

TRACY NICOLE WIEGNER

CURRICULUM VITAE

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EDUCATION

- Ph.D. 2002 Oceanography. Rutgers, the State University of New Jersey, New Brunswick, New Jersey.
- B.S. 1995 Biology (Ecology and Systematics). Cornell University, Ithaca, New York.
- 1991-93 Biology. Colgate University, Hamilton, New York.

PROFESSIONAL EXPERIENCE

- 2014-Present Professor, University of Hawai`i at Hilo, Hilo, Hawai`i
- 2009-2014 Associate Professor, University of Hawai`i at Hilo, Hilo, Hawai`i
- 2004-2009 Assistant Professor, University of Hawai`i at Hilo, Hilo, Hawai`i.
- 2002-2003 Post-Doctoral Scientist, Stroud Water Research Center, Avondale, Pennsylvania.
- 1995-2001 Research Assistant, Rutgers University, New Brunswick, New Jersey.

FUNDED GRANTS

- NOAA/HDAR Coral Reef Working Group. 2016. Sewage pollution source tracking on Puakō's coral reefs. Tracy Wiegner (PI), Steve Colbert, Jim Beets, Courtney Couch, and Craig Nelson. \$83,918. Recommended for funding. (2018-2019).
- NFWF. 2017. Local Engagement for Conservation Solutions: Measuring the Impact of Management Action in South Kohala, Hawai`i Island. Contract from Coral Reef Alliance. Tracy Wiegner (PI), Jim Beets, and Steve Colbert. \$25,020. (2017-2018)
- NOAA. West Hawaii Habitat Focus Area. 2016. Water quality and coral reef health. Stuart Goldberg (PI), Lani Watson, Jamie Gove, Jonathan Martinez, Tracy Wiegner, Steve Colbert, Eric Conklin, Courtney Couch, Chad Wiggins, Kim Falinski, Rebecca Most, and Julia Rose. \$99,955. (2016-2017).
- USGS. PICSC. UHH Manager Climate Corps. 2016. Investigating climate driven shifts in *Staphylococcus aureus* and MRSA for water resource and land management solutions. Tracy Wiegner (PI), Louise Economy, Jon Awaya, Ayron Strauch, and Chad Shibuya. \$27,935 (direct), \$9000 (graduate student). (2016-2017).
- NOAA/HDAR Coral Reef Working Group. 2016. Sewage pollution source tracking at Puakō and comparison of onsite waste disposal systems for management actions. Tracy Wiegner (PI), Steve Colbert, and Jim Beets. \$80,555. (2016-2017).
- UHH Research Council. 2016. Determining pollution loads to Puakō's coral reef. Tracy Wiegner (PI). \$13,687. (2016-2017)

NSF. MRI Program. 2015. Acquisition of a isotope ratio mass spectrometer for the University of Hawaii at Hilo Analytical Laboratory. Tracy Wiegner (PI). \$576,328. (2015-2018).

UHH Travel Grant. 2015. Coastal and Estuarine Research Federation, Portland, Oregon. University of Hawai'i at Hilo. 2014. Post Tropical Storm Iselle water quality assessment at Wai 'Opae, Kapoho, Hawai'i. Tracy Wiegner (PI). \$22,480. (2014).

NOAA Domestic Coral Reef Conservation Grant Program. 2014. Spatial distribution and effects of sewage on Puako's (Hawaii) coral reefs. Tracy Wiegner (PI), Jim Beets, Steve Colbert, and Jason Adolf. \$79,877 (grant), \$53,000 private matching (graduate assistant). (2014-2016).

UHH Travel Grant. 2013. US Recreational Water Quality Criteria: A Vision for the Future, Honolulu, Hawai'i.

University of Hawaii Sea Grant College Program. 2012. Microbial pollution source tracking and prediction in Hilo Bay: a spatial and temporal analysis. Tracy Wiegner (PI), Jason Adolf, Jonathan Awaya, and Stephanie Molloy. \$59,710 (direct), \$61,064 (graduate assistant). (2012-2014).

Integrated Ocean Observing System Program, NOS, NOAA, Department of Commerce, through the National Oceanographic Partnerships Program. 2011. Pacific Island Ocean Observing System (PacIOOS). Brain Taylor (PI), Tracy Wiegner (participant with Jason Adolf for Hilo Bay Buoy). \$20,000,000 (\$90,000 for Hilo Bay buoy) (2011-2016).

UHH Travel Grant. 2010. AGU, San Francisco, California.

NSF EPSCoR RIII. 2009. IMUA III: Pacific high island evolutionary biogeography: impacts of invasive species, anthropogenic activity and climate change on Hawaiian focal species. Jim Gaines (PI), Tracy Wiegner [participant in Environmental Dynamics and Ecosystem Responses team (ENDER)]. \$20,000,000 (2009-2014).

NSF, HRD - Centers for Research Excellence in S&T (CREST). 2008. Center in Tropical Ecology and Evolution in Marine and Terrestrial Environments. Donald Price (PI), Elizabeth Stacy (genetics leader), Misaki Takabayashi (marine leader), Patrick Hart (terrestrial leader), Tracy Wiegner (marine mentor), Jason Turner (marine mentor), and Jonathan Price (terrestrial mentor). \$4,999,988. (2009-2013)

UHH EPSCoR Research Enhancement Activities Program. 2008. Phytoplankton ecology of Hilo Bay, Hawaii: real time continuous monitoring to detect changes in phytoplankton biomass and community composition due to natural and anthropogenic factors. Jason Adolf (PI), Tracy Wiegner, Jene Michaud, and Jason Turner. \$25,000. (2008)

NSF EPSCoR RII2 UHH Ecology Area. 2007. Tracy Wiegner (Leader for ecology focal area). \$669,003 (2006-2009)

UHH Travel Grant. 2007. Hawai'i Conservation Conference in Honolulu, Hawai'i.

County of Hawai'i, Department of Public Works. 2006. Hilo Bay water quality study. Tracy Wiegner (PI). \$66,000. (2006-2008)

B-WET Program (NOAA). 2006. RELATE: River environments landuse and ahupua`a technologies. Sonia Juvik (PI), Cynthia Phillips, and Tracy Wiegner (collaborator). \$90,000. (2006-2007)

