Dr. Scott C. Neubauer

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A. PROFESSIONAL PREPARATION

- University of Miami, B.S. 1994, Marine Science and Biology
- College of William and Mary, School of Marine Science, Virginia Institute of Marine Science, Ph.D. 2000, Marine Science. Advisors: I.C. Anderson and R.L. Wetzel
- Smithsonian Environmental Research Center and George Mason University, postdoctoral fellow, 2000-2003, Biogeochemistry and Microbial Ecology. Advisors: J.P. Megonigal and D. Emerson

B. APPOINTMENTS

- Assistant Professor, Virginia Commonwealth University, Department of Biology, Aug 2012 to present
- Assistant Director, University of South Carolina, Baruch Marine Field Laboratory, Aug 2004 to Jul 2012
- Research Assistant Professor, University of South Carolina, Aug 2004 to Jul 2012
- Visiting Assistant Professor, Villanova University, Department of Biology, Aug 2003 to May 2004

C. PUBLICATIONS [†Graduate student, ‡undergraduate student]

- 30 total publications
  - 22 peer-reviewed articles, 4 peer-reviewed book chapters, 4 non peer-reviewed items
- Google Scholar statistics: h-index = 17; i10-index = 21 (updated 12 Jun 2016)

30) Lee, D.Y., O.A. De Meo, A.L. Tillett‡, R.B. Thomas, S.C. Neubauer. accepted. Design and construction of an automated irrigation system for simulating saltwater intrusion in a tidal freshwater wetland. *Wetlands*, accepted June 2016.

29) Krauss, K.W., B.C. Perez, G.O. Holm Jr., D.E. McWhorter, N. Cormier, R.F. Moss, D.J. Johnson, S.C. Neubauer, R.C. Raynie. accepted. Component greenhouse gas fluxes and radiative forcing from degrading and healthy coastal deltaic marshes: Pairing chamber techniques and eddy covariance. *Journal of Geophysical Research – Biogeosciences*, accepted May 2016.

28) Morris, J.T., D.C. Barber, J. Callaway, R. Chambers, S.C. Hagen, C. Hopkinson, B.J. Johnson, J.P. Megonigal, S.C. Neubauer, T. Troxler, C. Wigand. 2016. Contributions of organic and inorganic matter to volume and accretion in tidal wetlands at steady state. *Earth's Future*. 4. doi: 10.1002/2015EF000334.

27) Herbert†, E.R., P. Boon, A.J. Burgin, S.C. Neubauer, R.B. Franklin, M. Ardón, K.N. Hopfensperger, L.P.M. Lamers, and P. Gell. 2015. A global perspective on wetland salinization: Ecological consequences of a growing threat to freshwater wetlands. *Ecosphere.* 6: Article 206. doi: 10.1890/ES14-00534.1.

26) Neubauer, S.C. and J.P. Megonigal. 2015. Moving beyond global warming potentials to quantify the climatic role of ecosystems. *Ecosystems*. 18:1000-1013. doi: 10.1007/s10021-015-9879-4.

25) Weston, N.B., S.C. Neubauer, D.J. Velinsky, and M.A. Vile. 2014. Net ecosystem carbon exchange and the greenhouse gas balance of tidal marshes along an estuarine salinity gradient. *Biogeochemistry*. 120:163-189. doi: 10.1007/s10533-014-9989-7.
24) Neubauer, S.C. 2014. On the challenges of modeling the net radiative forcing of wetlands: Reconsidering Mitsch et al. (2013). *Landscape Ecology*. 29:571-577. doi: 10.1007/s10980-014-9986-1.
23) Morrissey[†], E.M., D.J. Berrier, S.C. Neubauer, and R.B. Franklin. 2014. Using microbial communities and extracellular enzymes to link soil organic matter characteristics to greenhouse gas production in a tidal freshwater wetland. *Biogeochemistry*. 117:473-490. doi: 10.1007/s10533-013-9894-5.
22) Neubauer, S.C. 2013. Carbon sequestration in wetland soils: Importance, mechanisms, and future prospects. *Society of Wetland Scientists Research Brief*. Oct 2013-0001. 4 pp. *(not peer-reviewed)*
21) Neubauer, S.C. 2013. Carbon sequestration in wetland soils: Importance, mechanisms, and future prospects. *National Wetlands Newsletter.* Environmental Law Institute. vol. 35(5):12-14,25. Sep/Oct 2013. *(not peer-reviewed)*
20) Neubauer, S.C., R.B. Franklin, and D. J. Berrier. 2013. Saltwater intrusion into tidal freshwater marshes alters the biogeochemical processing of organic carbon. *Biogeosciences*. 10:8171-8183. doi: 10.5194/bg-10-8171-2013.
19) Neubauer, S.C. 2013. Ecosystem responses of a tidal freshwater marsh experiencing saltwater intrusion and altered hydrology. *Estuaries and Coasts.* 36:491-507 doi: 10.1007/s12237-011-9455-x.
18) Ribaudo[†], C., M. Bartoli, D. Longhi, S. Castaldi, S.C. Neubauer, and P. Viaroli. 2012. CO_2 and CH_4 fluxes across a *Nuphar lutea* (L.) Sm. stand. *Journal of Limnology*. 71:200-210 doi: 10.4081/mnol.2012.e21.
17) Weston, N.B., M.A. Vile, S.C. Neubauer, and D.J. Velinsky. 2011. Accelerated microbial organic matter mineralization following salt-water intrusion into tidal freshwater marsh soils. *Biogeochemistry.* 102:135-151.
16) Neubauer, S.C. 2010. Book review: Silliman, B.R., E.D. Grosholz, and M.D. Bertness (ed.) Human impacts on salt marshes: A global perspective. *Wetlands*. 30:173-175. *(not peer-reviewed)*
15) Megonigal, J.P. and S.C. Neubauer. 2009. Biogeochemistry of tidal freshwater wetlands. pp. 535-562 *in*: G. Perillo, E. Wolanski, D. Cahoon, M. Brinson (eds). *Coastal wetlands: An integrated ecosystem approach*. Elsevier.
14) Tobias, C.R. and S.C. Neubauer. 2009. Salt marsh biogeochemistry: An overview. pp. 445-492 *in*: G. Perillo, E. Wolanski, D. Cahoon, M. Brinson (eds). *Coastal wetlands: An integrated ecosystem approach*. Elsevier.
13) Neubauer, S.C. and C.B. Craft. 2009. Global change and tidal freshwater wetlands: Scenarios and impacts. pp. 253-266 *in*: A. Barendregt, D.F. Whigham, and A.H. Baldwin (eds). *Tidal freshwater wetlands*. Backhuys Publishers, Leiden, The Netherlands.
12) Neubauer, S.C. 2008. Contributions of mineral and organic components to tidal freshwater marsh accretion. *Estuarine, Coastal and Shelf Science*. 78:78-88.
11) Neubauer, S.C., D. Emerson, and J.P. Megonigal. 2008. Microbial oxidation and reduction of iron in the root zone and influences on metal mobility. pp 339-371 *in*: A. Violante, P.M. Huang, and G.M. Gadd (eds). *Biophysico-chemical processes of heavy metals and metalloids in soil environments*. John Wiley and Sons, Hoboken NJ.
10) Weiss, J.V., J. Rentz, S.C. Neubauer, M. Floyd, T. Lilburn, J.P. Megonigal, and D. Emerson. 2007. Characterization of neutrophilic Fe(II)-oxidizing bacteria isolated from

the wetland plant rhizosphere and description of *Ferritrophicum radicicola* gen. nov. sp. nov, and *Sideroxydans paludicola* sp. nov. *Geomicrobiology Journal*. 24:559-570.

