

JEREMY L. CONKLE

Department of Physical & Environmental Sciences
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RESEARCH INTERESTS

Fate, transport and ecosystem and effects of water-borne pollutants. Microplastics and their impacts. Wetland ecology and biogeochemistry. Environmental Justice. Water reuse impacts.

EDUCATION & EXPERIENCE

Associate Professor, Texas A&M University Corpus Christi (2020 – Present)
Department of Physical & Environmental Sciences

Assistant Professor, Texas A&M University Corpus Christi (2014 – 2020)
Department of Physical & Environmental Sciences

Research Fellow, Louisiana State University Coastal Sustainability Studio (2014)
College of Art & Design

Instructor, Louisiana State University (2014)
Department of Oceanography & Coastal Sciences

Postdoctoral Scholar, University of California Riverside (2010 – 2013)
Department of Environmental Sciences

Research: Examined fate and transport processes of organic contaminants in soils, sediments and water. These contaminants included contaminants of emerging concern, legacy compounds such as DDT, PCBs and chlordane as well as current-use pesticides and methyl bromide alternatives.

PI: Dr. Jay Gan

Ph.D., Louisiana State University (2006 – 2010)
Oceanography & Coastal Sciences

Dissertation: Pharmaceutical compounds in treatment wetlands: Potential removal and effects on microbial processes

Research: Examined the fate, transport and microbial impacts of pharmaceuticals and personal care products in wetland environments. Additional projects examined wetland soils and biogeochemical cycling in various aquatic environments.

Advisor: Dr. John R. White

Concentration: Wetland Science & Management

Minor: Disaster Science & Management

M.S., The College of Charleston (2004 – 2006)
Environmental Studies

Thesis: Remediation of Hog Island Inlet: Site overview and assessment of factors influencing site clean up

J. L. CONKLE

Assistant Professor, Texas A&M University Corpus Christi

Earth Tech, Richmond, VA (2002 – 2006)

Field Chemist

Responsibilities: Emergency response to biological and chemical contamination. Characterization of unknown chemicals and validation of lab analysis.

B.S., Longwood University (1999 – 2003)

Biology & Chemistry

Concentration: Ecology

PUBLICATIONS

Peer Reviewed Manuscripts (#Undergraduate Researcher; §Graduate student researcher)

- 31) §Pinnell, L. J., J. L. Conkle, J. W. Turner. Life on a nurdle: microbial succession and biodegradation rates of plastic and bioplastic in a coastal marine environment. *IN REVISION – Environmental Microbiology*
- 30) §Siddiqui, S., J. Scarpa, J. L. Conkle. Comparison of bioconcentration and kinetics of GenX in Tilapia, *Oreochromis mossambicus* in fresh and brackish water. *Chemosphere* **2022**, 287, 132289.
- 29) Yang, R.; Wang, J.; Zhu, L.; Wang, J.; Yang, L.; Mao, S.; Conkle, J. L.; Chen, Y.; Kim, Y. M., Effects of interaction between enrofloxacin and copper on soil enzyme activity and evaluation of comprehensive toxicity. *Chemosphere* **2020**, 129208.
- 28) Provencher, J. F.; §Covernton, G. A.; Moore, R. C.; §Horn, D. A.; Conkle, J. L.; Lusher, A. L., Proceed with caution: The need to raise the publication bar for microplastics research. *Sci Total Environ* **2020**, 748, 141426.
- 27) §Siddiqui, S.; Conkle, J. L.; Sadovski, A., Contiguous U.S. surface water availability and short-term trends of wastewater effluent flows in San Antonio, TX. *Environ Pollut* **2020**, 265, (Pt B), 115036.
- 26) §Naik, R. A.; §Rowles, L. S., 3rd; Hossain, A. I.; Yen, M.; Aldossary, R. M.; Apul, O. G.; Conkle, J.; Saleh, N. B., Microplastic particle versus fiber generation during photo-transformation in simulated seawater. *Sci Total Environ* **2020**, 736, 139690.
- 25) §Siddiqui, S.; Conkle, J. L.; Scarpa, J.; Sadovski, A., An analysis of U.S. wastewater treatment plant effluent dilution ratio: Implications for water quality and aquaculture. *Sci Total Environ* **2020**, 721, 137819.
- 24) Wang, L.; Wang, J.; Wang, J.; Zhu, L.; Conkle, J. L.; Yang, R., Soil types influence the characteristic of antibiotic resistance genes in greenhouse soil with long-term manure application. *Journal of hazardous materials* **2020**, 392, 122334.
- 23) §Waddell, E. N.; §Lascelles, N.; Conkle, J. L., Microplastic contamination in Corpus Christi Bay blue crabs, *Callinectes sapidus*. *Limnology and Oceanography Letters* **2020**, 5, (1), 92-102.
- 22) §Haddad, S. P.; §Bobbitt, J. M.; §Taylor, R. B.; §Lovin, L. M.; Conkle, J. L.; Chambliss, C. K.; Brooks, B. W., Determination of microcystins, nodularin, anatoxin-a, cylindrospermopsin, and saxitoxin in water and fish tissue using isotope dilution liquid chromatography tandem mass spectrometry. *Journal of chromatography. A* **2019**, 1599, 66-74.
- 21) §Scott, W. C.; §Haddad, S. P.; §Saari, G. N.; Chambliss, C. K.; Conkle, J. L.; Matson, C. W.; Brooks, B. W., Influence of salinity and pH on bioconcentration of ionizable pharmaceuticals by the gulf killifish, *Fundulus grandis*. *Chemosphere* **2019**, 229, 434-442.