- UHH EPSCoR Ecology Area Plan for Project Organization. 2006. Ecohydrology in Hawai'i: Linking volume and quality of water flow through soil, streams, vegetation, and atmosphere, from mountain to coastal discharge. Lawren Sack (Co-PI), Tracy Wiegner (Co-PI), Ka'eo Duarte, Jason Turner. \$200,000 (2006-2008)
- UHH EPSCoR Research Enhancement Activities Program. 2006. Terrestrial impacts on estuarine nutrient cycling. Jason Turner (PI), Tracy Wiegner, James Beets, Jene Michaud, C. Ray, and Celia Smith. \$23,775. (2006)
- UHH Travel Grant. 2006. AGU Conference in Honolulu, Hawai'i.
- University of Hawai'i Sea Grant College Program (NOAA). 2005. Bioavailability of natural and anthropogenic dissolved and particulate organic matter from Hilo Bay ahupua'a. Tracy Wiegner (PI) and Richard MacKenzie. \$70,838 (direct), \$36,114 (graduate student stipend). (2005-2007)
- UHH Travel Grant. 2005. AGU conference in New Orleans, Louisiana.
- UHH EPSCoR Research Enhancement Activities Program. 2004. Land cover and water quality in Hawaiian streams. Jene Michaud (PI) and Tracy Wiegner. \$12,074. (2004)
- UHH Research Council Seed Money Grant. 2004. Chemical composition and bioavailability of natural and anthropogenic organic matter from the Wailuku River. Tracy Wiegner (PI). \$15,000. (2004)
- County of Hawai'i through the Coastal Zone Management Plan. 2004. A review of water quality data for West Hawai'i. Tracy Wiegner (PI), Walter Dudley, Jim Beets, Lisa Muehlstein, and Mike Parsons. \$25,000 (2004-2005)
- UHH Travel Grant. 2004. ASLO conference in Honolulu, Hawai'i.
- UHH EPSCoR Research Enhancement Activities Program. 2003. Effects of organic matter sources on stream dissolved organic matter chemical composition and bioavailability across an ecological succession gradient. Tracy Wiegner (PI). \$20,000. (2003)
- NOAA-National Estuarine Research Site Graduate Fellowship. 1999. Dissolved organic nitrogen export and biological availability from freshwater wetlands: A comparison between pristine and polluted sites in the Jacques Cousteau NERR at Mullica River and Great Bay. Tracy Wiegner (PI). \$90,000. (1999-2001)
- New Jersey Sea Grant Development Grant. 1998. An initiative to gain a regional perspective on coastal eutrophication through a collaboration of Sea Grant funded researchers. Tracy Wiegner (PI), Sybil Seitzinger Patricia Glibert, Deborah Bronk, and Julie LaRoche. \$5,000. (1998)
- New Jersey Water Resources Research Institute. 1997. Does ultraviolet radiation liberate nitrogen from dissolved organic matter from point and non-point sources for bacterial and primary production? Tracy Wiegner (PI). \$2,500. (1997)

PEER-REVIEWED PUBLICATIONS (†student authors)

- MacKenzie, R.A., A.M. Strauch, **T.N. Wiegner**, S.L. Colbert, E.G. Stets, and R.G. Streigl. 2017. Baseline and projected future aquatic carbon fluxes to nearshore waters in Hawai'i. Chapter 7. In: Baseline and Projected Future Carbon Storage

- and Carbon Fluxes in Ecosystems of Hawai'i. Eds. P.C. Selman, C.P. Giardina, J.D. Jacobi, and Z. Zhu. U.S. Geological Survey Professional Paper 1834, 2017.
- Wiegner, T.N.**, † C. J. Evans, †L. Abaya, K. Carlson, †A. Lyon-Colbert, and S.L. Molloy. 2017. Comparison of spatial and temporal microbial pollution patterns in a tropical Hawaiian estuary between low and high river flow conditions. *Marine Pollution Bulletin* 114(2): 952-961.
- †Carlson, K., and **T.N. Wiegner**. 2016. Effects of submarine groundwater discharge on bacterial growth efficiency in coastal Hawaiian waters. *Aquatic Microbial Ecology* 77(3): 167-181.
- Wiegner, T.N.**, †A. Mokiao-Lee, and †E. Johnson. 2016. Identifying nitrogen sources to thermal tide pools in Kapoho, Hawai'i, USA, using a multi-stable isotope approach. *Marine Pollution Bulletin* 103(1): 63-71.
- †Roberts, M, A. M. Strauch, A., **T. Wiegner**, and R. MacKenzie. 2016. Leaf litter breakdown of native and exotic tree species in two Hawaiian streams that differ in flow. *Pacific Science* 70 (2): 209-222. Doi:10.2984/70.2.7.
- Wiegner, T.N.**, L.A. Kaplan, S. Ziegler, and R. Findlay. 2015. Consumption of terrestrial dissolved organic carbon by stream microorganisms. *Aquatic Microbial Ecology*. Doi: 10.3354/ame01761.
- †Johnson, E., and **T.N. Wiegner**. 2013. Potential surface water metabolism in groundwater-fed coastal waters of West Hawaii. *Estuaries and Coasts* 10.1007/s12237-013-9708-y.
- MacKenzie, R.A., **T.N. Wiegner**, †F. Kinslow, N. Cormier, and Ayrton M. Strauch. 2013. Leaf litter inputs from an invasive nitrogen-fixing tree influence organic matter dynamics and nitrogen inputs in a Hawaiian river. *Journal of Freshwater Science* 32(3): 1036-1052.
- †Holitzki T.M., R.A. MacKenzie, **T.N. Wiegner**, and K.J. McDermid. 2013. Invasive poeciliid fish alter ecological structure, function, and native biodiversity of Hawaiian streams. *Ecological Applications* 26(6): 1367-1383.
- Wiegner, T.N.**, R.F. Hughes, †L.M. Shizuma, and †D.K. Bushaw. 2013. Impacts of an invasive nitrogen-fixing tree on Hawaiian stream water quality. *Biotropica* 45(4): 409-418.
- Wiegner, T.N.**, †L.H. Mead, and S.L. Molloy. 2013. A comparison of water quality between low- and high-flow river conditions in a tropical estuary, Hilo Bay, Hawaii. *Estuaries and Coasts* 36(2): 319-333.
- †Atwood, T., **T.N. Wiegner**, and R.A. MacKenzie. 2012. Effects of hydrological forcing on the structure of a tropical estuarine food web. *Oikos* 121(2): 277-289
- Michaud, J. and **T.N. Wiegner**. 2011. Stream nutrient concentrations on the windward coast of Hawai'i Island and their relationship to watershed characteristics. *Pacific Science* 65 (2): 195-217.
- †Mead, L.H., and **T.N. Wiegner**. 2010. Surface water metabolism in a tropical estuary, Hilo Bay, Hawaii, USA, during storm and non-storm conditions. *Estuaries and Coasts* 33(5): 1099-1112.
- Wiegner, T.N.**, and †R.L. Tubal. 2010. A comparison of dissolved organic carbon bioavailability from native and introduced riparian vegetation along a Hawaiian river. *Pacific Science* 64 (4): 545-555.

- †Atwood, T., **T.N. Wiegner**, J.P. Turner, and R.A. MacKenzie. 2010. Potential effects of an invasive nitrogen-fixing tree on a Hawaiian stream food web. *Pacific Science* 64(3): 367-379.
- Wiegner, T.N.**, †R.L. Tubal, and R.A. MacKenzie. 2009. Bioavailability of dissolved organic matter from a tropical river during base- and storm flow conditions. *Limnology and Oceanography* 54(4): 1233-1242.
- Kaplan, L.A., **T.N. Wiegner**, J.D. Newbold, P.H. Ostrom, and H. Gandhi. 2008. Untangling the complex issue of dissolved organic carbon uptake: a stable isotope approach. *Freshwater Biology* 53:588-864.
- Wiegner, T.N.**, S.P. Seitzinger, P. M. Glibert, and D.A. Bronk. 2006. Bioavailability of dissolved organic nitrogen and carbon from nine rivers in the eastern United States. *Aquatic Microbial Ecology* 43: 277-287.
- Wiegner, T.N.**, L.A. Kaplan, J.D. Newbold, and P.H. Ostrom. 2005. Synthesis of a ¹³C-labeled tracer for stream DOC: labeling tulip poplar C with ¹³CO₂. *Ecosystems* 8(5): 501-511.
- Wiegner, T.N.**, L.A. Kaplan, J.D. Newbold, and P.H. Ostrom. 2005. Contribution of dissolved organic carbon to stream metabolism: a mesocosm study using ¹³C-enriched tree tissue leachate. *Journal of the North American Benthological Society* 24(1): 48-67.
- Wiegner, T.N.** and S.P. Seitzinger. 2004. Bioavailability of dissolved organic carbon and nitrogen from pristine and polluted freshwater wetlands. *Limnology and Oceanography* 49 (5): 1703-1712.
- Gandhi, H., **T.N. Wiegner**, P.H. Ostrom, L.A. Kaplan, and N.E. Ostrom. 2004. Isotopic (¹³C) analysis of dissolved organic carbon in stream water using an elemental analyzer coupled to a stable isotope mass spectrometer. *Rapid Communications in Mass Spectrometry* 18: 903-906.
- Wiegner, T.N.**, S.P. Seitzinger, D.L. Breitburg, and J.G. Sanders. 2003. The effects of multiple stressors on the balance between autotrophic and heterotrophic processes in an estuarine system. *Estuaries* 26(2A): 352-364.
- Wiegner, T.N.** and Seitzinger, S.P. 2001. Photochemical and microbial degradation of external dissolved organic matter inputs to rivers. *Aquatic Microbial Ecology* 24: 27-40.