9) Neubauer, S.C., G.E. Toledo-Durán‡, D. Emerson, and J.P. Megonigal. 2007. Returning to their roots: Iron-oxidizing bacteria enhance short-term plaque formation in the wetland-plant rhizosphere. *Geomicrobiology Journal*. 24:65-73.
8) Whigham, D.F., A. Barendregt, C.B. Craft, S.C. Neubauer. 2007. Climate change consequences for tidal freshwater wetlands at the east and west coast of the Atlantic. Proceedings of the 7th International Association of Landscape Ecology. Wageningen, The Netherlands. (*not peer reviewed*)
7) Neubauer, S.C., K. Givler, SK Valentine‡, and J.P. Megonigal. 2005. Seasonal patterns and plant-mediated controls of subsurface wetland biogeochemistry. *Ecology*. 86:3334-3344.
6) Neubauer, S.C., I.C. Anderson, and B.B. Neikirk. 2005. Nitrogen cycling and ecosystem exchanges in a Virginia tidal freshwater marsh. *Estuaries*. 28:909-922.
5) Neubauer, S.C. and I.C. Anderson. 2003. Transport of dissolved inorganic carbon from a tidal freshwater marsh to the York River estuary. *Limnology and Oceanography*. 48:299-307.
4) Neubauer, S.C., J.A. Constantine‡, I.C. Anderson, and S.A. Kuehl. 2002. Sediment deposition and accretion in a mid-Atlantic (U.S.A.) tidal freshwater marsh. *Estuarine, Coastal, and Shelf Science*. 54:713-727.
3) Neubauer, S.C., D. Emerson, and J.P. Megonigal. 2002. Life at the energetic edge: Kinetics of circumneutral iron oxidation by lithotrophic iron-oxidizing bacteria isolated from the wetland-plant rhizosphere. *Applied and Environmental Microbiology.* 68:3988-3995.
2) Miller†, W.D., S.C. Neubauer, and I.C. Anderson. 2001. Effects of sea-level induced disturbances on high salt marsh metabolism. *Estuaries*. 24:357-367.
1) Neubauer, S.C., W.D. Miller†, and I.C. Anderson. 2000. Carbon cycling in a tidal freshwater marsh ecosystem: a carbon gas flux study. *Marine Ecology Progress Series*. 199:13-31.

D. FUNDING

Summary statistics

Funder	# awards	$ to home institution	Total award
Totals	**13**	**$2,563K**	**$4,976K**
After Fall 2012 (while at VCU)	**6**	**$1,204K**	**$1,799K**
National Science Foundation	2	$851K	$1,446K
State of Virginia (HEETF)	3	$341K	$341K
VCU Rice Rivers Center	1	$12K	$12K
Before Fall 2012 (while at USC[1])	**7**	**$1,359K**	**$3,177K**
National Science Foundation[2]	4	$1,186K	$2,333K
Department of Energy	1	$122K	$122K
Environ. Protection Agency	1	$33K	$705K
University of South Carolina	1	$17K	$17K

[1] *USC = University of South Carolina*
[2] *Includes a LTREB award ($458K); Neubauer resigned as co-PI for that award upon moving to VCU.*

Proposal(s) in review

Stuart-Haentjens, E.J., S.C. Neubauer. and C.M. Gough [Dominion Higher Educational Partnership, submitted May 2016] *Training next generation environmental scientists: An open-access course for experiential education at the VCU Rice Rivers Center.*

Preliminary proposal(s) invited for full proposal

Neubauer, S.C., B.L. Brown, and R.B. Franklin [National Science Foundation – Ecosystems panel, submitted Jan 2016] *Preliminary Proposal: SG: The effects of saltwater intrusion on nitrogen cycling in tidal freshwater wetlands.* Full submission planned for Aug 2016.

Neubauer, S.C., I.C. Anderson, and B. Song [National Science Foundation – Ecosystems panel, submitted Jan 2015] *Preliminary Proposal: Collaborative Research: Microbial regulation of greenhouse gas production and oxidation in transitional tidal marshes: Responses to natural pulsing events.* Full proposal submission deferred to Aug 2016.

Funding awarded since coming to VCU (since Fall 2012)

13) Neubauer, S.C. and D.R. Young [Virginia Higher Education Equipment Trust Fund, **funded**, Dec 2015, $161,949] *HEETF request: LI-COR LI-6400XTE plant photosynthesis systems*.
12) Neubauer, S.C. and E.R Crawford [VCU Rice Rivers Center, **Funded**, Mar 2015, $12,072] *Surface elevation change at the Rice Rivers Center and other James River tidal wetlands: A proposal for assessing restoration success and marsh sustainability.*
11) Weston, N.B., C.B. Craft, J.T. Morris, and S.C. Neubauer. [National Science Foundation – Ecosystems panel, **Funded**, Mar 2015 – Feb 2018 (expected dates; award is being processed), $70,888 to VCU, $665,660 total] *Collaborative Research: RUI: Human alteration of sediment delivery to the coast – Legacies of land use, coastal wetland accretion, and future vulnerability to sea level rise.*
10) Franklin, R.B., S.C. Neubauer, and B.L. Brown [National Science Foundation – Ecosystems panel, **Funded**, Jul 2014 – Jun 2017, $780,000] *Climate change effects on coastal wetlands – Linking microbial community composition and ecosystem responses.*
9) Neubauer, S.C. and C.M. Gough [Virginia Higher Education Equipment Trust Fund, **Funded**, Dec 2013, $78,998] *HEETF request: Eddy covariance flux system*.
8) Neubauer, S.C. [Virginia Higher Education Equipment Trust Fund, **Funded**, Dec 2013, $100,464] *HEETF request: Dionex ICS-5000 ion chromatography system*.

