARISON ACROSS LAKES AND PLANT SPECIES  
SS14: Making Connections in Marine Science Research and Guided Inquiry: Undergraduate, Pre-College, and Teacher Programs  
Chair(s): Susan Libes, susan@coastal.edu  
Robert Young, ryoung@coastal.edu  
Location: Exhibit Hall A
- POSTER SESSIONS**
- SS06: Science for Wetland Policy  
Chair(s): R. Jan Stevenson, rjstev@msu.edu  
Location: Exhibit Hall A
80. Chimney, M. J.; Newman, J. M.: ASSESSMENT OF TREATMENT PERFORMANCE IN LARGE-SCALE CONSTRUCTED WETLANDS DESIGNED TO REDUCE PHOSPHORUS LOADING TO THE FLORIDA EVERGLADES
- SS08: Coastal Development: Connecting Research with Practical Application in Local Communities  
Chair(s): Dwayne Porter, porter@sc.edu
87. Wason, C. J.; Driscoll, M. K.; Seydewitz, L. M.; Baker, J.; Hocking, D.; Giguere, M. J.; Faltin, E.; Schloss, J. A.; Bradt, S. R.; Blakemore, R. P.; Baker, A. L.; Campbell, J. W.: PROJECT LAKE WATCH: EXCHANGING LIMNOLOGICAL AND GEOSPATIAL INFORMATION BETWEEN CAMPUS AND COMMUNITY
88. Keel, A. A.; Witting, J. H.; Zettler, E. R.; Joyce, P. S.; Bower, A. S.: SEA EDUCATION ASSOCIATION: A STUDENT-CENTERED, RESEARCH-DRIVEN APPROACH TO OCEANOGRAPHY EDUCATION

(\*) represents Invited presentations

- CS01: Bacteria  
Location: Exhibit Hall A
89. LeCleir, G. R.; Buchan, A.; Hollibaugh, J. T.: COMPARISON OF GROUP I CHITINASE GENE SEQUENCES FROM DIVERSE ENVIRONMENTS: IMPLICATIONS OF ENVIRONMENTAL EFFECTS ON EXTRACELLULAR ENZYMES.
90. Hristov, R.; Rabon, D. R.; Williams, S. C.; Heaton, D. P.; Verity, P. G.: OPTIMIZATION OF METHODS FOR ANALYZING IMAGES OF PLANKTON SAMPLES USING A JAVA-BASED IMAGE ANALYSIS SYSTEM
91. Foy, T. E.; Frischer, M. E.; Walters, T. L.; Danforth, J. M.; Schmit, J. P.; Shearer, C. A.: BACTERIAL AND FUNGAL ABUNDANCE, DIVERSITY, AND RESPONSE TO NUTRIENT ENRICHMENT IN MANGROVE SEDIMENT AND LEAF LITTER
92. Williams, S. C.; Heaton, D. P.; Hristov, R.; Frischer, M. E.; Verity, P. G.: METHODOLOGICAL FACTORS THAT CONTRIBUTE TO VARIABILITY USING FLUORESCENCE IN SITU HYBRIDIZATION (FISH) IN MARINE PLANKTONIC ENVIRONMENTS
93. Lin, X.; Astor, Y.; Scranton, M. I.; Taylor, G. T.: VERTICAL DISTRIBUTION OF BACTERIAL POPULATIONS IN THE CARIACO BASIN PROBED BY FLUORESCENT IN SITU HYBRIDIZATION (FISH)
94. Smith, A. R.; Bano, N.; Washington, M.; Hollibaugh, J. T.: VERTICAL DISTRIBUTION OF BACTERIA IN SEDIMENT FROM MONO LAKE, CALIFORNIA
95. Christian, B. W.; Lind, O. T.: BACTERIAL CARBON SUBSTRATE UTILIZATION PATTERNS AT THE SEDIMENT-WATER INTERFACE OF A STRATIFIED EUTROPHIC RESERVOIR
96. Hoostal, M. J.; Bouzat, J. L.: INTERACTIVITY OF DOM AND MICROBIAL COMMUNITIES IN LAKE ERIE SEDIMENTS
- CS03: Coral Reefs  
Location: Exhibit Hall A
97. Fullerton, S.; Rajan, J.; Le, T.; Romagni, J. G.: INDUCTION OF SUPEROXIDE DISMUTASE (SOD) ISOZYMES IN APTASIA PALLIDA IN RESPONSE TO ENVIRONMENTAL STRESS
98. Snively, N. S.: VITALITY OF CORAL REEFS IN JEOPARDY: A FOCUS ON THE DETERIORATION OF CORAL HABITATS IN THE FLORIDA KEYS.
99. Rogers, J. E.; Marcovich, D.: GROWTH RESPONSE OF A CORAL SYMBIONT, SYMBIODINIUM SP., TO COMBINED TEMPERATURE AND UV RADIATION EXPOSURE.
- CS07: Phytoplankton  
Chair(s): Charles W. Boylen, boylec@rpi.edu  
Location: Exhibit Hall A
100. Filstrup, C. T.; Lind, O. T.: SPATIAL AND TEMPORAL PATTERNS OF DIATOM PRODUCTION AND COMPOSITION WITHIN A EUTROPHIC, POLYMICTIC IMPOUNDMENT
101. Boyko, A. L.; Touchette, B. T.: THE DISPLACEMENT OF CYANOBACTERIA (WORONICHINIA NAEGELIANA AND ANABAENA PLANCTONICA) WITH A CHOLORPHYTE (EUDORINA ELEGANS) FOLLOWING CHEMICAL TREATMENT
102. Matsumoto, Y.; Kawakami, H.; Fujiwara, K.: TOXICITY AND ACCUMULATION OF FIRST TRANSITION METAL IONS ON GREEN ALGAE, CHLORELLA KESSLERI, CHLAMYDOMONAS REINHARDTII
103. Kawakami, H.; Matsumoto, Y.; Fujiwara, K.: EVALUATIONS OF METAL TOXICITY AND ACCUMULATION ON PHYTOPLANKTON, CHLORELLA KESSLERI -BASED ON THE PERIODIC TABLE
104. Rocha, A. M.; Mulholland, M. R.; Watson, A. M.; Bernhardt, P. W.: INCORPORATION OF THYMIDINE AND LEUCINE BY MARINE PHYTOPLANKTON: IMPLICATIONS FOR BACTERIAL PRODUCTIVITY RATE ESTIMATES
105. Órnólfsson, E. B.; Tester, P. A.: PHYTOPLANKTON, BACTERIA AND VIRUS DYNAMICS DURING A WINTER BLOOM IN A SUBTROPICAL ESTUARY, NEWPORT RIVER, NC.
106. Iriarte, J. L.; Gonzalez, R. R.; Quiñones, R. A.; Kang, S. H.: ENZYMATIC ACTIVITIES OF ANTARCTIC MICROPLANKTON: RELATIONSHIP WITH PRIMARY PRODUCTIVITY, PHOSPHATE AND NITRATE
107. Canion, A. K.; Ochs, C. A.: COMPARATIVE POPULATION DYNAMICS OF DINOFLAGELLATES IN A NORTHERN MISSISSIPPI LAKE
- CS15: Ecological Indicators  
Location: Exhibit Hall A
108. Pawlik, J.; Jordan, A.; Romagni, J. G.; Bagnall, R. A.: INDUCTION OF SUPEROXIDE DISMUTASE (SOD) IN AMERICAMYSIS BAHIA EXPOSED TO SALINITY AND TEMPERATURE STRESS
109. Avellan, C. T.; Conde, D.; Hough, R. A.: DEVELOPMENTAL INSTABILITY IN POLYGONUM PUNCTATUM AND SAGITTARIA MONTEVIDENSIS CORRELATED WITH POLLUTION STRESS
110. LOUDA, J. W.: PIGMENT-BASED CHEMOTAXONOMIC EVALUATION OF NORTH- CENTRAL AND WESTERN FLORIDA BAY PHYTOPLANKTON
111. Hough, R. A.; Montante, J. M.; Avellan, C. T.; Tracy-Bee, M.: DEVELOPMENTAL INSTABILITY OF MACROPHYTES AND ECOSYSTEM ASSESSMENT OF THE MUSKEGON RIVER WATERSHED
112. Montante, J. M.; Avellan, C. T.; Tracy-Bee, M.; Hough, R. A.: DEVELOPMENTAL INSTABILITY OF FISH AND ECOSYSTEM ASSESSMENT OF THE MUSKEGON RIVER WATERSHED
- CS24: Environmental Ecotoxicology  
Chair(s): Carol L. Folt, carol.folt@dartmouth.edu  
Location: Exhibit Hall A