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Assistant Professor, Texas A&M University Corpus Christi

- 20) Brooks, B. W.; **Conkle, J. L.**, Commentary: Perspectives on aquaculture, urbanization and water quality. *Comp Biochem Physiol C Toxicol Pharmacol* **2019**, *217*, 1-4.
- 19) [§]Martin, K. M.; Hasenmueller, E. A.; White, J. R.; Chambers, L. G.; **Conkle, J. L.**, Sampling, Sorting, and Characterizing Microplastics in Aquatic Environments with High Suspended Sediment Loads and Large Floating Debris. *J Vis Exp* **2018**, (137).
- 18) **Conkle, J. L.**; [#]Baez Del Valle, C. D.; Turner, J. W., Are We Underestimating Microplastic Contamination in Aquatic Environments? *Environ Manage* **2018**, *61*, (1), 1-8.
- 17) Jiang, W.; **Conkle, J. L.**; Luo, Y.; Li, J.; Xu, K.; Gan, J., Occurrence, Distribution, and Accumulation of Pesticides in Exterior Residential Areas. *Environmental science & technology* **2016**, *50*, (23), 12592-12601.
- 16) Jiang, W.; Luo, Y.; **Conkle, J. L.**; Li, J.; Gan, J., Pesticides on residential outdoor surfaces: environmental impacts and aquatic toxicity. *Pest Manag Sci* **2016**, *72*, (7), 1411-20.
- 15) **Conkle, J. L.**; Cabrera, J. A.; Thomas, J. E.; Wang, D.; Gan, J., Effects of CO₂ dissolution on phase distribution and degradation of dimethyl disulfide in soils under grape production. *Pest Manag Sci* **2016**, *72*, (2), 349-53.
- 14) Wu, X.; Dodgen, L. K.; **Conkle, J. L.**; Gan, J., Plant uptake of pharmaceutical and personal care products from recycled water and biosolids: a review. *Sci Total Environ* **2015**, *536*, 655-666.
- 13) Wu, X.; **Conkle, J. L.**; Ernst, F.; Gan, J., Treated wastewater irrigation: uptake of pharmaceutical and personal care products by common vegetables under field conditions. *Environmental science & technology* **2014**, *48*, (19), 11286-93.
- 12) Young, M. H.; Green, R. L.; **Conkle, J. L.**; McCullough, M.; Devitt, D. A.; Wright, L.; Vanderford, B. J.; Snyder, S. A., Field-scale monitoring of pharmaceutical compounds applied to active golf courses by recycled water. *J Environ Qual* **2014**, *43*, (2), 658-70.
- 11) Wu, X.; Ernst, F.; **Conkle, J. L.**; Gan, J., Comparative uptake and translocation of pharmaceutical and personal care products (PPCPs) by common vegetables. *Environ Int* **2013**, *60*, 15-22.
- 10) Theriot, J. M.; **Conkle, J. L.**; Reza Pezeshki, S.; DeLaune, R. D.; White, J. R., Will hydrologic restoration of Mississippi River riparian wetlands improve their critical biogeochemical functions? *Ecol. Eng.* **2013**, *60*, 192-198.
- 9) Anderson, M. A.; **Conkle, J. L.**; Pacheco, P.; Gan, J., Use of hydroacoustic measurements to characterize bottom sediments and guide sampling and remediation of organic contaminants in lake sediments. *Sci Total Environ* **2013**, *458-460*, 117-24.
- 8) Wu, X.; **Conkle, J. L.**; Gan, J., Multi-residue determination of pharmaceutical and personal care products in vegetables. *Journal of chromatography. A* **2012**, *1254*, 78-86.
- 7) Wang, W.; Delgado-Moreno, L.; **Conkle, J. L.**; Anderson, M.; Amrhein, C.; Ye, Q. F.; Gan, J., Characterization of sediment contamination patterns by hydrophobic pesticides to preserve ecosystem functions of drainage lakes. *J. Soils Sediments* **2012**, *12*, (9), 1407-1418.
- 6) **Conkle, J. L.**; Gan, J.; Anderson, M. A., Degradation and sorption of commonly detected PPCPs in wetland sediments under aerobic and anaerobic conditions. *J. Soils Sediments* **2012**, *12*, (7), 1164-1173.
- 5) **Conkle, J. L.**; White, J. R., An initial screening of antibiotic effects on microbial respiration in wetland soils. *J Environ Sci Health A Tox Hazard Subst Environ Eng* **2012**, *47*, (10), 1381-90.

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- 4) **Conkle, J. L.**; Lattao, C.; White, J. R.; Cook, R. L., Competitive sorption and desorption behavior for three fluoroquinolone antibiotics in a wastewater treatment wetland soil. *Chemosphere* **2010**, *80*, (11), 1353-9.
- 3) **Conkle, J. L.**; Lattao, C. V.; White, J. R.; Cook, R. L., Pharmaceutical Analysis for Environmental Samples: Individual and Simultaneous Determination of Ciprofloxacin, Ofloxacin and Norfloxacin Using an HPLC with Fluorescence and UV Detection with a Wetland Soil Matrix. *Analytical Letters* **2009**, *42*, (18), 2937-2950.
- 2) **Conkle, J. L.**; White, J. R.; Metcalfe, C. D., Reduction of pharmaceutically active compounds by a lagoon wetland wastewater treatment system in Southeast Louisiana. *Chemosphere* **2008**, *73*, (11), 1741-8.
- 1) Akers, S. M.; **Conkle, J. L.**; Thomas, S. N.; Rider, K. B., Determination of the heat of combustion of biodiesel using bomb calorimetry - A multidisciplinary undergraduate chemistry experiment. *J Chem Educ* **2006**, *83*, (2), 260-262.

