Program Addendum
Current as of 11/1/13. For updated information, please see the online schedule and itinerary planner at cerf2013.abstractcentral.com/itin.jsp or visit the conference app at cerf2013a.sched.org.

Added Keynote Address!

Dr. Kathryn Sullivan assumed the role of Acting Under Secretary of Commerce for Oceans and Atmosphere and Acting NOAA Administrator on February 28, 2013, where she had been serving as Assistant Secretary of Commerce for Environmental Observation and Prediction and Deputy Administrator for the National Oceanic and Atmospheric Administration, as well as performing the duties of NOAA's Chief Scientist, a vacant position. She is a distinguished scientist, renowned astronaut and intrepid explorer.

As assistant secretary, Dr. Sullivan played a central role in directing Administration and NOAA priority work in the areas of weather and water services, climate science and services, integrated mapping services and Earth-observing capabilities. She provided agency-wide direction with regard to satellites, space weather, water, and ocean observations and forecasts to best serve American communities and businesses. As Deputy Administrator, she oversaw the smooth operation of the agency.

Dr. Sullivan’s impressive expertise spans the frontiers of space and sea. An accomplished oceanographer, she was appointed NOAA’s chief scientist in 1993, where she oversaw a research and technology portfolio that included fisheries biology, climate change, satellite instrumentation and marine biodiversity.

Dr. Sullivan was the inaugural director of the Battelle Center for Mathematics and Science Education Policy in the John Glenn School of Public Affairs at Ohio State University. Prior to joining Ohio State, she served a decade as President and CEO of the Center of Science and Industry (COSI) in Columbus, Ohio, one of the nation's leading science museums. Dr. Sullivan joined COSI after three years’ service as Chief Scientist.

Dr. Sullivan was one of the first six women selected to join the NASA astronaut corps in 1978 and holds the distinction of being the first American woman to walk in space. She flew on three shuttle missions during her 15-year tenure, including the mission that deployed the Hubble Space Telescope. Dr. Sullivan has also served on the National Science Board (2004-2010) and as an oceanographer in the U.S. Navy Reserve (1988-2006). She holds a bachelor's degree in earth sciences from the University of California at Santa Cruz and a doctorate in geology from Dalhousie University in Canada.

Workshops

Special Meetings & Events
- Sea Level Rise Plenary – now Tuesday 11:00-12:15. Town & Country.
- Ignite Session: The Power of Observations –
  - Convened by Jan Newton, UW and NANOOS, Josie Quintrell, IOOS Association, and Jennie Lyons, U.S. IOOS.
  - Jen Read, GLOS will present It’s Kind of Eerie: HABs and Hypoxia in place of Frank Kundra, GLOS.
  - Dwayne Porter, University of South Carolina Baruch Marine Lab and NERRS will present Gathering Alligators, Taking Observations, Revealing Statistics (GATORS).
Session Chairs

- Session SCI-033 (Wednesday 8:00-10:00) will be chaired by Linda Deegan and Jimmy Nelson.
- Session SCI-074 (Tuesday 3:30-5:00) will be chaired by Robert Christian.
- Session SCI-075F (Monday 8:00–10:00) will be chaired by Alex Port.
- Session SCI-077B (Tuesday 3:30-5:00) will be chaired by Laura Brown.

Oral Presentations

MONDAY 8:00-10:00 AM

- (Extended) SCI-047A. 8:00-8:30. Coastal hypoxia and ocean acidification as coupled ecosystem stressors: A view from the left coast. Francis Chan, John Barth, Kate Adams.
- (Added) SCI-075F. 8:00. Using simple models to understand estuarine macroalgal blooms. Alex Port, Karin Bryan, Conrad Pilditch, Kai Bischof, David Hamilton.
  Replaces: Rising seas and fish habitat. Thomas Bigford.

MONDAY 1:30-3:00 PM

  Replaces: How much of local scale variation in phytoplankton biomass can be explained by progressively larger scale variation? Catharina Philippart, James Cloern, Sirpa Lehtinen, Abigail McQuatters-Gollop, Todd O'Brien, Monika Winder.
- (Withdrawn) SCI-066B. 2:30. Incorporating science and adaptive management to facilitate sustainable barrier island restoration practices in Mississippi, USA. Gregory Steyer, Mark Byrnes, Elizabeth Godsey, Michelle Meyers, Steven Underwood, Caree Kovacevich.

MONDAY 3:30-5:00 PM


Replaces: How to parameterize estuarine mixing? **W. Rockwell Geyer**.