PROFESSIONAL REPORTS

- Wiegner, T.N.**, and †L.H. Mead. 2009. Water quality in Hilo Bay during baseflow and storm conditions. Professional report prepared for the County of Hawai'i.
- Wiegner, T.**, J. Beets, W. Dudley, L. Muehlstein, and M. Parsons. 2006. A review of coastal monitoring data for developments in west Hawai'i. Professional report prepared for the County of Hawai'i.

SUBMITTED/IN REVISION MANUSCRIPTS

- †Abaya, L.M., **T.N. Wiegner**, S. Colbert, J. Beets, K.M. Carlson, K.L. Kramer, R. Most, and C. Couch. A multi-indicator approach for identifying hotspots of shoreline sewage pollution adjacent to coral reefs. In revision with *Marine Pollution Bulletin* August 2017.

- †Hart, K., K. McDermid, S. Colbert, and **T.N. Wiegner**. Responses of native Hawaiian calcifying macroalgae to naturally occurring ocean acidification conditions. Submitted to *Journal of Phycology* August 2017.
- †Abaya, L.M., **T.N. Wiegner**, J. Beets, S. Colbert, K.M. Carlson, K.L. Kramer. Spatial distribution of sewage pollution on a Hawaiian coral reef. Submitted to *Marine Pollution Bulletin* September 2017.
- †Bulsecò-McKim, A., †E. Johnson, **T. N. Wiegner**. The response of microbial processes and communities to groundwater inputs in coastal waters of Kona, Hawaii. Submitted to *Marine and Freshwater Research* September 2017.
- Wiegner, T.N.** Concentrations, chemical characteristics, and bioavailability of dissolved organic matter from wet montane forest streams across a forest development sequence in Hawai'i. In revision. Planned submission to *Aquatic Microbial Ecology* as a note.

PUBLICATIONS IN PREPARATION

- Wiegner, T.N.**, †K. Carlson, †E. Johnson, and J.E. Adolf. Non-conservative behavior of nutrients in coastal Hawaiian waters with submarine groundwater discharge. Planned submission to *Estuarine, Coastal, and Shelf Science*.
- †LeFevre, J., J.E. Adolf, †K. Carlson, and **T.N. Wiegner**. A comparison of phytoplankton and bacteria communities between coastal groundwater plumes and oceanic waters along the leeward and windward sides of Hawaii Island. Planned submission to *Aquatic Microbial Ecology*.
- MacKenzie, R.A., A. M. Brasher, A. P. Covich, †K. M. S. Fraiola, S. T. Larned, M. O. Gessner, V. H. Resh, A. R. Sherwood, M. Schindler, S. D. Tiegs, and **T.N. Wiegner**. Ecological processes of Pacific island streams: A review of stream studies conducted in Oceania over the last decade. Planned submission to *Biological Reviews*.

NEWSLETTER AND NEWSPAPER ARTICLES

- †Weisz, C., and **T.N. Wiegner**. 2013. Predicting microbial pollution in Hilo Bay. *Ka Pili Kai, University of Hawaii Sea Grant College Program Newsletter* 35(1).
- Wiegner, T.N.** 2006. B-WET promotes stewardship of Big Island watersheds. *Hawaii Tribune Herald*. October 8, 2006.
- †Tubal, R.L. and **T.N. Wiegner**. 2006. Understanding watershed functions: storm sediment and nutrient inputs to Hilo Bay. *Ka Pili Kai, University of Hawaii Sea Grant College Program Newsletter* 27(4).
- Wiegner, T.N.** 1998. Bioline: Sea Grant Scientists Collaborate on Coastal Algal Blooms Study. *New Jersey Sea Grant Newsletter* 18(4).
- Wiegner, T.N.** 1998. Regional Researchers Meet for Mini-Symposium. *New Jersey Sea Grant Newsletter* 18(4).

MEETINGS AND CONFERENCE SESSIONS ORGANIZED

- 2017 Association for the Sciences of Limnology and Oceanography Conference, Honolulu, HI. Local planning committee member.

- 2015 Hawaii Conservation Conference, Hilo, Hawaii. Organized session on land-based pollution effects on coastal waters and coral reefs.
- 2014 Ocean Science Meeting, Honolulu, Hawai'i. Served on the scientific planning committee.
- 2011, 2013-present Big Island Water Resource Meeting, Hilo, Hawai'i. Co-meeting organizer with Noe Puniwai.

WORKSHOPS LED

Wiegner, T.N., and S. Colbert. 2014. Great presentations! Effectively presenting your research to different audiences. Early career workshop. Ocean Science Meeting, Honolulu, Hawai'i.

PROFESSIONAL PRESENTATIONS (* invited)

- †M. Takakusagi, †L. Economy, **T. Wiegner**, and †C. Garson-Shumway. 2017. *Staphylococcus aureus* and Methicillin-Resistant *Staphylococcus aureus* (MRSA) in beach water and sand in Hilo, Hawai'i. Annual Biomedical Research Conference for Minority Students, Phoenix, AZ. Presentation.
- C. Couch, **T. Wiegner**, L. Abaya, R. Most, S. Colbert, K. Remple, K. Carlson, L. Kramer, C. Wiggins, C. Nelson, E. Conklin, and J. Beets. 2017. Harnessing a multi-tracer approach to map non-point source sewage pollution and its impacts on south Kohala Reefs. Hawai'i Conservation Conference, Honolulu, HI. Presentation.
- †L. Economy, and **T.N. Wiegner**. 2017. Rainfall driven shifts in *Staphylococcus aureus* in Hilo Bay, Hawai'i. Center for Island Sustainability Conference, Guam. Presentation.
- †£L. Economy, and **T.N. Wiegner**. 2017. Rainfall driven shifts in *Staphylococcus aureus* in Hilo Bay, Hawai'i. UH Hilo TCBES Symposium, Hilo, HI. Presentation. £Best student presentation.
- †L. Economy, and **T.N. Wiegner**. 2017. Rainfall driven shifts in *Staphylococcus aureus* in Hilo Bay, Hawai'i. Association for the Sciences of Limnology and Oceanography Aquatic Science Meeting, Honolulu, Hawai'i. Poster.
- T.N. Wiegner**, L.M. Abaya, J. Beets, S.L. Colbert, K.M. Carlson, K.L. Kramer. 2017. Spatial distribution of sewage pollution on a Hawaiian coral reef. Association for the Sciences of Limnology and Oceanography, Aquatic Science Meeting, Honolulu, HI. Presentation.
- T. Holitzki, E. Johnson, and **T.N. Wiegner**. 2017. Submarine groundwater impacts on benthic macroalgae C:N:P in Hawaiian marine waters. Association for the Sciences of Limnology and Oceanography, Aquatic Science Meeting, Honolulu, HI. Poster.
- †J.R. Panelo, and **T.N. Wiegner**. 2017. Association between *Staphylococcus aureus* and other sewage indicators in coastal waters of Puakō, Hawai'i. Association for the Sciences of Limnology and Oceanography, Aquatic Science Meeting, Honolulu, HI. Presentation.
- †Abaya, L.M., **T.N. Wiegner**, S. Colbert, J. Beets, K.M. Carlson, and K.L. Kramer. 2016. A multi-indicator approach for identifying hotspots of shoreline sewage

