

CERF's Up!

Vol. 45.3



**A new wave
of information from
the Coastal and Estuarine
Research Federation**



Student Spotlight Nicholas Coleman.

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See you in Mobile!

A Message from the President



Hilary Neckles

CERF 2019 is right around the corner! During the conference week I will end my time as CERF President. As I reflect on being in CERF leadership, being a long-time CERF member, and CERF's decades of service to its members, I am reminded of how important this organization is both to coastal and estuarine science and to me personally.

Our biennial conference is where individuals, information, and inspiration meet. This year's conference follows a year marked by record-high summer temperatures in the northern and southern hemispheres, with accompanying surges in nearshore water temperatures and consequences that have rippled throughout estuarine and coastal ecosystems around the globe. The CERF conference is an opportunity to hear the latest science surrounding these and other challenges in the coastal zone, learn new skills, and most importantly, connect with colleagues and friends both old and new. The conference theme of Responsive | Relevant | Ready highlights the interaction of natural and social sciences to address complex coastal problems. Huge thanks to conference co-chairs Leila Hamdan and David Yoskowitz and their amazing conference team for the week of insights, enrichment, and fun that awaits us in Mobile.

This past summer also marked another record, the 50th anniversary of the first humans to set foot on the

Moon. The media surrounding this anniversary included recollections of many people around the world who could still remember where they were that day and their sense of awe and global fellowship at that moment in history. Their stories reminded me of the way people can instantly summon memories of their first CERF conference—whether it was a few years or a few decades ago, that first CERF experience left an indelible mark. For conference-goers who are returning to CERF, welcome back, and to new attendees, know that memories are in the making!

Like many CERF conference participants, I attended my first CERF conference as a student. Our gatherings provide rich opportunities for students and early professionals to explore career paths, broaden and deepen experiences, develop professional networks, and form lifelong, supportive friendships. I have vivid recollections from one of my earlier conferences of the late Margaret Davidson, for whom CERF's Margaret A. Davidson Coastal Stewardship Award is named, advising those of us starting out, "Don't be risk averse!" Those words rang in my ears and influenced my decisions at various junctures over the ensuing years. I urge students and early professionals to take full advantage of the many conference offerings geared toward your career stage—you too will likely hear words to live by.



It has been such a pleasure and a privilege to serve as CERF President during the past two years. The energy, passion, and commitment of our Governing Board, Executive Director Susan Park, headquarters staff, multitude of volunteers, and members toward our collective vision is truly outstanding: I thank you all. Our strength as a Federation lies in our members. It is through your good work that we advance understanding and improve management and stewardship of coastal and estuarine systems, and the need has never been greater. I look forward to working with the next Governing Board toward CERF's strategic goals. Until then I can't wait to see and meet as many of you as possible in Mobile.

A handwritten signature in black ink that reads "Hilary Neckles".

CERF submits amici curiae brief to Supreme Court on groundwater case



CERF, in collaboration with four scientists and seven other scientific societies, has submitted an amici curiae brief in the Supreme Court case “County of Maui v. Hawai’i Wildlife Fund, Sierra Club – Maui Group, Surfrider Foundation, and West Maui Preservation Association.” The case addresses whether the Clean Water Act requires a permit for the discharge of pollutants when the pollutants travel through groundwater from a point source to navigable waters. Specifically, the County of Maui argues that a permit is not required when wastewater is

injected into wells because there is no direct discharge into navigable waters. Several environmental groups have sued the County, arguing that injection wells are a point source given that the wells are connected to the ocean via groundwater. The brief presents the science of groundwater hydrology and argues for the use of science in considering surface water-groundwater connections. The case will come before the Supreme Court in November 2019.

Read the [full brief¹](#) on the CERF website.

CERF’s Up! Seeks Co-Editor

CERF seeks a volunteer co-editor to help shepherd the production of the quarterly CERF’s Up! newsletter. The co-editor will work to conceive and solicit article ideas, follow up with interested authors, provide input on drafts, and provide thought leadership on the future direction of the newsletter. This is a great opportunity for an early career professional with interest in science communication. If you’re interested, or for more information, e-mail [Susan Park²](#).



Thank you!

Thank you to our first *CERF’s Up!* Editor, Jason Howard, for his tremendous work on *CERF’s Up!* Under his leadership, the newsletter has expanded to more interesting and relevant content for our members. We are deeply grateful for his time and efforts to advance this important CERF publication.

CERF Launches SAV Community of Practice

Building on successful workshops held at the biennial CERF conferences, CERF is excited to announce the launch of our first online [Community of Practice³](#): the [Submersed Aquatic Vegetation⁴ Mapping/Monitoring Community of Practice⁵](#) (SAV CoP). Communities of Practice (CoP) are groups of people with a shared interest that interact regularly to learn from each other, share ideas,

and advance the state of knowledge about a particular topic. A CoP offers a forum for individual, professional, and agenda development around the topic of interest. The SAV CoP is a forum for sharing information and supporting seagrass mapping and monitoring efforts. The SAV CoP is organized around a shared Google space which allows access to documents, a calendar, an online forum,

and email list where members can dialogue with others.

For more information about the SAV CoP or to join, contact the SAV steering committee at savcommunityofpractice@gmail.com.

If you would like to start your own Community of Practice, contact info@cerf.science.

¹ <http://bit.ly/2KPmQZL> ² spark@cerf.science ³ <https://cerf.memberclicks.net/communities-of-practice>

⁴ <https://cerf.memberclicks.net/sav-mapping-monitoring-cop> ⁵ <https://cerf.memberclicks.net/sav-mapping-monitoring-cop>

Riding the Wave to CERF 2019



Conference Social Event: GulfQuest Museum

The 25th CERF Biennial Conference **Social Event** is a must-attend event held at the beautiful waterfront **GulfQuest Museum**¹ on Tuesday, 5 November, 7:00 – 10:00 PM

Ticket Pricing

Regular:	\$45
Student:	\$20
Guest:	\$45

Each ticket includes delicious Southern-style heavy hors d'oeuvres (vegan and vegetarian options provided), access to all museum exhibits, and a drink ticket. The event will feature a large dance floor and local band. Additional drink purchases can be made at one of several cash bars. The

museum contains more than 90 interactive exhibits, simulators, displays, and theaters (www.gulfquest.org).

Outdoor rooftop access overlooks the Mobile River and provides an excellent location to unwind after a long conference day. Biodegradable products will ensure an environmentally conscious great time!

Join your friends and fellow CERFers for a fun-filled night at one of Mobile's most impressive museums.

Please sign up to attend this social event while registering online for the 25th CERF Biennial Conference!

Cultural Heritage & Coastal Humanities

The Cultural Heritage & Coastal Humanities theme explores cultural values and stewardship roles of coastal communities. It will highlight the unique position of people who depend on coastal resources, and live and work in areas of high risk. Our communities can be helped with science-based solutions and management options that can respond to emerging and existing challenges, build resiliency, and be relevant to lives and livelihoods.