**TUESDAY 8:00-10:00**

- **Session Time Change:** Session SCI-014A will start at 8:30.
- (Withdrawn) SCI-007. 8:00. New Haven's West River: three restoration projects on a unique urban waterway make one city more resilient. **Gwen Macdonald**.
- (Withdrawn) SCI-14A. 8:00. Integrating CO₂ and nutrient-driven changes across entire seagrass ecosystems: from plant stoichiometry to ecosystem carbon sink. Begoña Martínez-Crego, **Irene Olivé**, Pedro Arteaga, Rui Santos.
- (Added) SCI-014A. 9:45. Ocean acidification impacts on survival, size, and condition of early life stages of winter flounder, *Pseudopleuronectes americanus*. Allison Candelmo, Chris Chambers, Ehren Habeck, Daniel Weiczorek, Beth Phelan, Elaine Caldarone, Carrie Greenfield, Keith Cooper, **Matthew Poach**.

Replaces: Beyond the blade: soils in disturbed and restored subtropical seagrass meadows. **Amanda Bourque**, James Fourqurean.

- (Replacement) SCI-044. 8:30. Substrate selection preferences by planulae of the Pacific sea nettle, *Chrysaora fuscescens*. **Keats Conley**, Kelly Sutherland.

Replaces: Design for flooding: Towards social-ecological systems. **Kees Lokman**.

- (Replacement) SCI-044. 9:00. **Discussion.** Replaces: Conservation actions along interior rivers of the United States - Contributions to the recovery of a Federally listed bird species. **Richard Fischer**, Casey Lott, Paul Hartfield.

- (Replacement) SCI-047B. 8:00. Patterns of declining oxygen content along the southern California coast. **J. Ashley Booth**, C. Brock Woodson, Fiorezza Micheli, Steve Weisberg, Martha Sutula, Steven Bograd, Alex Steele, Julia Schoen.

Replaces: Time-series observations for hypoxia adjacent to the Changjiang estuary during summer. **Xiaobo Ni**, Daji Huang, Dingyong Zeng, Feng Zhou, Kui Wang, Jianfang Chen.


**TUESDAY 1:30-3:00**

- (Withdrawn) SCI-029. 4:00. Measuring changes in total phytoplankton-sized particle volume over time as a proxy for primary production in Narragansett Bay, RI. **Christopher Melrose**, Jason Krumholz, Conor McManus.


TUESDAY 3:30-5:00

- (Time Change) SCI-005C. 4:00 (was 3:30). Development of multi-scale, multi-state application of a physics-based distributed hydrologic model in the Chesapeake Bay watershed. Gopal Bhatt, Xuan Yu, Chris Duffy, Lorne Leonard, Mukesh Kumar.


- (Added) SCI-041C. 4:00. The effects of hardened shorelines on SAV in the Chesapeake and Maryland Coastal Bays. Landry, J. Brooke; Golden, Rebecca; Karrh, Lee; Lewandowski, Mark.


- (Added) SCI-054. 4:45. Q&A.


WEDNESDAY 8:00-10:00

- Session Time Change: Session SCI-076C will start at 8:30.

- (Added) SCI-005D. 8:45. Terrestrial nutrient loads and fluxes to the Southern California Bight (USA). Ashmita Sengupta, Martha Sutula, Karen McLaughlin, Meredith Howard, Ted VonBitner, Arne Anselm.


- (Added) SCI-005D. 9:45. Discussion/Q&A.

- (Replacement) SCI-010. 8:45. 21st century mega-trends and the unsustainability of coastal cities. John Day, Matthew Moerschbaecher, David Pimentel, Charles Hall, Alejandro Yáñez-Arancibia.

- (Replacement) SCI-041D. 8:00. Introduction. Replaces: Synergistic effects of altered salinity and temperature on eelgrass (Zostera marina) seedlings and adult plants. Tiina Salo, Morten Pedersen.


- (Replacement) SCI-046. 9:15. Effects of hyposalinity on photosynthesis, respiration, and ion concentration on the seagrass Halodule wrightii Aschers. (shoal grass) in a microcosm study. Joseph Kowalski, Hudson DeYoe, Paul Zimba, Kirk Cammarata, Jason Parsons.

- (Withdrawn) SCI-052A. 8:30. Water quality in our Great Lakes National Parks: What we have learned in partnership with the US EPA. **Eva DiDonato**, William Hobbs, Brenda Lafrancois.
- (Replacement) SCI-052A. 9:30. System-wide Assessment and Monitoring Program (SWAMP). **Ann Hijuelos**.