- pollution adjacent to coral reefs. Hawaii Ecosystem Conference, Hilo, Hawaii. Presentation.
- T.N. Wiegner**, †L. Abaya, J. Beets, K. Carlson, S. Colbert, C.S. Couch, K.L. Kramer, and R. Most. 2016. A multi-tracer approach for identifying sewage pollution hotspots on a Hawaiian coral reef. 13th International Coral Reef Symposium, Honolulu, Hawai‘i. Presentation.
- †L. Economy, and **T.N. Wiegner**. 2015. *Staphylococcus aureus* in Hilo Bay: Potential associations with water quality parameters. Water Resources Sustainability Conference, Honolulu, Hawai‘i. Poster.
- T.N. Wiegner**, †C. J. Evens, †L. Abaya, K. Carlson, †A. Lyon-Colbert, and S.L. Molloy. 2015. Comparison of spatial and temporal microbial pollution patterns in a tropical Hawaiian estuary between low and high river flow conditions. Hawai‘i Conservation Conference, Hilo, Hawai‘i. Presentation.
- †L. Abaya, **T.N. Wiegner**, K. Carlson, S. Colbert, and J. Beets. 2015. Spatial distribution and effects of sewage on Puakō’s (Hawai‘i) coral reefs. Hawai‘i Conservation Conference, Hilo, Hawai‘i. Presentation.
- L. Economy, and **T.N. Wiegner**. 2015. Sewage pollution at the Wai Ōpae tide pools, Hawai‘i, following Tropical Storm Iselle. Hawai‘i Conservation Conference, Hilo, Hawai‘i. Presentation.
- R. A. MacKenzie, A. Strauch, **T.N. Wiegner**, and S. Colbert. 2015. Baseline carbon fluxes to nearshore waters. Hawai‘i Conservation Conference, Hilo, Hawai‘i. Presentation.
- S. Colbert, K. Carlson, **T.N. Wiegner**, †C. Kauahi, †R. Tabandera, and †L. Abaya. Linking sewage pollution to near-shore coastal waters through dye tracer, water quality, and fecal indicator bacteria measurements at Puako, Hawaii. Hawai‘i Conservation Conference, Hilo, Hawai‘i. Poster.
- ***T.N. Wiegner**, †L. Abaya, K. Carlson, S. Colbert, and J. Beets. 2015. Spatial distribution and effects of sewage on Puakō’s (Hawai‘i) coral reefs. NOAA Mokupapapa Discovery Center, Hilo, Hawai‘i. Presentation.
- †L. Abaya, **T.N. Wiegner**, K. Carlson, S. Colbert, and J. Beets. 2015. Spatial distribution and effects of sewage on Puakō’s (Hawai‘i) coral reefs. 7th Annual UHH TCBES Symposium, Hilo, Hawaii. Presentation.
- Economy, L., and **T.N. Wiegner**. 2015. *Staphylococcus aureus* and Methicillin-resistant *S. aureus* (MRSA) in Hilo Bay: Investigating potential associations with water quality parameters. 7th Annual UHH TCBES Symposium, Hilo, Hawaii. Presentation.
- †L. Abaya, **T.N. Wiegner**, K. Carlson, S. Colbert, and J. Beets. 2015. Spatial distribution and effects of sewage on Puakō’s (Hawai‘i) coral reefs. Association for the Sciences of Limnology and Oceanography. Grenada, Spain. Presentation. (won best student presentation award).
- ***Wiegner, T.N.**, and A. Genz. 2014. Sea level rise in the Pacific: Causes, effects, and responses. United Nations Association of the U.S.A., Hawai‘i Island Branch, Annual Meeting, Hilo, Hawai‘i. Presentation.
- †Leu, H.I., †F. Lamar, †D.K. Jenings-Kam, **T.N. Wiegner**, and J.E. Adolf. 2014. Experimental investigation of the effects of nutrient enrichment of microbial

- biomass and class structure in tropical oligotrophic waters off West Hawaii. NOAA's Symposium on Kona's Marine Ecosystem: Trends and status. Kailua, Kona, Hawaii. Presentation.
- Wiegner, T.N.**, †K. Carlson, †E. Johnson, J. Adolf, and †A. Mokiao-Lee. 2014. Submarine groundwater discharge elicits a biological response in Hawaiian coastal waters. NOAA's Symposium on Kona's Marine Ecosystem: Trends and status. Kailua, Kona, Hawaii. Presentation.
- ***Wiegner, T.N.**, S. Colbert, †E. Braun, †M. Aiwohi, †R. Tabandera, and J. Beets. 2014. Spatial distribution and effects of sewage on Puakō's coral reefs. Hawai'i Department of Health, Clean Drinking Water Branch, Inter-government Water Conference, Kona, Hawaii. Presentation.
- †Economy, L., and **T.N. Wiegner**. 2014. *Staphylococcus aureus* and Methicillin-resistant *S. aureus* (MRSA) in Hilo Bay: Investigating potential associations with water quality parameters. Hawai'i Ecosystem Meeting, Hilo, Hawai'i. Presentation.
- Wiegner, T.N.**, S. Colbert, J. Beets, and J. Adolf. 2014. Spatial distribution and effects of sewage on Puakō's coral reefs. Hawai'i Ecosystem Meeting, Hilo, Hawai'i. Presentation.
- †Johnson, E.E., and **T.N. Wiegner**. 2014. Water column metabolism of milo and kiawe dominated anchialine ponds in leeward Hawaii. Big Island Water Resources Meeting, Hilo, Hawai'i. Poster.
- Holitzki, T.M., E.E. Johnson, and **T.N. Wiegner**. 2014. Submarine groundwater impacts on benthic macroalgal C:N:P in Hawaiian waters. Big Island Water Resources Meeting, Hilo, Hawai'i. Poster.
- †Leu, H.I., †F. Lamar, †D.K. Jenings-Kam, **T.N. Wiegner**, and J.E. Adolf. 2014. Experimental investigation of the effects of nutrient enrichment of microbial biomass and class structure in tropical oligotrophic waters off West Hawaii. Big Island Water Resources Meeting, Hilo, Hawai'i. Poster.
- Wiegner, T.N.**, †K. Carlson, †E. Johnson, J. Adolf, and †A. Mokiao-Lee. 2014. Submarine groundwater discharge elicits a biological response in Hawaiian coastal waters. Big Island Water Resources Meeting, Hilo, Hawai'i. Presentation.
- †Weisz, C.J., **T. Wiegner**, †L. Abaya, J. Adolf, and J. Awaya. 2014. Temporal geospatial analyses of microbial pollution patterns: A tool for improved water quality monitoring and watershed management. Big Island Water Resources Meeting, Hilo, Hawai'i. Poster.
- †Johnson, E.E., and **T.N. Wiegner**. 2014. Water column metabolism of milo and kiawe dominated anchialine ponds in leeward Hawaii. Ocean Science Meeting, Honolulu, Hawai'i. Poster.
- †Kiili, S.H., S. Colbert, and **T. Wiegner**. 2014. Effects of geothermally heated groundwater on the dissolved inorganic carbon system at Wai'Opae, Hawai'i Island. Ocean Science Meeting, Honolulu, Hawai'i. Poster.
- Holitzki, T.M., E.E. Johnson, and **T.N. Wiegner**. 2014. Submarine groundwater impacts on benthic macroalgal C:N:P in Hawaiian waters. Ocean Science Meeting, Honolulu, Hawai'i. Poster.