(-) represents Tutorial presentations

113. Viret, H.; Pringault, O.; Duran, R.: INFLUENCE OF METALS ON AEROBIC RESPIRATION OF BENTHIC MICROBIAL COMMUNITIES IN THE SOUTHWEST LAGOON OF NEW CALEDONIA
114. Bothwell, M. L.; Holtby, L. B.; Hamilton, S.; Lynch, D.: EFFECTS OF NATURAL SOLAR ULTRAVIOLET RADIATION ON THE PHYSIOLOGY AND DEVELOPMENT OF JUVENILE COHO SALMON
115. Robertson, M. J.; Anderson, M. R.; Scruton, D. A.; Robertson, G. J.: MERCURY CONCENTRATIONS IN FRESHWATER FISHES OF LABRADOR IN RELATION TO BIOLOGICAL AND ENVIRONMENTAL VARIABLES
116. Alexander, J. L.; Touchette, B. W.; Glasgow, H. B.; Burkholder, J. M.: SURVEY OF THE CYANOTOXIN, MICROCYSTIN-LR, IN POTABLE-WATER SUPPLY RESERVOIRS IN NORTH CAROLINA, U.S.A.
117. Sastre, M. P.; Collado, E.; Morales, S.; Santiago, M.; Ayala, E.; Sánchez, E.; Muller, R.; Rodríguez, C.; Mansilla, I.: DNA SINGLE STRAND BREAKS IN THE MUSSEL BRACHIODONTES EXUSTUS, JOBOS BAY NATIONAL ESTUARINE RESEARCH RESERVE, PUERTO RICO
- CS25: Harmful Algal Blooms  
Chair(s): Howard B. Glasgow, howard\_glasgow@ncsu.edu  
Location: Exhibit Hall A
118. Pascual, D. L.; Johengen, T. H.; Meier, P. G.; Filippelli, G. M.; Tedesco, L. P.; Moran, D.: CULTURAL EUTROPHICATION OF THREE MIDWEST URBAN RESERVOIRS: THE ROLE OF NITROGEN AND PHOSPHORUS IN DETERMINING PHYTOPLANKTON COMMUNITIES
119. Berg, B. A.; Kirkpatrick, G. J.; Pederson, B. A.; Higham, C. J.; Hillier, J. R.; Lelievre, S. D.: KARENIA BREVIS BLOOM MONITORING: A COMPARISON OF DISCRETE SAMPLING AND AUV TECHNOLOGIES.
120. Firth, C. A.; Buskey, E. J.: GRAZING AND EGG PRODUCTION OF COPEPODS FED NATURAL RED TIDE (KARENIA BREVIS) ASSEMBLAGES OR LABORATORY REARED CULTURES
121. Frommlet, J. C.; Iglesias-Rodriguez, M. D.: ANALYSIS OF INTRASPECIFIC GENETIC DIVERSITY IN THE MARINE DINOFLAGELLATE LINGULODINIUM POLYEDRUM USING MICROSATELLITES
122. Mathews, T.; Fisher, N. S.: THE EFFECTS OF DOMOIC ACID ON THE BIOAVAILABILITY OF TRACE METALS
123. Madden, M. L.; Warner, M. E.: INVESTIGATING THE EFFECTS OF LIGHT ON THE GROWTH AND PHOTOBIOLOGY OF HARMFUL BLOOMING ALGAE FROM DELAWARE
124. Morrison, B. A.; Touchette, B. W.; Niedziela, L. M.; Boyko, A. L.: THE EFFECTIVENESS OF A NOVEL ALGAEICIDE (SODIUM PERCARBONATE) ON THE TOXIC CYANOBACTERIUM, MICROCYSTIS AERUGINOSA.
125. Joyner, J. J.; Burns, J. W.; Paerl, H. W.: MOLECULAR TECHNIQUES APPLIED TO ENVIRONMENTAL SAMPLES OF THE FRESHWATER NITROGEN-FIXING CYANOBACTERIUM, LYNGBYA WOLLEI
- CS37: Estuarine and Near-Shore Processes  
Chair(s): James D. Hagy, hagdjm@epa.gov  
Location: Exhibit Hall A
126. Vaudrey, J. M.; Kremer, J. N.: EVALUATION OF THE USE OF AUTOMATED UNATTENDED SONDES FOR DETERMINING ECOSYSTEM METABOLISM IN SHALLOW COASTAL EMBAYMENTS.
127. Swaney, D. P.; Howarth, R. W.; Marino, R. M.; Scavia, D.; Alber, M.; Boyer, E. W.: TOWARD A MODEL-BASED SYSTEM OF ESTUARINE CLASSIFICATION
128. Preston, B. L.: OBSERVED WINTER WARMING OF THE CHESAPEAKE BAY ESTUARY (1949-2002): IMPLICATIONS FOR ECOSYSTEM MANAGEMENT
129. Austin, J. A.; Atkinson, S.: THE DESIGN AND TESTING OF SMALL, LOW-COST GPS-TRACKED SURFACE DRIFTERS
130. Szymczak-Zyka, M.; Lowalewska, G.: PHYTOPLANKTON PIGMENTS IN THE WISLA ESTUARY
131. Reed, R. E.; Glasgow, H. B.; Burkholder, J. M.; Kinder, C. A.: LONG- AND SHORT-TIME-SCALE VARIABILITY IN WATER SURFACE ELEVATION IN THE NEUSE ESTUARY, NORTH CAROLINA, U.S.A
- CS42: Microbial Dynamics  
Chair(s): Eric C. Milbrandt, emilbran@sccf.org  
Location: Exhibit Hall A
132. Chigbu, P.; Gordon, S.; Strange, T. R.: FECAL COLIFORM BACTERIA DISAPPEARANCE RATES IN A NORTH-CENTRAL GULF OF MEXICO ESTUARY
133. Brofft, J.; Braxton, J.; Verity, P.; Frischer, M.: DYNAMICS AMONG NITRATE ASSIMILATORY REDUCTASE GENE (NASA) PHYLOTYPES DURING AN INDUCED PHAEOCYSTIS POUCHETII BLOOM.
134. Burbage, C. D.; Binder, B. J.: BEHAVIORAL FLEXIBILITY IN PREY SELECTION BY A HETEROTROPHIC NANOFLAGELLATE: PROCHLOROCOCCUS VERSUS SYNECHOCOCCUS
135. Molina, M.; Burke, R. A.; Molinero, J.: RESPONSE OF SEDIMENTARY MICROBIAL COMMUNITIES TO DIFFERENT LAND USE PRACTICES AFFECTING HEADWATER STREAMS IN GEORGIA
136. Hoch, M. P.; Bronk, D. A.; Ward, B. B.: RELATIVE AVAILABILITY OF CARBON, NITROGEN AND PHOSPHOROUS FOR BACTERIOPANKTON IN THE EASTERN TROPICAL NORTH PACIFIC ASSESSED BY AN ENZY-MATIC APPROACH
137. Baylor, V. D.; Walters, T. L.; Howard-Jones, M. H.; Verity, P. G.; Frischer, M. E.: BACTERIAL RESPONSE AT THE COMMUNITY AND INDIVIDUAL CELL LEVELS TO AN INDUCED BLOOM OF PHAEOCYSTIS POUCHETII
- Supplemental Posters  
Location: Exhibit Hall A
138. Witt, M. L.; Jickells, T. D.: ORGANIC COMPLEXATION OF COPPER IN RAINWATER
139. Zvalaren, S. D.; Willey, J. D.; Skrabal, S. A.; Kieber, R. J.: MERCURY SPECIATION IN THE ORGANIC RICH CAPE FEAR RIVER, NORTH CAROLINA, USA
140. Bradshaw, L. C.; Skrabal, S. A.; Kieber, R. J.; Willey, J. D.; Cahoon, L. B.: AMMONIUM IN THE CAPE FEAR RIVER ESTUARY: THE ROLE OF PARTICLE-WATER INTERACTIONS

(\*) represents Invited presentations



141. Burkitt, J. W.; Wootton, L. S.; Myatt, S.; VanWagner, C.:  
ILLUSTRATING DIFFERENCES IN IMPACT OF THE  
INVASIVE CAREX KOBOMUGI ON NATIVE SPECIES  
DIVERSITY AND RICHNESS IN PRISTINE VERSUS  
HUMAN-IMPACTED COASTAL DUNES
142. Mwabira-Simera, S. H.; Wilson, F.: INTEGRATION OF  
REMOTE SENSING (RS) AND GEOGRAPHICAL INFORMA-  
TION SYSTEM (GIS) FOR PLANNING MANAGEMENT OF  
ENVIRONMENTAL ECOSYSTEMS FOR SUSTAINABLE
- DEVELOPMENT
- Thursday, June 17, 2004
- SS06: Science for Wetland Policy