This cross-cutting theme is intended to fully engage multiple disciplines in research and management and place a human dimension front-and-center through exploring the risk and impacts of change to coastal communities, heritage, and economies. The Gulf of Mexico and CERF community at large have a wealth of diverse heritage that taps into this theme.

The theme will be infused throughout the conference, including:

A **presentation**² about the discovery of the slave schooner Clotilda.

A **Town Hall**³ on coastal fisheries with a panel of experts from different fisheries sectors.

A **social event**⁴ at the GulfQuest rich with local flavor, including local foods and a local band.

Field trips⁵ offering opportunities to experience the culture, history, and incredible natural resources found in Mobile, Alabama, and nearby communities on the Gulf of Mexico Coast.

UPCOMING DEADLINES

Advance Registration Closes: 6 Oct.

Registration Closes: 14 Oct.



¹ <http://www.gulfquest.org/> ² <https://www.cerf.science/cerf-2019--the-slave-schooner-clotilda--hidden-but-not-forgotten>

³ <https://www.cerf.science/coastal-fisheries-town-hall> ⁴ <https://www.cerf.science/conference-social-event>

⁵ <https://www.cerf.science/cerf-2019-field-trips>

The Slave Schooner Clotilda: Hidden but Not Forgotten

In 1860, the Mobile-built schooner Clotilda entered the Mobile River with 109 enslaved persons on the last known voyage of a slave ship to bring people into the United States in violation of laws banning the slave trade (but not slavery itself). It was then burned and sunk, but never were the ship and what had happened forgotten. The June 2019 announcement of the discovery and identification of the wreck off Mobile's Twelvemile Island has again focused attention on the story of the schooner. It also focused on the people brought to Alabama on Clotilda, and of Africatown, now part of Mobile, home to descendants of

some of the schooner's unwilling captives who when freedom came, established the community in the aftermath of the Civil War. The wreck lies in a graveyard of ships that were purposely scuttled or abandoned in a backwater of the Mobile River. This is the story of the research, science, and forensic archaeology used to identify the wreck of Clotilda, a nationally significant archaeological site now protected by the Alabama Historical Commission for the people of Alabama.

Learn more about Dr. James Delgado's [presentation](#)¹.

Lightning Talks

We are excited that the lightning talk format is back for CERF 2019! Lightning talks follow a standard format that encourages short, engaging presentations that focus on the key points of the research. Each talk consists of 20 slides that auto-advance every 15 seconds, for a total of five minutes. This style of presentation was introduced in past CERF conferences, and some of our regional Affiliate Societies have also successfully incorporated the format into their meetings. These talks have been highly effective in distilling and communicating the key results and conclusions of varied scientific studies. The best talks emphasize why the study was done, along with results and conclusions, with less time spent on methods.

[Learn more](#)² about Lightning Talks.

Social Media "Social CERFing" Policy

Please Read Before You Tweet (Or Facebook, blog, Instagram, LinkedIn, etc.)

To balance the needs and expectations of conference presenters with the benefits of open sharing and discussion, we have prepared a best practice guideline for using social media during the conference.

We encourage all conference attendees to openly discuss our conference on social media. You can live Tweet, post to Facebook, or even blog about the presentations. Please use the meeting hashtag #CERF2019 to increase engagement. We also encourage our attendees to follow and tag us on Twitter (@CERF-

Science), Facebook (@CERFScience), and Instagram (@CERFScience), and to use these outlets to send us questions, ideas, or general thoughts—we'll follow you back!

Photography, video and audio recording of scientific content from oral and poster sessions, plenaries, and keynotes are not allowed unless you receive permission from the authors/presenters. Some authors/presenters wish to withhold audio/visual material from being recorded and/or posted on social media.

We encourage the use of photos and video, but please restrict it to non-scientific content such as social events, in the Exhibit Hall, and in public spaces throughout the meeting.

Please follow our overall meeting code of conduct and be considerate and respectful of all meeting attendees. Online harassment, intimidation, or discrimination in any form will not be tolerated.

¹ <https://www.cerf.science/the-slave-schooner-clotilda-hidden-but-not-forgotten>

² https://www.cerf.science/index.php?option=com_content&view=article&id=1492:cerf-2019-lightning-talks&catid=35:cerf-2019-conference&Itemid=555

A close-up photograph of a person's legs wearing blue jeans and bright yellow rubber boots. The boots are standing on a rocky stream bed. The water is dark and reflects the surrounding environment.

Get Your Boots Wet

Find and post jobs with the **CERF Job Board**

www.cerf.science/job-board

CERF Ambassador Program

“Ambassador” is defined as a representative or envoy with the duty to represent the organization and to provide excellent customer service, thus creating an exceptional experience to all guests. The CERF Ambassador Program will do just that—ensure all members and attendees at CERF have a great meeting experience.

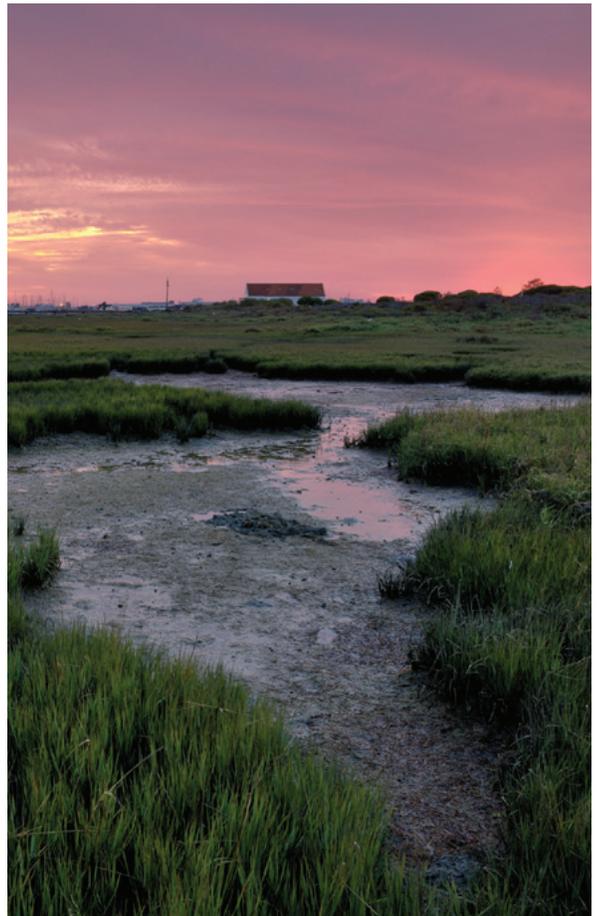
Whether this meeting is your first or 15th CERF conference, there are times when attendees feel alone and/or unsure (e.g. there is the person whose papers you have already read and admired, but you are hesitant to just walk up and introduce yourself). Or you are just ending one appointment and want to ask someone who has similar interests how they found the next great job.

The CERF Ambassador Program is meant to make these moments easier—with the goal to increase engagement among members and conference attendees, selected CERF members at all career stages will be available throughout the conference to chat informally. We expect CERF Ambassadors to play an active role in meeting first time attendees as well as early career and student attendees.

Ambassadors will help make the conference a place of mutual respect where the focus is on learning and collaboration.