Funding awarded prior to working at VCU (before Fall 2012)

7) Neubauer, S.C. and S.L. McCallister [National Science Foundation – Ecosystems panel, **Funded**, Jan 2012 – Feb 2017, $370,085 to USC, $866,285 total] *Collaborative Research: Impact of salt water intrusion on C storage in temperate tidal freshwater wetlands: Assessing the amount, age, and fate of mobilized C.*
6) Morris, J.T. and S.C. Neubauer [National Science Foundation – Long Term Research in Environmental Biology program, **Funded**, Jan 2011 – Dec 2015, $457,560] *LTREB: Long term studies of salt marsh primary production*. Note: Neubauer withdrew as PI due to move to VCU.
5) Neubauer, S.C. [Department of Energy - National Institute for Climate Change Research, **Funded**, Apr 2010 – Aug 2012, $122,246] *Salt-water intrusion into coastal freshwater wetlands: Effects on ecosystem metabolism and soil carbon and nutrient storage.*
4) Richardson, C.R., P.V. Sundareshwar, and S.C. Neubauer. [National Science Foundation – Ecosystems panel, **Funded**, Sept 2008 – Aug 2012, $284,545 to USC, $934,914 total] *Collaborative Research: Exploration of the mechanistic basis and biogeochemical implications of differential nutrient limitation among trophic levels*.

3) Neubauer, S.C. [University of South Carolina Office of Research and Health Sciences Research Funding Program. **Funded**, Apr 2007 – Dec 2008, $17,000] *Understanding the effects of sea level rise on coastal freshwater wetlands*.
2) Smith, E.M., S.C. Neubauer, and D.M. Allen. [National Science Foundation – Field Stations and Marine Laboratories program, DBI-0533504. **Funded**. Sep 2005 – Aug 2007. $73,771] *Improving and expanding organic carbon and nitrogen analyses at the Baruch Marine Field Laboratory.*
1) Vile, M.A., D.J. Velinsky, and S.C. Neubauer. [U.S. Environmental Protection Agency – Science to Achieve Results (EPA-STAR). **Funded**. May 2005 – Aug 2008. $33,313 to USC, $705,211 total] *Linking impacts of climate change to carbon and phosphorus dynamics along a salinity gradient in tidal marshes*.

E. TEACHING EXPERIENCE

At Virginia Commonwealth University

- *Global Change Biology*, BIOL 335, 3 credits
  - Spring 2014, Fall 2014, Fall 2015, Fall 2016 (scheduled)
- *Special Topics: Biogeochemistry*, BIOL 691, 3 credits
  - Fall 2013, Spring 2015
- *Quantitative Biology*, BIOL 200, 3 credits
  - Spring 2016
- *Capstone: Climate Change Science*, BIOL 475, 1 credit
  - Fall 2013
- *Current Topics: Stable Isotopes in Ecology,* BIOL 693 graduate seminar, 1 credit
  - Spring 2013
- Guest lecture in *Carbon Capstone Partnership Service Learning*, BIOL 495
  - Spring 2013
- Guest lecture in *Aquatic Ecology*, BIOL 307
  - Fall 2014
- Guest lecture in *Integrative Life Science Research*, LFSC 301
  - Fall 2014

Webinars

- Society of Wetland Scientists webinar series, *"Moving beyond global warming potentials to quantify the climatic role of wetlands"*
  - October 2015

At Villanova University

- *Introductory Ecology* (undergraduate), BIOL 3255, 4 credits, classroom and laboratory, team-taught with R. Curry
  - Fall 2003
- *General Biology* laboratory – Honors (undergraduate), BIOL 2106
  - Spring 2004

At Virginia Institute of Marine Science

- *Coastal and Estuarine Processes and Issues* (graduate), graduate teaching assistant
  - Spring 1998

F. ADVISING AND MENTORING

- Postdoc advisor [2]
  - Lee, D.Y., Virginia Commonwealth University, Fall 2014 to present.

- Giannopoulos, G., Virginia Commonwealth University, Summer 2015 to present (Rima Franklin is primary mentor, Neubauer is secondary mentor).

- Graduate student advisor [1 Ph.D. student, 3 Masters students]

  Graduate studies in progress

  - Berrier, D.J., co-advising with Rima Franklin, M.S. Biology program, Virginia Commonwealth University, Fall 2014 to present.
  - Stuart-Haentjens, E.J., co-advising with Chris Gough, Ph.D. Integrative Life Sciences program, Virginia Commonwealth University, Fall 2015 to present.
  - Burton, K. Master of Environmental Studies program, Center for Environmental Studies, Virginia Commonwealth University, Spring 2016 to present. (non-thesis program, but Ms. Burton is conducting a research project and I am mentoring her)

  Student has graduated

  - Gillespie, J., co-advised with Rima Franklin, M.S. Biology 2013, Virginia Commonwealth University, 2011 to 2013

- Graduate student committee member [6 Ph.D. students, 9 M.S. students]

  Graduate studies in progress

  - Dang, C., M.S. program, VCU, 2014 to present
  - Lopez, R. M.S. program in Environmental Studies, VCU, 2016 to present
  - Morina, J., M.S. program in Biology, VCU, 2014 to present
  - Reese, J., M.S. program in Biology, VCU, 2014 to present
  - Tassone, S., M.S. program in Biology, VCU, 2014 to present
  - Via, S., Ph.D. program in Integrative Life Sciences, VCU, 2012 to present

  Student has graduated

  - Schmid, A., M.S. 2015, Virginia Commonwealth University, 2013 to 2015
  - Gautam, S., Ph.D. 2015, South Dakota School of Mines & Techn., 2010 to 2015
  - Dunlap, T., M.S. 2014, Virginia Commonwealth University, 2012 to 2014
  - Tucker, A., M.S. 2014, Virginia Commonwealth University, 2012 to 2014
  - Morrissey, E., Ph.D. 2013, Virginia Commonwealth University, 2010 to 2013
  - Sutter, L.A., Ph.D. 2013, Virginia Institute of Marine Science, 2009 to 2013
  - Koren, L.M., M.S. 2009, Virginia Commonwealth University, 2007 to 2009
  - Jenkins, A., Ph.D. program, Virginia Commonwealth University, (withdrew)
  - Ward, R., Ph.D. program, Virginia Commonwealth University, (withdrew)

- Hosted Ph.D. student (C. Ribaudo) from University of Parma, Italy, summer 2010

- Undergraduate research supervisor [11 trainees, resulting in 3 co-authored publications]
  - Dale, C. Virginia Commonwealth University, Summer 2016
  - Schirmer, D. Virginia Commonwealth University, Summer 2016
  - Tillett, A., Virginia Commonwealth University, Summer 2015
  - Patel, N., Virginia Commonwealth University, Fall 2014
  - Gillespie, J., Virginia Commonwealth University, Summer 2011
  - Stewart, S., University of South Carolina, Summer 2011
  - Dzuris, G., Wofford College, Summer 2005
  - Toledo-Duran, G.E., University of Puerto Rico, Arecibo, Summer 2003
  - Valentine, SK., Warren Wilson College, Summer 2002
  - Maltese, J., Harvard University, Summer 2002
  - Constantine, J.A., College of William and Mary, 1998-1999

