

JAMIE L. STEICHEN, PhD

Texas A&M University at Galveston
Instructional Assistant Professor
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PROFESSIONAL EXPERIENCE

Texas A&M University at Galveston - Department of Marine Biology

Instructional Assistant Professor	2020-present
Assistant Research Scientist	2018 – 2020
Lecturer	2015 – 2020
Postdoctoral Research Associate (PI: Dr. Antonietta Quigg)	2014 – 2018
Lab Instructor – Marine Botany	2016

University of Central Arkansas (Conway, AR)

Departments of Biology and Geography	2013 – 2014
Adjunct Faculty and Lab instructor	

Texas A&M University – College Station, TX

Department of Oceanography	2007 – 2008
Graduate Student Teachers Assistant – OCNG 251 Laboratory	

EDUCATION

Ph.D. in Oceanography, Texas A&M University, College Station, TX

Dissertation Title: *Ecosystem Under Pressure: Examining the Phytoplankton Community In The High Ballast Water Discharge Environment of Galveston Bay, Texas (USA)* Chair: Dr. Antonietta Quigg

B.S. in Marine Science, Texas A&M University at Galveston, Galveston, TX

University of Texas at Arlington, Biology (1995-1998)

Associates of Fine Arts, Tarrant County College (Arlington, TX)

FELLOWSHIPS & AWARDS

TAMUG Vice Presidents Meritorious Service Awards for Outstanding Classroom Teaching Award	2023
Center for Teaching Innovation Fellow	2022
TAMUG 1973 Center Faculty Fellow and Alumni	2021-2022
Association of Colleges and University Educators (ACUE) - 25 weeks Effective Teaching Course	2021-2022

EXTRAMURAL AWARDS

Funded proposals

Texas General Land Office (TGLO). 2021. Freshwater Inflows to Texas Bays and Estuaries: A State-Wide Review, Synthesis, and Recommendations. Quigg, A. (PI) and **Steichen, J.L. (co-PI)** \$79,327

National Oceanic and Atmospheric Association (NOAA). 2021. NOAA V-WET: Virtual Watershed Education and Training Wilems, C (Galveston Bay Foundation) and **Steichen, J.L. (co-PI)** \$99,481

Texas Parks and Wildlife Department. 2019. *Raising awareness of harmful (and/or toxic) algae blooms (HABs) in Galveston Bay and their impacts.* Quigg, A. (PI) and **Steichen, J.L. (Co-PI)** \$153,468

Envirocleanse LLC. 2016. *Efficacy of Envirocleanse Ballast treatment on some bacteria and phytoplankton.* **Steichen, J.L. (PI)** and Quigg, A. (Co-PI) \$19,047

Submitted – not funded

National Science Foundation (NSF). In review, submitted March, 2024. Collaborative planning grant: S-STEM: BLUE-WATERSS: Blue Economy: Workforce Advancement to Train and Educate Rising Scholars in STEM Quigg, A. (PI), **Steichen, J.L. (co-Investigator)**, Emmert, J. (co-PI), Davis, L. (co-PI), Craig, C. (co-PI), \$100,000

Spencer Foundation. 2023. Linking educational inequities of New Zealand and Texas and reimagining the future of education together. Thrush, S. (PI), Ladewig, S. (co-PI), **Steichen, J.L. (co-PI)**, Wilems, C. (co-PI), Leo, J. (co-PI),

TEACHING & MENTORING EXPERIENCE

Texas A&M University at Galveston

Tropical Marine Botany (MARB489; 10 students in Puerto Rico)	2024 – present
Marine Ecology (MAR425; avg 60-75 students per semester)	2024 – present
Succeeding in Science (MARB 101; avg 120 students per semester)	2018 – present
MARB/MCES Graduate Seminar Series (MARB/MCES 681; 45 students)	2021 – present
Marine Botany Lecture and Lab (MARB 408; avg 46 students)	2015 – 2020
Introductory Biology II (BIOL 112; 35 students)	2019
Introductory Biology I (BIOL 111; 45 students)	2017