[Learn More!](#)

¹ <https://www.cerf.science/2019-ambassador-program>



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Q&A with CERF 2019 Conference Co-Chair Leila Hamdan



What are you looking forward to this year at the conference?

“Do you remember that CERF when...?” I look forward to the special moments that happen only at CERF conferences with my colleagues and friends that mark time and inflections in my career. A conversation at a poster session might provide a jolt of energy to my research; an impromptu meeting could stoke a collaboration; a session might engineer a new connection that I look back on years later, and know how it brought me to the place I am now. For CERF 2019, I look forward to the first evening most. It starts with the First Timer Orientation, where we get to tell all of our new members what an exciting ride they are in for. We then move on to the Sci-

entific Awards where we get to enjoy in the success and good work our members have done. Finally, I can't wait for the Keynote Address by Jack Davis to start, with a hush falling over the audience as we settle into a story about nature, society, and science converging in the Gulf of Mexico.

What has been your favorite part of the planning process this year?

The CERF 2019 team has poured so much time and creative energy into developing an incredible conference. Working with this team as they sort through every detail has been a privilege. We have shared many laughs, some good meals, and countless great ideas. I get to support CERF's mission by working on my main conference—how cool is that?

What advice would you offer to first-time attendees?

At my first CERF conference in 1999, I was so quiet and shy, I hardly spoke to anyone outside of my own lab. If I could do that again, I would talk to more people, go to at least one ses-

sion on a topic that I know nothing about, and be confident in my ability to contribute to science. If someone looks like they want to chat, dive in and chat them up. Attend the CERF business meeting, and see what the Federation is all about. While you are there, come say hello to me!

Why, in your opinion, is this conference so important for the scientific community?

This conference is community. It is where we gather, create and explore ideas together. We come back to CERF only once every two years ready to tackle science challenges we know, spot ones on the horizon, and begin to work across disciplines to discover solutions. CERF conferences are unlike any others because of the welcoming philosophy of the Federation. At CERF 2019, scientists across all generations will join together in what we know and wish to know. These conferences set a course between our past and our future.





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Schedule-at-a-Glance

3 Nov. | Sunday

TIME	EVENT
7:00 AM – 6:00 PM	Conference Registration
Various	Field Trips
Various	Workshops
11:00 AM – 12:00 PM	Student Worker Orientation and Training
1:00 PM – 6:00 PM	Registration Opens
4:00 PM – 5:30 PM	CERF 2019 VIP Reception (By Invitation)
5:00 PM – 5:45 PM	First Timer Orientation
6:00 PM – 8:00 PM	Keynote Address and Scientific Awards
8:00 PM – 10:00 PM	Silent Auction Opens
8:00 PM – 10:00 PM	President's Welcome Reception

4 Nov. | Monday

6:00 AM – 5:00 PM	Conference Registration
6:15 AM – 7:15 AM	CERFers on the Run
6:30 AM – 8:00 AM	Mentorship Program Breakfast (By Invitation)
8:00 AM – 4:30 PM	Tours of R/V Point Sur
8:00 AM – 9:30 AM	Early Morning Sessions (Session 1)
9:30 AM – 10:00 AM	Break
10:00 AM – 11:30 AM	Late Morning Sessions (Session 2)
11:30 AM – 1:00 PM	Lunch
11:30 AM – 1:00 PM	Coastal Fisheries Town Hall: Threats, Challenges and Solutions for Coastal Fisheries Sustainability in a Changing World
1:00 PM – 2:30 PM	Early Afternoon Sessions (Session 3)
2:30 PM – 3:00 PM	Break
3:00 PM – 4:30 PM	Plenary: Environmental Decision Making
4:30 PM – 7:00 PM	Poster Sessions/Happy Hour
7:00 PM – 9:00 PM	Student Career Networking Event
7:30 PM – 8:30 PM	Special Presentation: The Slave Schooner Clotilda: Hidden but Not Forgotten
9:00 PM – Midnight	Student "On the Town" Night

5 Nov. | Tuesday

6:15 AM – 7:15 AM	CERFers on the Run
6:30 AM – 5:00 PM	Conference Registration
7:00 AM – 8:00 AM	Past CERF Presidents' Breakfast (By Invitation)
8:00 AM – 9:30 AM	Early Morning Sessions (Session 4)
9:30 AM – 10:00 AM	Break
10:00 AM – 11:30 AM	Late Morning Sessions (Session 5)
11:30 AM – 1:00 PM	Lunch
11:30 AM – 1:00 PM	CERF Inclusion Lunch (Ticketed Event)
1:00 PM – 2:30 PM	Early Afternoon Sessions (Session 6)

Schedule-at-a-Glance

5 Nov. | Tuesday *continued*

TIME	EVENT
2:30 PM – 3:00 PM	Break
3:00 PM – 4:30 PM	Late Afternoon Sessions (Session 7)
4:30 PM – 5:30 PM	Annual CERF Business Meeting
5:30 PM – 6:30 PM	Affiliate Society Meetings
7:00 PM – 10:00 PM	Social Event

Notice of Annual Business Meeting

CERF will hold its Annual Membership & Business Meeting on Tuesday, 5 November, 2019 from 4:30 – 5:30 PM at the Mobile Convention Center. All members are invited and encouraged to attend.

6 Nov. | Wednesday

6:15 AM – 7:15 AM	CERFers on the Run
6:30 AM – 7:00 PM	Conference Registration
7:00 AM – 8:00 AM	CESN Team Meeting/Breakfast (By Invitation)
8:00 AM – 9:30 AM	Early Morning Sessions (Session 8)
9:30 AM – 10:00 AM	Break
10:00 AM – 11:30 AM	Late Morning Sessions (Session 9)
11:30 AM – 1:00 PM	Lunch
11:30 AM – 1:00 PM	Estuaries and Coasts Board Meeting/Lunch (By Invitation)
1:00 PM – 2:30 PM	Early Afternoon Sessions (Session 10)
2:30 PM – 3:00 PM	Break
3:00 PM – 4:30 PM	Plenary: Coastal Science Outreach
4:30 PM – 7:00 PM	Poster Sessions/Happy Hour
5:30 PM – 6:30 PM	Close of Silent Auction
7:00 PM – 10:00 PM	Film Festival
7:00 PM – 9:00 PM	Reunions

7 Nov. | Thursday

6:15 AM – 7:15 AM	CERFers on the Run
6:30 AM – 4:30 PM	Conference Registration
7:00 AM – 8:00 AM	CERF 2021 Committee Breakfast (By Invitation)
8:00 AM – 9:30 AM	Early Morning Sessions (Session 11)
9:30 AM – 10:00 AM	Break
10:00 AM – 11:30 AM	Late Morning Sessions (Session 12)
11:30 AM – 1:00 PM	Lunch
11:30 AM – 1:00 PM	Estuaries and Coasts Town Hall: Misuse of P-values and why Estuaries an Coasts discourages the phrase “statistically significant.”
1:00 PM – 2:30 PM	Early Afternoon Sessions (Session 13)
2:30 PM – 3:00 PM	Break
3:00 PM – 4:30 PM	Late Afternoon Sessions (Session 14)
4:30 PM – 5:30 PM	CERF 2019 Committee Reception
5:30 PM – 8:30 PM	Close-Out Party and Student Awards Presentation