- Mentor, Smithsonian Institution-Louis Stokes Alliance for Minority Participation, sum. 2003

- National Science Foundation Mentor; Research Experience for Undergraduates, summer 1998, 2002
- MentorNet participant, e-mail based undergraduate student mentoring, 2002/03

G. INFORMAL TEACHING AND OUTREACH ACTIVITIES

- walk-and-talk presentation during the *Local Habitat, Global Impact* public excursion to the Rice Rivers Center as part of the Forecast art exhibit at VCU's Anderson Gallery.
- Orientation/instruction of multiple visiting college/university classes at Baruch Marine Field Laboratory (SC), 2004 to 2012
- Speaker/participant at Centers for Ocean Sciences Education Excellence's (COSEE) Ocean Sciences Leadership Institutes, 2005 and 2009. Professional development opportunity for educators to interact with regional scientists
- Science judge & moderator, National Ocean Science Bowl regional competitions, 2005-08
- Earth Day classroom activities, McDonald Elementary School, Georgetown SC [2007, 2008], Lowcountry Preparatory School, Pawleys Island SC [2009]
- Speaker, Environmental Club meeting, Lowcountry Preparatory School, November 2009
- Wetland presentation at staff meeting, Brookgreen Gardens, Murrells Inlet SC, Aug 2008
- Speaker at Friday morning chapel assembly, Lowcountry Preparatory School, Oct 2006
- Field lab liason, Carolina Master Scholars Adventures in Marine Science program, summer 2006. Field/lab/classroom experience for middle-school children

H. DEPARTMENTAL SERVICE

- Undergraduate Curriculum Committee, fall 2015 to present
- Third-year review committee, Mr. Jonathan Moore, fall 2015
- Graduate Academic Committee, fall 2012 to summer 2015
- Rice Rivers Center overnight lodge planning committee, spring 2015
- Quantitative Biology Syllabus Committee, spring 2014
- Member of VCU delegation to University of Cordoba (Spain), summer 2014
- Libation Council, fall 2013 to present

I. PROFESSIONAL SERVICE

- Associate Editor, *Wetlands*, 2008-present
- Associate Editor, *Estuaries and Coasts*, 2011-present
- Member, U.S. Coastal Wetlands Carbon Working Group, 2015-present. Goal of the group is to incorporate coastal wetlands into the annual U.S. national greenhouse gas inventory in time for the 2017 inventory submission. Participated in meetings (Jul 2015, Feb 2016) to discuss relevant databases and knowledge gaps for the inventory process. Provided data that will be included in white paper outlining how coastal wetlands can be included in the national greenhouse gas inventory.
- Chair, Society of Wetland Scientists Biogeochemistry section, 2009-2010 [Chair-elect, 2008-2009 and Past-chair, 2010-2011]
- Expert reviewer for Climate Change Vulnerability Assessment Tool for Coastal Habitats; reviewed initial draft of guidance document (July 2013) and participated as a topical expert in a case study workshop (June 2014)
- Expert reviewer for NOAA's *Returning the Tide: A Tidal Hydrology Restoration Guidance Manual for the Southeastern U.S.* (document reviewed in September 2008)

- Organizing committee, American Geophysical Union Chapman Conference on *Hydrogeomorphic feedbacks and sea level rise in tidal freshwater river ecosystems* (November 2012)
- Symposium/session organizer:
  - *Greenhouse gas fluxes from salt marshes in changing environments*. 2013 Coastal and Estuarine Research Federation 22nd Biennial Conference. co-organized with Serena Moseman-Valtierra (merged with another contributed session and did not end up as a distinct session in the final conference program).
  - *Salinization of freshwater wetlands: Implications for biogeochemistry, plant communities, and ecosystem dynamics.* 2012 INTECOL Wetlands Conference, Society of Wetland Scientists 33rd Annual Meeting and 13th International Symposium on Wetland Biogeochemistry. co-organized with Amy J. Burgin. [12 speakers]
  - *Measurement of greenhouse gas emissions from wetlands: Which techniques should we use and how do they compare?* 2012 INTECOL Wetlands Conference, Society of Wetland Scientists 33rd Annual Meeting and 13th International Symposium on Wetland Biogeochemistry. co-organized with Ken W. Krauss and Stephen P. Faulkner. [12 speakers]
  - *Nutrient limitation in wetlands: Concepts and indicators.* 2011 Society of Wetland Scientists 32nd Annual Meeting, 12th International Symposium on Wetland Biogeochemistry, and WETPOL. organized with P.V. Sundareshwar. [6 speakers]
  - *Wetlands: Greenhouse gas sources or sinks?* 2010 Society of Wetland Scientists 31st Annual Meeting. organized with Dale Vitt and Scott Luchessa. [8 speakers]
  - *Hydrology, geomorphology, and ecology of tidal freshwater zones; or, What happens in rivers when water flows upstream?* 2010 American Society of Limnology and Oceanography & North American Benthological Society, Summer Meeting. co-organized with Scott H. Ensign. [12 speakers]
  - *Environmental change and the biogeochemistry of tidal freshwater wetlands*. 2009 Society of Wetland Scientists 30th Annual Meeting and 11th International Symposium on Wetland Biogeochemistry. [9 speakers]
- Manuscript Reviewer [>100 reviews since 2005] for *AoB PLANTS; Aquatic Botany; Aquatic Microbial Ecology; Atmospheric Environment; Biogeochemistry; Chemosphere; Conservation Biology; Continental Shelf Research; Ecological Applications; Ecological Engineering; Ecological Modeling; Ecology; Ecosystems; Estuarine, Coastal and Shelf Science; Estuaries and Coasts; Frontiers in Ecology and the Environment; Geochemistry, Geophysics, Geosystems; Geomicrobiology Journal; Global Change Biology; Journal of Coastal Research; Journal of Environmental Quality; Journal of Geophysical Research – Biogeosciences; Limnology and Oceanography; Marine Chemistry; Marine Ecology Progress Series; Plant and Soil; Science of the Total Environment; Soil Science Society of America Journal; South Carolina Water Resources Conference; Water, Air and Soil Pollution: Focus; Wetlands; Wetlands Ecology and Management*
- Proposal Reviewer [~40 reviews since 2005] for Carolina Integrated Sciences and Assessment, Florida Bay Program, Georgia Sea Grant, Louisiana Sea Grant, Maryland Sea Grant, MIT Sea Grant, National Estuarine Research Reserve program, National Oceanic and Atmospheric Administration, National Science Foundation, North Carolina Sea Grant, Portuguese Foundation for Science and Technology, Society of Wetland Scientists student grant program, Swiss National Science Foundation, Texas Sea Grant, Wisconsin Sea Grant, Woods Hole Sea Grant