University of Central Arkansas

General Biology Lecture and Lab (BIOL 1400; 85 students)	2013 – 2014
Oceanography (GEOG 4308; 20 students)	2014

PEER REVIEWED PUBLICATIONS

- Quigg, A., Claflin, N., Kamalanathan, M., Labonté, J.M. and **Steichen, J.L.**, 2024. Response of a Phytoplankton Community in a Subtropical Estuary to a Pulse Disturbance Driven by a Combo Hurricane and Extreme Rainfall Event. *Estuaries and Coasts*, 47(4), pp.1032-1051.
- Steichen, J.L.**, Gonzalez, L. and Quigg, A. 2024. Seasonal and spatial variations between the fish community and environmental factors in a subtropical estuary. *Estuary, Coastal and Shelf Science* (accepted)
- Quigg, A., Claflin, N., Kamalanathan, M., Labonté, J., and **Steichen, J.L.** 2024. Response of a phytoplankton community in a subtropical estuary to a pulse disturbance driven by a combo hurricane and rainfall event. *Estuaries and Coasts* (accepted, in revision)
- Quigg, A., Steichen, J.L., Beecraft, L., Wetz, M., 2023. Chapter 13. Plankton Dynamics in Texas Estuaries in Freshwater inflows to Texas Bays and Estuaries: A Regional-Scale Review, Synthesis and Recommendations (Paul Montagna submitted to publisher)
- Wetz, M., Beecraft, L., McBride, M., Steichen, J.L. and Quigg, A. 2023 Chapter 7. Nutrient-Phytoplankton Dynamics in Texas Estuaries Freshwater inflows to Texas Bays and Estuaries: A Regional-Scale Review, Synthesis and Recommendations. (Paul Montagna submitted to publisher)
- Walker, J.R., Woods, A.C., Pierce, M.K., **Steichen, J.L.**, Quigg, A., Kaiser, K. and Labonté, J.M., 2022. Functionally diverse microbial communities show resilience in response to a record-breaking rain event. *ISME Communications*, 2(1), 1-11.
- Steichen, J.L.**, Labonté, J.M., Windham, R., Hala, D., Kaiser, K., Setta, S., Faulkner, P., Bacosa, H., Yan, G., Kamalanathan, M. and Quigg, A. 2020. Microbial, physical, and chemical changes in Galveston Bay following an extreme flooding event, Hurricane Harvey. *Front. Mar. Sci.* (doi: 10.3389/fmars.2020.00186)
- Bacosa, H.P., **Steichen, J.**, Kamalanathan, M., Windham, R., Lubguban, A., Labonté, J.M., Kaiser, K., Hala, D., Santschi, P.H. and Quigg, A., 2020. Polycyclic aromatic hydrocarbons (PAHs) and putative PAH-degrading bacteria in Galveston Bay, TX (USA), following Hurricane Harvey (2017). *Env. Sci. and Poll. Res.*, 27(28), 34987-34999.
- Gonzalez, L.A., Quigg, A., **Steichen, J.L.**, Gelwick, F.P. and Lester, L.J., 2020. A New Approach to Functionally Assess Estuarine Fish Communities in Response to Hydrologic Change. *Estuaries and Coasts*, 1-14.
- Steichen, J.L.** Quigg, A. 2018. Fish species as indicators of freshwater inflow within a subtropical estuary in the Gulf of Mexico. *Ecological Indicators*, 85 180-189.
- Steichen, J.L.** and Quigg, A. 2015. Assessing the viability of microorganisms in the ballast water of vessels transiting the North Atlantic Ocean. *Marine pollution bulletin*, 101(258-266).
- Dorado, S., Booe, T., **Steichen, J.**, McInnes, A.S., Windham, R., Shepard, A., Lucchese, A.E.,

Preischel, H., Pinckney, J.L., Davis, S.E. and Roelke, D.L., 2015. Towards an Understanding of the Interactions between Freshwater Inflows and Phytoplankton Communities in a Subtropical Estuary in the Gulf of Mexico. PloS one, 10(7), p.e0130931.