Book Chapters

- 2) **Conkle, J. L.**, J. R. White, C.D. Metcalfe. (2013). Methods for determining emerging contaminants in wetland matrices. *Methods in Biogeochemistry of Wetlands*. R.D. DeLaune, K.R. Reddy, C.J. Richardson and P. Magonigal. Soil Science Society of America.
- 1) White, J. R., J. Hendrickson, **J. L. Conkle**. (2008). Effect of changing land use on water quality in the coastal zone. *Coastal Watershed Management*. A. Fares and A. I. El-Kadi. Southampton, UK, WIT Press.

Technical Reports

- 3) Field-scale monitoring of pharmaceuticals and personal care products applied to active golf courses via recycled water
- 2) **Conkle, J. L.**, L. Delgado-Moreno, M. Anderson, J. Gan. (2012). Survey of organochlorine pesticides and PCBs in McGrath Lake. Final Report. California State Water Resources Control Board.
- 1) Huang, W., **J. L. Conkle**, J. O. Sickman, J. Gan. (2012). Water quality assessment of the Beaumont Management Zone: Identifying sources of groundwater contamination using chemical and isotopic tracers. Final Report. California State Water Resources Control Board.

Digital Materials

- 2) Update for the Ecological Society of America's Communicating Ecosystem Services: Tools for scientists to engage the public. Water purification toolkit. <http://www.esa.org/ecoservices/>. 2008.
- 1) Update for the Ecological Society of America's Communicating Ecosystem Services: Tools for scientists to engage the public. Flood damage control toolkit. <http://www.esa.org/ecoservices/>. 2008.

GRANTS

Current

- 1) Mercury and Plastic in Commercial and Recreational Fisheries in Lavaca, Matagorda, and San Antonio Bays: Risk Assessment and Interaction between the Two Contaminants. Matagorda Bay

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Mitigation Trust, XXXXXXXXXX, 03/01/2021 – 02/28/2024. \$500,000. **PI: Conkle, J.L.**; Co-PI: Dutton, J (TX State)

Pending

- 3) Microplastic presence and circulation in Galveston, Corpus Christi, and Matagorda Bays. U.S. Coastal Research Program. 01/15/2022 – 01/14/2025, \$299,866. **PI: Conkle, J.L.**; Co-PIs: Bogucki, D; Ariunbold, G (Mississippi State)
- 2) Identification of stormwater treated wastewater, and industrial contaminants in Lavaca, Matagorda, and San Antonio Bay using targeted and non-targeted approaches. Matagorda Mitigation Trust. 03/01/2022 – 02/28/2025. \$400,000. **PI: Conkle, J.L.**; Co-PI: Abdulla, H.; Liu, Z. (U. Texas Marine Science Institute)
- 1) In situ measurements of microplastic, nitrates concentration in water and soil Galveston, Corpus Christi, and Matagorda Bays using a novel microwave-based method. Matagorda Mitigation Trust. 03/01/2022 – 02/28/2025. \$200,000. PI: Bogucki, D; **Co-PI: Conkle, J.L.**

In Development

Complete

- 13) Mercury and plastic in Lavaca and Matagorda Bay. Texas A&M University Corpus Christi Research and Innovation Office. 09/01/2020 – 08/31/2021. ~\$5,000. PI: Conkle, J.L.
- 12) Quantifying Microplastic (Particles and Fibers) Loading to the Texas's Coastal Bays and Estuaries. Texas General Land Office Costal Management Program Grant Cycle 23, 19-046-000-B080, 11/01/2018 – 09/31/2021, \$92,749. **PI: Conkle, J.L.**; Co-PIs: Ren, J. (TAMUK)
- 11) Microplastic pollution and its occurrence in the diet of juvenile fish and shrimp in Texas bays. Texas General Land Office Costal Management Program Grant Cycle 23. 19-044-000-B078, 11/01/2018 – 09/31/2021, \$63,818 (\$4,885). PI: Geist, S.; **Co-PI: Conkle, J.L.**
- 10) MRI: Acquisition of a GC triple quadrupole mass spectrometer for Environmental and Biogeochemical research. National Science Foundation, 1828297, 02/05/2019 – 08/31/2021, \$222,141. **PI: Conkle, J.L.**; Co-PIs: Abdulla, H.A.; Reese, B.; Zhang, L.
- 9) Future Water Quality Challenges to Aquaculture and Influences on Product Safety. US Department of Agriculture (USDA) National Institutes of Food and Agriculture (NIFA) Agricultural Food Research Initiative (AFRI), 2016-69007-25093, 05/01/2016 – 03/31/2021, \$449,895. **PI: Conkle, J.L.**; Co-PIs: Scarpa, J., Brooks, B. (Baylor U.)
- 8) Quantifying and Characterizing the Mississippi River's Contribution of Microplastic Debris to the Gulf of Mexico. National Oceanographic and Atmospheric Administration (NOAA) Marine Debris Program (MDP), NA16NOS9990029, 05/01/2016 – 01/31/2019, \$137,133. **PI: Conkle, J.L.**; Co-PIs: Hasenmueller, E. (St. Louis U.), White, J.R. (LSU), Chambers, L. (U. Central Florida).
- 7) Pesticide loading and sediment accumulation in Baffin Bay: Addressing an important stakeholder concern regarding the bay's health. Texas General Land Office Costal Management Program Grant Cycle 20, 16-062-000-9106, 10/01/2015 – 03/31/2018, \$77,841. **PI: Conkle, J.L.**
- 6) Quantifying Plastic Loading and Fate in Corpus Christi Bay to Improve Stakeholder Awareness. Coastal Bend Bays and Estuaries Program/Texas Commission on Environmental Quality, 1703, 09/01/2016 – 06/15/2018, \$49,705. **PI: Conkle, J.L.**