J. MEDIA COVERAGE

- VCU News. May 2016. "Measuring flux: New meteorological tower at the Rice Rivers Center gives researchers the big picture on environment and climate change." Coverage of eddy covariance flux tower at Rice Rivers Center. (*https://news.vcu.edu/article/Measuring_flux_New_meteorological_tower_at_the_Rice_Rivers_Center*)
- VCU News. April 2016. "Biology researchers connect elementary school students with climate change, wetlands." Coverage of outreach activities associated with Franklin, Neubauer, and Brown NSF project. (*https://news.vcu.edu/article/Biology_researchers_connect_elementary_school_students_with_climate*)
- Smithsonian Environmental Research Center *Shorelines* blog. November 2015. "Methane packs more punch than we thought. But so does getting rid of it." Coverage of Neubauer and Megonigal. 2015. *Ecosystems*. *(http://sercblog.si.edu/?p=6812*)
- VCU Rice Center blog. August 2015. "Carbon flux tower installed and readying for action." Coverage of eddy flux tower in Kimages Creek wetland. *(http://www.vcu.edu/rice/blog/2015/08/carbonflux.html*)
- VCU News. July 2015. "Troubled waters: VCU researchers are studying the impact of saltwater intrusion on tidal wetlands." Coverage of Franklin, Neubauer, and Brown NSF project. (*https://news.vcu.edu/article/Troubled_waters*)
  - featured on vcu.edu homepage
- VCU News. June 2015. "Researcher proposes new ways to calculate ecosystem impacts on climate." Coverage of Neubauer and Megonigal. 2015. *Ecosystems*. (*http://news.vcu.edu/faculty-and-staff/Researcher_proposes_new_ways_to_calculate_ecosystem_impacts_on*)
  - reposted at Phys.org
- Coastal and Estuarine Science News. January 2012. "Sea level rise could bring more salt, more water, or both to tidal freshwater marshes. How will they respond?" Coverage of Neubauer. 2013. *Estuaries and Coasts*.

K. CONFERENCE PRESENTATIONS [16 INVITED, 12 CONTRIBUTED, 36 AS NON-PRESENTING COAUTHOR SINCE 2005]

67) Neubauer, S.C., D.Y. Lee, O.A. De Meo. 2016. "Saltwater intrusion alters carbon cycling in tidal freshwater marshes: Results from *in situ* manipulations in Virginia and South Carolina, USA**."** 10th INTECOL International Wetlands Conference. Changshu, China. September 2016. **Invited** presentation.

66) Franklin, R.B., E.M. Morrissey, S.C. Neubauer. 2016. "Linking microbial ecology and soil biogeochemistry in tidal freshwater wetlands experiencing climate change." 101st Annual Meeting of the Ecological Society of America, Fort Lauderdale, FL. August 2016. Non-presenting coauthor.

65) Giannopoulos, G., D.Y. Lee, B.L. Brown, S.C. Neubauer, R.B. Franklin. 2016. "Effects of a salinity gradient shaping the microbial community across a freshwater tidal ecosystem." 101st Annual Meeting of the Ecological Society of America, Fort Lauderdale, FL. August 2016. Non-presenting coauthor.

64) Neubauer, S.C., D.Y. Lee, O.A. De Meo, G. Giannopoulos, B.L. Brown, R.B. Franklin. "Tidal freshwater marsh carbon cycling responses to saltwater intrusion: Results from *in situ* manipulations in Virginia and South Carolina" Annual Meeting of the Society of Wetland Scientists, Corpus Christi, TX. May–June 2016. **Invited** presentation.

63) Lee, D.Y., G. Giannopoulos, O.A. De Meo, B.L. Brown, R.B. Franklin, S.C. Neubauer. "Saltwater intrusion into tidal freshwater wetlands: Differing soil respiration in anoxic sediments between an existing salinity gradient and short-term manipulative studies."

Annual Meeting of the Society of Wetland Scientists, Corpus Christi, TX. May–June 2016. Non-presenting coauthor.

62) Lee, D.Y., G. Giannopoulos, O.A. De Meo, B.L. Brown, R.B. Franklin, S.C. Neubauer. 2016. "How to build simple and affordable electronic devices for biologists." 8th Annual VCU Rice Center Research Symposium, Charles City, Virginia. May 2016. Non-presenting co-author.

61) Dang, C., S.C. Neubauer, R.B. Franklin. 2016. "Assessing the effect of saltwater intrusion on the structure and function of microbial communities in tidal freshwater wetlands." 8th Annual VCU Rice Center Research Symposium, Charles City, Virginia. May 2016. Non-presenting co-author.

60) Stuart-Haentjens, E.J., S.C. Neubauer, C.M. Gough. 2016. "Measuring eddy fluxes of a temperate tidal freshwater restored wetland." 8th Annual VCU Rice Center Research Symposium, Charles City, Virginia. May 2016. Non-presenting co-author.

59) Berrier, D.J., R.B. Franklin, S.C. Neubauer. 2016. "The effect of sulfate reducing bacteria activity on methanogenic syntrophic butyrate degradation." 8th Annual VCU Rice Center Research Symposium, Charles City, Virginia. May 2016. Non-presenting co-author.

58) Neubauer, S.C, D.Y. Lee, O.A. De Meo, A. Tillett, B.L. Brown, S.C. Neubauer. 2015. "Ecosystem carbon cycling and vegetation in a tidal freshwater marsh: Responses to persistent saltwater intrusion." Coastal and Estuarine Research Federation 22st Biennial Conference. Portland, OR. November 2015. **Contributed** presentation.

57) Lee, D.Y., O.A. De Meo, B.L. Brown, R.B. Franklin, and S.C. Neubauer 2015. "Impacts of saltwater on microbial carbon dynamics in tidal freshwater wetlands." Coastal and Estuarine Research Federation 22st Biennial Conference. Portland, OR. November 2015. Non-presenting coauthor.

56) Hartman, W., N.B. Weston, M. Ardón, E. Bernhardt, S.C. Neubauer, S. Theroux, S. Tringe. "Is methane flux response to salinity in coastal marshes mediated by interactions with nitrogen cycling?" Coastal and Estuarine Research Federation 22st Biennial Conference. Portland, OR. November 2015. Non-presenting coauthor.

55) Herbert, E.R., P. Boon, A.J. Burgin, S.C. Neubauer, R.B. Franklin, M. Ardón, K.N. Hopfensperger, L.P.M. Lamers, and P. Gell. 2015. "A global perspective on wetland salinization: Ecological consequences of a growing threat to freshwater wetlands." Coastal and Estuarine Research Federation 22st Biennial Conference. Portland, OR. November 2015. Non-presenting coauthor.