- Chair(s): R. Jan Stevenson, rjstev@msu.edu
- Location: Room 200
- 9:00 AM Meagher, J.: ABSTRACT TO FOLLOW
- 9:40 AM Vetter, D.: ABSTRACT TO FOLLOW
- 10:00 AM Wardrop, D. H.; Kentula, M. E.; Stevens, D.; Brooks, R. P.: A MULTI-LEVEL ASSESSMENT TECHNIQUE FOR APPLICATION TO STATEWIDE WETLAND MONITORING: TESTING THE PROTOCOL IN THE JUNIATA WATERSHED, PENNSYLVANIA, USA
- 10:40 AM Parker, A. K.: NUTRIENT CRITERIA FOR WETLANDS OF THE UNITED STATES
- 11:00 AM Lougheed, V. L., Stevenson, R. J., Parker, C. A., McIntosh, M. D.: DEFINING REFERENCE CONDITION IN WETLANDS: A COMPARISON OF APPROACHES USING MULTIPLE TAXONOMIC GROUPS
- 11:20 AM Detenbeck, N. E.; Jicha, T. M.; Elonen, C. M.; Anderson, L. E.; Taylor, D. L.: RESPONSE OF COASTAL RIVERINE WETLAND MICROBIAL AND VEGETATION COMMUNITIES TO NUTRIENT LOADING GRADIENTS: MINING SURVEY DATA FOR CRITERIA DEVELOPMENT
- 11:40 AM Miller, H. L.; Burd, A. B.: MECHANISTIC MODELS OF SEAGRASS PRODUCTION IN FLORIDA BAY
- 1:30 PM Mitsch, W. J., Day, J. W., Zi, Z., Lane, R. R.: NITRATE-NITROGEN RETENTION BY WETLANDS IN THE MISSISSIPPI RIVER BASIN
- 1:50 PM Craig, N. I.; Carter, K. S.; Gassman, N. J.: ASSESSING WATER QUALITY IN RECONSTRUCTED WETLANDS RECEIVING URBAN STORMWATER RUNOFF
- 2:10 PM Fennessy, S.: TRANSLATING AN ASSESSMENT OF WETLAND MITIGATION SUCCESS INTO PERFORMANCE STANDARDS
- 2:30 PM Hauer, F. R., Lorang, M. S., Stanford, J. A., Whited, D. C.: APPLICATION OF AIRBORNE HYPERSPECTRAL REMOTE SENSING FOR ASSESSING RIVER FLOODPLAIN PROCESSES AND HABITATS
- 2:50 PM Ainslie, W. B.: HYPOTHETICAL APPLICATIONS OF ALUS IN WETLAND MANAGEMENT WATER QUALITY STANDARDS AND SECTION 404: PARALLEL LINES OF CONVERGENCE
- 3:10 PM Stevenson, R. J.; Lougheed, V. L.; Parker, C. A.: DEVELOPMENT OF TIERED BIOCRITERIA TO PROTECT THE BEST WETLANDS AND IMPROVE THE IMPAIRED
- SS11: Cycling and Impact of Dissolved Organic Matter in Rivers, Lakes and Estuaries: Influence of Climate and Landscape
- Chair(s): Colin Stedmon, cst@dmu.dk  
Stiig Markager, ssm@dmu.dk  
Morten Søndergaard, msondergaard@zi.ku.dk
- Location: Room 203
- 9:00 AM Fujiwara/Kitao, F.; Aihara/Makoto, A.; Sakuma/Hidesuke, S.; Kumata/Hidetoshi, K.: DEVELOPMENT OF FLOW INJECTION SYSTEM FOR ESTIMATING PHOTO-INDUCED PRODUCTIVITY OF SUPEROXIDE ANION IN NATURAL WATERS
- 9:20 AM Markager, S.; Stedmon, C.: A CROSS SYSTEM ANALYSIS OF CARBON SPECIFIC ABSORPTION OF DOM
- 9:40 AM Kaushal, S. S.; Groffman, P. M.; Findlay, S.; Fischer, D. T.: LAND USE AND THE CHANGING REACTIVITY OF DISSOLVED ORGANIC MATTER EXPORTED FROM COASTAL WATERSHEDS
- 10:00 AM Stedmon, C. A.; Markager, S.: SIMILARITIES AND DIFFERENCES IN THE COMPOSITION OF DOM FROM FRESHWATER AND MARINE ENVIRONMENTS, IDENTIFIED BY FLUORESCENCE-PARAFAC ANALYSIS
- 10:40 AM Smith, E. M.; Benner, R.: PHOTOCHEMICAL TRANSFORMATIONS OF RIVERINE DISSOLVED ORGANIC MATTER: EFFECTS ON ESTUARINE BACTERIAL METABOLISM AND NUTRIENT DEMAND
- 11:00 AM Søndergaard, M.; Kragh, T.; Borch, N. H.: LONG TERM DECOMPOSITION OF DOC PRODUCED BY MARINE PLANKTON
- 11:20 AM Lehman, P. W.; Sevier, J.; Giulianotti, J.; Johnson, M.: SOURCES OF OXYGEN DEMAND IN THE LOWER SAN JOAQUIN RIVER, CALIFORNIA
- 11:40 AM Boyer, J. N.; Jaffe, R.; Dailey, S. K.; Maie, N.: BIOLOGICAL AVAILABILITY OF DISSOLVED ORGANIC NITROGEN ENTERING FLORIDA BAY FROM THE EVERGLADES AND FRINGING MANGROVES
- SS13: Recent Advances in Organic Phosphorus Investigations: Linking Landscapes
- Chair(s): Susan Newman, snewman@sfwmd.gov  
Robert Heath, rheath@kent.edu
- Location: Room 201
- 9:00 AM Wetzel, R. G.: ORGANIC PHOSPHORUS COMPOUNDS: MODULATORS OF PHOSPHORUS CYCLING AND FLUXES TO AND IN AQUATIC ECOSYSTEMS
- 9:40 AM Cooper, W. T.; Heerboth, M. S.; Milligan, L. M.; Salters, J. V.: SPECIATION OF ORGANIC PHOSPHORUS BY CAPILLARY ELECTROPHORESIS AND LIQUID CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION
- 10:00 AM Condon, L. M.; Newman, S.: THE PROS AND CONS OF ORGANIC PHOSPHORUS FRACTIONATION
- 10:40 AM Ingall, E.; Brandes, J.; Paterson, D.; Northrup, P.; Benitez-Nelson, C.: EXAMINATION OF MARINE ORGANIC MATTER USING X-RAY MICROSCOPY AND PHOSPHORUS X-RAY ABSORPTION NEAR EDGE STRUCTURE (P-XANES) SPECTROSCOPY
- 11:00 AM Liang, Y.; Blake, R. E.: NEW INSIGHTS INTO P CYCLING FROM OXYGEN ISOTOPE EFFECTS OF PHOSPHOENZYMES
- 11:20 AM Heath, R. I.; Hanson, D.: THE DUAL NATURE OF DISSOLVED ORGANIC PHOSPHORUS (DOP) COMPOUNDS: SOURCES OF P AND C TO BACTERIOPLANKTON ASSEMBLAGES IN FRESHWATER COMMUNITIES.
- 11:40 AM Sharma, K.; Inglett, P. W.; Reddy, K. R.; Ogram, A. V.: MICROSCOPIC EXAMINATION OF DISTRIBUTION OF AUTOTROPHIC AND PHOSPHATASE-PRODUCING BACTERIA IN PERIPHYTON FROM THE PHOSPHORUS LIMITED EVERGLADES ECOSYSTEM
- 1:30 PM Newman, S.; Penton, C. R.; Jacoby, M.; Gray, I.: INTEGRATING CARBON AND NITROGEN WITH ORGANIC PHOSPHORUS TURNOVER DURING LITTER DECOMPOSITION IN THE EVERGLADES
- 1:50 PM Turner, B. L.; Newman, S.; Newman, J.: SOIL PHOSPHORUS COMPOSITION ALONG NUTRIENT GRADIENTS IN A SUBTROPICAL WETLAND
- 1:50 PM Hill, J. E.; Elimelech, M.: MICROBIAL CYCLING OF