Steichen, J.L., Denby, A., Windham, R., Brinkmeyer, R. and Quigg, A. 2015. A Tale of Two Ports A Tale of Two Ports: Dinoflagellate and Diatom Communities Found in the High Ship Traffic Region of Galveston Bay, Texas (USA). Journal of Coastal Research 31, 407-418.

Steichen, J.L., Denby, A., Brinkmeyer, R. and Quigg, A. 2014. All aboard! A biological survey of ballast water onboard vessels entering the Port of Houston, Texas (USA) Marine Pollution Bulletin. 87, 201-210.

Steichen, J.L., Windham, R., Brinkmeyer, R., and Quigg, A. 2012. Ecosystem under pressure: Ballast water discharge in Galveston Bay, Texas (USA) from 2005- 2010. Marine Pollution Bulletin. 64, 779-789.

TECHNICAL REPORTS

Quigg, A., **Steichen, J.L.** and Windham, R. 2019. Freshwater inflows in Galveston Bay: relationship to (harmful) algal blooms (HABs). Texas Commission on Environmental Quality. Final Report.

Quigg, A. (PI) and **Steichen, J.L.** (Lead Scientist) 2018. Defining Bioindicators for Freshwater Inflow Needs Studies Phase 2: Defining a Sound Ecological Environment for Galveston Bay. Final Report for the Texas Water Development Board. Interagency Cooperative Contract TWDB Contract No. 1600011941. pp. 113

Quigg, A., **Steichen, J.L.**, Windham, R. and McAmis, A. 2018. Phytoplankton Identification Guide for Texas Coastal. Texas Commission on Environmental Quality.

Steichen, J.L. (PI) and Quigg, A. (Co-PI) 2016. Efficacy of Envirocleanse Ballast Treatment on some Bacteria, Phytoplankton and Zooplankton. Final report for Envirocleanse LLC. Project No. M1601758.

Quigg, A. (PI) and **Steichen, J.L.** (Lead Scientist) 2015. Defining Bioindicators for Freshwater Inflow Needs Studies. Final Report for the Texas Water Development Board. Interagency Cooperative Contract TWDB Contract No. 1400011695. pp. 138

PROFESSIONAL DEVELOPMENT

Association of Colleges and University Educators – Effective Teaching Certificate 2022

National Conference on Race and Ethnicity (NCORE) 2021

Attendee in a 5-day conference with workshops and presentations

TAMU/G Teaching Workshops

- Center for Teaching Excellence - Maximizing Student Engagement and Learning Using Relationships, Resilience, and Reflection (01/10/2023, 1.5hrs)
- CLIDE - Dr. Tia Brown McNair, Vice President for Diversity, Equity and Student Success - "From Equity Talk to Equity Walk: Our Shared Responsibility for Equity-Minded Sense-Making that Advances Student Success" (11/15/2022, 3 hrs)
- CLIDE – Dr. Jason Wallace workshop – “Exploring Culturally responsive Pedagogy” (03/07/2022, 1hr)

TAMU/G Service

- MARB Ecology/Evolution APT Search Committee 2023 – present
- TAMUG Employee of the Quarter selection committee 2023 – present
- Aggies Connect Development Committee 2022 – present
- CTE – Inclusive Teaching Learning Committee 2022 – present
- Student Success Initiative Leadership committee 2022 – present
- TAMUG Police Hiring Committee 2021 – present
- MARB/MCES Graduate Student Seminar coordinator 2021 – present
- Transformational Teaching and Learning Conference Steering Committee 2020 – present
- Succeeding in Science Networking Reception (Organizer) 2018 – present
- 1973 Center Alumni program 2021 – 2023

- TriBeta Faculty Adviser 2021 – 2023
- Honors Program Advisory committee 2021 – 2023
- TAMU/G Service (cont)*
- Allies by the Sea – Educator 2022 – 2023
- Anti-racism allyship workgroup 2020 – 2023
- CLIDE member 2022 – 2023
- Faculty advisory committee 2020 – 2023
- Common Reader committee 2020 – 2021
- Marine Biology promotional materials subcommittee (TAMUG) 2019
- First Year Experience Retreat – Workshop to bring all faculty teaching students during their first years at TAMUG together (Attendee) 2019
- Texas A&M University at Galveston Graduate Student Symposium (Judge) 2015, 2018

