# JAMIE L. STEICHEN, PhD



Instructional Assistant Professor Texas A&M University at Galveston 1001 Texas Clipper Rd, OSCB #3029 Rm 241 Galveston, TX 77553



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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)	2013 - 2014
Departments of Biology and Geography	
Adjunct Faculty and Lab instructor	
Texas A&M University – College Station	2007 - 2008
Department of Oceanography	
Graduate Student Teachers Assistant – OCNG 251 Laboratory	
EDUCATION	
Ph.D. in Oceanography, Texas A&M University, College Station, TX	2013
Dissertation Title: Ecosystem Under Pressure: Examining the Phytoplankton	Community In
The High Ballast Water Discharge Environment of Galveston Bay, Texas (US	SA) 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)	2006
Associates of Fine Arts, Tarrant County College (Arlington, TX)	2003
FELLOWSHIPS	
Center for Teaching Innovation Fellow	2022
TAMUG 1973 Center Faculty Fellow and Alumni	2021-2022
Association of Colleges and University Educators (ACUE)	
Participating in a 25 weeklong Effective Teaching Course	2021-2022
TEACHING & MENTORING EXPERIENCE	
Texas A&M University at Galveston	
Succeeding in Science (MARB 101; avg 110 students)	<b>2018 – present</b>
Marine Biology/Science Seminar Series (Graduate course; 45 students)	<b>2021 – present</b>
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
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#### PROFESSIONAL DEVELOPMENT Association of Colleges and University Educators – Effective Teaching Certificate 2022 National Conference on Race and Ethnicity (NCORE) Attendee in a 5-day conference with workshops and presentations 2021 TAMU/G Service Allies by the Sea – Educator **2022** – present Student Success Initiative committee **2022** – present Honors Program Advisory committee **2021** – present 1973 Center Alumni program **2021 – present TAMUG Police Hiring Committee 2021 – present** TriBeta Faculty Adviser **2021** – present **2020** – **present** Anti-racism allyship workgroup Common Reader committee **2020** – present Faculty advisory committee **2020** – present **2020** – **present** Transformational Teaching and Learning Conference Program Committee Succeeding in Science Networking Reception (Organizer) 2018 - 2020Marine 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 Noah Claflin, M.S. in Marine Biology – committee member 2021-present Jessica Hillhouse, M.S. in Marine Biology – committee member 2020-present Christy Pittman, M.S. in Marine Biology – committee member 2021-present 2020-present Justin Tirpak, M.M.R. in Marine Resource Management – committee member TAMUG Undergraduate students mentored Emily Crain - MARB 484 Sponsor - Project: Moody Gardens Internship 2021 Bremmen Derry – MARB 484 Sponsor – Project: Moody Gardens 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 2019 - 2021 Dynamics Laboratory working on the Imaging Flow Cytobot Kayla Langhorne MARB 491 Undergraduate volunteer Phytoplankton 2019 - 2020Dynamics Laboratory working on the Imaging Flow Cytobot John Arnett MARB 491 Undergraduate volunteer Phytoplankton 2019 - 2020Dynamics Laboratory working on the Imaging Flow Cytobot Clarissa Solchaga – MARB 491 Undergraduate volunteer in the Phytoplankton 2019 - 2020Dynamics Laboratory working on the Imaging Flow Cytobot Rebecca Molina – MARB 491 Undergraduate volunteer Phytoplankton 2019 Dynamics Laboratory assisting with general lab duties Keilana Borja– MARB 491 Undergraduate volunteer in the Phytoplankton 2019

Dynamics Laboratory working on the Imaging Flow Cytobot	
Natasha Moment – MARB 484 Sponsor – Project: Internship with the Galveston	2019
Animal Clinic	
Emily Castillo – MARB 484 Sponsor – Project: Internship with the New Braunfels	2019
Utilities to monitor species diversity at the headwaters of the Comal River in	
response to concrete structure removal	
Sophia Niglio – MARB 484 Sponsor – Academic sponsor for internship at Dallas Zoo	2019
Leah Bogan – MARB 491 Undergraduate volunteer in the Phytoplankton Dynamics	2019
Laboratory working on the Imaging Flow Cytobot.	
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
Ashley Childs - MARB 491 Directed Study: Comprised harmful algal bloom fact sheets for	r
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
Micheal Bell Undergraduate Directed Study (MARB 491)	2007