(\*) represents Invited presentations

- ORGANOPHOSPHORUS BY REDOX ZONE: CHESAPEAKE BAY EUTROPHICATION
- 2:30 PM Cade-Menun, B. J.; Paytan, A.: TEMPORAL TRENDS IN ORGANIC PHOSPHORUS FORMS IN SETTLING OCEAN PARTICULATE MATTER FROM MONTEREY BAY AND SANTA BARBARA BASIN, CALIFORNIA
- 2:50 PM Ortiz-Hernandez, M. C.; Camacho-Ibar, V. F.; Daessle-Heuser, L. W.: ORGANIC PARTICULATE PHOSPHORUS IN SEDIMENT CORES FROM A COASTAL LAGOON IN BAJA CALIFORNIA, MEXICO.
- 3:10 PM Haygarth, P. M.: ORGANIC PHOSPHORUS TRANSPORT THROUGH SOILS, STREAMS AND RIVER BASINS
- SS16: Permeable Sediments - Physics, Biology and Geochemistry
- Chair(s): Richard Jahnke, rick@skio.peachnet.edu
- Location: Room 100
- 9:00 AM Huettel, M. H.; Wild, C.; Kluefer, A.; Kremb, S. G.; Rasheed, M. Y.; Jørgensen, B. B.: THE ROLE OF PERMEABLE LAGOON SEDIMENTS IN THE CYCLING OF NUTRIENTS IN CORAL REEFS\*
- 9:40 AM de Beer, D.; Wenzhoefer, F.; Ferdelman, T.; Dubilier, N.; Huettel, M.; Boettcher, M.: TRANSPORT AND MINERALIZATION RATES IN SANDY INTERTIDAL SEDIMENTS
- 10:00 AM Biddanda, B. A.; Johengen, T. H.; Ruberg, S.; Rediske, R.; Kendall, S.; Meadows, G.; Coleman, D.: ECOLOGY OF A SUBMERGED SINKHOLE IN LAKE HURON: IS THERE EVIDENCE FOR CHEMOSYNTHESIS, AND CHEMOSYNTHESIS-BASED HETEROTROPHIC PRODUCTION?
- 10:40 AM Fulton, P.; Ruppel, C.; Schultz, G.; Bartlett, J.: PERMEABLE SUBMARSH PATHWAYS FOR FRESHWATER FLOW TO ESTUARIES: HYDROLOGIC, GEOPHYSICAL, AND GEOCHEMICAL CONTROLS
- 11:00 AM Swarzenski, P. W.; Martin, J.; Campbell, P. L.: GROUND-WATER-SURFACE WATER EXCHANGE IN TAMPA BAY: RESULTS FROM A GEOPHYSICAL AND GEOCHEMICAL SURVEY
- 11:20 AM Neuhuber, S. M.; Bristow, G.; Taillefert, M.: THE ROLE OF TIDAL FORCING ON BIOGEOCHEMICAL PROCESSES IN SALT MARSH SEDIMENTS\*
- 11:40 AM Berg, P.; Røy, H.: EDDY CORRELATION: AN EFFECTIVE TECHNIQUE FOR MEASURING OXYGEN UPTAKE IN PERMEABLE SEDIMENTS
- 1:30 PM Røy, H.; Berg, P.; Meyer, V.; Jørgensen, B. B.: EDDY CORRELATION & #8211; PRACTICAL ASPECTS AND REQUIREMENTS OF SENSORS
- 1:50 PM Fries, J. S.; Taghon, G. L.: INVESTIGATING LINKS BETWEEN FINE PARTICLE TRANSPORT AND MICROBIAL DYNAMICS IN THE NAVESINK RIVER ESTUARY, NJ, USA
- 2:10 PM Jahnke, R. A.; Richards, M. E.; Rao, A. M.; Jahnke, D. B.: NUTRIENT CYCLING AND RESPIRATION RATES IN THE PERMEABLE SEDIMENTS OF THE SOUTH ATLANTIC BIGHT CONTINENTAL SHELF
- 2:30 PM Rao, A. F.; Jahnke, R. A.: DENITRIFICATION IN PERMEABLE CONTINENTAL SHELF SEDIMENTS ON THE SOUTH ATLANTIC BIGHT
- 2:50 PM Darrow, B. P.; Walsh, J. J.: THE TOP MEETS THE BOTTOM
- SS18: Functional Differences in Zooplankton
- Chair(s): Ulrich Sommer, usommer@ifm.uni-kiel.de
- Location: Room 202
- 9:00 AM Sommer, F.: FUNCTIONAL DIFFERENCES OF MARINE AND FRESHWATER MESOZOOPLANKTON: THEIR IMPLICATIONS FOR PELAGIC FOOD WEBS\*
- 9:40 AM Acuña, J. L.: APPENDICULARIANS VS. COPEPODS: STRETCHING PARADIGMS TO THEIR LIMITS\*
- 10:00 AM Gismervik, I.: FUNCTIONAL DIFFERENCES WITHIN MARINE PELAGIC CILIATE AND COPEPOD COMMUNITIES\*
- 10:40 AM Sommer, U.; Stibor, H.: THE TROPHIC LEVEL OF MARINE COPEPODS INFLUENCED BY THE Si:N RATIO\*
- 11:00 AM Smith, A. N.; Dam, H. G.: TROPHIC CASCADES IN MARINE PLANKTON COMMUNITIES ACROSS GEOGRAPHICAL GRADIENTS IN BIOLOGICAL PRODUCTIVITY
- 11:20 AM Sluss, T. D.; Jack, J. D.: TEMPORAL AND SPATIAL HETEROGENEITY OF ZOOPLANKTON COMMUNITIES IN THE OHIO, KENTUCKY, AND WABASH RIVERS
- 11:40 AM Matthews, B.; Mazumder, A.: INTRAPOPULATION VARIATION OF D15N IS CORRELATED WITH SIZE IN DAPHNIA AND CHAOBORUS
- 12:00 PM Persson, J.; Vrede, T.: PUFA IN FRESHWATER CRUSTACEAN ZOOPLANKTON
- CS07: Phytoplankton
- Chair(s): Charles W. Boylen, boylec@rpi.edu
- Location: Room 204
- 9:00 AM Boylen, C. W.; Sutherland, J. W.; Winkler, D. A.; Charles, D. F.; Acker, F. W.; Bloomfield, J. A.; Quinn, S. O.; Nierzwicki-Bauer, S. A.: CHANGING NUTRIENT CHEMISTRIES IN ADIRONDACK LAKES PROMPT CHANGES IN PHYTOPLANKTON
- 9:20 AM M'Radamy, D.; Frenette, J. J.; Hamilton, P. B.: COMMUNITY STRUCTURE OF PHYTOPLANKTON AND MICROZOOPLANKTON IN LARGE FLUVIAL LAKE (LAKE ST. PIERRE): SPATIAL HETEROGENEITY AND WATER LEVEL
- 9:40 AM Maki, R. P.; Sharfstein, B.; East, T. L.; Rodusky, A. J.: PHYTOPLANKTON PHOTOSYNTHESIS-IRRADIANCE RELATIONSHIPS IN A LARGE, EUTROPHIC, SUBTROPICAL LAKE: THE INFLUENCE OF LAKE STAGE ON ECOLOGICAL HOMOGENEITY
- 10:00 AM Descy, J. P.; Sténuite, S.; Plisnier, P. D.; Cocquyt, C.; de Wever, A.; Vyverman, W.: RECENT DATA ON THE PHYTOPLANKTON ECOLOGY OF LAKE TANGANYIKA
- 10:40 AM Wang, Z.; Vaccari, D. A.; Levandowsky, M.: MULTIVARIATE POLYNOMIAL MODELING OF PHYTOPLANKTON IN THE LOWER HUDSON RIVER
- 11:00 AM MARANON, E.; CERMENO, P.; FERNANDEZ, E.; RODRIGUEZ, J.; ZABALA, L.: SIGNIFICANCE AND MECHANISMS OF PHOTOSYNTHETIC PRODUCTION OF DISSOLVED ORGANIC CARBON IN A COASTAL

(\*) represents Tutorial presentations

- EUTROPHIC ECOSYSTEM
- 11:20 AM Cermeño, P.; Maraño, E.; Rodríguez, J.; Fernández, E.: POSITIVE ALLOMETRY IN PHYTOPLANKTON BIOMASS-SPECIFIC PHOTOSYNTHESIS IN A COASTAL ECOSYSTEM
- 11:40 AM Wiltshire, K. H.; Manly, B. J.: THE EFFECT OF THE WARMING OF THE NORTH SEA ON THE SPRING PHYTOPLANKTON BLOOM
- 1:30 PM Floeder, S.; Burns, C. W.: FLUCTUATING LIGHT AND COMPETITION FOR NUTRIENTS IN PHYTOPLANKTON COMMUNITIES
- 1:50 PM Passarge, J.; Hol, S.; Escher, M.; Sigon, C.; Huisman, J.: COMPETITION FOR PHOSPHORUS AND LIGHT AMONG PHYTOPLANKTON SPECIES: EXPERIMENTAL TESTS OF COMPETITION THEORY
- 2:10 PM Pfeifer, E.; Diehl, S.: THE INFLUENCE OF MIXING DEPTH ON LIGHT, NUTRIENTS AND BIOMASS- COMPETITION EXPERIMENTS WITH MONORAPHIDIUM GRIFITII AND SYNECHOCYSTIS SPEC.
- 2:30 PM Reichwaldt, E. S.; Stibor, H.: INDIRECT TRAIT-MEDIATED TROPHIC CASCADE EFFECTS IN DAPHNIA - PHYTOPLANKTON INTERACTIONS
- 2:50 PM Lurling, M.; Arends, H.; Gagnani, A.; Scheffer, M.: INDUCED DEFENCE STABILISES A PREDATOR-PREY SYSTEM OF ROTIFERS AND GREEN ALGAE
- 3:10 PM Patten, B. C.; Whipple, S. J.; Verity, P. G.: LABORATORY OBSERVATIONS OF PHAEOCYSTIS POUCHETII (PRYMNESIOPHYCEAE) COLONIES: MEASUREMENT OF COLONY GROWTH AND EVIDENCE FOR COLONY DIVISION
- CS24: Environmental Ecotoxicology  
Chair(s): Carol L. Folt, carol.folt@dartmouth.edu  
Location: Room 203
- 1:30 PM Filipowicz, A. B.; Weinstein, J. E.; Sanger, D. M.: BIOACCUMULATION OF A PAH IN THE ESTUARINE OLIGOCHAETE, MONOPYLEPHORUS RUBRONIVEUS: POTENTIAL FOR TROPHIC TRANSFER.
- 1:50 PM Folt, C. L.; Shaw, J. R.; Dempsey, T. D.; Chen, C. Y.: LINKING ECOLOGICAL AND TOXICOLOGICAL RESPONSES TO MULTIPLE STRESSORS TO IDENTIFY A FRESHWATER SENTINEL SPECIES
- 2:10 PM Griscorn, S. B.; Senn, D. B.; Galvin, J. P.; Lewis, C. G.; Shine, J. P.: FREE METAL ION CONCENTRATIONS IN AN URBAN ESTUARY: TESTING A NEW EQUILIBRIUM SAMPLER AND COMPARING EQUILIBRIUM AND
- BIOKINETIC BIOAVAILABILITY MODELS
- 2:30 PM Mena, L.; Cepriano, L.; Denslow, N.; Schreiber, M.; McElroy, A. E.: ENDOCRINE DISRUPTION IN WINTER FLOUNDER LIVING IN A SEWAGE-IMPACTED ESTUARY
- 2:50 PM Stepanuskas, R.; Glenn, T. C.; Jagoe, C. H.; Tuckfield, R. C.; McArthur, J. V.: SELECTION FOR ANTIBIOTIC-RESISTANT BACTERIOPLANKTON BY EXPOSURE TO TOXIC METALS
- CS31: Physical Processes  
Chair(s): Chunyan Li, chunyan@skio.peachnet.edu  
Location: Room 205
- 9:00 AM Nelson, J. R.; Blanton, J. O.; Weisberg, R. H.; Liu, Y.; Seim, H. E.; Aretxabaleta, A.; Moore, T.; Li, C. Y.; Robertson, C. Y.; Tzeng, M.: THE SUMMER 2003
- 9:20 AM Aretxabaleta, A. L.; Nelson, J. R.; Werner, F. E.; Seim, H. E.; Blanton, B. O.; Blanton, J. O.; Li, C.; Moore, T.; Tzeng, M.: HYDROGRAPHIC ANOMALIES ON THE SOUTH ATLANTIC BIGHT SHELF DURING SPRING AND SUMMER OF 2003: COMPARISONS OF SHIP DATA WITH CLIMATOLOGY AND INITIAL MODEL RESULTS
- 9:40 AM Li, C. Y.; Blanton, J. O.: TIDAL FLUSHING OF THREE INLETS ALONG THE CENTRAL GEORGIA COAST
- 10:00 AM Li, C.: TIDAL PUMPING THROUGH TIDAL CREEKS OF WASSAW SOUND
- 10:40 AM Flite III, O. P.; Eidson, G. W.; Schindler, J. E.: A LIMNOLOGICAL APPROACH TO MEROMICTIC PIT LAKE DEVELOPMENT
- 11:00 AM Quiñones-Rivera, Z. J.; Wissel, B.; Justil, D.; Fry, B.: SEASONAL VARIABILITY OF OXYGEN STABLE ISOTOPES (18O) ACROSS THE GULF OF MEXICO'S HYPOXIC ZONE
- 11:20 AM Romero, J. R.; MacIntyre, S.; Kling, G. W.: PHYSICAL LIMNOLOGY OF NORTHERN LAKE VICTORIA, EAST AFRICA
- 11:40 AM Torres, R.; Goni, M. A.; Voulgaris, G.: RAINFALL-DRIVEN CYCLING OF INTERTIDAL ZONE SEDIMENT