TAMUG Graduate student committees

- Hope Vanderhider, M.M.R. in Marine Resource Management – committee member 2024-present
- Wes Shoulders, M.M.R. in Marine Resource Management – committee member 2022-present
- Noah Claflin, M.S. in Marine Biology – committee member 2021-2023
- Marissa Palmer, M.S. in Marine Biology – committee member 2022-2023
- Jessica Hillhouse, M.S. in Marine Biology – graduated 2022
- Justin Tirpak, M.M.R. in Marine Resource Management – graduated 2022

TAMUG Undergraduate students mentored

- Zack McTaggart - MARB 484 Sponsor Mississippi Aquarium Internship 2024
- Sloan Enstad – MARB 484 Sponsor for Moody Gardens Pinnipeds and Penguins Internship 2022
- Matthew Tyree - MARB 484 Sponsor for Moody Gardens Aquarium Internship 2022
- Emily Crain – MARB 484 Sponsor for the Moody Gardens Aquarium Internship 2021
- Bremmen Derry – MARB 484 Sponsor for the Moody Gardens Aquarium Internship 2021
- Sloan Enstad – MARB 484 Sponsor – Project: Institute for Marine Mammal Studies (IMMS) Animal Care Internship, Gulfport, MS 2021
- Shaley Klumker – Texas Institute of Oceanography, ACES TAMUG 2021
- Jake Ballard – MARB 491 Undergraduate volunteer Phytoplankton Dynamics Laboratory working on the Imaging Flow Cytobot 2019 – 2021
- Kayla Langhorne MARB 491 Undergraduate volunteer Phytoplankton Dynamics Laboratory working on the Imaging Flow Cytobot 2019 – 2020
- John Arnett MARB 491 Undergraduate volunteer Phytoplankton Dynamics Laboratory working on the Imaging Flow Cytobot 2019 – 2020
- Clarissa Solchaga – MARB 491 Undergraduate volunteer in the Phytoplankton Dynamics Laboratory working on the Imaging Flow Cytobot 2019 – 2020
- Rebecca Molina – MARB 491 Undergraduate volunteer Phytoplankton Dynamics Laboratory assisting with general lab duties 2019
- Keilana Borja– MARB 491 Undergraduate volunteer in the Phytoplankton Dynamics Laboratory working on the Imaging Flow Cytobot 2019
- Natasha Moment – MARB 484 Sponsor – Project: Internship with the Galveston Animal Clinic 2019
- Emily Castillo – MARB 484 Sponsor – Project: Internship with the New Braunfels Utilities to monitor species diversity at the headwaters of the Comal River in response to concrete structure removal 2019
- Sophia Niglio – MARB 484 Sponsor – Academic sponsor for internship at Dallas Zoo 2019
- Leah Bogan – MARB 491 Undergraduate volunteer in the Phytoplankton Dynamics Laboratory working on the Imaging Flow Cytobot. 2019
- Noah Claflin – MARB 491 Directed Study: Conducted chlorophyll *a* analysis and species identification using

the Imaging FlowCytobot. Presented a research poster at the Texas A&M University – Galveston Student Research Symposium 2018

TAMUG Undergraduate students mentored (cont)

Ashley Childs – MARB 491 Directed Study: Comprised harmful algal bloom fact sheets for phytoplankton species in Galveston Bay 2017

Alexandra Denby; Undergraduate student worker/ Research Assistant (DNA extractions, Polymerase Chain Reaction, Denaturing Gradient Gel Electrophoresis. 2010 – 2011

Krystal Smith Undergraduate student worker; Skills taught: Polymerase Chain Reaction 2009

Melanie Britton Undergraduate student worker; Skills taught: DNA extraction, Polymerase Chain Reaction, Denaturing Gradient Gel Electrophoresis 2009

Michael Bell Undergraduate Directed Study (MARB 491) 2007

SERVICE

Chair/Co-chair session

CERF (Coastal and Estuarine Research Federation) - Online conference science education session titled Coastal Education and Student Training: Past successes and future directions with co-Convener Carla Curran 2021