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- 5) Development of effective experimental procedures for studying surface-subsurface exchange of synthetic microfibers in aquatic systems. Alliance for Graduate Education and the Professoriate (AEGP) TAMU System Mini-Grant. 09/01/2016 – 08/31/2017. \$7,000 (\$0). PI: Ren, J. (TAMUK); **Co-PI: Conkle, J.L.**
- 4) MRI: Acquisition of Hybrid Mass Spectrometer for Geochemistry and Environmental Studies. National Science Foundation. 1626494, 09/01/2016 – 08/31/2017. \$681,415. PI: Abdulla, H.A.; **Co-PI: Conkle, J.L., Zimba, P.**
- 3) Characterizing and quantifying plastic debris using unmanned aircraft systems (UAS). Texas Comprehensive Research Fund (Internal to TAMUCC). 09/01/2016 – 08/31/2017, \$20,000. **PI: Conkle, J.L.**
- 2) Microplastics as Vectors for Pollutants in the Blue Crab, *Callinectes sapidus*. PADI Foundation. 04/12/2016 – 12/31/2017, \$5,640. **PI: Conkle, J.L.**
- 1) Environmental Assessment of Vegetation Management and Control Practices. US Army Corps of Engineers" (USACE) Engineer Research and Development Center (ERDC), W912HZ-16-C-0002, 10/21/2015 – 06/25/2017, \$123,757 (\$78,725 base year, \$45,032 optional year 2). **PI: Conkle, J.L.**

TEACHING EXPERIENCE

Instructor

- 5) Wetlands & Water Quality (ESCI 4490/5490), Texas A&M Corpus Christi (Spring 2015, 2017-2021)
Course Description: Introduction to wetland ecosystems (natural, constructed and restored) with an emphasis quantifying the role of wetlands in water quality. Topics include wetland systems, their history and role in society, relationships between biology, geology, ecology, hydrology and chemistry in wetland environments and the use of lab and field techniques.
- 4) Environmental Chemistry (CHEM 4443/5417), Texas A&M Corpus Christi (Fall 2015-2020)
Course Description: Study of the impact of chemistry on the environment. Topics will include the chemistry of the natural environment and the modifications to that environment brought about by human activities. Includes readings in current literature and research on environmental issues.
Includes a laboratory.
- 2) Introduction to Oceanography (OCS 1005), Louisiana State University (Spring 2014)
Course Description: The world's oceans, their origin and evolution; interactions between physical, geological, chemical and biological processes in the marine environment; use and abuse of oceans.
- 1) Environmental Quality (ENSC 002), University of California Riverside (Summer 2013)
Course Description: An introduction to environmental science, focusing on the impact of human development and technology on the quality of natural resources and living organisms. Topics covered include soil, water, and air pollution; water, land, and food resources; wildlife management and species endangerment; toxicology and risk management; solid and hazardous waste management. A separate discussion/debate course accompanied the lecture.

Workshops

- 1) "Aquaculture Adventure" educator workshops, Palacios, TX (June 20-22, Aug 8-10, 2018; June 5-7, 2019)
Description: The workshops were geared to Formal educators (June 20-22, 2018 & June 5-7, 2019) from elementary through high school levels as well as informal educators (Aug 8-10, 2018).

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Educators engaged in the topic of future water quality challenges through lectures, field activities, hands-on classroom activities, and tours. Topics and activities included: global to local perspectives in aquaculture, a tour of a working aquaculture facility, wastewater treatment, a tour of a municipal wastewater treatment plant, and contaminants of emerging concern. In total there were 47 participants from schools across Texas. Teachers received 20 hours of continuing profession education (CPE) hours and Texas Environmental Education Advisory Committee (TEEAC) Credit. Funding for these workshops was provided the USDA NIFA AFRI (2016-69007-25093).

Short-Courses

- 2) Short-Course Organizer, SETAC North America 40th Annual Meeting, Toronto, ON, CA (11/19)
"Microplastics: Gotta Catch Them All! QA/QC best management practices for robust microplastic method development"
- 1) Short-Course Organizer, Instituto Mexicano de Tecnologia del Agua (IMTA), Jiutepec, Morelos, MX (10/19)
"Microplastics: Gotta Catch Them All! QA/QC best management practices for robust microplastic method development"

Certifications

- 1) Certificate of Professional Development in Best Practices for Online Course Design, TAMU-CC (May 2015)
Description: A 40-hour course featuring 24 workshops on teaching in Blackboard, online pedagogy, and online course development.