- †Leu, H.I., †F. Lamar, †D.K. Jennings-Kam, **T.N. Wiegner**, and J.E. Adolf. 2014. Experimental investigation of the effects of nutrient enrichment of microbial biomass and class structure in tropical oligotrophic waters off West Hawaii. Ocean Science Meeting, Honolulu, Hawai‘i. Poster.
- Wiegner, T.N.**, †K. Carlson, †E. Johnson, J. Adolf, and †A. Mokiao-Lee. 2014. Submarine groundwater discharge elicits a biological response in Hawaiian coastal waters. Ocean Science Meeting, Honolulu, Hawai‘i. Presentation.
- Adolf, J., **T.N. Wiegner**, †J. K. Walker, †E. Johnson, †S. Gamiao. 2014. Submarine groundwater discharge (SGD) modifies distributions of phytoplankton and bacteria along the west coast of Hawaii Island. Ocean Science Meeting, Honolulu, Hawai‘i. Presentation.
- †Abaya, L., **T. Wiegner**, †C. Weisz, and J. Adolf. 2014. A geospatial analysis of microbial pollution within Hilo Bay, Hawai‘i. Ocean Science Meeting, Honolulu, Hawai‘i. Poster.
- †Weisz, C.J., **T. Wiegner**, †L. Abaya, J. Adolf, and J. Awaya. 2014. Temporal geospatial analyses of microbial pollution patterns: A tool for improved water quality monitoring and watershed management. Ocean Science Meeting, Honolulu, Hawai‘i. Poster.
- Wiegner, T.N.**, and L. Camara. 2013. Ka Muliwai o Hilo. NERRS Site Proposal Presentation. Three Mountain Alliance Meeting, Hilo, Hawai‘i. Presentation.
- Wiegner, T.N.**, R. Stewart, and L. Camara. 2013. Ka Muliwai o Hilo. NERRS Site Proposal Presentation. Hawaii State Office of Planning, Honolulu, Hawai‘i. Presentation.
- Wiegner, T.N.** and S. Ziegler-Chong. 2013. Malama ia Hilo Bay. Proposed designation for a National Estuarine Research Reserve System Site. UHH, Hilo, Hawai‘i. Presentation.
- Wiegner, T.N.**, †K. Carlson, †E. Johnson, J. Adolf, †L. Heu, †D. Jennings-Kam, †J. Walker, and †A. Mokiao-Lee. 2013. Groundwater inputs elicit a biological response in Hawaiian coastal waters. Hawaii Ecosystem Meeting, Hilo, Hawai‘i. Presentation.
- †Weisz, C., T. Wiegner, †J. Loretero, J. Adolf, and J. Awaya. Microbial pollution prediction in Hawaiian coastal waters: a temporal and spatial analysis. Hawaii Ecosystem Meeting, Hilo, Hawai‘i. Presentation.
- †Johnson and **T. N. Wiegner**. 2013. Water column metabolism of anchialine ponds in leeward Hawaii. Hawaii Ecosystem Meeting, Hilo, Hawai‘i. Presentation
- †Carlson, K, and **T. N. Wiegner**. 2013. Bacterial growth efficiency in groundwater plumes on the east and west shores of the Island of Hawaii. Hawaii Ecosystems Meeting, Hilo, Hawai‘i. Presentation.
- †Weisz, C., T. Wiegner, †J. Loretero, J. Adolf, and J. Awaya. 2013. Microbial pollution prediction in Hawaiian coastal waters: a temporal and spatial analysis. 5th Annual TCBS Symposium, Hilo, Hawai‘i. Presentation.
- Wiegner, T.N.**, †C. Weisz, J. E. Adolf, J. Awaya, and S.L. Molloy. 2013. Microbial pollution prediction in Hawaiian coastal waters: a temporal and spatial analysis. US Recreational Water Quality Criteria: A Vision for the Future, Honolulu, Hawai‘i. Poster.

- Beets, J., J.E. Adolf, S. Colbert, and **T.N Wiegner**. 2013. Ecosystem responses to groundwater discharge on leeward Hawaii Island. Big Island Water Resources Meeting, Hilo, Hawai'i. Poster.
- †Johnson, E., and **T. N. Wiegner**. 2013. Water column metabolism of anchialine ponds in leeward Hawaii. Big Island Water Resources Meeting, Hilo, Hawai'i. Presentation
- †Weisz, C., **T.N. Wiegner**, †J. Loretero, J. Adolf, S. Molloy, and J. Awaya. 2013. Microbial pollution prediction in Hawaiian coastal waters: a temporal and spatial analysis. Big Island Water Resources Meeting, Hilo, Hawai'i. Poster.
- Wiegner, T.N.**, J. E. Adolf, S. Molloy, and J. Awaya. 2012. Microbial pollution source tracking and prediction in Hilo Bay: a spatial and temporal analysis. Hawaii Ecosystems Meeting, Hilo, Hawai'i. Presentation
- †Johnson, E., and **T.N. Wiegner**. 2012. Potential surface water metabolism in groundwater-fed coastal waters of West Hawaii. Hawaii Ecosystems Meeting, Hilo, Hawai'i. Presentation.
- †Carlson, K., and **T. N. Wiegner**. 2012. Bacterial growth efficiency in groundwater plumes on the east and west shores of the Island of Hawaii. Hawaii Ecosystems Meeting, Hilo, Hawai'i. Presentation.
- †Johnson, E., and **T.N. Wiegner**. 2011. Potential surface water metabolism in groundwater-fed coastal waters of West Hawaii. Coastal and Estuarine Research Federation Conference, Daytona Beach, Florida. Presentation
- †Mokiao-Lee, A., **T.N. Wiegner**, and †E. Johnson*. 2011. Identifying nitrogen inputs to thermal tide pools on Hawai'i Island, using a multi-stable isotope approach. Coastal and Estuarine Research Federation Conference, Daytona Beach, Florida. Presentation. *presenter.
- Wiegner, T.N.**, J. Adolf, J. Beets, †E. Johnson, and † J. Walker. 2011. Identifying hot spots of biological nitrogen transformations in coastal waters with groundwater inputs. NOAA's Symposium on Kona's (West Hawaii) Marine Ecosystem: Past, Present, and Future. Kailua, Kona, Hawai'i. Presentation.
- †Johnson, E., and **T.N. Wiegner**. 2011. Potential surface water metabolism in groundwater-fed coastal waters of West Hawaii. NOAA's Symposium on Kona's (West Hawaii) Marine Ecosystem: Past, Present, and Future. Kailua, Kona, Hawai'i. Presentation
- Wiegner, T.N.**, J. Adolf, J. Beets, † R. Most, †E. Johnson, and †J. Walker. 2011. Spatial and temporal nutrient patterns in coastal waters of Kaloko-Honokōhau. Hawaii Ecosystems Meeting, Hilo, Hawai'i. Presentation.
- †Johnson, E., and **T.N. Wiegner**. 2011. Potential surface water metabolism in groundwater-fed coastal waters of West Hawaii. Hawaii Ecosystems Meeting, Hilo, Hawai'i. Presentation.
- †Mokiao-Lee, A., †E. Johnson, and **T.N. Wiegner**. 2011. Identifying nitrogen inputs to thermal tide pools on Hawai'i Island, using a multi-stable isotope approach. Hawaii Ecosystems Meeting, Hilo, Hawai'i. Presentation.
- ***Wiegner, T.N.**, L. Mead, and T. Atwood. 2011. Estuaries: linking streams to the sea. Hawai'i Association of Watershed Partnerships, Wailuku, Hawai'i. **Invited Presentation.**