Invited Professional Talks and Guest Lectures

Understanding impacts on ecological processes at the base of the food web after a major hurricane event: Hurricane Harvey and its disruption to Galveston Bay, Texas Ecological Society of America New Orleans, LA 2018

Ecosystems and Nutrients Lecture – Coastal Plant Ecology TAMUG (undergraduate) 2017

Artist’s Boat – Current Research in Galveston Bay: Fish, Phytoplankton and Ships....Oh My! Galveston, TX 2016

Galveston State of the Bay – Invasive Species Panel. Panama Canal expansion: implications for ballast water discharge in Galveston Bay, Galveston, TX. 2016

Nutrients in the Coastal Environment Lecture – Ecosystem Functions TAMUG (graduate) 2016

Trinity-San Jacinto Bays and Basin area Stakeholders Committee - Freshwater Bioindicators in Galveston Bay; San Jacinto River Authority, Conroe, TX 2015

Texas A&M University at Galveston – Marine Biology Seminar Series. Freshwater Bioindicators in Galveston Bay, Texas. Galveston, TX 2015

Journal referee

Marine Pollution Bulletin, PLOS One, Estuaries and Coasts, Marine Environmental Research, Journal of Coastal Research, Brazilian Journal of Oceanography, Science of the Total Environment

Professional society memberships

Association for the Sciences of Limnology and Oceanography 2009-present

Coastal and Estuarine Research Federation 2009-present

American Geophysical Union 2008-2012

The Oceanography Society 2007-2012

Community service

Texas Harmful Algal Bloom work group 2010 – present

Plankton Tow for Harmony Pratt – Bay Area Christian School 2019 – present

Galveston Bay Estuary Program – Invasive species workgroup 2015 – 2020

Galveston Bay Estuary Program – Water and Sediment Quality Subcommittee 2014 – 2019

Galveston Bay Estuary Program – Monitoring and Research Subcommittee 2014 – 2020

Gulf of Mexico Alliance work group 2010 – 2019

Galveston Bay Foundation Annual Teacher Workshop. Introduction to Galveston Bay Phytoplankton. Webster, TX 2015-2019

Phytoplankton presentation and demonstration. Invisible Watery World. Oppe Middle School 4 th graders at the Galveston Sea Star Base – Galveston, TX <i>Community service (cont)</i>	2017
Stephen F. Austin High School – Marine Biology Curriculum Meeting	2015
Ball High School Mentoring committee – Galveston, Texas	2011-2015
Texas Parks and Wildlife Department - Texas Rapid Assessment Team The Hunt for Invasive Species - Texas	2011
National Ocean Sciences Bowl, National Championship; Room Moderator	2011
Adopt-A-Beach Cleanup, Galveston, Texas	2010
National Ocean Sciences Bowl, Regional Championship; Scorekeeper	2008

WORKSHOPS ATTENDED

Imaging FlowCytobot User Workshop at Woods Hole Oceanographic Institute and McLane Laboratories	2014, 2018
Water Quality Analysis Simulation Program (WASP) – EPA training. Environmental Protection Agency WASP8 Workshop - US EPA Region 4 and the National Water Quality Modeling Work Group. Atlanta, GA	2017
Plymouth Routines in Multivariate Ecological Research (PRIMER-e v6) St. Petersburg, FL	2014
Marine Tech Surge Workshop: Ocean Pollution-From technology to Management and Policy; Sarasota, FL	2011
Managing Algal Cultures, UTEX, University of Texas at Austin, TX	2009
3 rd Annual Gulf States Harmful Algal Taxonomy Workshop, St. Petersburg, FL	2009
Coastal Ocean and Climate Change Workshop. Texas A&M University and Ocean University in Qingdao, China. Beijing, China	2008