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David Yoskowitz, Harte Research Institute, Texas A&M University, Corpus Christi

Attendee Experience Committee Co-Chairs

Ruth Carmichael, Dauphin Island Sea Lab
Frank Hernandez, University of Southern Mississippi

Family Friendly

Dottie Byron, Dauphin Island Sea Lab

CERF Ambassadors Program

Kristy Lewis, University of Central Florida
Christine Whitcraft, California State University, Long Beach

CERF Inclusion Luncheon

Treda Grayson, Environmental Protection Agency
Danielle Kreeger, Partnership for the Delaware Estuary
Tina Miller-Way, Dauphin Island Sea Lab

CERF Social Event

Joy Bartholomew, CERF Executive Director Emeritus
Stephanie Smallegan, University of South Alabama
Rachel Mugge, University of Southern Mississippi

Conference Art

Janet Nestlerode, Environmental Protection Agency

Field Trips

Elizabeth Hieb, Dauphin Island Sea Lab
Kim Cressman, Grand Bay National Estuarine Research Reserve
Crystal Hightower, Dauphin Island Sea Lab
Sandra Huynh, Grand Bay National Estuarine Research Reserve
Jason Kudulis, Mobile Bay National Estuary Program

Informal Running Group

Kayla DaCosta, Dauphin Island Sea Lab
Jim Hagy, Environmental Protection Agency
Haley Nicholson, Dauphin Island Sea Lab

Mentoring Program

Sibel Bargu Ates, Louisiana State University
Linda Blum, University of Virginia

Silent Auction

Beth Darrow, University of North Carolina-Wilmington
Pat Reilly, The Reilly Group

Social Media

Julian Damashek, University of Georgia

Student Career Networking Dinner

Geoff Cook, University of Central Florida
Geno Olmi, National Oceanic and Atmospheric Administration
Ashley Bulseco-McKim, Northeastern University

Student "On the Town" Night

Carla Culpepper, University of Southern Mississippi
Hank Hodde, Smart Home America

Student Travel

Ashley Bulseco-McKim, Northeastern University
Brian Donnelly, Northeastern University
Helen Cheng, New York Sea Grant, Northeastern University

Town Hall Meetings

Just Cebrian, Dauphin Island Sea Lab

Scientific Program Committee

Co-Chairs
Jim Hagy, Environmental Protection Agency
Sharon Herzka, Center for Scientific Research and Higher Education of Ensenada (CICESE)
Jennifer Pollack, Harte Research Institute, Texas A&M University, Corpus Christi

Diversity in Science

Corey Garza, California State University, Monterey Bay
Treda Grayson, Environmental Protection Agency

Education

Linda Walters, University of Central Florida

Cultural Heritage/Coastal Humanities

Eric Sparks, Mississippi State University
Lee Yokel, Dauphin Island Sea Lab

CH/CH Support

Steve Sempier, Mississippi Alabama Sea Grant Consortium

Oral Sessions

Jane Caffrey, University of West Florida
Mike Wetz, Texas A&M University, Corpus Christi

Plenary Sessions

Bob Christian, East Carolina University
Megan La Peryre, USGS, LSU AgCenter
Paul Montagna, Harte Research Institute, Texas A&M University, Corpus Christi

Poster Sessions

Pedro Morais, University of California, Berkeley
John White, Louisiana State University

Workshops

Nancy Brown-Peterson, University of Southern Mississippi
Ben Walther, Texas A&M University, Corpus Christi

Film Festival

Cassie Gurbisz, St. Mary's College of Maryland
Jace Tunnell, Mission-Aransas National Estuarine Research Reserve

Student Judging

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Zach Darnell, University of Southern Mississippi

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Holly Greening, Tampa Bay Estuary Program
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Todd Fake, Abstract Database Manager

CERF 2019 Scientific Award Recipients

Congratulations to the 2019 Coastal and Estuarine Research Federation Scientific Award Winners!

Join us in celebrating the 2019 CERF Scientific Award Recipients! The recipients of these awards embody the mission of CERF to advance understanding and wise stewardship of estuarine and coastal ecosystems worldwide by promoting research; supporting the education of scientists, decision-makers, and the public; and facilitating communication among these groups.

The Federation thanks our Scientific Awards Committee chair, Linda Schaffner, as well as all of the subcommittee chairs and committee members, for their tireless efforts to recruit and select the outstanding recipients of this year's awards. CERF also thanks the many nominators and letter writers that supported the exceptional nominations received this year.

Odum Award for Lifetime Achievement

Award Description: The Odum Award is named for the three outstanding ecological scientists in the Odum family: Dr. Howard T. Odum; Dr. Eugene P. Odum; and Dr. William E. Odum, III. It honors an individual whose record of sustained accomplishments has made important contributions to our understanding of estuaries and coastal ecosystems.



Iris Anderson

Professor | Virginia Institute of Marine Science and College of William & Mary

Dr. Iris Anderson stands out as a trailblazer and leader in the fields of shallow-water estuarine and coastal ecosystem biogeochemistry and ecology, outstanding mentor and role model, very appropriately filling the mold of the Odum family legacy. In addition to her numerous accomplishments in these research, teaching, and outreach areas, the impacts of Iris's work are all the more significant given her non-traditional path. She navigated a PhD program as the only woman in her class, paused her education to raise a family, and found a passageway back to gaining her doctorate and an outstanding record of professional achievements, having most recently served as Dean of Graduate Studies at the Virginia Institute of Marine Science (College of William & Mary). Iris's career serves as a strong reminder to the CERF community that scientific excellence can be enhanced and informed by non-linear trajectories.

In addition, Iris has been inspirational for many young scientists. She frequently engages students in detailed conversations about their research and freely offers both advice and encouragement. Her research has evolved over time to keep pace with cutting-edge techniques and topics of broad interest to estuarine ecologists. She has a long history of working with a diverse cadre of scientists and students on a broad range of both scientific and applied topics that have clarified our understanding of complex biogeochemical processes in freshwater and

marine habitats. This is reflected in her excellent first author high-impact publications and syntheses, and also in the many groundbreaking, highly cited, interdisciplinary publications that she has shared as co-author with a long and impressive list of students, technicians, and colleagues.

Iris has been a tireless contributor to the broader field of estuarine and coastal science and CERF, in particular as a co-editor of *Estuaries and Coasts*, and she continues to serve a very active, broad-based role in the review and editorial process.

Lastly, despite her long and rewarding career path, we note that Iris is far from "being done" as a solid contributor and pacesetter in estuarine and coastal science. She continues to be a tireless, creative, interactive, giving, and distinguished researcher, teacher, and role model, worthy of this year's Odum Award.

Cronin Award for Early Achievement

Award Description: This award recognizes the significant accomplishments of an estuarine scientist who is in the early stages of their career development. The recipient will have shown great promise with work carried out during the first six years past the PhD.