**WEDNESDAY 1:30-3:00**

- (Added) SCI-020. 2:00. Measuring carbon dioxide parameters for ocean acidification observing systems: how good is good enough? **Andrew Dickson**.
- (Time Change) SCI-039A. 2:30. General, idealized models for integrating effects of bivalve grazing with physical habitat attributes to better understand phytoplankton dynamics and inform ecosystem management. **Lisa Lucas**, Janet Thompson.
- (Added) SCI-039A. 2:45. Q&A.
- (Replacement) SCI-052B. 1:30. Addressing Ocean Acidification: EPA Action. **Brian Rappoli**.
  Replaces: Development of a national-scale fish tissue contaminant indicator for the National Coastal Condition Assessment. **Linda Harwell**, Laura Hunt, Marcus Bowersox, Joseph Bohr, Elizabeth Murphy.
- (Replacement) SCI-061B. 2:45. **Discussion**. Replaces: The use of aquaculture to enhance the *Limulus polyphemus* population in Delaware Bay. **Brenda Landau**, David Jones, Mark Botton, Chester Zarnoch.

**WEDNESDAY 3:30-5:00**

- (Withdrawn) SCI-064H. 3:45. Multiannual variability of sedimentation on mudflats in a macrotidal estuary (Seine, France). **Antoine Cuvilliez**, Robert Lafite, Julien Deloffre, Nicolas Massei.
- (Withdrawn) SCI-064H. 4:00. Interconnectivity of SAV habitat in Chesapeake Bay: Application of a particle-tracking model to predict the dispersal of *Zostera* reproductive shoots. **Dale Booth**, Evamaria Koch.

**THURSDAY 8:00-10:00**

(Extended) SCI-048B. 9:30-10:00. Long-term effects of climate changes on trophic organization of coastal systems. **Robert Livingston.**

(Replacement) SCI-068A. 8:45. **Discussion.** Replaces: Water flow and seagrass seed dispersal: comparing seed movement for species with different reproductive strategies. **Kelly Darnell, Kenneth Dunton.**

(Replacement) SCI-075J. 9:45. **Discussion.** Replaces: Improving seagrass mapping for use as a resource management tool in southwest Florida estuaries. **Kristen Kaufman.**

**THURSDAY 1:30-3:00**


(Withdrawn) SCI-040B. 2:45. Consequences of increased nutrient loading to marshes belowground. **R. Eugene Turner,** Edward Bodker, Christopher Swarzenski, Andrew Tweel, Christopher Schultz.

(Withdrawn) SCI-078B. 2:45. Sea level rise and the California Coastal Act: Preparing for the future. **Hilary Papendick,** Lesley Ewing, Susan Hansch.

**Poster Presentations**

**MONDAY**

(Withdrawn) SCI-001P. **Santell, Stephanie;** Crawford, Tiffany; Kaufman, Galen; Hagy, James; Oliver, Jacques; Decker, Ed. Advancing the science for developing numeric nutrient criteria for estuarine and coastal waters. (A1)

(Withdrawn) SCI-001P. **Alers-Garcia, Janice;** Greene, Richard; Hagy, James; Whitlock, Steve; Yuan, Lester. Approaches to ensure protection of downstream estuaries from nutrient pollution. (A3)

(Withdrawn) SCI-002P. **Browne, James;** Vanek, John; Personius, Casey. Differences among salt marsh ditch edges and peat strength when exposed to a spatial gradient in nitrogen concentration over an interval of decades. (A15)

(Withdrawn) SCI-007P. **Dolan, Tara;** Serafy, Joseph. Effect of season and scale on power to detect change in mangrove fish assemblages of a converted estuary. (A24)

(Change in Authorship) **Carlson, Emily;** Correigh Greene, Casimir Rice, Jeff Cordell, Jason Toft, Chris Ellings, and Eric Beamer. Comparing salmonid, benthic, and forage fish response to restoration and predicting composition of fish species at proposed restoration sites. (A25)

(Moved to Oral) SCI-036P. **Turner, Elizabeth;** Fitzpatrick, James. Scenario-based forecasts in support of regional coastal management. (B2)

(Withdrawn) SCI-042P. **Gwak, Woo Seok;** Park, Jun Su; An, Soon Mo. Importance of estuarine habitats for larval and juvenile fishes in Danhang bay, Korea. (C11)

(Moved to Oral) SCI-044P. **Conley, Keats;** Sutherland, Kelly. Substrate selection preferences by planulae of the Pacific sea nettle, *Chrysaora fuscescens.* (C22)