SCIENTIFIC RESEARCH AND CRUISE EXPERIENCE

Total days at sea: 45 Total hours inland waters: >600

Galveston Bay – Water Quality and Phytoplankton Analysis - Texas A&M University at Galveston, TX
September 2008-present. Collecting samples in Galveston Bay onboard a SeaPro (24' center console) and the
R/V Phyto I (Trophy Pro 24' center console), R/V Milan or R/V Trident. Duties include: boat handling and
navigating, surface water collection, phytoplankton tows, collecting continuous water quality measurements
with a Dataflow system. Total boat hours: 436. PI: Dr. Antonietta Quigg, TAMUG

Hurricane Harvey Rapid Response Cruises Chief Scientist on 4 cruises throughout September, 2017 onboard
the Texas A&M University at Galveston R/V Trident. These cruises were conducted as a rapid response effort
following Hurricane Harvey. Surface water samples were collected for water quality, pollutants (including
PCBs and hydrocarbons), carbon analyses (TOC/DOC), virus, bacteria, phytoplankton and zooplankton
analyses.

Flower Gardens Rapid Response Cruise July 31-Aug 1 2016. Senior Scientist onboard the NOAA R/V Manta.
We traveled from Galveston, TX to the Flower Gardens Banks National Sanctuary in response to a reported
bleaching event on the East Bank. We had a crew of 9 scientists who performed water quality analysis,
collected samples for microbial processes, phytoplankton identification and carbon analyses.

Larval Billfish Distribution and Trophic Interactions in the Gulf of Mexico - Texas A&M University at
Galveston, TX August 2011 (5 days) Cruise focused on collecting larval billfish and phytoplankton in the Gulf
of Mexico aboard the R/V Blazing Sevens. PI: Dr. Jay Rooker, TAMUG

SCIENTIFIC RESEARCH AND CRUISE EXPERIENCE (cont)

Texas A&M University at Galveston, TX July 2009 (8 days) Cruise was focused on collecting larval billfish and phytoplankton in the Gulf of Mexico aboard the R/V Lady Bride. PI: Dr. Jay Rooker, TAMUG

Texas A&M University at Galveston, TX January 2007-September 2009. Research on invasive species of phytoplankton transported in ballast water. Collecting water samples, extracting DNA, conducting polymerase chain reaction, and denaturing gradient gel electrophoresis on various samples. Samples have been collected from all bay systems and major ports along the Texas coast. Ballast water samples have also been collected from various shipping entering the ports of Houston and Galveston. Duties included: Developed sampling design for all estuaries located along Texas coast. Vessels utilized include Boston Whaler 18' and Carolina Skiff 19'. Total boat hours: 30. PI: Dr. Antonietta Quigg, Dr. Robin Brinkmeyer

Environmental Protection Agency, Pensacola, TX April 2007 (7 days). Collected samples to monitor primary productivity in the Gulf of Mexico off of the coast of Louisiana. PI: Dr. Jim Hagy, EPA Gulf Breeze Division

NOAA Western Boundary Time Series Cruise - National Oceanographic and Atmospheric Administration (NOAA)/ Atlantic Oceanographic and Meteorological Laboratory (AOML) March – April 2007. (21 days) Assisting on an the Western Boundary Current Time Series cruise analyzing water samples for salts and conducting CTD casts aboard the NOAA R/V Ronald Brown. PI: Dr. Molly Baringer, NOAA/AOML

Texas A&M University at Galveston, TX January 2006 – June 2006. Assisted in research conducted at Lake Whitney located near Whitney, Texas. Monitored currents, temperature data and meteorology, collected water samples, conducted grain size analysis. The collected data was to assist Texas Parks and Wildlife department with a Golden algal bloom project. PI:Dr. Ayal Anis, Physical Oceanography.

Texas A&M University at Galveston, TX February 2005 (4 days). Research cruise aboard the R/V Gyre. Assisted in sample collection and processing for analysis of nutrients, chlorophyll *a*, particulate organic carbon, dissolved organic carbon and oxygen concentration (Winkler method). Water quality and current measurements were collected and analyzed. PI: Dr. Rainer Amon, Dr. Ayal Anis and Dr. Tim Dellapenna

CONFERENCE PROCEEDINGS

(O=oral, P=poster, *Graduate, Student, +Undergraduate Student)