AWARDS & HONORS

- 8) *Talk and Panel Participant. US Frontiers of Engineering Meeting Sponsored by the National Academy of Engineers (2020)*
- 7) American Chemistry Society AGRO Division New Investigator Award. *Finalist (2012)*
Chosen as one of three finalists to present my research on agricultural chemicals at the Fall ACS conference in Philadelphia.
- 6) Dr. Theodore "Ted" Ford Scholarship (2009)
Awarded for innovative research on environmental issues. LSU Department of Oceanography and Coastal Sciences.
- 5) Joseph Lipsey, Sr. Memorial Scholarship (2009)
Awarded for excellence in the studies of marine science. LSU Department of Oceanography and Coastal Sciences.
- 4) 2nd place graduate student oral presentation (2008)
Division S-10. Joint Meeting of the GSA, SSSA, ASA, CSSA, GCAGS and HGS. Houston, Texas.
- 3) Philip H. Jones award for best graduate student presentation (2007)
23rd Eastern Canadian Symposium on Water Quality Research, Sherbrooke, Quebec, Canada.
- 2) LSU Graduate School Supplement Award (2006)
Awarded for academic excellence
- 1) Beta Beta Beta National Biological Honor Society at Longwood University (2001)

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Awards for Students Advised by Dr. Conkle

- 4) Josiah Wray (2017-2018)
Welch Foundation Undergraduate Research Fellowship
- 3) Kelli Holt (2016)
Environmental Protection Agency Greater Research Opportunities (GRO) Undergraduate Fellowship
- 2) Kevin Nguyen (2016-2017)
Welch Foundation Undergraduate Research Fellowship
- 1) Christian D. Baez-Del Valle (2015)
Best Undergraduate Poster Presentation, 2015 Ana G Mendez University System Research Symposium. "Determination of Microplastic Concentration and Size Distribution in Personal Care Products to Improve knowledge of their Environmental Occurrence."

PROFESSIONAL SERVICE & LEADERSHIP

Student Advising

Committee Chair

Ph.D.

- 2) Nigel Lascelles, Coastal & Marine Systems Science (Fall 2019 –)
- 1) Samreen Siddiqui, Coastal & Marine Systems Science (Summer 2020)

M.S.

- 9) Jessica Meyers, Coastal & Marine Systems Science (Fall 2019 –)
- 8) Katherine Nunez, Environmental Science (Fall 2019 –)
- 7) Matthew Watford, Environmental Science (Spring 2019 –)
- 6) Carol Haley, Chemistry (Fall 2018 –)
- 5) Zahra Hormoz, Environmental Science (Fall 2015 – *Ex Summer 2021*)
- 4) Marcy Durham (non-thesis), Environmental Science (Fall 2018)
- 3) Kate Martin, Coastal & Marine Systems Science (Summer 2018)
- 2) Kieu Tran, Coastal & Marine Systems Science (Summer 2018)
- 1) Elijah Waddell, Environmental Science (Spring 2018)

Committee Member

Ph.D.

- 5) Elizabeth Dibona, Coastal & Marine Systems Science (Fall 2021 –)
- 4) Jacob Oster, Marine Biology (Spring 2021 –)
- 3) Gina Vilches, Education (Dean's Rep; Fall 2020 –)
- 2) Joseph Reustle, Marine Biology (Spring 2019)
- 1) Lee Pinnell, Marine Biology (Fall 2019)

M.S.

- 7) Jessie Matarrita Rodriguez, Coastal & Marine Systems Science (Exp. Spring 2022)
- 6) Adrianna Chapa, Coastal & Marine Systems Science (Exp. Spring 2022)
- 5) Elizabeth Dibona, Coastal & Marine Systems Science (Spring 2020)
- 4) Polly Hajovsky, Coastal & Marine Systems Science (Summer 2019)

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- 3) Camille Valenta, Environmental Science (Summer 2018)
- 2) Eugenia Barnes, Environmental Sciences (Summer 2018)
- 1) Kelly Correia, Marine Biology (Spring 2016)

Undergraduate Researchers

- 28) Maddie Holley (Spring 2021 – Present)
- 27) Jose Rojas (Fall 2020 – Present)
- 26) Demori Lawrence Thompson (Summer 2020 – Fall 2020)
- 25) Elizabeth Hamilton (Spring 2020 – Spring 2021)
- 24) Daniel Lansidel (Spring 2020 – Spring 2021)
- 23) Elizabeth Horn (Spring 2020)
- 22) Lilliana Cantu (Summer 2019)
- 21) Cassandra Quiroz (Summer 2019)
- 20) Joel Dominguez (Summer 2019 – Spring 2020)
- 19) Katherine Nunez (Summer 2019)
- 18) Daniella Bergmann (Spring 2019)
- 17) Mason Fitzwater (Fall 2017 – Spring 2019)
- 16) Grace Grainer (Fall 2017 – Spring 2019)
- 15) Nicholas Dominguez (Spring 2018)
- 14) Rachel Stefancik (Spring 2018)
- 13) Claire Berger (Fall 2017 – Fall 2018)
- 12) Elise Rother (Fall 2017 – Fall 2018)
- 11) Jennifer Aredondo (Fall 2017 – Spring 2018)
- 10) Katelyn Tubbs (Fall 2017 – Spring 2018)
- 9) Terry Gearing (Fall 2017 – Spring 2018)
- 8) Andrew Dittmar (Fall 2017)
- 7) Kelli Holt - USEPA Undergraduate GRO Fellowship (Spring 2017)
- 6) Rebecca Wagner (Fall 2016 – Spring 2018)
- 5) Josiah Wray (Fall 2016 – Spring 2018)
- 4) Kevin Nguyen - Welch Fellowship (Spring 2016 – 2018)
- 3) Jecilyn Luckado (Fall 2015 – Spring 2016)
- 2) Christian D. Baez-Del Valle - Intern from Puerto Rico (Summer 2015)
- 1) Kelli Holt (Spring 2015 – Spring 2016)