(\*) represents Invited presentations



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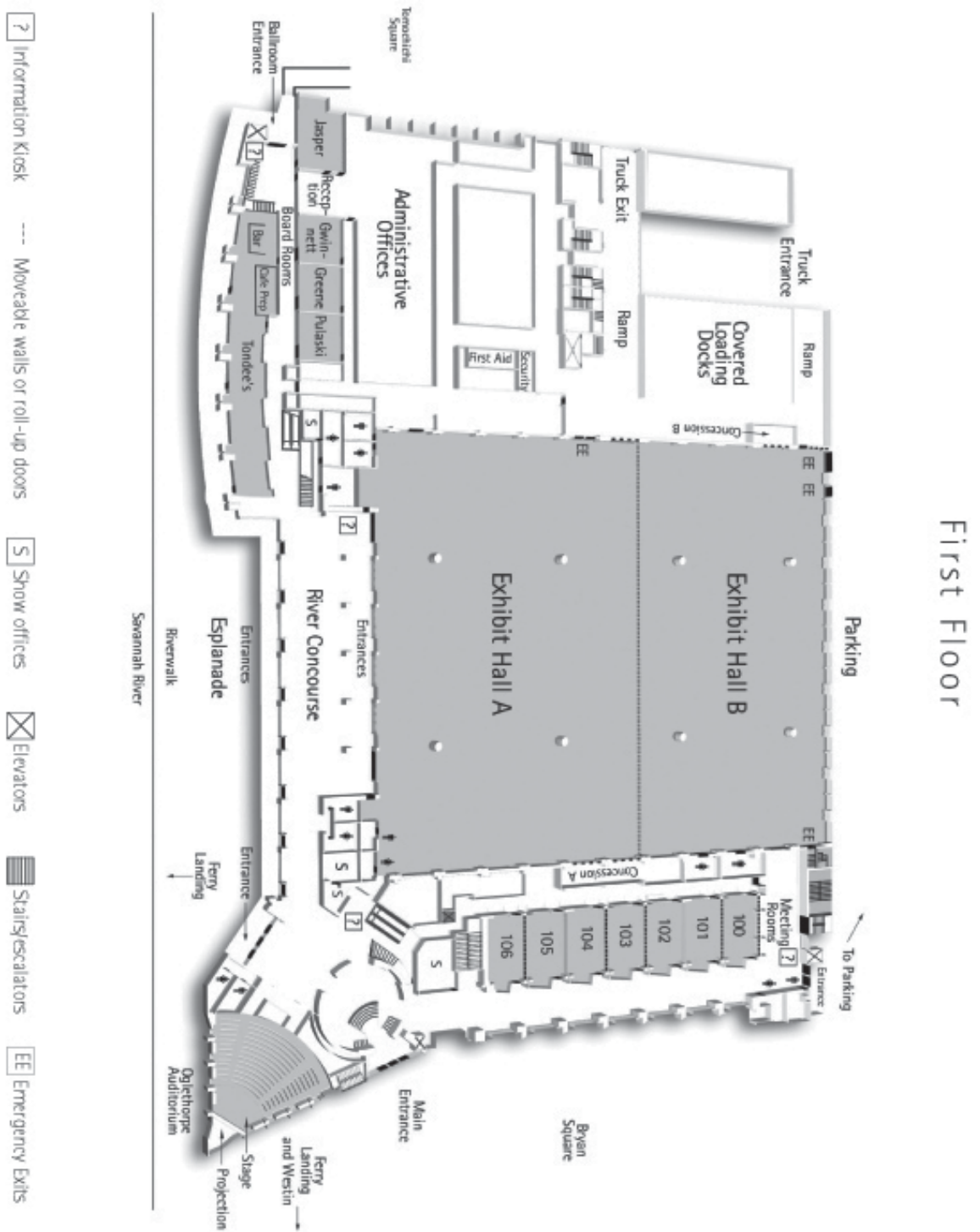
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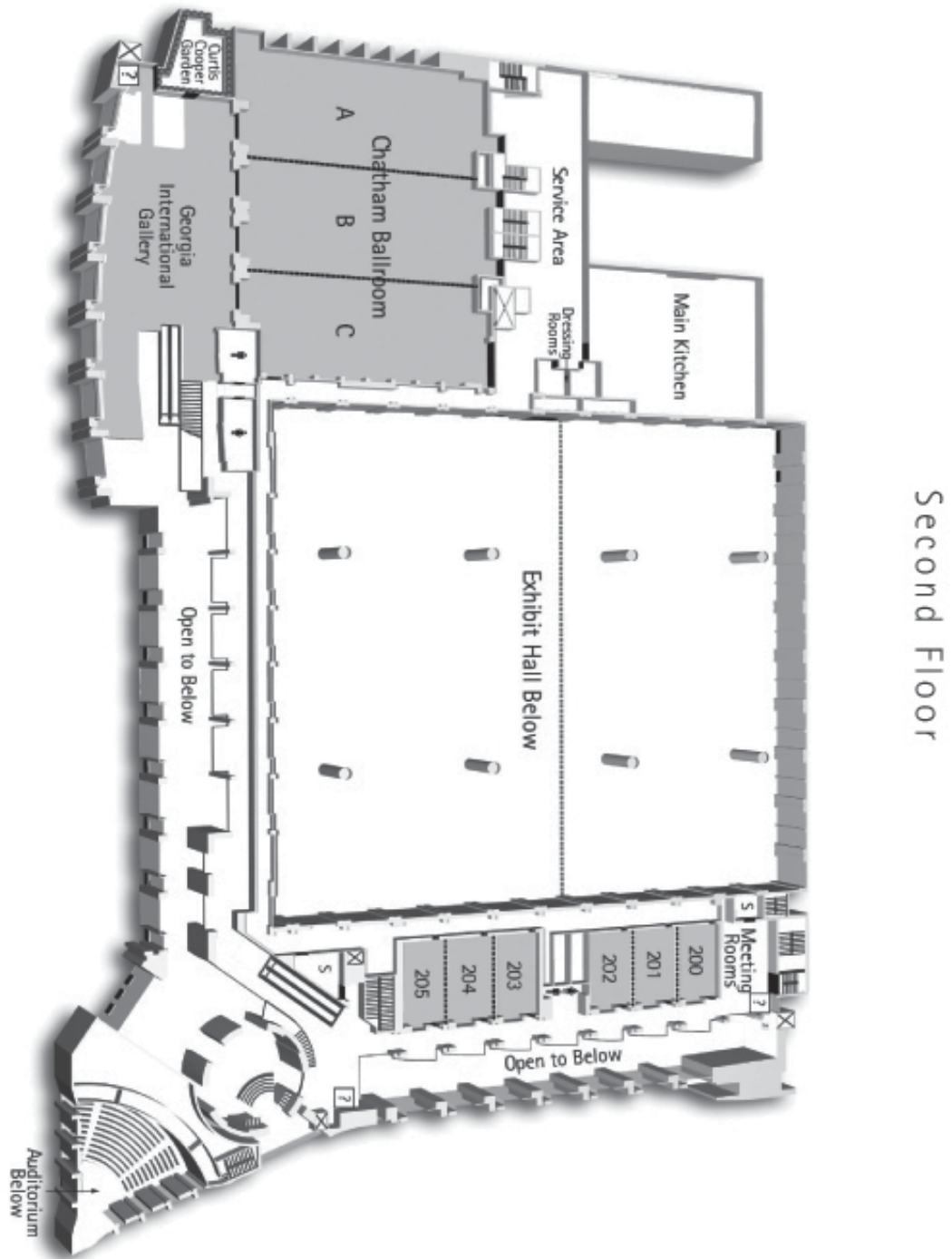
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### Savannah International Trade & Convention Center - First Floor