Christine Angelini

Assistant Professor | University of Florida

Dr. Christine Angelini is an Assistant Professor at the University of Florida Gainesville in Environmental Engineering Sciences. An NSF CAREER awardee, Christine performs expansive and innovative studies at the intersection of experimental ecology and ecosystem engineering while engaging and mentoring young scientists in simultaneous efforts to address conservation and management issues.

Christine has uniquely applied her deep ecological knowledge to questions of connectivity across the broad estuarine landscapes, from subtidal zones to terrestrial watersheds, with work in salt marshes, mangroves, sand

dunes, oyster reefs, seagrass beds, and live oak savannahs. Her focus on resilience and the critical role that foundation species play in estuarine systems have produced an amazing suite of publications that contributed significantly to our mechanistic understanding of natural systems. Christine has translated this knowledge into restoration initiatives, including collaborative efforts with the public, natural resource managers, and coastal engineers to re-design living shorelines and rebuild coastal wetlands and dunes.

There is little doubt that Christine's leadership, creativity, and passion for science and conservation has motivated and broadened public awareness about the importance of estuaries and their fragility. Her students and colleagues alike write that she is an extremely gifted teacher, communicator, and an amazing female academic role model. One needs only need to glance at her CV to note her collaborative nature. Her scholarship, leadership, dedication to mentorship and education make her an ideal choice for the 2019 Cronin Award.

Margaret A. Davidson Award—Stewardship

Award Description: This award recognizes an individual who demonstrates extraordinary leadership, service, innovation, and commitment to the management of estuarine and coastal systems. This award also recognizes those who have worked in the estuarine and coastal arena and excelled in management and policy.



Merryl Alber

Professor | University of Georgia
Director | University of Georgia
Marine Institute

Dr. Merryl Alber has demonstrated extraordinary leadership, service, innovation, and commitment to

the management of estuarine systems. She formed the Georgia Coastal Research Council, which has fostered productive working relationships between more than 150 researchers and resource managers for 17 years. Merryl has taught coastal policy courses to graduate students for 20 years and inspired many students to careers in management and policy. She has also served as a scientific leader, as Director of the University of Georgia Marine Institute as well as Principal Investigator of the Georgia Coastal Long-Term Ecological Research program. Dr. Alber has served as the Managing Editor of Coastal and Estuarine Science News, which translates key scientific papers for resource managers and policy makers, since 2005, and she has served on numerous workgroups and committees dedicated to activities devoted to environmental stewardship. She has also written a children's

book about the salt marsh. Throughout her distinguished career, Merryl Alber has embodied the passion and commitment to management that Margaret Davidson pioneered.

Pritchard Award—Physical Oceanography Paper

Award Description: This award recognizes the author(s) of the best physical oceanography paper published in *Estuaries and Coasts* within the two-year interval between CERF conferences.



Authors:

Robert J. Chant (left)
Rutgers University

Christopher K. Sommerfield
University of Delaware

Stefan A. Talke
Portland State University

Paper: "Impact of channel deepening on tidal and gravitational circulation in a highly engineered estuarine basin"

Chant et al. assessed the influence of channel deepening on the estuarine exchange flow, stratification, and tidal amplitude. Estuaries worldwide have been deepened for navigation, with limited understanding of effects on water quality. Channel depth affects both barotropic and baroclinic dynamics, and ultimately water quality. They show how the estuarine response to channel deepening may not always be intuitive, and how analytical scaling and observational data can be used to test hypotheses in real systems.

The scaling of Hansen and Rattray (1965) indicates that estuarine circulation should increase with the depth cubed. However, Chant et al. note that increasing depth also increases salinity intrusion length, thereby decreasing the along-estuary salinity gradient. In the scaling proposed by Chant et al., the decrease in salinity gradient offsets the depth increase, suggesting instead that estuarine circulation is independent of depth. Similarly, they show that the change in salinity intrusion predicts that stratification should decrease with depth rather than increasing. Using observational data, Chant et al. further show that estuary geometry can prevent landward salinity intrusion and thereby contradict their revised scaling. Their scaling offers a template to evaluate physical changes in other estuaries where the salinity gradient is less constrained by estuary geometry.

William A. Niering Outstanding Educator Award

Award Description: This award is for an individual who has played a particularly important role in education at any level—from primary school to the graduate level, inside or out of the classroom, or in the education of the general public through outreach activities.



Susan Bell

Professor, University of South Florida

Dr. Susan Bell is a deserving recipient of the 2019 Niering Outstanding Educator Award based on the depth and breadth of her contributions

to teaching and mentoring. The CERF Governing Board states that “the Award is for an individual who has played a particularly important role in education at any level—from primary school to the graduate level, inside or out of the classroom, or in the education of the general public through outreach activities.” Over the 39 years of her academic career, Susan has played all these roles and has been acknowledged for them by her nominator and in the letters from her former students.

While her deepest contribution is toward her graduate students, she is also an excellent teacher and research mentor for undergraduates. She contributes to society through her applied work and training of applied scientists who now serve at every level, both in resource management as well as academia. She has also been active in K-12 education, and has been a strong role model as a female in science. Two quotes from her letters were particularly compelling: “She has a unique ability to provide support while constantly challenging students” and “She is not afraid to take on new challenges when advising untraditional students.” For these reasons, we award Susan Bell the Niering Award at CERF 2019.

Distinguished Service Award

Award Description: The Distinguished Service Award recipient is selected by the CERF President for their exceptional volunteer service to the Federation.



Ruth Carmichael

Senior Marine Scientist | Dauphin Island Sea Lab
Professor | University of South Alabama

Dr. Ruth Carmichael has served CERF in numerous ways over the

past decades that have been key to the growth and impact of the Federation. Through sustained leadership and steadfast commitment to CERF’s vision, Ruth’s volunteer service has strengthened CERF’s capacity to promote research, stewardship, and education in coastal and estuarine systems. Ruth began volunteering for CERF in 2001 as a student attending her first CERF conference: she actively sought opportunities to help, ended up stuffing swag bags, and had so much fun that she went on to serve many subsequent conferences in roles of ever-increasing responsibility. She has assisted with workshop development; served as Workshops Chair for multiple conferences; and is currently serving as the Attendee Experience Committee co-chair for the 2019 Biennial CERF Conference, ensuring that CERF 2019 will be a fun, welcoming, and inclusive experience for all.

Ruth first served on the CERF Governing Board in 2011 as President of the Gulf Estuarine Research Society (GERS). She was instrumental in expanding the composition, scope, and activities of the GERS Governing Board, and consequently the reach of CERF science throughout the Gulf coast. She was later elected to the CERF Governing Board as a Member-at-Large where she led development of strategies to enhance the quality of CERF publications. As chair of the CERF Publications Committee, Ruth has been a continuous champion for Estuaries and Coasts, CERF’s Up!, Coastal and Estuarine Science News, and the textbook Estuarine Ecology, navigating needs, inspiring innovations, and coordinating calendars among a multitude of editors, publishers, and volunteers with skillful aplomb. For her long-term, exceptional volunteer service to the Federation, CERF awards Ruth the Distinguished Service Award.