# PEER REVIEWED PUBLICATIONS

- **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

### **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

#### **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 (undergrade Artist's Boat – Current Research in Galveston Bay: Fish, Phytoplankton and	uate)	2017		
ShipsOh My! Galveston, TX Galveston State of the Bay – Invasive Species Panel. Panama Canal expansion: implications for ballast water discharge in Galveston Bay, Galveston, TX. Nutrients in the Coastal Environment Lecture – Ecosystem Functions TAMUG (	graduate)	<ul><li>2016</li><li>2016</li><li>2016</li></ul>		
Trinity-San Jacinto Bays and Basin area Stakeholders Committee - Freshwater Bioindicators in Galveston Bay; San Jacinto River Authority, Conroe, TX Texas A&M University at Galveston – Marine Biology Seminar Series. Freshwa Bioindicators in Galveston Bay, Texas. Galveston, TX	ter	2015 2015		
		2013		
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	2000			
American Society of Limnology and Oceanography Coastal and Estuarine Research Federation	2009- <sub>1</sub> 2009- <sub>1</sub>	present present		
American Geophysical Union	2008	8-2012		
The Oceanography Society	200′	7-2012		
Community service				
Texas Harmful Algal Bloom work group  Galveston Bay Estuary Program Invasive species workgroup	2010 – p			
Galveston Bay Estuary Program – Invasive species workgroup	2015	-2020		
Galveston Bay Estuary Program – Invasive species workgroup Galveston Bay Estuary Program – Water and Sediment Quality Subcommittee Galveston Bay Estuary Program – Monitoring and Research Subcommittee	2015 - 2014 - 2014 -	- 2020 - 2019 - 2020		
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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 <sup>rd</sup> Annual Gulf States Harmful Algal Taxonomy Workshop, St. Petersberg, 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

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

# **ANALYTICAL SKILLS**

- Proficient in the multivariate ecological statistical program PRIMER-e + PERMANOVA TAMUG certified vessel operator 2011 2014 (560 vessel operating hours)
- Experience in collecting analyzing water samples for analysis of: Chlorophyll-*a*, DNA extraction, High Performance Liquid Chromatography for phytoplankton pigment analysis;
- Molecular Techniques: Polymerase chain reaction, Denaturing Gradient Gel Electrophoresis, DNA sequencing.
- Experience with various analytical instruments including: Imaging FlowCytobot Avant 3130 Genetic Analyzer, Turner Fluorometer, Fluorescence Induction and Relaxation (FIRe), PhytoPam, Ziess inverted microscope, filtration equipment; Beckman Coulter Flow Cytometer

# **CONFERENCE PROCEEDINGS**

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

- 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
- 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.<sup>+</sup>, 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<sup>+</sup>. 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 3<sup>rd</sup> place in Oceanography category.
- O **Steichen, J.L.\***, Quigg, A., Denby, A<sup>+</sup> 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)
- 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)
- P Steichen, J.L.\*, Neyland, E.\*, Brinkmeyer, R. and Quigg, A. 2009. Transportation of potentially invasive species of phytoplankton to Texas waters by way of ballast water (Texas A&M University at Galveston Research Symposium; Galveston, TX)
- P **Steichen, J.L.\***, Neyland, E.\*, Towers, N.\*, Brinkmeyer, R. and Quigg, A. **2008.** Survival of micro-organisms in ship's ballast water and their potential impact on Texas estuaries (Texas A&M University at Galveston Research Symposium; Galveston, TX)
- P **Steichen, J.L.\***, Neyland, E.\*, Towers, N.\*, Brinkmeyer, R. and Quigg, A. **2007.** Survival of micro-organisms in ship's ballast water and their potential impact on Texas estuaries (Texas A&M University at Galveston Research Symposium; Galveston, TX)