ETEAMS (Silliman NSF summer program for science teachers)

- 3) Suzi Uhling (Summer 2016)
- 2) Allison Cortinas (Summer 2016)
- 1) Lisa Coates (Summer 2016)

Internships

- 5) Daniela Bergmann (Spring 2019)
- 4) Felipe Martinez (Fall 2018)

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- 3) Katelyn Tubbs (Spring 2018)
- 2) Claire Berger (Fall 2017)
- 1) Christian Báez Del Valle (Intern from Puerto Rico with DHS funding; Summer 2015)

Texas A&M University Corpus Christi Service

PEEnS Instrumentation Committee (2021 -)

TAMUCC Affordable Learning Tools Committee (2020 -)

College of Science and Engineering College Steering Committee (2019 -)

TAMUCC Open Educational Resources Taskforce (2017- 2019)

College of Science and Engineering Distinguished Lecturers Selection Committee (2016-2017)

Physical & Environmental Sciences SACNAS Representative (2015-2016)

Coastal & Marine Systems Science Recruitment Committee (2014-)

Grant Review Panels

Gulf of Mexico Research Initiative: RFP-II (2012)

Description: Assessed proposals for research funding provided by British Petroleum (\$500 million) to examine the Deep-water Horizon Oil Spill in the Gulf of Mexico. Served on the panel evaluating "Environmental effects of the petroleum/dispersant system on the sea floor, water column, coastal waters, beach sediments, wetlands, marshes, and organisms; and the science of ecosystem recovery." This panel helped select proposals to receive \$22.5 million dollars over a three-year period. Reviewed 21 proposals and served as the lead reviewer of 5.

Gulf of Mexico Research Initiative: RFP-I (2011)

Description: Assessed proposals for research funding provided by British Petroleum (\$500 million) to research the Deep-water Horizon Oil Spill in the Gulf of Mexico. Served on the panel evaluating "Environmental effects of the petroleum/dispersant system on the sea floor, water column, coastal waters, beach sediments, wetlands, marshes and organisms; and the science of ecosystem recovery." This panel helped select 8 consortiums to receive \$112.5 million dollars over a three-year period. Reviewed 17 proposals and served as the lead reviewer of 4.

Grant Reviewer

National Science Foundation: Hydrologic Sciences (2021), Wisconsin Sea Grant (2021), Minnesota Sea Grant (2017), National Science Foundation: Hydrologic Sciences (2013), National Science Foundation: Environmental Chemical Science (2011)

Society Affiliations

Society of Environmental Toxicology and Chemistry (2011-)

Program and Social Committee for SETAC North America Annual Meeting Fort Worth, TX (2019-2020)

Co-host of 2022 South-Central Regional Chapter Meeting (April/May 2022)

Immediate Past President of South-Central Regional Chapter (2019-2020)

President of South-Central Regional Chapter (2018-2019)

Vice President South-Central Regional Chapter (2017-2018)

Soil Science Society of America (2007-2015)

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Early Career Members Committee - 2013 to 2015

American Chemical Society (2008 & 2012)

Society for Wetland Scientists (2007-2010)

Conference Participation

South Central SETAC Regional Chapter Meeting Chair and Host (04/22) – **Postponed to 2022**

Planned and hosted the 2020 regional chapter meeting in Corpus Christi Texas with an expected 100 participants from Texas, Oklahoma and Louisiana

Short-Course Organizer, SETAC Toronto (11/19)

Microplastics: Gotta Catch Them All! QA/QC best management practices for robust microplastic method development. Toronto, ON, CA

Topical Session Co-Chair, SETAC Sacramento (11/18)

Water: Bringing Science and Engineering Together to Address Impacts of Climate Change on Water Supply and Water Quality. Sacramento, CA.

Topical Session Chair, SETAC Orlando, SETAC World Congress (11/16)

Plastic Debris: From Land to the Sea. Orlando, FL.

Invited Panelist, SETAC National Meeting (11/12)

“Resume and C.V. Writing Tips.” Long Beach, CA.

Topical Session Co-Chair, Soil Science Society of America National Meeting (10/11)

“Treatment wetlands and vegetative strips for water quality improvement.” Wetland Soils (S-10) and Soils and Environmental Quality (S-11). San Antonio, TX.

Manuscript Reviewer

Environmental Science and Technology, Water Research, Journal of Chromatography A, Marine Pollution Bulletin, Journal of Environmental Quality, Chemosphere, Journal of Soils & Sediments, Soil Science Society of America Journal, Science of the Total Environment, Environment International, Pest Management Science, Environmental Science and Pollution Research, Chemistry Central Journal, Environmental Pollution and California Agriculture Journal.

Professional Service

Meeting Host, South Central Chapter, Society for Environmental Toxicology & Chemistry (Spring 2022)

Past President, South Central Chapter; Society for Environmental Toxicology & Chemistry (2018-2019)

Responsibilities: Address the needs of the chapter, coordinating communication across members from academia and industry and help to facilitate the chapters annual meeting.