(Moved to Oral) SCI-047P. **Booth, J. Ashley;** Woodson, C. Brock; Micheli, Fiorenza; Weisberg, Steve; Sutula, Martha; Bograd, Steven; Steele, Alex; Schoen, Julia. Patterns of declining oxygen content along the southern California coast. (C25)

(Moved to Oral) SCI-064P. **Souza, Alejandro;** Burchard, Hans. A comparison on the prediction of tidal mixing fronts using the nondimensional Simpson and Hunter parameter and the Stokes number. (D12)

(Moved to Oral) SCI-064P. **Sanay, Rosario;** Perales-Valdivia, Héctor. Effect of temporal variations of river discharge and wind-stress on the position of salt wedge in a micro-tidal river mouth. (D45)
(Withdrawn) SCI-064P. **Anderson, Gordon**; Dijkwel, Jan; Lagomasino, David; Price, René; Rivera-Monroy, Victor; Smith, Thomas; Vlaar, Theo. Review of surface and groundwater dynamics from Land-Margin Ecosystem study (1996-2012), Everglades National Park, USA. (D43)

(Withdrawn) SCI-064P. **Miller-Corbett, Cynthia**; Simley, Jeffrey. Linear-referenced coastal geomorphology in the US Geological Survey National Hydrography Dataset. (D23)

(Withdrawn) SCI-064P. **Horwitz, Rachel**; O'Donnell, James. Model and observations of eastern Long Island Sound. (D44)

(Moved to Oral) SCI-064P. **Valle-Levinson, Arnoldo**; Schettini, Carlos; Truccolo, Eliane. Response of a subtropical stratified estuary to river pulses. (D44)

(Moved to Oral) SCI-075P1. **Port, Alex**; Bryan, Karin; Pilditch, Conrad; Bischof, Kai; Hamilton, David. Using simple models to understand estuarine macroalgae blooms. (E31)

(Moved to Oral) SCI-075P1. **Van Diggelen, Amanda**; Montagna, Paul. Is salinity variability a benthic disturbance? (F45)

(Withdrawn) SCI-075P1. Vander Woude, Andrea; **Mason, Doran**; Zhang, Hongyan; Stow, Craig; Adamack, Aaron; de Mutsert, Kim; Pierson, James; Brandt, Stephan; Roman, Michael. An Atlantis ecosystem-based approach to model effects of hypoxia on the food web of the northern Gulf of Mexico. (F44)

(Withdrawn) SCI-075P2. **Li, Hongliang**; Chen, Jianfang; Jin, Haiyan; Yu, Xiaoguo; Wang, Kui; Huang, Daji; Wang, Bin; Zhuang, Yanpei. Isotope constraints on particulate organic carbon source and biogeochemical process in the East China Sea. (F22)

(Withdrawn) SCI-075P2. Nascimento, Lorena; Salvador, Bianca; **Bersano, José**. Hydromedusae in the surf zone of a subtropical sandy beach (Pontal do Sul, Southern Brazil) (F33)

(Moved to Oral) SCI-075P3. **Buchbaum, Robert**; Clark, Wesley. Selection of estuarine feeding habitats by snowy and great egrets in the Plum Island Sound estuary, northeastern Massachusetts. (F4)

(Moved) SCI-075P3. **Ries, Thomas**; Bell, Susan. Lost River Preserve habitat restoration assessment: Vegetative and nekton sampling. (G2 F4)

(Added) SCI-075P4. **Danielson, Tess**; Carlson, Paul; Yarbro, Laura; Durnan, Brian; McHan, Chris; Carlson, Dan; Hu, Chuanmin; English, David; Herwitz, Stanley. Multiscale, multispectral measurement of seagrass and macroalgal biomass and health using aerial sensors. (G2)

**WEDNESDAY**

(Withdrawn) SCI_012P. **Stagg, Camille**; Sharp, Leigh Anne; McGinnis, Thomas; Snedden, Gregg. Submergence Vulnerability Index development and application to Coastwide Reference Monitoring System sites and Coastal Wetlands Planning, Protection and Restoration Act projects. (A17)

(Withdrawn) SCI-014P. **Salisbury, Joseph**; Vandemark, Douglas. Understanding processes controlling Omega at the UNH CO2 buoy site using a decade of high frequency observations. (A37)

(Withdrawn) SCI-021P. **Sutton, Hope**. Assessing effectiveness of management of a non-native predator in a coastal protected area in North Carolina. (B47)

(Withdrawn) SCI-021P. **Durand, John**. Presence of submerged aquatic weed *Egeria densa* as a function of water depth and flow. (B46)