Meet CERF's 2019-2021 Governing Board

We are pleased to present the CERF 2019-2021 Governing Board! Please join us in congratulating CERF's new President-elect, Secretary, Members-at-Large, and Student Member-at-Large. Thank you also to our continuing Board members, and our new Affiliate Society representatives.



Jim Fourqorean



Hilary Neckles



Leila Hamdan



Jamie Vaudrey



Erik Smith



J. Ernesto Mancera



Jennifer Besares Pollack



Steven Litvin



Liz Perotti



Christine Whitcraft



Kristin Wilson Grimes



Johnny Quispe



Megan La Peyre



Allen Beck



Brett Branco



Ben Fertig



Enrique Reyes

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The Latest Coastal & Estuarine Science News (CESN)

Merryl Alber, *Managing Editor*

Claudia Geib, *Science Writer/Coordinating Editor*

Go to the CESN website at www.cerf.science/cesn to read the full summaries and sign up to have future issues delivered to your email inbox.

JULY 2019

Swimming signals: Atlantic mummichog and urbanization

Undisturbed salt marshes provide best habitat

Anthropogenic activities like eutrophication, sea level rise, and habitat loss and fragmentation threaten southern US salt marshes, but the effects of urbanization on these habitats are understudied. A recent study investigated the both the survival and abundance of a sentinel indicator species, the Atlantic mummichog, in six North Carolina creeks, and used a model to relate patterns in these demographics to urbanization and habitat change.

www.cerf.science/cesn-july-2019#Article1

A birds-eye view of shoreline change

Combining satellite images can reveal dynamic trends over short time periods

Remote sensing can provide a helpful means of detecting shoreline change caused by both natural and anthropogenic coastal processes. Few studies have used multi-temporal remote sensing data to study gradual changes over time frames of less than 10 years; because satellite imagery offers coarse spatial resolution, it can be difficult to detect subtle changes over short periods of time. Yet work completed in Mexico, using 10 years of data from a satellite imaging system known as SPOT-5, showed that image fusion on these images could be used to detect trends in shoreline change over this relatively short time.

www.cerf.science/cesn-july-2019#Article2

How to build “softer” seawalls

Enhancing hard infrastructure with green solutions

In recent years, coastal engineers have increasingly considered “green” solutions to protect coastlines, such as shore nourishment, natural structures like oyster reefs, or combining human infrastructure with coastal habitat like salt marshes. These solutions cause fewer environmental impacts than traditional “hard” solutions—structures like groynes, breakwaters, seawalls, and dikes. Yet the use of a soft solution is not possible on every piece of coastline, due to local hydrodynamic forcing and space considerations. With the expectation that more hard infrastructure will be needed to combat sea level rise, a literature review examined where soft-solutions can be applied (be it in combination with hard structures vs. completely soft), under what circumstances hard structures are still preferable over soft, and how hard solutions can be made into more sustainable “green” infrastructure in cases where they are needed.

www.cerf.science/cesn-july-2019#Article3

How can aquaculture curb eutrophication?

Conservatively managed operations can limit the effect of nutrients

The aquaculture industry is growing quickly all over the world, and is expected to continue expanding. Yet aquaculture has a significant environmental impact that will need to be addressed as it grows, as these operations contribute organic matter that can cause eutrophication and algal blooms. In a study conducted in coastal South Korea, researchers examined how different types of aquaculture—and different management strategies—influence organic matter reaching the seafloor.

www.cerf.science/cesn-july-2019#Article4

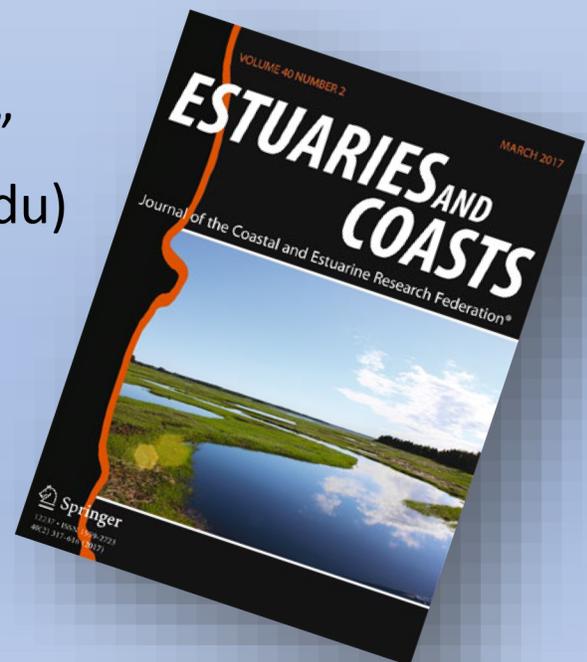
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Considering a special issue or theme?
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(paul.montagna@tamucc.edu)

Considering a review or perspectives
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<http://www.springer.com/environment/journal/12237>

Estuaries and Coasts Update

Paul Montagna and Charles (Si) Simenstad, Co-Editors-in-Chief, and Taylor Bowen, Managing Editor

Anticipating CERF2019, the *Estuaries & Coasts* (ESCO) Editorial Board and CERF Publications Committee take this opportunity to highlight a few gems of our journal's editorial review process and success, and to encourage attendees at CERF2019 to engage with ESCO representatives about publishing in the journal.

As in the past, we recognize particularly outstanding ESCO Associate Editors (AEs) and peer reviewers during the biennial period. The AEs and peer reviewers do all the hard work that is the foundation of the journal's reputation. The science publication enterprise would fail without this voluntary service.

ESCO Associate Editors of Distinction

For 2019, we wish to acknowledge the outstanding contributions of four AEs and 10 peer reviewers for the past two years: July 2017 to June 2019. These AEs were renowned for their large number of accepted assignments and decisions, and particularly the minimal time they needed to respond and make a decision. We wish to particularly distinguish their outstanding preparation of the publication decisions to the author(s), which consistently provided perceptive and fair integration of often-divergent peer review decisions and recommendations, and typically provided their own careful review of the manuscripts as well.

Hans Paerl, University of North Carolina, USA

Mark Peterson, University of Southern Mississippi, USA

James Pinckney, University of South Carolina, USA

Dennis Swaney, Cornell University, USA

ESCO Peer Reviewers of Distinction

Similarly, we wish to acknowledge all 620 peer reviewers for the past two years: July 2017 to June 2019. However, 10 reviewers stood out for the number and quality of their reviews and the short time it took them to respond to the AEs' invitations and complete their reviews. Their reviews were outstanding for not only insights into the scientific merit and inference, but particularly for their willingness to provide constructive, and often extensive, guidance for the improvement of the submitted manuscripts.