- Wiegner, T.N.**, J. Adolf, J. Beets, †R. Most, †E. Johnson, and †J. Walker. 2011. Spatial and temporal nutrient patterns in coastal waters of Kaloko-Honokōhau. 1st Annual Big Island Water Resources Meeting, Hilo, Hawai`i. Presentation.
- †Johnson, E., and **T.N. Wiegner**. 2011. Potential surface water metabolism in groundwater-fed coastal waters of West Hawaii. 1st Annual Big Island Water Resources Meeting, Hilo, Hawai`i. Presentation.
- †Holitzki, T., R.A. MacKenzie, K. McDermid, and **T.N. Wiegner**. 2011. Environmental impacts of invasive poeciliid fish on Hawaiian streams. 1st Annual Big Island Water Resources Meeting, Hilo, Hawai`i. Presentation.
- †Johnson, E., and **T.N. Wiegner**. 2011. Potential surface water metabolism in groundwater-fed coastal waters of West Hawaii. 3rd Annual TCBES Symposium, Hilo, Hawai`i. Presentation.
- †Mokiao-Lee, A., †E. Johnson, and **T.N. Wiegner**. 2011. Identifying nitrogen inputs to thermal tide pools on Hawai`i Island, using a multi-stable isotope approach. 3rd Annual TCBES Symposium, Hilo, Hawai`i. Presentation.
- ***Wiegner, T.N.**, L.A. Kaplan, S.E. Ziegler, and R.H. Findlay. 2010. Fate of terrestrial dissolved organic carbon within a stream biofilm community: a stable isotope approach. American Geophysical Union Fall Meeting, San Francisco, California. ***Invited.**
- †Mead, L., and **T.N. Wiegner**. 2010. University of Hawaii Analytical Laboratory. Hawaii State-wide EPSCoR Meeting, Honolulu, Hawai`i. Poster.
- Adolf, J., J. Beets, H. Dulaiova, C. Glenn, M. Takabayashi, **T. Wiegner***, †K. Holleman, †E. Johnson, †R. Most, †J. Walker, and †C. Waters. 2010. Environmental dynamics and ecosystem responses (ENDER) agenda 3: Marine ecosystem responses to environmental changes. Hawai`i State-wide EPSCoR Meeting, Honolulu, Hawai`i. *Created poster.
- †Mokiao-Lee, A., †E. Johnson, and **T.N. Wiegner**. 2010. Tracing sewage inputs into the Wai`Opae Tide Pools, Kapoho, Hawaii, using stable isotopes. Hawaii Conservation Conference, Honolulu, Hawai`i.
- †Holitzki, T., R.A. MacKenzie, K. McDermid, and **T.N. Wiegner**. 2010. Environmental impacts of invasive poeciliid fish on Hawaiian streams. Hawai`i Conservation Conference, Honolulu, Hawai`i. Presentation.
- Wiegner, T.N.**, J. Beets, J. Adolf, M. Takabayashi, C. Glenn, H. Dulaiova, R. MacKenzie. 2010. Groundwater in West Hawai`i: How is it changing near shore water quality and productivity? Hawai`i Ecosystem Meeting, Hilo, Hawai`i. Presentation.
- †Mokiao-Lee, A., †E. Johnson, and **T.N. Wiegner**. 2010. Tracing sewage inputs into the Wai`Opae Tide Pools, Kapoho, Hawaii, using stable isotopes. Hawai`i Ecosystem Meeting, Hilo, Hawai`i. Presentation.
- †Johnson, E., and **T.N. Wiegner**. 2010. Potential surface water metabolism in groundwater-fed coastal waters of West Hawai`i. Hawai`i Ecosystem Meeting, Hilo, Hawai`i. Presentation.
- †Holitzki, T., R.A. MacKenzie, K. McDermid, and **T.N. Wiegner**. 2010. Environmental impacts of invasive poeciliid fish on Hawaiian streams. Hawai`i Ecosystem Meeting, Hilo, Hawai`i. Presentation.

- †Holitzki, T., R.A. MacKenzie, K. McDermid, and T.N. Wiegner. 2010. Environmental impacts of invasive poeciliid fish on Hawaiian streams. North American Benthological Society 58th Annual Meeting, Santa Fe, New Mexico.
- Gessner, M.O., R.A. MacKenzie, **T.N. Wiegner**, H. Farrington, and P.M. Vitousek. 2010. Litter quality effects on decomposition across a nutrient gradient in Hawaiian streams. North American Benthological Society 58th Annual Meeting, Santa Fe, New Mexico.
- Wiegner, T.N.** and †L.H. Mead. 2010. Storm effects on water quality and productivity of a tropical Hawaiian Estuary. American Society of Limnology and Oceanography, Santa Fe, New Mexico.
- †Mokiao-Lee, A., †E. Johnson, and **T.N. Wiegner**. 2010. Tracing sewage inputs into the Wai`Opae Tide Pools, Kapoho, Hawaii, using stable isotopes. Pacific Congress on Marine Science and Technology, Hilo, Hawai`i. *2nd student place poster.*
- †Mokiao-Lee, A., †E. Johnson, and **T.N. Wiegner**. 2010. Tracing sewage inputs into the Wai`Opae Tide Pools, Kapoho, Hawaii, using stable isotopes. 2nd Annual TCBS Symposium, Hilo, Hawai`i. *1st place student poster.*
- Wiegner, T.N.**, and †L.H. Mead. 2009. Storm effects on water quality and productivity of a tropical Hawaiian estuary. Coastal and Estuarine Research Federation, Portland, Oregon.
- Takabayashi, M., J.P. Turner, and **T.N. Wiegner**. 2009. Coral diseases in Hawai`i: Correlation with water quality and effects on corallivore trophic dynamics. NSF CRESTHBCU-RISE Jam, Washington, D.C.
- †Atwood, T., T.N. Wiegner, and R. MacKenzie. 2009. Effects of hydrological forcing on the structure of a tropical estuarine food web. 1st Annual TCBS Symposium, UHH, Hilo, Hawai`i.
- Molloy, S. L., †K. L. Seiber, †L. Mead, and **T. Wiegner**. 2009. Sources of pollution in Hilo Bay, Hawaii, under baseline and storm conditions. USEPA National Beach Conference, Huntington Beach, California.
- Wiegner, T.N.** 2009. Storm effects on water quality and productivity of a tropical Hawaiian estuary. UHH TCBS Seminar, Hilo, Hawai`i.
- Wiegner, T.N.**, and †L.H. Mead. 2009. Effects of storms effects on water quality of a Hawaiian estuary. Hawai`i Ecosystem Meeting, Hilo, Hawai`i.
- Wiegner, T.N.**, and J. Adolf. 2009. Past, present, and future water quality research in Hilo Bay. Mokūpapapa Center, Hilo, Hawai`i for the Hilo Bay Watershed Advisory Group.
- †Atwood, T., **T.N. Wiegner**, R.A. MacKenzie, and J.P. Turner. 2008. Effects of an invasive N-fixing tree (*Falcataria moluccana*) on a Hawaiian stream food web. North American Benthological Society 56th Annual Meeting, Salt Lake City, Utah.
- †Atwood, T., **T.N. Wiegner**, R.A. MacKenzie, and J.P. Turner. 2008. Effects of an invasive N-fixing tree (*Falcataria moluccana*) on a Hawaiian stream food web. IsoEcol 2008: 6th International Conference on Application of Stable Isotope Techniques to Ecological Studies. Honolulu, Hawai`i.