Expert Witness regarding plastic debris in the environment (2018-present)

San Antonio Bay Estuarine Waterkeeper and S. Diane Wilson vs. Formosa Plastics Corporation. My input regarding the presence, fate and impacts of plastic debris was found credible by the Federal Judge and aided the largest ever settlement (\$50,000,000) in a Clean Water Act case brought by a private entity. More importantly, the settlement requires Zero future plastic discharge.

President, South Central Chapter; Society for Environmental Toxicology & Chemistry (2018-2019)

Responsibilities: Address the needs of the chapter, coordinating communication across members from academia and industry and help to facilitate the chapters annual meeting.

Vice President, South Central Chapter; Society for Environmental Toxicology & Chemistry (2017- 2018)

J. L. CONKLE

Assistant Professor, Texas A&M University Corpus Christi

Responsibilities: Assist the chapter president in addressing the needs of the chapter, coordinating communication across members from academia and industry and help to facilitate the chapters annual meeting. This position will transition into the chapter president in 2018.

Early Career Members Committee, Soil Science Society of America (2013-2016; Chair 2015)

Responsibilities: Worked as a team to develop programming for early career members at annual meetings, helped select the annual Early Career Professional Award and serve as a voice for early career members within the society.

Campus Recording Secretary, UC Postdoc Union (UAW 5810) (2011-2013)

Responsibilities: Helped organize the first postdoc union on the UCR campus. Served on the committee to design and implement professional development tools to assist newly appointed postdocs in determining and achieving early career goals. Attended joint council meetings of all 10 UC campus representatives to discuss the development of resources to meet the needs of postdocs.

Vice-President, Marine Environmental Researchers, Louisiana State University (2008-2009)

Responsibilities: Helped organize meetings, community outreach and social events. Attended department faculty meetings. Developed and maintained the first MER website.

Seminar Chair, Marine Environmental Researchers at Louisiana State University (2007-2008)

Responsibilities: Scheduled and invited leading researchers from various fields to give weekly seminars in the Department of Oceanography & Coastal Sciences

Workshop Participation

Mapping the Lifecycle of Antibiotics in Southeast Asia 2016 (09/16)

Invited as an expert on emerging contaminants to a workshop in Singapore that was co-sponsored the U.S. State Department and U.S. Geological Survey.

Texas Riparian & Stream Ecosystem Education (08/14)

Lower Nueces River, Petronila Creek & Oso Creek

Community Service

Science Fair Judge. Flour Bluff Intermediate (12/14)

Thanksgiving Volunteer. Helped serve 5,000 meals to families in Riverside, CA (11/11)

Science Fair Judge. Riverside Unified School District Science & Engineering Fair (2011)

MOvember. Fundraising for prostate and testicular cancer research (2009-2011)

Exhibitor. Louisiana Sea Grant Ocean Commotion (2009)

Science Fair Judge. Louisiana Science and Engineering Fair Region 7 (2009)

Beach Sweep. Cleaned areas around the Lake Pontchartrain basin (2006-2007)

Beach Sweep. Cleaned beaches of the Cooper River in Charleston, SC (2005)

Adopt a Highway. Removed trash along roads in coastal South Carolina (2004-2005)

MESSA 8K for H₂O. Raised money for water quality in Charleston, SC (2004-2005)

PRESENTATIONS

Invited

J. L. CONKLE

Assistant Professor, Texas A&M University Corpus Christi

- 41) Plastics and Transforming Ecosystems Science into Accountability. *Talk and Panel Participant. US Frontiers of Engineering Meeting Sponsored by the National Academy of Engineers*, Virtual Meeting (02/21)
- 40) Microplastics in the Mississippi River. [§]K.M., E.A. Hasenmuller, J.R. White, L.G. Chambers, **J.L. Conkle**. *National Academies of Science Committee on United States Contributions to Global Ocean Plastic Waste*, Virtual (01/21)
- 39) Microplastics sampling and analysis. J.L. Conkle. *Plenary Speaker* at Tennessee Aquarium Microplastics Workshop, Chattanooga, TN (09/20)
- 38) Microplastics in the Mississippi River. Martin, [§]K.M., E.A. Hasenmuller, J.R. White, L.G. Chambers, **J.L. Conkle**. Upper Mississippi River Basin Association Quarterly Meeting, Virtual (07/20)
- 37) The cost of business in Texas: Plastic and our coast. Conkle, J.L. Oso Bay Wetlands Preserve and Learning Center Eco-Expert Series, Corpus Christi, TX (11/19)
- 36) The cost of business in Texas: Plastic and our coast. Conkle, J.L. Baylor University SETAC Student Chapter (04/19)
- 35) All the rivers (and their plastic loads) flow into the sea, yet the sea is never full... or is it? Martin, [§]K.M., E.A. Hasenmuller, J.R. White, L.G. Chambers, J.L. Conkle. UT Marine Science Institute (11/18)
- 34) Microplastics research: A series of unforeseen incidents. Conkle, J.L., [§]K.M. Martin, E. Waddell. Microplastics Interest Group Oral Presentation at SETAC North America 39th Annual Meeting. Sacramento, CA (11/18)
- 33) Water, Water Every Where" but is it safe to use? Conkle, J.L. Department of Engineering, Texas A&M University Kingsville. Kingsville, TX (10/18)
- 32) Plastic Debris in Coastal Bend Waters. Conkle, J.L. City of Corpus Christi Watershore Beach advisory Committee, Corpus Christi, TX (03/17)
- 31) Water, Water Every Where" but is it safe to use? Conkle, J.L. Department of Earth & Atmospheric Sciences, St. Louis University, St. Louis, MO (09/17)
- 30) Trash in our Coastal Bend Community. Conkle, J.L. Coastal Bend Bays Foundation Coastal Issues Forum. Corpus Christi, TX (09/17)
- 29) Water, Water Every Where" but is it safe to drink? Conkle, J.L. TAMUCC Mary and Jeff Bell Library Outstanding Authors Series, Corpus Christi, TX (02/17)
- 28) Just some old wild shirts and a couple pairs of pants: Our clothes are makin' trouble in the ocean. Conkle, J.L. Department of Biology Seminar, Texas State University, San Marcos, Texas (02/17)
- 27) Just some old wild shirts and a couple pairs of pants: Our clothes are makin' trouble in the ocean. Conkle, J.L. Texas State Aquarium Conservation Seminar, Corpus Christi, TX (02/17)
- 26) Marine debris and plastic pollution. Conkle, J.L, Waddell, E., Martin, K. Texas State Aquarium Teen Café, Corpus Christi, TX (02/17)
- 25) Just some old wild shirts and a couple pairs of pants: Our clothes are makin' trouble in the ocean. Conkle, J.L. University of Central Florida Departments of Chemistry and Biology. Orlando, FL (11/16)
- 24) Emerging Contaminants. Conkle, J.L. United States Army Corps of Engineers Engineering Research and Development Center Environmental Laboratory, Vicksburg, MS (01/16)
- 23) Plastic: Reshaping our lives and the environment. Conkle, J.L. Rockport Aquarium, Rockport, TX (12/15)