Savannah International Trade & Convention Center - Second Floor



Sunday, June 13, 2004

8 AM - 2 PM	Off-Site Field Trip - Tour of Savannah Coastal Env. & Marine Sci. Fac.	8 AM - 2 PM
1 - 9 PM	Speaker Ready Room - Room 102	1 - 9 PM
1 - 9 PM	Presentation Room - Room 101	1 - 9 PM
3 - 9 PM	Registration - Exhibit Hall A Lobby (River Concourse)	3 - 9 PM
5:30-6:30 PM	Presidential Address - Chatham Ballroom	5:30-6:30 PM
6:30-8:30 PM	Opening Welcome Mixer Reception - River Concourse Foyer	6:30-8:30 PM

All sessions are located at the Savannah International Trade &amp; Convention Center, unless otherwise noted.

Monday, June 14, 2004

7 AM - 5 PM	Registration - Exhibit Hall A Lobby (River Concourse)							7 AM - 5 PM
7 AM - 5 PM	E-Mail Room - Room 104							7 AM - 5 PM
7 AM - 5 PM	Wireless Areas - Tondees Café							7 AM - 5 PM
7 AM - 7 PM	Speaker Ready Room - Room 102							7 AM - 7 PM
7 AM - 7 PM	Presentation Room - Room 101							7 AM - 7 PM
8:00 - 9:00 AM	Complimentary Coffee Service - Chatham Ballroom Foyer							8:00 - 9:00 AM
9:00 - 10:40 AM	Conference Opening, Awards Presentations, and Introductions - Chatham Ballroom							9:00 - 10:40 AM
	Plenary Address - Chatham Ballroom							
	Dr. Wallace S. "Wally" Broecker, Newberry Professor of Earth and Environmental Sciences, Lamont-Doherty Earth Observatory <i>The Great Ocean Conveyor and the Angry Climate Beast</i>							
10:40 AM	BREAK							10:40 AM
	100	200	201	202	203	204	205	
Session	CS29	CS20	SS10	CS08	SS04	CS11		Session
Title	Emerging Technologies	Sediment-Water Interactions	Biogeochemical Cycles and Macroecology in Coastal Wetlands	Zooplankton	The Interacting Effects of Temperature & Resources on Composition, Structure & Function of Aquatic Biota	Trophic Dynamics	CURMLO	Title
11:00 AM	Barrios, A. T.	Anderson, J. T.	Morris, J. T.~	Kainz, M.	Pomeroy, L. R.~	Bretsch, K. P.		11:00 AM
11:20 AM	Buchanan, L. A.	Doe, S. G.	Morris, J. T.~	Lampert, W.	Pomeroy, L. R.~	Moncayo-Estrada, R.		11:20 AM
11:40 AM	Haberstroh, P. R.	Gardner, W. S.	Cornwell, J. C.	Anderson, T. R.	Hall, E. K.	Bledsoe, E. L.		11:40 AM
12:00 PM	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	Putland, J. N.	LUNCH	12:00 PM
12:00-1:30 PM	LUNCH							12:00-1:30 PM
12:00-1:15 PM	ASLO Student Meeting - Ballroom A							12:00-1:15 PM
1:30 PM	Henrich, V. C.	Caffrey, J. M.	Cook, P. M.	Acharya, K.	Koch, M. S.	Taylor, B. E.		1:30 PM
1:50 PM	Ruble, P. A.	Murray, M. M.	Gribsholt, B.	Johnson, C. R.	Blukacz, E. A.	Smalley, G. W.		1:50 PM
2:10 PM	Szela, T. L.	Kang, W. J.	Kostka, J. E.	Spaak, P.	Whitman, K. J.	Currin, C. A.		2:10 PM
2:30 PM	Wootton, L. S.	Thibodeaux, L. J.	Engelsen, A.	Hall, C. J.	Nedwell, D. B.*	Opsahl, S. P.		2:30 PM
2:50 PM	BREAK	Romigh, M. M.	Ding, H.	Mellard, J. P.		Stutes, J. P.		2:50 PM
3:00-5:00 PM	Poster Set-Up - Exhibit Hall A							3:00-5:00 PM
3:10-3:30 PM	BREAK							3:10-3:30 PM
	100	200	201	202	203	204	205	
Session	CS38	CS20 (con't.)	SS10 (con't.)	CS08 (con't.)	CS02	SS09		Session
Title	Modeling Approaches	Sediment-Water Interactions	Biogeochemical Cycles and Macroecology in Coastal Wetlands	Zooplankton	Benthos	Recovery of Shallow-Water Sediment Systems After Disturbance	CURMLO	Title
3:10 PM	Huang, H.	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	3:10 PM
3:30 PM	Davies, K. L.	Dai, J.	Koretsky, C. M.	Ajtai, P.	Corcoran, A. A.	Thrush, S.~		3:30 PM
3:50 PM	Haertel, P. T.	Murrell, M. C.	Neubauer, S. C.	Weithoff, G.	Banaszak, A. T.	Thrush, S.~		3:50 PM
4:10 PM	Hellweger, F. L.	Kamjunke, N.	Kristensen, E.		Aberle-Malzahn, N.	Whitlatch, R. B.		4:10 PM
4:30 PM	Khalili, A.	Cyr, H.	Carey, E. A.	Gilbert, J. J.	Hollebone, A. L.	Norkko, A.		4:30 PM
4:50 PM	Saidi, A.	Higgins, S. N.	Meile, C.	Walsh, E. J.	Rennie, M. D.	Valente, R. M.		4:50 PM
5:10 PM	Sharma, S.	De Lange, H. J.	Furukawa, Y.			no talk		5:10 PM
5:30-6:30 PM	ASLO Business Meeting - Room 100							5:30-6:30 PM

All sessions are located at the Savannah International Trade &amp; Convention Center, unless otherwise noted.

~ - Tutorial Speaker, \* - Invited Speaker

## Special Notes:

CS38 has 7 speakers, which means the break in Room 100 will be at 2:50 PM.

CS11 has 9 speakers and will carry over into lunch and resume on schedule.