54) Giannopoulos, G., D.Y. Lee, O.A. De Meo, S.C. Neubauer, B.L. Brown, R.B. Franklin. 2015. "Salinity effects in soil microbial communities, enzyme activity and carbon biogeochemistry in tidal freshwater wetlands." 7th Annual Argonne Soil Metagenomics Meeting, Lisle, IL. October 2015. Non-presenting co-author.

53) Neubauer, S.C. 2015. "Tidal wetlands, carbon, and climate." 75th Anniversary Symposium, Virginia Institute of Marine Science, Gloucester Point, VA. October 2015. **Invited** presentation.

52) Neubauer, S.C. 2015. "How does saltwater intrusion affect tidal freshwater wetlands? - A consideration of experimental approaches" 100th Annual Meeting of the Ecological Society of America, Baltimore, MD. August 2015. **Invited** presentation.

51) Lee, D.Y., O.A. De Meo, B.L. Brown, R.B. Franklin, and S.C. Neubauer. 2015. "Sea level rise and saltwater intrusion affect soil microbial communities and carbon biogeochemistry in tidal freshwater wetlands" 100th Annual Meeting of the Ecological Society of America, Baltimore, MD. August 2015. Non-presenting coauthor.

50) Berrier, D.J., S.C. Neubauer, and R.B. Franklin. 2015. "Assessing how disruption of the methanogenic community and their syntrophic relationships in tidal freshwater marshes

via saltwater intrusion may affect CH_4 emissions" 100th Annual Meeting of the Ecological Society of America, Baltimore, MD. August 2015. Non-presenting coauthor.

49) Dang, C., S.C. Neubauer, and R.B. Franklin. 2015. "Assessing the effect of saltwater intrusion on the structure and function of microbial communities in tidal freshwater wetlands" 100th Annual Meeting of the Ecological Society of America, Baltimore, MD. August 2015. Non-presenting coauthor.

48) Neubauer, S.C. 2015. "How does saltwater intrusion affect tidal freshwater wetlands? - A consideration of experimental approaches" Annual Meeting of the Society of Wetland Scientists, Providence, RI. June 2015. **Contributed** presentation.

47) Richardson, C.R., H. Wang, N. Flanagan, M. Ho, S.C. Neubauer. 2015. "Carbon sequestration and GHG losses under altered hydrologic regimes in coastal peatlands in North Carolina." Annual Meeting of the Society of Wetland Scientists, Providence, RI. June 2015. Non-presenting coauthor.

46) Neubauer, S.C. and J.P. Megonigal. 2014. "Determining the climatic role of wetland and shallow freshwater ecosystems: Are we misusing global warming potentials?" Joint Aquatic Sciences Meeting, Portland, OR. May 2014. **Invited** presentation.

45) Neubauer, S.C. and C.M. Gough. 2014. "Tower carbon flux measurements in the restored Rice Rivers Center wetland: A new resource for collaborative research and teaching" 6th Annual VCU Rice Center Research Symposium, Charles City, Virginia. May 2014. **Contributed** presentation.

44) Neubauer, S.C., R.B. Franklin, and D.J. Berrier. 2013. "Saltwater intrusion into tidal freshwater marshes alters greenhouse gas production and emissions to the atmosphere." Coastal and Estuarine Research Federation 21st Biennial Conference. San Diego, CA. November 2013. **Contributed** presentation.

43) Gautam, S., P.V. Sundareshwar, L.A. Kunza, S.C. Neubauer, and C.J. Richardson. 2013. "Interactions between litter and soil nutrients in leaf litter decomposition of coastal wetlands. Coastal and Estuarine Research Federation 22nd Biennial Conference. San Diego, CA. November 2013. Non-presenting coauthor.

42) Neubauer, S.C. 2013 "Saltwater intrusion effects on soil carbon cycling across a diversity of tidal freshwater wetlands." Annual Meeting of the Society of Wetland Scientists, Duluth, MN. June 2013. **Invited** presentation *(cancelled due to illness)*.

41) Gautam, S. P.V. Sundareshwar, S.C. Neubauer, and C.J. Richardson. 2013 "Short-term litter decomposition in coastal wetlands." Annual Meeting of the Society of Wetland Scientists, Duluth, MN. June 2013. Non-presenting co-author.

40) Gillespie, J.L., S.C. Neubauer, and R.B. Franklin. 2013. "The impacts of rising salinity on methanogen community abundance and structure." Annual Meeting of the Society of Wetland Scientists, Duluth, MN. June 2013. Non-presenting coauthor.

39) Gillespie, J.L., J.M. Battistelli, S.C. Neubauer, and R.B. Franklin. 2013. "The impacts of rising salinity on methanogen community abundance and structure." 5th Annual VCU Rice Center Research Symposium, Charles City, Virginia. May 2013. Non-presenting coauthor.

38) Morrisey, E.M., D.J. Berrier, S.C. Neubauer, and R.B. Franklin. 2013. "Using microbial communities and extracellular enzymes to link soil organic matter characteristics to greenhouse gas production in a tidal freshwater wetland." 5th Annual VCU Rice Center Research Symposium, Charles City, Virginia. May 2013. Non-presenting coauthor. *** Received "Best Poster" Award from the VCU Chapter of Sigma Xi ***

37) Neubauer, S.C. "Ecological effects of saltwater intrusion into freshwater coastal wetlands." Center for the Study of Biological Complexity's 10th Annual Research Review. Richmond, VA. December 2012. **Invited** presentation.