Paul A. Bukaveckas, Virginia Commonwealth University, USA

Matthew Charette, Woods Hole Oceanographic Institution, USA

Wayne S. Gardner, University of Texas at Austin, USA

Nadine Schubert, Universidade Federal de Santa Catarina, Brazil

Philip W. Stevens, Florida Fish and Wildlife Conservation Commission, USA

Luni Sun, Texas A&M University at Galveston, USA

Gary Taghon, Rutgers The State University of New Jersey, USA

Bryce Van Dam, Florida International University, USA

Catarina Vinagre, Universidade de Lisboa, Portugal

Hongbin Yin, Nanjing Institute of Geography and Limnology, China

Retiring ESCO Editorial Board members

We also wish to acknowledge the contributions of Associate Editors who have devotedly served their terms and have retired from the ESCO Editorial Board over the past two years:

Carl Friedrichs, Virginia Institute of Marine Science, USA (7 years)

Rui Santos, University of Algarve, Portugal (7 years)

Josianne Støttrup, Technical University of Denmark, Denmark (8 years)

Nadine Strydom, Nelson Mandela Metropolitan University, South Africa (4 years)

Cathleen Wigand, US Environmental Protection Agency, USA (4 years)

If you know any of them or see them at CERF2019, please express your appreciation for their contribution to our journal!

New ESCO Editorial Board members

Ten new AEs have also joined the Board over the past two years, with a much-appreciated commitment to a four-year term:

Brian Barnes, University of South Florida, USA

Silvana Birchenough, SEFAS Lowestoft Laboratory, U.K.

Henrique, Cabral, Universidade de Lisboa, Portugal

Laure, Carassou, National research Institute for Agriculture and Environment, France

Dan Friess, National University of Singapore, Republic of Singapore

Neil Kamal Ganju, USGS, Woods Hole, USA

Steve Litvin, Monterey Bay Aquarium Research Institute, USA

Hongbin Liu, Hong Kong University of Science & Technology, Hong Kong

Scott Warren, Connecticut College, USA

Dennis Whigham, Smithsonian Institution, USA

Melisa Wong, Bedford Institute of Oceanography, Canada

Submissions and Improvement in *Estuaries & Coasts* Review Process

Amazingly, submissions continue linear growth over the last 15 years (Fig. 1). The submissions have increased by an average of 19 new and 17 revised manuscripts every year since 2004. We now handle about 700 manuscripts per year.

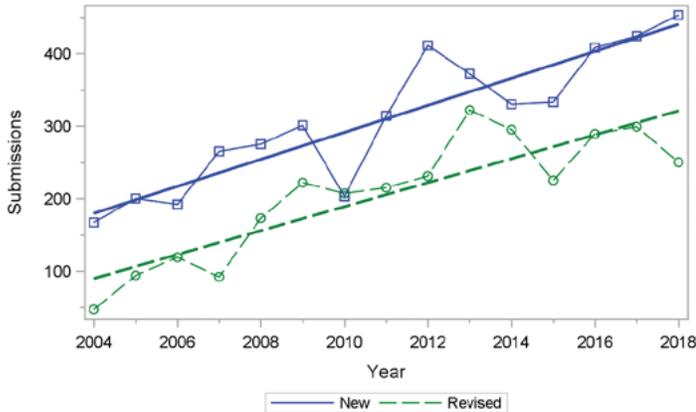


Figure 1. Trends in number of new submissions (top, blue) and revisions (bottom, green) submitted to *Estuaries & Coasts* 2004-2018; data courtesy of Taylor Bowen, Managing Editor.

However, the more notable trend is that our average time to first decision this year to date is only 35 days, continuing a downward trend since 2013, and half the time required in 2016 (see Fig. 2). This average rate falls into what Nguyen et al. (2015) considered a “fast review time” in their survey from 637 responses to authors publishing in conservation biology journals. We trust you will consider this remarkable performance by the ESCO review process when deciding where to submit your next manuscript!

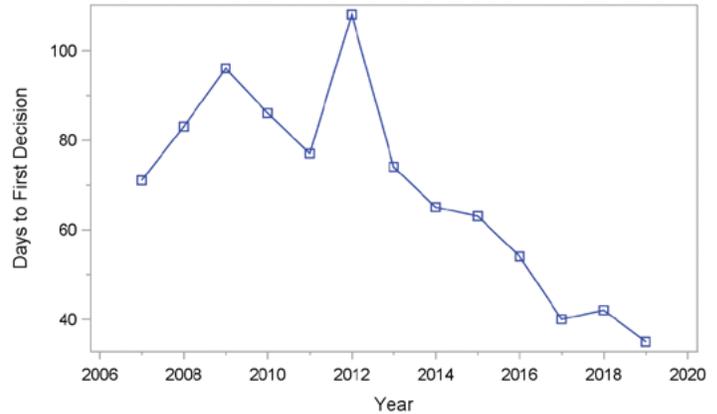


Figure 2. Average time (days) to first review decision in *Estuaries & Coasts* editorial process; data courtesy of Taylor Bowen, Managing Editor.

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In spite of the low average time to first decision, we still have some papers that can languish for months. This is always because we can't find folks willing to provide reviews, and reviews are often late. While 837 requests were accepted, a total of 1,020 requests were declined in the last two years, so on average 55% of all review requests are declined. Many times, the declination arrives very late, further delaying our process. Sometimes, we are just unlucky, and we have seen as many as 10 reviewer requests before obtaining two folks willing to review a manuscript. Another problem is late responses. The average review arrives 21 days late. However, our editorial process does include reminders and vigilant AEs, which is why we are always making progress on time to decision.

Everyone is busy, but please do your part and pay it forward. Remember, every time you submit a paper for publication, at least four people work on it: the Editor in Chief, AE, and two reviewers. Therefore, you should feel that you owe the scientific enterprise four reviews for every paper you submit.

Editors' Choice Articles

We hope that you have noted that the first paper in every issue of *Estuaries & Coasts* is now designated as the "Editors' Choice." This is a new feature that was encouraged by the publisher, Springer Nature. These papers will be highlighted by CERF in the quarterly newsletter, and by the publisher on the journal homepage in the tabs labeled "Editors' Choice Articles" and "Special Virtual Issues and Highlighted Articles" and with a promotional banner linking to these papers.

Estuaries and Coasts Metrics for the first half of 2019

Total downloads from SpringerLink (January-April 2019): 100,264

2-year Impact Factor: 2.686

5-year Impact Factor: 2.883

Total Altmetrics mentions (All time): 3,356

Total SharedIt shares in 2018: 3,365



Estuaries and Coasts Town Hall

ESCO will host a Town Hall at CERF 2019 on Thursday from 11:30 AM – 1:00 PM entitled "Misuse of P-values and why *Estuaries and Coasts* discourages the phrase statistically significant." For two decades there has been a debate among statisticians about the misuse and misinterpretation of P-values. There is now a consensus among statisticians that it is wrong to use the binary choice of "statistically significant" or "non-significant" based on arbitrary assumptions about fixed alpha values e.g., 0.05 (Wasserstein et al. 2019), and some are recommending that editors ban the use of these terms from their journals (Hurlbert et al. 2019). The ESCO editors are considering this, but before taking such a drastic action, we want to explain to the CERF community what we are considering and why. This would both inform the CERF community that publishes in ESCO, provide advice on presenting results of statistical analyses, and allow the editors to receive feedback on how to move forward. Please join us and bring your own lunch.