- O **Steichen, J.L. 2024** (upcoming) First year experience course: Increasing student engagement with hands on learning and high impact practices both in and out of the classroom at the university level, National Marine Educators Association Boston, MA
- O **Steichen, J.L. 2023.** Incorporating high impact teaching practices in a first-year experience university level course. CERF, Portland, OR
- O **Steichen, J.L.,** Wilems, C., and Leo, J. **2023.** Virtual Coastal Watershed Education and Training Tools ASLO, Palma de Mallorca, Spain
- O **Steichen, J.L. 2021.** Implementing a hands-on 1st year experience course Marine Biology course in an online/hybrid environment. CERF (remote conference)
- P **Steichen, J.L.,** Windham, R., Booe, T., Lee, H.*, Lucchese, A.*, Williams, A., McAmis, A., McInnes, A., Dorado, S.*, Hillhouse, J., Kamalanathan, M, Claflin, N. and Quigg, A. **2020.** Role of freshwater inflows and nutrients on phytoplankton community composition in a subtropical estuary: Insights from a decade long study. Ocean Sciences Meeting, San Diego, CA.
- O **Steichen, J.L.,** Windham, R., Hala, D., Kaiser, K., Labonté, J. M., Setta, S.*, Kamalanathan, M., Bacosa, H., Bretherton, L., and Quigg, A. **2020.** Changes in the Water Quality and Microbial Community in Galveston Bay Following the Extreme Flooding Event Produced by Hurricane Harvey. State of the Bay, Galveston, TX

- O **Steichen, J.L.**, Windham, R., Hala, D., Kaiser, K., Labonté, J. M., Setta, S.*, Kamalanathan, M., Bacosa, H., Bretherton, L., and Quigg, A. **2019**. Changes in the microbial community of Galveston Bay following an extreme flooding event in the wake of Hurricane Harvey. Association for the Sciences of Limnology and Oceanography, San Juan, Puerto Rico

CONFERENCE PROCEEDINGS (cont)