36) Neubauer, SC. 2012. “Environmental controls on biogeochemical processes and responses to disturbance in tidal freshwater marshes.” American Geophysical Union Chapman Conference on *Hydrogeomorphic feedbacks and sea level rise in tidal freshwater river ecosystems.* Reston, VA. November 2012. **Invited** presentation.
35) Neubauer S.C.. 2012. “Contributions of mineral and organic components to tidal marsh accretion.” Blue Carbon Initiative's Scientific Working Group's fourth workshop. Annapolis, MD. October 2012. **Invited** presentation.
34) Neubauer, S.C., R.B. Franklin, M.F. Piehler. 2012. “Saltwater intrusion into tidal freshwater marshes initiates change across multiple levels of ecological organization.” 9th INTECOL International Wetlands Conference. Orlando, FL, June 2012. **Invited** presentation.
33) Berrier, D.J., R.B. Franklin, J.M. Battestelli, and S.C. Neubauer. “The effect of saltwater intrusion on microbial community structure and function in a tidal freshwater marsh.” 9th INTECOL International Wetlands Conference. Orlando, FL, June 2012. Non-presenting coauthor.
32) Hartman, W.H., C.J. Richardson, S.C. Neubauer, and P.V. Sundareshwar. “Microbial community responses to nutrient enrichment in wetland soils.” 9th INTECOL International Wetlands Conference. Orlando, FL, June 2012. Non-presenting coauthor.
31) Gillespie, J.L., R.B. Franklin, and S.C. Neubauer. 2012. *Changes in methane fluxes of tidal wetlands along a naturally occurring salinity gradient in the James River.* Annual Meeting of the Mid-Atlantic Chapter of the Ecological Society of America, Blacksburg, Virginia. May 2012. Non-presenting coauthor.
30) Gillespie, J.L., J.M. Battistelli, R.B. Franklin, and S.C. Neubauer, 2012. “Methane flux rates in tidal marshes along the salinity gradient of the James and Waccamaw Rivers in VA and SC.” 4th Annual VCU Rice Center Research Symposium, Charles City, Virginia. May 2012. Non-presenting coauthor.
29) Neubauer, S.C., L.A. Sutter†, and A. Rotella. “Ecosystem carbon fixation regulated by tidal freshwater marsh plant responses to environmental disturbance.” Coastal and Estuarine Research Federation 21st Biennial Conference. Daytona Beach, FL. November 2011. **Contributed** presentation.
28) Neubauer, S.C., C.J. Richardson, and P.V. Sundareshwar. 2011. “Nutrient limitation in tidal marshes: Responses across physiological, biomass, and ecosystem scales.” Society of Wetland Scientists 32nd Annual Meeting, 12th International Symposium on Wetland Biogeochemistry, and WETPOL. Prague, Czech Republic. July 2011. **Invited** presentation.
27) Sundareshwar, P.V., S.C. Neubauer, C.J. Richardson, J.T. Morris, E. Koepfler, S. Gautam, and M. Abessa. “Differential nutrient limitation (DNL): Developing a theoretical framework for an emerging ecological paradigm regulating carbon flow in ecosystems.” Society of Wetland Scientists 32nd Annual Meeting, 12th International Symposium on Wetland Biogeochemistry, and WETPOL. Prague, Czech Republic. July 2011. Non-presenting coauthor.
26) Gautam, S., P.V. Sundareshwar, C.J. Richardson, and S.C. Neubauer. “Extracellular enzyme activities as an indicator of microbial nutrient demand in coastal wetlands.” Society of Wetland Scientists 32nd Annual Meeting, 12th International Symposium on Wetland Biogeochemistry, and WETPOL. Prague, Czech Republic. July 2011. Non-presenting coauthor.
25) Sundareshwar, P.V., S.C. Neubauer, C.J. Richardson, J.T. Morris, E. Koepfler, S. Gautam, and M. Abessa. “Differential nutrient limitation (DNL): Developing a theoretical framework for an emerging ecological paradigm regulating carbon flow in ecosystems.”

American Society of Limnology and Oceanography. San Juan, Puerto Rico. February 2011. Non-presenting coauthor.

24) Neubauer, S.C. "Developing carbon dioxide and methane budgets for tidal freshwater marshes under current and future environmental conditions." Society of Wetland Scientists 31st Annual Meeting. Salt Lake City, UT. July 2010. **Invited** presentation.
23) Weston, N.B., M.A. Vile, S.C. Neubauer, and D.J. Velinsky. "Accelerated microbial organic matter mineralization following salt-water intrusion into tidal freshwater marsh soils." Society of Wetland Scientists 31st Annual Meeting. Salt Lake City, UT. July 2010. Non-presenting coauthor.
22) Neubauer, S.C. "Ecosystem carbon cycling in a tidal freshwater marsh: Differential responses to changing hydrology and salt-water intrusion." American Society of Limnology and Oceanography & North American Benthological Society, Summer Meeting. Santa Fe, NM. June 2010. **Invited** presentation.
21) Neubauer, S.C. "Salt-water intrusion and ecosystem-level carbon exchanges in an organic-rich tidal freshwater marsh." Coastal and Estuarine Research Federation 20th Biennial Conference. Portland, OR. November 2009. **Invited** presentation.
20) Weston, N.B., M.A. Vile, S.C. Neubauer, and D.J. Velinsky. "Sea level rise and salt-water intrusion limit vertical accretion potential in tidal freshwater marshes of the Delaware River Estuary." Coastal and Estuarine Research Federation 20th Biennial Conference. Portland, OR. November 2009. Non-presenting coauthor.
19) Neubauer, S.C. "The effects of salt-water intrusion on ecosystem-level C exchanges in a coastal freshwater wetland." Society of Wetland Scientists 30th Annual Meeting and 11th International Symposium on Wetland Biogeochemistry. Madison, WI. June 2009. **Invited** presentation.
18) Koren, L.M., S.L. McCallister, S.C. Neubauer, Y. Yamashita, R. Jaffé. "Impacts of saltwater intrusion on soil organic carbon desorption and microbial carbon consumption in tidal freshwater wetland soils." Society of Wetland Scientists 30th Annual Meeting and 11th International Symposium on Wetland Biogeochemistry. Madison, WI. June 2009. Non-presenting coauthor.
17) Weston, N.B., M.A. Vile, S.C. Neubauer, and D.J. Velinsky. "Climate change, sea level rise and salt-water intrusion in tidal freshwater marshes of the Delaware River estuary." Society of Wetland Scientists 30th Annual Meeting and 11th International Symposium on Wetland Biogeochemistry. Madison, WI. June 2009. Non-presenting coauthor.
16) Koren, L.M., S.L. McCallister, S.C. Neubauer, Y. Yamashita, R. Jaffé. "Influence of salinity variations on the desorption and lability of soil organic carbon associated with a tidal freshwater marsh." American Society of Limnology and Oceanography, Aquatic Sciences Meeting. Nice, France. January 2009. Non-presenting coauthor.
15) Neubauer, S.C., C.B. Craft, M.A. Vile, and N.B. Weston. "Tidal freshwater wetland responses to climate change." Society of Wetland Scientists 29th Annual Meeting. Washington, DC. May 2008. **Contributed** presentation.
14) Neubauer, S.C. "Responses of tidal coastal wetlands to climate change." Restoring tidal hydrology: Breaking down barriers, NOAA Coastal Services Center and NOAA Restoration Center. Charleston, SC. January 2008. **Invited plenary** talk.
13) Neubauer, S.C. "Vertical accretion in tidal freshwater marshes supported by both organic and inorganic contributions." Estuarine Research Federation 19th Biennial Conference. Providence, RI. November 2007. **Contributed** presentation.
12) Weston, N.B., M.A. Vile, D.J. Velinsky, S.C. Neubauer, and S.B. Joye. "Shifting pathways and magnitude of organic matter mineralization in tidal freshwater marshes following sea-level rise." Estuarine Research Federation 19th Biennial Conference. Providence, RI. November 2007. Non-presenting coauthor.