Tuesday, June 15, 2004

7 AM - 5 PM	Registration - Exhibit Hall A Lobby (River Concourse)							7 AM - 5 PM
7 AM - 5 PM	E-Mail Room - Room 104							7 AM - 5 PM
7 AM - 5 PM	Wireless Areas - Tondees Café							7 AM - 5 PM
7 AM - 7 PM	Speaker Ready Room - Room 102							7 AM - 7 PM
7 AM - 7 PM	Presentation Room - Room 101							7 AM - 7 PM
8 AM - 5:30 PM	Poster Session & Exhibits - Exhibit Hall A							8 AM - 5:30 PM
	100	200	201	202	203	204	205	
Session	CS12	CS40	SS15	CS43	CS13	SS09 (con't.)	SS12	Session
Title	Watershed Ecology and Ecosystems	Biogeochemical Cycles - Process Level	Do Invertebrate Predators Have Leading Roles or Bit Parts in Plankton Communities?	Nutrient Dynamics	Wetlands Ecology	Recovery of Shallow-Water Sediment Systems After Disturbance	Reconstruction of Marginal Marine Environments Using the Sediment Record	Title
9:00 AM	Bumby, M. J.	Haas, J. R.	Hart, D. R.~	Brett, M. T.	Daoust, R. J.	Bell, S. S.*	Goldstein, S. T.~	9:00 AM
9:20 AM	Ensign, S. H.	Donkor, A. K.	Hart, D. R.~	Fulton, R. S.	Scott, J. T.	Fonseca, M. S.	Goldstein, S. T.~	9:20 AM
9:40 AM	Goldman, C. R.	Bonzongo, J. C.	Ramcharan, C. W.	O'Neill, L. P.	Ogbebo, F. E.	Fellows, K. A.	Alexander, C. R.*	9:40 AM
10:00 AM	Libes, S. M.	Gomez-Moreno, J. M.	Kolesar, S. E.	Keller, T. A.	Smith III, T. J.		Kendrick, T.	10:00 AM
10:20-10:40 AM	BREAK							10:20-10:40 AM
10:40 AM	Philips, E. J.	Engstrom, P.	Viitasalo, S.	Veiga Nascimento, R. A.	Biber, P. D.	Perissinotto, R.*	Hilbun, N. L.	10:40 AM
11:00 AM	Schelske, C. L.	Sigleo, A. C.	Boersma, M.	Yang, L. Y.	Hunter, A. E.	Underwood, G. J.	McQuoid, M. R.	11:00 AM
11:20 AM	Squires, M. M.	Jordan, T. E.	Viitasalo, M.	Sturner, R. W.	Burfeind, D. D.	Guarini, J. M.	Weckström, K.	11:20 AM
11:40 AM	Wurtsbaugh, W. A.	Poister, D.		Verburg, P.	Nanez-James, S. E.	Ni Longphuit, S.	Reuss, N.	11:40 AM
12:00-1:30 PM	LUNCH							12:00-1:30 PM
12:00-1:30 PM	Workshop: NSF - Update on Funding Opportunities for Biological Research							12:00-1:30 PM
	100	200	201	202	203	204	205	
Session	SS05	CS40 (con't.)	SS15 (con't.)	CS43 (con't.)	SS07	SS09 (con't.)	SS02	Session
Title	The Educational Value of Coastal Ocean Observing Systems	Biogeochemical Cycles - Process Level	Do Invertebrate Predators Have Leading Roles or Bit Parts in Plankton Communities?	Nutrient Dynamics	New Methods in Microzooplankton Ecology	Recovery of Shallow-Water Sediment Systems After Disturbance	Indicators of Environmental Condition and Change Along The Freshwater-Marine Continuum	Title
1:30 PM	Rosenfield, J. M.~	Cole, J. J.	Yan, N. D.*	Wissel, B.	Gallager, S. M.~	Hayes, A. R.	Carrick, H. J.	1:30 PM
1:50 PM	Rosenfield, J. M.~	Müller-Solger, A. B.	Foster, S. E.	Doyle, R. D.	Gallager, S. M.~	Hanlon, A. R.	YIN/Kedong, Y. K.	1:50 PM
2:10 PM	Murray, L.	Yoshimura, C.	Pichlova, R.	McCutchan, Jr., J. H.	Frischer, M. E.*	Dunsmuir-Stutes, A. L.	Puchniak, M. K.	2:10 PM
2:30 PM	Sautter, L. R.	Maie, N.	Branstrator, D. K.	Linares, F.	McManus, G. B.	Piebler, M. F.	Ginn, B. K.	2:30 PM
2:50 PM	Windsor, J. G.	Hamill, B. J.	Saunders, P. A.	Mulholland, M. R.	Arnold, W. S.	Larson, F. M.	Anderson, M. R.	2:50 PM
3:10 PM			Riessen, H. P.	Mason, B. M.	Gast, R. J.	Sundback, K.	Montoya, J. P.	3:10 PM
3:30-5:30 PM	Poster Session, Exhibits & Reception - Exhibit Hall A							3:30-5:30 PM

All sessions are located at the Savannah International Trade & Convention Center, unless otherwise noted.

~ - Tutorial Speaker, \* - Invited Speaker

POSTER SESSIONS	SS02	SS09	CS08	CS12	CS20	CS38	CS43	POSTER SESSIONS
	1. Montgomery, M. T.	13. Reid, N. J.	23. Lopez, C. L.	37. Kelley, C. A.	50. Howell, K. A.	61. Whipple, S. J.	73. Winnike-McMillan	
	2. Peeler, K. A.		24. Verity, P. G.	38. Medley, K. A.	51. Slaby, E. F.	62. Hilbert, K.	74. McCarthy, M. J.	
	3. Chumacero, M.		25. Houser, L. T.	39. Havel, J. E.	52. Stringer, C. E.	63. Janicki, A.	75. Luyet, M. P.	
	4. Marshall, H. L.	SS12	26. Lombard, F.	40. Arvola, L.	53. Cherry, J. S.		76. Nielsen, O. I.	
	5. Hladik, C. M.	14. Vaalgamaa, S.	27. Young, J. D.	41. Helms, B. S.	54. Campbell, P. L.		77. Perez-Rodriguez	
	6. Robertson, C. Y.	15. Pride, C. J.	28. Richmond, C. E.	42. Maloney, K. O.	55. Haberstroh, P. R.		78. Usry, B. P.	
	7. Giguere, M. J.	16. Conley, D. J.	29. Youn, S. H.	43. Runck, C.	56. Ithier-Guzman, W.	CS40	79. White, W. R.	
	8. Connelly, W. J.		30. Elliott, D. T.			64. Abell, J.		
	9. Characklis, G. W.		31. Costas, B. A.			65. Aké-Castillo, J. A.		
	10. Waggener, A. L.	CS02	32. Long, J. D.	CS13	CS29	66. Callahan, J.		
	11. Shirenko, L. A.	17. Shostell, J. M.		44. Hutchens, J. J.	57. Edgington, D. R.	67. Torres, I. C.		
	12. Gallo, T. E.	18. Curran, M. C.	CS11	45. Hoskins, D. L.	58. Hood, J. M.	68. Hayes, M. K.		
		19. Beseres, J. J.	33. Doi, H.	46. Tiling, G.	59. Ivanikova, N. V.	69. Devereux, R.		
		20. Bower, D. M.	34. Marin, S. L.	47. Graham, S. A.	60. Suto, Y.	70. Ransom, B. L.		
		21. Lee, W. J.	35. Smith, J. S.	48. Touchette, B. W.		71. Inglett, P. W.		
		22. Chaplin-Ebanks, S.	36. Goedkoop, W.	49. Dismukes, J. S.		72. Osborne, T. Z.		



Wednesday, June 16, 2004

7 AM - 5 PM	Registration - Exhibit Hall A Lobby (River Concourse)							7 AM - 5 PM
7 AM - 5 PM	E-Mail Room - Room 104							7 AM - 5 PM
7 AM - 5 PM	Wireless Areas - Tondees Café							7 AM - 5 PM
7 AM - 7 PM	Speaker Ready Room - Room 102							7 AM - 7 PM
7 AM - 7 PM	Presentation Room - Room 101							7 AM - 7 PM
8 AM - 5:30 PM	Poster Session & Exhibits - Exhibit Hall A							8 AM - 5:30 PM
	100	200	201	202	203	204	205	
Session	SS19	CS42	SS03	SS14	SS11	SS08	SS02 (con't.)	Session
Title	Gelatinous Zooplankton	Microbial Dynamics	The State of Wetland Science	Making Connections in Marine Science Research and Guided Inquiry: Undergraduate, Pre-College, and Teacher Programs	Cycling and Impact of Dissolved Organic Matter in Rivers, Lakes and Estuaries: Influence of Climate and Landscape	Coastal Development: Connecting Research with Practical Application in Local Communities	Indicators of Environmental Condition and Change Along The Freshwater-Marine Continuum	Title
9:00 AM	Purcell, J. E.*	Howard, M. H.	Richardson, J.	Capello, H. E.	Vincent, W. F.*	Walker, S. P.	Dillon, K. S.	9:00 AM
9:20 AM	Purcell, J. E.*	Binder, B. J.	Patrick, W. H.	Goehring, L.*	Vincent, W. F.*	Lewitus, A. J.	Cai, W.	9:20 AM
9:40 AM	Breitburg, D. L.	Eldridge, M. L.	Crumpton, W. G.	Keener-Chavis, P.	Bade, D. L.	Bejarano, A. C.	Kemp, P. F.	9:40 AM
10:00 AM	Higgins III, J. E.	De Wever, A.	Rasmussen, T. C.	McDonnell, J. D.	Sobek, S.	DeLorenzo, M. E.	Paerl, H. W.	10:00 AM
10:20-10:40 AM	BREAK							10:20-10:40 AM
10:40 AM	Rakow, K. C.	Milbrandt, E. C.	Ogram, A. V.	Nielsen, D. C.	Urban, N. R.	Ma, H. B.	Pinckney, J. L.	10:40 AM
11:00 AM	Morris, A. K.	Peierls, B. L.	Hagerthey, S. E.	Sancho, G.	Di Lonardo, S. S.	Sanger, D. M.	Millie, D. F.	11:00 AM
11:20 AM	Condon, R. H.	Tranvik, L. J.	Craft, C. B.	Valle-Levinson, A.	Anderson, N. J.	Delano, P.	Rowe, E. A.	11:20 AM
11:40 AM	Moss, A. G.	Jacquet, S.	Reddy, K. R.	Young, R. F.*	Reche, I.	Lauritsen, D. D.	Heil, C. A.	11:40 AM
12:00 PM	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	Mazumder, A.	LUNCH	12:00 PM
12:00-1:30 PM	LUNCH							12:00-1:30 PM
	100	200	201	202	203	204	205	
Session	SS19 (con't.)	CS42 (con't.)	SS03 (con't.)	CS25	SS11 (con't.)	CS37	SS02 (con't.)	Session
Title	Gelatinous Zooplankton	Microbial Dynamics	The State of Wetland Science	Harmful Algal Blooms	Cycling and Impact of Dissolved Organic Matter in Rivers, Lakes and Estuaries: Influence of Climate and Landscape	Estuarine and Near-Shore Processes	Indicators of Environmental Condition and Change Along The Freshwater-Marine Continuum	Title
1:30 PM	Bayha, K. M.	Ochs, C. A.	Sklar, F. H.	Bradt, S. R.	Mladenov, N.	Elifantz, H.	Muyllaert, K.	1:30 PM
1:50 PM	Graham, W. M.	Lau, W. W.	Grunwald, S.	Glasgow, H. B.	Frenette, J. J.	Burkholder, J. M.	Cebrian, J.	1:50 PM
2:10 PM	Ortman, B. D.	Leech, D. M.	Hurt, G. W.	Lakeman, M. B.	Trudel, G.	Dobberfuhl, D. R.	Engelke, C. J.	2:10 PM
2:30 PM	Chiaverano, L. M.	Mille-Lindblom, C.	Rudnick, D. T.	Minor, E. C.	Martin, C.	Pigg, R. J.	Pirhalla, D. E.	2:30 PM
2:50 PM			Scott, D. E.		Barnard, C.	Jonsson, B. F.	Krupica, K. L.	2:50 PM
3:10 PM			Crisman, T. L.		Cabaniss, S. E.	Hagy, J. D.	Davies, S. B.	3:10 PM
3:30-5:30 PM	Poster Session, Exhibits & Reception - Exhibit Hall A							3:30-5:30 PM
6:30-9:30 PM	Riverboat Cruise and Dinner (Optional)							6:30-9:30 PM