- O **Steichen, J.L.**, McAmis, A and Quigg, A. **2018**. Benchtop operations of the IFCB Galveston Bay, TX. **2018**. Imaging FlowCytobot Workshop. Woods Hole Oceanographic Institute, Falmouth, MA.
- O **Steichen, J.L.**, Windham, R., Hala, D., Kaiser, K., Labonté, J. M., Setta, S. *, Kamalanathan, M., Bacosa, H., Bretherton, L., and Quigg, A. **2018**. Water Quality Variability in Galveston Bay, TX Following the Extreme Flooding Event Caused by Hurricane Harvey. Gulf Estuarine Society. Galveston, TX
- O **Steichen, J.L.**, Windham, R., Hala, D., Kaiser, K., Labonté, J. M., Setta, S. *, Kamalanathan, M., Bacosa, H., Bretherton, L., and Quigg, A. **2018**. Understanding impacts on ecological processes at the base of the food web after a major hurricane event: Hurricane Harvey and its disruption to Galveston Bay, Texas. Ecological Society of America. New Orleans, LA
- P **Steichen, J.L.**, Windham, R., Hala, D., Kaiser, K., Labonté, J. M., Petersen, L.H., Bacosa, H., Bretherton, L., Kamalanathan, M., Setta, S. * and Quigg, A. **2018**. Rapid physicochemical and biological assessment of Galveston bay in the wake of hurricane Harvey. The Ocean Sciences Meeting, Portland, OR
- O **Steichen, J.L.**, Gonzalez, L. and Quigg, A. **2017**. Coastal and Estuarine Research Federation. Providence, RI
- O **Steichen, J.L.**, Quigg, A., Joydeb Bhattacharyya, J., Roelke, D. **2017**. Relationships between inflows, nutrient loading, phytoplankton & dissolved oxygen in two bay systems of the western Gulf of Mexico: A numerical modeling study
- O **Steichen, J.L.**, Windham, R. and Quigg, A. **2017**. Hurricane Harvey – Effects on the Microbial Community in Galveston Bay. (Houston Galveston Area Council, Houston, TX)
- O **Steichen, J.L.** **2017**. Phytoplankton in an invisible watery world. Galveston SeaScout Base
- O **Steichen, J.L.** and Quigg, A. **2016**. Bioindicators of Freshwater inflows: Response to the Trinity River/San Jacinto River BBEST Recommendations. Galveston State of the Bay. Galveston, TX
- O **Steichen, J.L.** and Quigg, A. **2016**. Phytoplankton Biotic Index as an Indicator of Freshwater Inflow within a Subtropical Estuary. The Ocean Sciences Meeting. New Orleans, LA
- O **Steichen, J.L.** and Quigg, A. **2015**. Freshwater Bioindicators in Galveston Bay. Coastal and Estuarine Research Federation. Portland, OR.
- O **Steichen, J.L.***, Denby, A.⁺, Windham, R.,* Brinkmeyer, R., Quigg, A. **2012** *All Aboard! Next Stop: Galveston Bay! Examining the current dinoflagellate community and potential invaders being discharged via ballast water into Galveston Bay.* Invited to speak at the Gulf of Mexico Alliance Harmful Algal Bloom workgroup monthly meeting
- O **Steichen, J.L.***, Denby, A.⁺, Windham, R.,* Brinkmeyer, R., Quigg, A. **2012** *All Aboard! Next Stop: Galveston Bay! Examining the current dinoflagellates community and potential invaders being discharged via ballast water into Galveston Bay.* Galveston Bay Estuary Program, Research and Monitoring Meeting. Webster, Texas.
- O **Steichen, J.L.***, Denby, A.⁺, Windham, R.,* Brinkmeyer, R., Quigg, A. **2012** *Examining the dinoflagellate community in the high ballast water discharge environment of Galveston Bay.* Texas Harmful Algal Bloom Meeting. Galveston, Texas.
- O **Steichen, J.L.***, Denby, A.⁺, Brinkmeyer, R., Quigg, A. **2011**. *Ecosystem under pressure: Defining the dinoflagellate community in Galveston Bay, Texas (USA)* (Coastal and Estuarine Research Federation, Daytona, FL)
- P **Steichen, J.L.***, Quigg, A., Denby, A.⁺ and Brinkmeyer, R. **2011**. *A Tale of Two Ports: Dinoflagellate communities in the Port of Houston and the Port of Galveston, Texas USA* (Texas A&M University at Galveston, Student Research Symposium, Galveston, TX) Awarded 3rd place in Oceanography category.

- **Steichen, J.L.***, Quigg, A., Denby, A⁺ and Brinkmeyer, R. **2011**. *A Tale of Two Ports: Dinoflagellate communities in the Port of Houston and the Port of Galveston, Texas USA* (American Society of Limnology and Oceanography, San Juan, Puerto Rico)

CONFERENCE PROCEEDINGS (cont)

- P **Steichen, J.L.***, Neyland, E.* , Brinkmeyer, R. and Quigg, A. **2010**. *Transport of Foreign Phytoplankton into the Port Of Houston and Galveston Bay via Ballast Water* (Texas A&M University at Galveston Research Symposium; Galveston, TX)
- P **Steichen, J.L.***, Neyland, E.* , Brinkmeyer, R. and Quigg, A. **2010**. *Transport of Foreign Phytoplankton into the Port Of Houston and Galveston Bay via Ballast Water* (The Ocean Sciences Meeting; Portland, OR)
- O **Steichen, J.L.***, Neyland, E.* , Brinkmeyer, R. and Quigg, A. **2009** *Transport of foreign phytoplankton into the port of Houston and Galveston bay via ballast water* (Coasts and Estuaries Research Federation Meeting; Portland, OR)
- O **Steichen, J.L.***, Neyland, E.* , Brinkmeyer, R. and Quigg, A. **2009**. *Non-Indigenous Species of Phytoplankton Transported to the Texas Coast by Way of Ballast Water* (Ninth Biennial Galveston State of the Bay Symposium; Galveston, TX)
- O **Steichen, J.L.***, Neyland, E.* , Brinkmeyer, R. and Quigg, A. **2009**. *Impact of Invasive Species of Phytoplankton along the Texas Coast* (The Texas Academy of Science Meeting; Galveston, TX)
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