- Wiegner, T.N.** and †L.M. Mead. 2008. Hilo Bay water circulation and quality study results. Hawai`i County's mayor's office (morning) and Mokūpapapa Center (evening), Hilo, Hawai`i for the Hilo Bay Watershed Advisory Group.
- Wiegner, T.N.**, †R.L. Tubal, †M.E. Manuel, and †R.A. MacKenzie. 2007. Concentrations and bioavailability of organic matter and nutrients during base and storm flow conditions in the Wailuku River, Hawai`i. Hawai`i Conservation Conference, Honolulu, Hawai`i.
- MacKenzie, R.A., N. Cormier, †F.M. Kinslow, and **T.N. Wiegner**. 2007. Comparison of leaf litter breakdown from native and invasive riparian trees in a forested and developed river reaches on the Island of Hawai`i. North American Benthological Society, Columbia, South Carolina.
- MacKenzie, R.A., N. Cormier, †F. Kinslow, and **T.N. Wiegner**. 2007. Leaf litter breakdown of native and invasive riparian trees in a forested and developed river reaches on the Island of Hawai`i. Hawai`i Conservation Conference, Honolulu, Hawai`i.
- †Shizuma, L.M., †D.K. Bishaw, R.F. Hughes, and **T.N. Wiegner**. 2007. Impacts of *Falcataria moluccana* on the water quality of Hawaiian streams. Society of Wetland Scientists, Sacramento, California.
- †Shizuma, L.M., †D.K. Bishaw, R.F. Hughes, and **T.N. Wiegner**. 2007. Impacts of *Falcataria moluccana* on the water quality of Hawaiian streams. Hawai`i Conservation Conference, Honolulu, Hawai`i.
- Wiegner, T.N.** and †L.M. Mead. 2007. Water quality in Hilo Bay. Mokūpapapa Center, Hilo, Hawai`i for the Hilo Bay Watershed Advisory Group.
- Wiegner, T.N.** and †L.M. Mead. 2007. Hilo Bay water circulation and quality study. Mokūpapapa Center, Hilo, Hawai`i.
- Wiegner, T.N.**, J. Beets, W. Dudley, L. Muehlstein, and M. Parsons. 2007. Water quality in West Hawai`i: Past, present, and future conditions. Hawai`i Ecosystem Meeting, Hilo, Hawai`i.
- Wiegner, T.N.** and †R.L. Tubal. 2007. Dissolved organic matter concentrations and bioavailability during base and storm flow conditions in a Hawaiian river. UHH TCBES Seminar, Hilo, Hawai`i.
- Wiegner, T.N.**, J. Beets, W. Dudley, L. Muehlstein, and M. Parsons. 2006. Water quality in West Hawai`i: Past, present, and future conditions. Hawai`i Aquatics Conference, Kona, Hawai`i.
- Hughes, R.F., †D.K. Bishaw, and **T.N. Wiegner**. 2006. Impacts of a non-native, N-fixing tree, *Falcataria moluccana*, on the chemistry of windward Hawai`i streams. Hawai`i Conservation Conference, Honolulu, Hawai`i.
- Wiegner, T.N.**, †R.L. Tubal, R.A. MacKenzie, and †M.E. Manuel. 2006. Dissolved organic matter concentrations and bioavailability during base and storm flow conditions in a Hawaiian river. American Society of Limnology and Oceanography, Victoria, British Columbia, Canada.
- †Tubal, R.L., **T.N. Wiegner**, and R.A. MacKenzie. 2006. Comparison of dissolved organic carbon bioavailability from native and invasive riparian vegetation in a Hawaiian river. American Society of Limnology and Oceanography, Victoria, British Columbia.

- Kaplan, L.A., J.D. Newbold, **T.N. Wiegner**, P.H. Ostrom, H. Gandhi, and A.K. Aufdenkampe. 2006. Biological lability profiling of dissolved organic matter with bioreactors-scaling up laboratory results to the environment. American Society of Limnology and Oceanography, Victoria, British Columbia, Canada.
- Wiegner, T.N.** 2006. Bioavailability of dissolved organic carbon and nitrogen from tropical montane rainforest streams across an ecological succession gradient. American Geophysical Union, Honolulu, Hawai`i.
- Wiegner, T.N.** and †R.L. Tubal. 2006. Dissolved organic matter concentrations and bioavailability during base and storm flow conditions in a Hawaiian river. Hawai`i Ecosystem Meeting, Volcano, Hawai`i.
- Wiegner, T.N.** 2005. Bioavailability of dissolved organic carbon and nitrogen from tropical montane rainforest streams across a geologic age gradient. American Geophysical Union, New Orleans, Louisiana.
- Wiegner, T.N.** 2005. Bioavailability of dissolved organic carbon and nitrogen from tropical montane rainforest streams across a geologic age gradient. UHH Marine Science Seminar, Hilo, Hawai`i,
- Wiegner, T.N.** 2005. Bioavailability of dissolved organic carbon and nitrogen from tropical montane rainforest streams across a geologic age gradient. UH EPSCoR Faculty Retreat, Coconut Island, Hawai`i.
- Wiegner, T.N.** 2005. Bioavailability of dissolved organic carbon and nitrogen from tropical montane rainforest streams across a geologic age gradient. Hawai`i Ecosystems Meeting, Hilo, Hawai`i.
- Wiegner, T.N.** 2005. Nutrient inputs from the Wailuku River to Hilo Bay. Hilo Bay Watershed Advisory Group, Hilo, Hawai`i.
- Wiegner, T.N.** 2004. Organic matter dynamics in Hawaiian streams and watersheds. NOAA Watershed Science Seminar, Hilo, Hawai`i.
- Wiegner, T.N.,** L.A. Kaplan, J.D. Newbold, P.O. Ostrom. 2004. Dissolved organic carbon uptake in a Piedmont stream determined by a whole-stream ^{13}C tracer addition. UHH TCBS Graduate Seminar, Hilo, Hawai`i.
- Wiegner, T.N.,** L.A. Kaplan, J.D. Newbold, P.O. Ostrom. 2004. Dissolved organic carbon uptake in a Piedmont stream determined by a whole-stream ^{13}C tracer addition. UHH Marine Science Seminar, Hilo, Hawai`i.
- Wiegner, T.N.,** L.A. Kaplan, J.D. Newbold, P.H. Ostrom, and H. Gandhi. 2004. Dissolved organic carbon uptake in a Piedmont stream determined by a whole-stream ^{13}C tracer addition. American Society of Oceanography and Limnology, Honolulu, Hawai`i.
- Kaplan, L.A., **T.N. Wiegner**, J.D. Newbold, and P.H. Ostrom. 2004. Contribution of dissolved organic matter to stream ecosystem metabolism— A whole-stream ^{13}C tracer addition. North American Benthological Society, Vancouver, British Columbia, Canada.
- Wiegner, T.N.** 2003. Chemical composition and bioavailability of DOM from pristine and polluted freshwater wetlands. University of Hawaii, Hilo, Hawaii.
- Wiegner, T.N.,** L.A. Kaplan, J.D. Newbold, P.H. Ostrom, and H. Gandhi. 2003. Dissolved organic carbon uptake in a piedmont stream determined by a whole-stream ^{13}C tracer addition. Estuarine Research Federation, Seattle, Washington.