All sessions are located at the Savannah International Trade & Convention Center, unless otherwise noted.

\* - Tutorial Speaker, \* - Invited Speaker

Special Notes:

SS08 has 9 speakers for the morning session and will go into lunch

POSTER SESSIONS	SS06	SS13	CS01	CS07	CS24	CS37	SUPPLEMENTAL	POSTER SESSIONS
	80. Chimney, M. J.	86. Heighton, L.	89. LeCleir, G. R.	100. Filstrup, C. T.	113. Viret, H.	126. Vaudrey, J. M.	138. Witt, M. L.	
			90. Hristov, R.	101. Boyko, A. L.	114. Bothwell, M. L.	127. Swaney, D. P.	139. Zvalaren, S. D.	
	SS08	SS14	91. Foy, T. F.	102. Matsumoto, Y.	115. Robertson, M. J.	128. Preston, B. L.	140. Bradshaw, L. C.	
	81. Perry, W. W.	87. Wason, C. J.	92. Williams, S. C.	103. Kawakami, H.	116. Alexander, J. L.	129. Austin, J. A.	141. Burkitt, J. W.	
	82. Mallin, M. A.	88. Keel, A. A.	93. Lin, X.	104. Rocha, A. M.	117. Sastre, M. P.	130. Szymczak-Zyka	142. Mwabira-Simera	
			94. Smith, A. R.	105. Örnólfsson, E.		131. Reed, R. E.		
	SS11		95. Christian, B. W.	106. Iriarte, J. L.	CS25			
	83. von Wachenfeldt		96. Hoostal, M. J.	107. Canion, A. K.	118. Pascual, D. L.	CS42		
	84. Litz, L. P.				119. Berg, B. A.	132. Chigbu, P.		
	85. Kelly, S. P.		CS03	CS15	120. Firth, C. A.	133. Brofft, J.		
			97. Fullerton, S.	108. Pawlik, J.	121. Frommlet, J. C.	134. Burbage, C. D.		
		98. Snively, N. S.	109. Avellan, C. T.	122. Mathews, T.	135. Molina, M.			
		99. Rogers, J. E.	110. LOUDA, J. W.	123. Madden, M. L.	136. Hoch, M. P.			
			111. Hough, R. A.	124. Morrison, B. A.	137. Baylor, V. D.			
			112. Montante, J. M.	125. Joyner, J. J.				

Thursday, June 17, 2004

7 AM - 5 PM	Registration - Exhibit Hall A Lobby (River Concourse)							7 AM - 5 PM
7 AM - 5 PM	E-Mail Room - Room 104							7 AM - 5 PM
7 AM - 5 PM	Wireless Areas - Tondees Café							7 AM - 5 PM
7 AM - 3:30 PM	Speaker Ready Room - Room 102							7 AM - 3:30 PM
7 AM - 3:30 PM	Presentation Room - Room 101							7 AM - 3:30 PM
8 AM - 3:30 PM	Poster Session & Exhibits - Exhibit Hall A							8 AM - 3:30 PM
	100	200	201	202	203	204	205	
Session	SS16	SS06	SS13	SS18	SS11 (con't.)	CS07	CS31	Session
Title	Permeable Sediments - Physics, Biology and Geochemistry	Science for Wetland Policy	Recent Advances in Organic Phosphorus Investigations: Linking Landscapes	Functional Differences in Zooplankton	Cycling and Impact of Dissolved Organic Matter in Rivers, Lakes and Estuaries: Influence of Climate and Landscape	Phytoplankton	Physical Processes	Title
9:00 AM	Huettel, M. H.~	Meagher, J.~	Wetzel, R. G.~	Sommer, F.~	Fujiwara/Kitao, F.	Boylen, C. W.	Nelson, J. R.	9:00 AM
9:20 AM	Huettel, M. H.~	Meagher, J.~	Wetzel, R. G.~	Sommer, F.~	Markager, S.	M'Radamy, D.	Aretxabaleta, A. L.	9:20 AM
9:40 AM	de Beer, D.	Vetter, D.	Cooper, W. T.	Acuña, J. L.*	Kaushal, S. S.	Maki, R. P.	Li, C. Y.	9:40 AM
10:00 AM	Biddanda, B. A.	Wardrop, D. H.	Condon, L. M.	Gismervik, I.*	Stedmon, C. A.	Descy, J. P.	Li, C.	10:00 AM
10:20-10:40 AM	BREAK							10:20-10:40 AM
10:40 AM	Ruppel, C.	Parker, A. K.	Ingall, E.	Sommer, U.*	Smith, E. M.	Wang, Z.	Flite III, O. P.	10:40 AM
11:00 AM	Swarzenski, P. W.	Lougheed, V. L.	Liang, Y.	Smith, A. N.	Søndergaard, M.	Maranon, E.	Quiñones-Rivera, Z. J.	11:00 AM
11:20 AM	Taillefert, M.*	Detenbeck, N. E.	Heath, R. T.	Sluss, T. D.	Lehman, P. W.	Cermeño, P.	Romero, J. R.	11:20 AM
11:40 AM	Berg, P.	Miller, H. L.	Sharma, K.	Matthews, B.	Boyer, J. N.	Wiltshire,, K. H.	Torres, R.	11:40 AM
	LUNCH	LUNCH	LUNCH		LUNCH	LUNCH	LUNCH	
12:00-1:30 PM	LUNCH							12:00-1:30 PM
	100	200	201	202	203	204	205	
Session	SS16 (con't.)	SS06 (con't.)	SS13 (con't.)		CS24	CS07 (con't.)		Session
Title	Permeable Sediments - Physics, Biology and Geochemistry	Science for Wetland Policy	Recent Advances in Organic Phosphorus Investigations: Linking Landscapes		Environmental Ecotoxicology	Phytoplankton		Title
1:30 PM	Røy, H.	Mitsch, W. J.	Newman, S.		Filipowicz, A. B.	Floeder, S.		1:30 PM
1:50 PM	Fries, J. S.	Craig, N. I.	Turner, B. L.		Folt, C. L.	Passarge, J.		1:50 PM
2:10 PM	Jahnke, R. A.	Fennessy, s.	Hill, J. E.		Griscom, S. B.	Pfeifer, E.		2:10 PM
2:30 PM	Rao, A. F.	Hauer, F. R.	Cade-Menun, B. J.		Mena, L.	Reichwaldt, E. S.		2:30 PM
2:50 PM	Darrow, B. P.	Ainslie, W. B.	Ortiz-Hernandez, M. C.		Stepanaukas, R.	Lurling, M.		2:50 PM
3:10 PM		Stevenson, R. J.	Haygarth, P. M.			Patten, B. C.		3:10 PM
3:30 - 5:30 PM	Poster and Exhibit Tear-Down							3:30 - 5:30 PM

All session are located at the Savannah International Trade & Convention Center, unless otherwise noted.

~ - Tutorial Speaker, \* - Invited Speaker

Special Note:

SS18 has 9 speakers for the morning session and will go into lunch



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If you are unable to register electronically on the web at <http://www.aslo.org/savannah2004>, please mail completed registration form and payment to: ASLO, 5400 Bosque Boulevard, Suite 680, Waco, Texas 76710-4446, USA. Registrations complete with purchase order or credit card information that are not accompanying an abstract submission can be faxed to: (254) 776-3767.

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