Find Us at CERF 2019

Whether you want to discuss *Estuaries & Coasts* as the appropriate venue for your next publication or just want to chat about changes in the journal's scope and content, please feel free to contact us at CERF 2019. We will try to establish "office hours" at the Springer booth or they will know how to contact us, and we can arrange to meet. We're anxious to hear from you, whether a prospective recruit or long-time ESCO author. We are particularly interested in talking to authors who are considering submitting Management Applications or Review articles, so look us up!

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CAERS Updates



Postcards from the field: Fishing for Insight

Nina Venuti, Research Assistant with California Sea Grant at Scripps Institution of Oceanography and CAERS Member

For the past year or so, I have been working with Theresa Talley and a team of California Sea Grant interns to survey recreational shellfish harvesters on three piers in San Diego Bay. Our survey efforts are part of a larger project to better understand the risks associated with self-harvested seafood by looking closely at the bay's food resources and the people who harvest them.

This was the first time I'd ever surveyed members of the public in a systematic way, and it was a huge, somewhat intimidating learning experience for me—one that provoked lots of self-reflection. I've come to realize that surveying is, at least for me, an exercise in a kind of emotional intelligence, some mix of perception, self-awareness, courage, and receptivity.

Perception and self-awareness While on the piers, I became acutely aware of how I was being received by the individuals I approached for a survey—eagerly, openly, skeptically, guardedly—via their body language, tone of voice, and answers to my questions. This made me more conscious of how I was presenting myself, my own body language and manner of speaking. While participation in our survey was entirely volun-

tary—individuals were informed of their ability to refuse to participate, to skip over questions, and to end the survey at any time—the goal was still to get the most accurate, honest, and clear answers (data) from the fishers who were willing to participate.

And this is where perception and self-awareness came in handy; I employed both to make survey participants more comfortable and build rapport between us. When participants told me of their lack of fishing success, I self-deprecatingly shared stories of



our own failure to catch lobster. When they shared fun facts about themselves (that they had caught a mantis shrimp in Mission Bay or had a killer lobster bisque recipe), I asked follow-up questions. If they were more formal, I addressed them formally; if they were more casual, I followed suit. For the wariest of participants, I left more space between us until they warmed up to me, only then taking a step closer to engage them in conversation. I think, based on my very little experience, that practicing perception and self-awareness helped me not only get a higher survey response rate, but more accurate responses, as participants were more willing to spend time talking with me if they were more comfortable.

Courage

It can be quite intimidating and uncomfortable to attempt to strike up conversation with a stranger, let alone ask them to complete a survey, especially for those of us who are on the shyer side. By the time our year of surveying was over, I'd probably talked to about 200 people on piers, and still, each time, I had to steel myself to approach someone new. I acted more confident than I was—a classic "fake it 'til you make it" approach—explained our project, asked whether they'd be willing to participate, and hoped for the best (and yes, I was rejected once in a while)! All of this became slightly easier over time, but only slightly.

Receptivity

As a surveyor, I was on the pier to listen and learn, to observe, to gain insight into another person's lived experience. This required an openness to new ideas, a receptivity, even a humility of sorts. My own opinions and experiences didn't really matter in this context—my job was to understand theirs.

Though it was revealed to me through surveying strangers on piers, I think that this lesson of practicing being perceptive, self-aware, receptive, and even a little courageous, is one that can be applied to most situations in which we interact with people, especially people who may be from walks of life different than our own.

All of the fishers I surveyed over the last year let me into a little part of their lives, allowing me to peek into the world of recreational pier fishing, a world formerly unknown to me. And for that, I am grateful.

For more information on our project, visit: <https://caseagrant.ucsd.edu/project/cultural-economic-and-public-health-determinants-of-social-vulnerability-to-seafood>

SEERS Updates



New SEERS Website

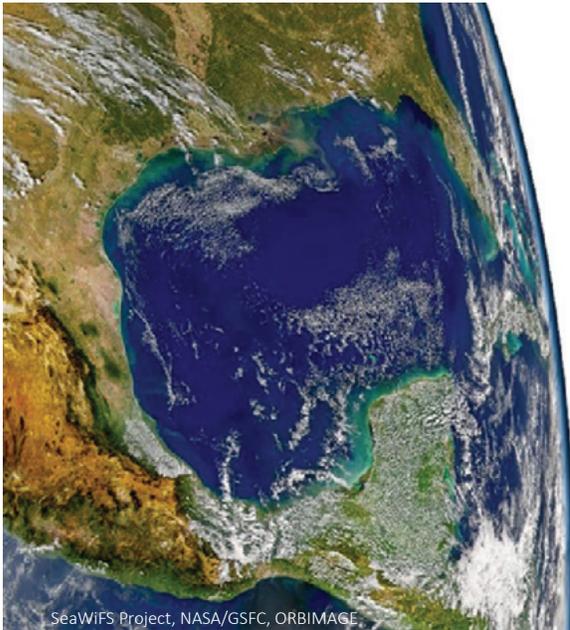
SEERS is pleased to unveil our recently redesigned website at www.seers.org. The new format includes expanded news coverage with sections for Meetings, SEERS News, Student News, and CERF & Affiliate News. We are happy to cross-post news of interest to the wider CERF and affiliate audience: please send short news posts and accompanying images to webmaster@seers.org. SEERS is also seeking information to help connect students with mentors through our Student Spotlight and Mentor Networking Spotlight features. SEERS members (students and potential mentors) may submit information to be featured on SEERS social media, including the website, at <http://seers.org/students/spotlight-submission/>, and be sure to include your great photos of field work, lab work, or presentations!

Student Spotlight

Nicholas Coleman is a rising senior at Coastal Carolina University, where he is pursuing a degree in marine science with a minor in biology. After graduating in December of 2019, he plans to go on to graduate school to study fisheries conservation and fish ecology. He has had the privilege of being a Coastal Carolina College of Science Fellow, where he works closely with his mentor, Dr. Erin Burge. Additionally, he has been a Chesapeake Research Consortium (CRC) Chesapeake Student Recruitment, Early Advisement, and Mentoring (C-Stream) Fellow for two consecutive summers (2018 and currently). Through both fellowships, he has worked collaboratively with mentors on projects assessing a variety of aspects within fish ecology including coastal migrations, population dynamics, juvenile fish habitat use, and trophic interactions.

Nicholas gave an impressive poster presentation at our SEERS Spring 2019 meeting and won the “Best

Undergrad Poster” award. His research focused on trophic interactions on a hard-bottom reef located approximately 60 km off the coast of North Carolina. The project uses a publicly assessable live streaming underwater camera called “Shark-Cam”, which is cited in about 15 m of water at the base of Frying Pan Tower, a decommissioned Coast Guard Tower. Using archived footage from SharkCam, he conducted video analysis on the association behavior between round scad (*Decapterus punctatus*) and sand tiger sharks (*Carcharias taurus*). He hypothesized that round scad benefit from a close physical association with sand tiger sharks because it reduces their vulnerability to meso-predators (ex. jacks and tuna). The association may be mutually beneficial because it increases predation attempts for sand tiger sharks on meso-predators. This study may be the first to analyze this behavior. This fall he will be furthering his research to increase sample size with the hopes of getting this published.



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