# CONFERENCE PROCEEDINGS: INCLUDED AS CO-AUTHOR

- O Windham, R., Berich, K., Booe, T., Bowers, K., Lee, H., Lucchese, A., McAmis, A., McInnes, A., **Steichen, J.** and Quigg, A. **2018.** Extreme weather effects on phytoplankton community composition in Galveston Bay, Texas: visualizing ecosystem response. Association of Limnology and Oceanography. San Juan, Puerto Rico.
- P McAmis, A., **Steichen, J.L.,** Quigg, A. **2018.** The effects of Hurricane Harvey on the phytoplankton community in Galveston Bay. Gulf Estuarine Society. Galveston, TX
- O Windham, R., Berich, K., Booe, T., Bowers, K., Lee, H., Lucchese, A.\*, McAmis, A., McInnes, A., **Steichen, J.** and Quigg, A. 2018. Extreme weather effects on phytoplankton community composition in Galveston Bay, Texas: visualizing ecosystem response. Gulf Estuarine Research Society Meeting, Galveston, TX. (Presentation)
- P Claflin, N.<sup>+</sup>, McAmis, A., Quigg, A. and **Steichen, J.L. 2018.** The Effects of Extreme Regional Flooding Events on the Phytoplankton Community within Galveston Bay, Texas. Texas A&M University at Galveston Research Symposium; Galveston, TX.
- O Windham, R., **Steichen, J.L.,** Williams, A. and Quigg, A. **2017**. Long-term spatiotemporal water quality in Galveston Bay, Texas: visualizing baseline ecosystem health for management. Coastal and Estuarine Research Federation. Providence, RI
- O Quigg, A., **Steichen, J.L**. and Windham, R. **2017.** Galveston Bay: changing land use patterns and nutrient loading. Causal or causal relationship with water quality, quantity, and patterns? (Houston Galveston Area Council, Houston, TX)
- P Windham, R., **Steichen, J.L.** Williams, A., Quigg, A. **2016.** Long-term spatiotemporal trends in surface water quality in Galveston Bay, Texas: applications for monitoring estuarine ecosystem dynamics. (Gulf Estuarine Research Society conference, Pensacola, Florida)
- O Preischel, H. Sosik, H.M., Lawrence, S., Lucchese, A., Genzer, J., **Steichen, J.L.** and Quigg, A. **2016.** Fine Scale Phytoplankton Diversity of Galveston Bay: Imaging FlowCytobot Provides Insight into Microbial Community Dynamics. The Ocean Sciences Meeting. New Orleans, LA
- O Quigg, A. and **Steichen, J.L. 2015.** Phytoplankton as Freshwater Bioindicators in Galveston Bay, Texas. Coastal and Estuarine Research Federation. Portland, OR.
- O Booe, T.\*, **Steichen, J.L.**\*, Windham, R., Dorado, S.\*, McInnes, A.\*, Jiang, Y., and Quigg, A. **2011.** *Coastal Urbanization Impacts on the Phytoplankton Community Composition in Galveston Bay, Texas, USA (*Coastal and Estuarine Research Federation, Daytona Beach, Florida)
- O Dorado, S.\*, Booe, T.\*, **Steichen, J.L.**\*, Windham, R., McInnes, A.\*, Jiang, Y., and Quigg, A. **2011.** *Variable phytoplankton community composition in response to freshwater inflow and nutrient addition in Galveston Bay, Texas, USA.* (Coastal and Estuarine Research Federation, Daytona Beach, Florida)
- O Quigg, A., Booe, T.\*, **Steichen, J.L.**\*, Windham, R., Dorado, S.\*, McInnes, A.\*, Jiang, Y., Pinckney, J., Davis, S. and Roelke, D. **2011.** *Phytoplankton community dynamics in Galveston Bay: importance of freshwater nutrient and sediment load.* (Coastal and Estuarine Research Federation, Daytona Beach, Florida)
- O Quigg, A., Booe, T.\*, **Steichen, J.L.**\*; Windham, R.; Dorado, S.\*; McInnes, A.\*; Jiang, Y. **2011.** *Influence of Nutrient Load on Phytoplankton Communities in Galveston Bay.* (American Society of Limnology and Oceanography, San Juan, Puerto Rico)
- P Booe, T.\*, **Steichen, J.L.**\*, Windham, R., Dorado, S.\*, McInnes, A.\*, Jiang, Y., and Quigg, A **2011.** *Influence of Freshwater Inflows on Spatial and Temporal Patterns of*

- Water Quality in Galveston Bay. (American Society of Limnology and Oceanography, San Juan, Puerto Rico)
- P Booe, T.\*, **Steichen, J.L.**\*, Windham, R., Dorado, S.\*, McInnes, A.\*, Jiang, Y. and Quigg, A. **2011.** *How Do Freshwater Inflows Affect Spatial and Temporal Patterns of Water Quality in Galveston Bay, Texas (USA)?* (Texas Bays and Estuaries Meeting, Port Aransas, Texas)
- P Dorado, S. \*, Booe, T. \*, **Steichen J.L.** \*, Windham, R., McInnes, A. \*, Jiang, Y., and Quigg, A. **2011**. Phytoplankton Community Composition Shifts in Response to Freshwater Inflow and Nutrient Addition in Galveston Bay, TX (Texas Bays and Estuaries Meeting, Port Aransas, Texas)
- P Booe, T.\*, **Steichen, J.L.**\*, Windham, R., Dorado, S.\*, McInnes, A.\*, Jiang, Y. and Quigg, A. **2011.** Influence of Freshwater Inflows on Spatial and Temporal Patterns of Water Quality in Galveston Bay. American Society of Limnology and Oceanography, San Juan, Puerto Rico.
- P Booe, T.\*, **Steichen, J.L.**\*, Windham, R., Dorado, S.\*, McInnes, A.\*, Jiang, Y. and Quigg, A. **2011.** How Do Freshwater Inflows Affect Spatial and Temporal Patterns of Water Quality in Galveston Bay, Texas (USA)? Texas A&M University at Galveston Research Symposium, Galveston, Texas.
- P Booe, T.\*, **Steichen, J.L.**\*, Windham, R., Dorado, S.\*, McInnes, A.\*, Jiang, Y. and Quigg, A. **2011.** How Do Freshwater Inflows Affect Spatial and Temporal Patterns of Water Quality in Galveston Bay, Texas (USA)? (Texas Bays and Estuaries Meeting, Port Aransas, Texas)