- Seitzinger, S.P., H. Hartnett, G. Spyres, and **T. Wiegner**. 2003. From trees to seas: a cross system comparison of DON composition and lability. American Society of Limnology and Oceanography, Salt Lake City, Utah.
- Wiegner, T.N.** and S.P. Seitzinger. 2002. Chemical composition and bioavailability of dissolved organic carbon and nitrogen from pristine and polluted freshwater wetlands. American Society of Limnology and Oceanography, Victoria, British Columbia, Canada.
- Wiegner, T.N.** 2002. Microbial and photochemical degradation of allochthonous dissolved organic matter within river systems and watersheds. Dissertations on Chemical Oceanography (DISCO), Honolulu, Hawaii.
- Wiegner, T.N.** 2001. Removal and alteration of allochthonous riverine dissolved organic matter by photochemical and microbial processes. Stroud Water Research Center, Avondale, Pennsylvania.
- Wiegner, T.N.** and S.P. Seitzinger. 2001. Seasonal bioavailability of dissolved organic carbon and nitrogen from pristine and polluted freshwater wetlands. Estuarine Research Federation, St. Pete Beach, Florida.
- Wiegner, T.N.,** S.P. Seitzinger, C.C. Gilmour, D.L. Breitburg, and J.G. Sanders. 2001. The effects of multiple stressors on the coupling between autotrophic and heterotrophic processes in an estuarine system. American Society of Limnology and Oceanography, Albuquerque, New Mexico.
- Seitzinger, S.P., M.A. Mazurek, R.M. Styles, R. Lauck, and **T.N. Wiegner**. 2000. Bioavailability and chemical composition of dissolved organic nitrogen in natural and pollutant sources to aquatic ecosystems. American Society of Limnology and Oceanography, Copenhagen, Denmark.
- Wiegner, T.N.,** S.P. Seitzinger, E. Harmoto, P.M. Glibert, and D.A. Bronk. 1999. Regional patterns in riverine DOM composition and bioavailability. Thirteenth Annual Joint Workshop of the National Estuarine Research Reserve System and National Estuarine Research Reserve Association, Jacques Cousteau National Research Reserve, Cape May, New Jersey.
- Wiegner, T.N.,** S.P. Seitzinger, P.M. Glibert, D.A. Bronk, and J. LaRoche. 1999. Regional and temporal patterns in riverine DOM composition and bioavailability. Estuarine Research Federation, New Orleans, Louisiana.
- Wiegner, T.N.** and S.P. Seitzinger. 1999. Photochemical and microbial degradation of external DOM inputs to rivers. American Society of Limnology and Oceanography, Santa Fe, New Mexico.
- Wiegner, T.N.** 1998. A comparison between photochemical and microbial degradation of DOM in non-point source runoff. New England Estuarine Research Society, New London, Connecticut.

TEACHING EXPERIENCE

2004-present Faculty, UHH. Chemical Oceanography, Oceanography, Coastal/ Pelagic Methods and Analyses, Senior Thesis Research/Report, Global Change, Watersheds lecture and laboratory, Conservation Biology and Environmental Science, TCBES Field and Laboratory Methods, Research Seminar in TCBES

2000 Teaching Assistant, Rutgers University. Chemical Oceanography.
1999 Instructor, Rutgers University. Scientific Inquiry in Oceanography:
Marine Food Webs as Indicators of Global Change.
1992 Teaching Assistant, Colgate University. Vertebrate Zoology.

MENTORING

Graduate Students:

UHH TCBES Program [primary advisor (P), committee member C]: Jazmine Panelo (P), Devon Aguiar (P), Louise Economy (P), Leilani Abaya (P: graduated August 2016), Kendra Hart (C: graduated August 2016), Linnea Heu (C: graduated December 2015), Caree Weisz (P; graduated May 2015), Kehau Nelson-Kaula (C: graduated December 2013), Kaile'a Carlson (P: graduated December 2013), Judy Walker (C: graduated December 2012), Ambyr Mokiao-Lee (P: graduated May 2012), Erik Johnson (P: graduated June 2012), Robyn DeBenedet (C: graduated December 2011), Tara Holitzki (C: graduated December 2010), Trisha Atwood (P: graduated May 2009), Lucas Mead (P: graduated December 2008), Simona Vaduvescu (C: graduated August 2008), Randee Tubal (P: graduated May 2007).

UNDERGRADUATES:

Research assistants: Moana McClellan, Joshua Uecker, Hailey McPhee, Abelardo Rojas, Kathy Seiber, Paula Ayotte, Caitlin Kryss, Jon Marusek, Louise Economy
Senior Thesis at UHH: Mikayla Jones, Jazmine Panelo, Carrie Soo Hoo, Louise Economy, Leilani Abaya, Jessica Lorentero, Jennifer LeFevre, Jonathan Chandrasakaran, Megan Hess, Ashley Bulseco, Amy Korwin, Kaitlin Seberger, Stacey Breining, Agnessa Lundy, Erik Johnson, Christeena Kelly, Nicholas Seferovic, Caitlin Kryss, Trisha Atwood, Azusa Kinjo, Cecile Walsh, Anna Chase
NSF Research Experience for Undergraduates: Tyler Gerken (UHH), Adel Sharif (Moravian University), Saria Adnan-Sultan (University of North Florida), Carmen Garson-Shumway (Macalester University), Devon Aguiar (UHH), Jazmine Panelo (UHH), Bryan Tonga (UHH), Maile Aiwohi (UHH), Evelyn Braun (UHM), Leilani Abaya (UHH), Hoku Tobin (UHH), Mickhale Green (Amherst College), Nanea Lindsay (UHM), Lopaka Loching (UHH), Malia Kipapa (Chaminade University of Honolulu), Mark Manuel (UHH), Kaiena Bushaw (UHH), Lisa Shizuma (UHH), Emily Hart (Smith College), Suzanne Adams (Bryn Mawr College), Maria Calisto (Rutgers University)
C-MORE Trainees at UHH: Mikayla Jones, Devon Aguiar, Jazmine Panelo, Louise Economy, Leilani Abaya, Jessica Lorentero, Jennifer LeFevre, Jonathan Chandrasakaran, Ashley Bulseco
NIH SHARP at UHH: Melia Takakusagi
NSF EPSCoR Ike Wai Scholars at UHH: Tyler Gerken, Carey Demapan

TEACHERS: NSF Research Experience for Teachers: Tabitha vanVeen, Teresa Friedrichsen, Robert Grover

PROFESSIONAL AFFILIATIONS

American Society of Limnology and Oceanography (ASLO)
Coastal and Estuarine Research Federation (CERF)
Society for Freshwater (SFW)

ADVISORS

Graduate: Dr. Sybil P. Seitzinger

Post-doctoral: Drs. Louis A. Kaplan and J. Denis Newbold