(Withdrawn) SCI-023P. **Holzer, Kim**; Carney, Jenny; Minton, Mark; Miller, Whitman; Ruiz, Greg. A tale of three coasts: Temporal and spatial variation in ballast water management to reduce invasion risk. (B30)

(Moved to Oral) SCI-035P. **Marvan, Fernando**; Navarro-Olache, Luis; Flores-Vidal, Xavier; Ruiz de Alegria, Amaia; Gil-Silva, Eduardo; Espinoza-Lagunes, Carla. Short term morphodynamics of the Punta Banda coastal lagoon, Ensenada, Baja California. (C16)

(Withdrawn) SCI-038P. **Davis, Traci**; Reyes, Enrique; Christian, Robert; Ardon, Marcelo; Miller, Richard. Multiscale investigation of aboveground biomass response to agricultural density in coastal marshes. (C20)
(Withdrawn) SCI-046P. **Rice, Karen**; Hirsch, Robert; Bennett, Mark. Spatial and temporal trends in runoff at long-term stream gauges and implications for climate change effects in Chesapeake Bay watershed. (C37)

(Moved to Oral) SCI-046P. **Kowalski, Joseph**; DeYoe, Hudson; Zimba, Paul; Cammarata, Kirk; Parsons, Jason. Effects of hypersalinity on photosynthesis, respiration, and ion concentration on the seagrass *Halodule wrightii* Aschers. (shoal grass) in a microcosm study. (C40)

(Withdrawn) SCI-061P. Behera, Satyaranjan; Choudhury, Shri; **Bhadury, Punyasloke**. Population status of Horseshoe Crabs along the East Coast of India- a case study from Odisha. (D28)

(Withdrawn) SCI-068P. **He, Jianzhang**; Yin, Kedong. Effects of topography on the formation of low oxygen waters in Pearl River estuarine coastal waters. (E20)

(Added) SCI-070P. **Smith, Chris**; Bolnick, Daniel. Differentiation in gut microbiota among conspecific vertebrate populations explained by both host ecology and host genetics. (F50)

(Withdrawn) SCI-076P. **Tabatabai, Aboozar**; Wilkin, John. Evaluation of a biogeochemical model in Delaware Estuary. (F27)

(Added) SCI-077P. Zabin, Chela; **Kiriakopolos, Stephanie**; Obernolte, Rena; Abbott, Robert; Grosholz, Edwin. Variation in oyster performance between and within two restoration sites in San Francisco Bay. (H15)

(Withdrawn) SCI-077P. **Le Vay, Lewis**; Walton, Mark; Vilas, César; Prieto, Ana; Kennedy, Hilary; King, Jonathan; Medialdea, Miguel; Canavate, José Pedro. Can estuarine wetlands constructed for aquaculture production be designed to provide a wider range of ecosystem services? (G15)

(Withdrawn) SCI-078P. **Courtenay, Simon**. The Canadian Watershed Research Consortium: developing monitoring frameworks in support of cumulative effects assessment. (H18)

---

**Other Special Meetings & Events**

**Meeting: NOAA Northern Gulf of Mexico Living Resources Project**

Date & Time: Sunday, 3 November at 1:00 to 5:00 pm
Location: Dover

**Event: VIMS Alumni, Faculty & Student Reception**

Date & Time: Sunday, 3 November at 6:30 – 8:00 pm
Location: Dover

**Event: LSU School of the Coast & Environment Reception**

Date & Time: Tuesday, 5 November at 5:00 – 6:00 pm
Location: Dover

LSU School of the Coast and Environment will be hosting a get-together for current and former students, faculty and staff. Please stop by the LSU booth in the exhibit hall to pick up special party passes and pre-register for bayou-country prizes.

**Event: LTER Graduate Student Mixer**

Date & Time: Wednesday, 6 November at 6:00 - 7:00 pm
Location: Charlie's Bar at the Town and Country Resort & Conference Center

All graduate students and staff working at LTER sites are invited to attend this social event organized by the LTER Higher Ed Working Group and the LTER Graduate Student Committee. Please wear your Site shirt or hat! The first round of drinks and appetizers are sponsored by PIs from the Virginia Coast Reserve LTER.

Questions? Contact Alia Al-Haj at ana8f@virginia.edu.

---

**Exhibitors**

CE Elantech, Inc. (Booth #34)
170 Oberlin Avenue North, Suite 5, Lakewood, NJ 08701-4548
Contact: Richard Hancock
Phone: 732-370-5559 Fax: 732-370-3888
Email: rick@ceelantech.com Website: www.ceelantech.com/