11) Whigham, D., A. Barendregt, C.B. Craft, and S.C. Neubauer "Climate change consequences for tidal freshwater wetlands at the east and west coast of the Atlantic." International Association of Landscape Ecology World Congress. Wageningen, The Netherlands. July 2007. Non-presenting coauthor.
10) Neubauer, S.C., G.E. Toledo-Duran, D. Emerson, and J.P. Megonigal. "Returning to their roots: Iron-oxidizing bacteria enhance short-term plaque formation in the wetland-plant rhizosphere." 10th International Symposium on Wetland Biogeochemistry. Annapolis, MD. April 2007. **Contributed** presentation.
9) Vile, M.A., N.B. Weston, D.J. Velinsky, and S.C. Neubauer. "Assessing the impact of climate change induced sea-level rise on carbon cycling dynamics in freshwater tidal marshes." 10th International Symposium on Wetland Biogeochemistry. Annapolis, MD. April 2007. Non-presenting coauthor.
8) Neubauer, S.C. "A seventeen-year record of inorganic carbon in the Susquehanna and Potomac Rivers, the largest tributaries of Chesapeake Bay." American Society of Limnology and Oceanography, Aquatic Sciences Meeting. Santa Fe, NM. February 2007. **Contributed** presentation.
7) Weston, N.B., M.A. Vile, D.J. Velinsky, S.B. Joye, and S.C. Neubauer. "Rising sea levels an salinity intrusion into tidal freshwater marshes: Shifting microbial communities and pathways of organic matter mineralization." American Society of Limnology and Oceanography, Aquatic Sciences Meeting. Santa Fe, NM. February 2007. Non-presenting coauthor.
6) Neubauer, S.C. "Carbon cycling and ecosystem exchanges in a tidal freshwater marsh." Southeastern Estuarine Research Society, Fall semi-annual meeting. Savannah, GA. October 2006. **Invited** presentation.
5) Bernot, M., R. Bernot, J.T. Morris, K. Sundberg, and S.C. Neubauer. "Denitrification and nitrogen fixation relative to natural abundance of carbon and nitrogen in a coastal wetland with long-term nutrient additions." Ecological Society of America 91st Annual Meeting, Memphis TN. August 2006. Non-presenting coauthor.
4) Sundareshwar, P.V., E. Koepfler, J.T. Morris, S.C. Neubauer, J. Pinckney, and E.M. Smith. "Effect of differential nutrient limitation on carbon sequestration in a North Inlet, SC, salt marsh." Ecological Society of America 91st Annual Meeting, Memphis TN. August 2006. Non-presenting coauthor.
3) Neubauer S.C. and I.C. Anderson. "Nitrogen cycling in tidal marshes: Importance of estuarine inputs versus internal recycling." Estuarine Research Federation 18th Biennial Conference. Norfolk, VA. October 2005. **Contributed** presentation.
2) Neubauer, S.C., K. Givler, SK Valentine, J.P. Megonigal. "Anaerobic metabolism in tidal wetlands: Seasonal patterns and plant-mediated controls." Society of Wetland Scientists 26th Annual Meeting. Charleston, SC. June 2005. **Contributed** presentation.
1) Neubauer, S.C., I.C. Anderson, and B.B. Neikirk. "Nitrogen cycling and ecosystem exchanges in a Virginia tidal freshwater marsh." 9th International Symposium on Wetland Biogeochemistry. Baton Rouge, LA. March 2005. **Contributed** presentation.

L. RESEARCH SEMINARS

16) Louisiana State University, School of Coast and Environment. Baton Rouge, LA. "Saltwater intrusion into tidal freshwater wetlands initiates change across multiple levels of ecological organization." February 2013.
15) Smithsonian Environmental Research Center, Edgewater, MD. "Saltwater intrusion into tidal freshwater wetlands initiates change across multiple levels of ecological organization." December 2012.

14) College of William and Mary, School of Marine Science, Virginia Institute of Marine Science, Gloucester Point, VA. “Saltwater intrusion into tidal freshwater wetlands initiates change across multiple levels of ecological organization.” September 2012.
13) University of South Carolina, Baruch Marine Field Laboratory, Georgetown, SC. “Saltwater intrusion into tidal freshwater wetlands initiates change across multiple levels of ecological organization.” July 2012.
12) University of North Carolina, Charlotte. Biology Department, Charlotte, NC. “Saltwater intrusion into tidal freshwater wetlands initiates change across multiple levels of ecological organization” March 2012.
11) Virginia Commonwealth University. Department of Biology, Richmond, VA. “Saltwater intrusion into tidal freshwater wetlands initiates change across multiple levels of ecological organization” February 2012.
10) College of William and Mary, School of Marine Science, Virginia Institute of Marine Science, Gloucester Point, VA. “Climate change effects on tidal freshwater marshes: Ecosystem and biogeochemical perspectives.” November 2010.
9) United States Geological Survey, National Wetlands Research Center, Lafayette, LA. “Climate change effects on tidal freshwater marshes: Ecosystem and biogeochemical perspectives.” September 2010.
8) Cary Institute of Ecosystem Studies, Millbrook, NY. “Climate change effects on tidal freshwater marshes: Ecosystem and biogeochemical perspectives.” January 2010.
7) South Carolina Department of Natural Resources, Marine Resources Research Institute, Fort Johnson, SC. “Climate change effects on tidal freshwater marshes.” November 2008.
6) Virginia Commonwealth University, Richmond, VA. “Climate change effects on tidal freshwater marshes.” September 2008.
5) University of Miami, Department of Biology. Coral Gables, FL. “The secret biogeochemistry of tidal freshwater marshes. What do we know about these unique (and often ignored) systems?” March 2008.
4) United States Department of Agriculture and United States Forest Service, Center for Forested Wetlands Research, Cordesville, SC. “Climate change effects on wetlands at the downstream (tidal) boundary of upland watersheds.” February 2008.
3) Academy of Natural Sciences, Patrick Center for Environmental Research, Philadelphia, PA. “The secret biogeochemistry of tidal freshwater marshes. What do we know about these unique (and often ignored) systems?” January 2006.
2) University of South Carolina, Marine Science Program. “The secret biogeochemistry of tidal freshwater marshes. What do we know about these unique (and often ignored) systems?” February 2006.
1) University of Georgia, Department of Marine Sciences. “The secret biogeochemistry of tidal freshwater marshes. What do we know about these unique (and often ignored) systems?” September 2005.

M. PROFESSIONAL MEMBERSHIPS

- American Society of Limnology and Oceanography
- Coastal and Estuarine Research Federation
- Society of Wetland Scientists

N. AWARDS

- “2014 Excellence in Reviewing” and “2013 Excellence in Reviewing” awards for *Biogeochemistry* (given to top 25 reviewers for the journal)