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Assistant Professor, Texas A&M University Corpus Christi

- 22) Plastic: Reshaping our lives and the environment. Conkle, J.L. Department of Engineering, Texas A&M University Kingsville. Kingsville, TX (11/15)
- 21) Plastic: Reshaping our lives and the environment. Conkle, J.L. Coastal Bend Bays Foundation Coastal Issues Forum. Corpus Christi, TX (05/15)
- 20) Adventures in academia: Things you should know before you get started. Conkle, J.L. Beta Beta Beta National Biological Honor Society. Texas A&M Corpus Christi. Corpus Christi, TX (04/15)
- 19) Treated wastewater irrigation and subsequent crop uptake of pharmaceuticals and personal care products. **Conkle, J.L.**, Wu, X., Ernst, F., Gan, J., LSU School of the Coast & Environment weekly seminar. Baton Rouge, LA (03/14)
- 18) Adventures in Academia: Things you should know but have probably never been told. **Conkle, J.L.**, Keynote Speaker at the Graduate Student Symposium (GSS) at the Louisiana Universities Marine Consortium (LUMCON), Cocodrie, LA (02/14)
- 17) Water quality in wetlands and agricultural systems. **Conkle, J.L.**, Seminar at Texas A&M Corpus Christi, Corpus Christi, TX (02/14)
- 16) Water quality in wetlands and agricultural systems: Implications for public health. **Conkle, J.L.**, Seminar at Tulane University, New Orleans, LA (09/13)
- 15) Emerging contaminants in the Environment. **Conkle, J.L.**, Seminar at Villanova University. Villanova, PA (07/13)
- 14) Wetlands and water quality. **Conkle, J.L.**, Seminar at Savannah State University. Savannah, GA (05/13)
- 13) Career development panel. **Conkle, J.L.**, Panelist at UC Postdoc Union Membership meeting. University of California Los Angeles. Los Angeles, CA (04/13)
- 12) Emerging contaminants in Wetlands. **Conkle, J.L.**, Seminar at Skidaway Institute of Oceanography. Savannah, GA (01/13)
- 11) Choosing a path for your postdoc. **Conkle, J.L.**, Panelist at Obtaining Postdocs in Sciences Workshop, Graduate Student Resource Center, UC Riverside. Riverside, CA (01/13)
- 10) Assessment of total PPCP pollution in water samples using a new contamination index. **Conkle, J.L.**, Huang, W., Sickman, J., Gan, J. Oral presentation at the American Geophysical Union Annual Meeting, San Francisco, CA (12/12)
- 9) Tips on resume and C.V. writing. **Conkle, J.L.**, Panelist for the North American Student Advisory Council's (NASAC) Student Noon-time Seminar at the SETAC North American 33rd Annual meeting, Long Beach, CA (11/12)
- 8) Environmental fate of chemicals from the past, present and future. **Conkle, J.L.**, Gan, J., Seminar at BASF Corporation, Research Triangle Park, Durham, NC (10/12)
- 7) A survey of groundwater quality in the Beaumont Groundwater Management Zone. **Conkle, J.L.**, Huang, W., Sickman, J., Gan, J. Oral presentation at the Inland Empire Geological Society monthly meeting, Riverside, CA (07/12)
- 6) Septic waste contamination in the Beaumont groundwater basin. **Conkle, J.L.**, Huang, W., Sickman, J., Gan, J. Beaumont Cherry Valley Water Agency, Beaumont, CA (04/11)
- 5) Detection of septic system waste in the groundwater of Beaumont California using chemical and isotopic tracers. **Conkle, J.L.**, Huang, W., Sickman, J., Gan, J. San Gorgonio Pass Water Agency, Beaumont, CA (11/10 & 01/11)

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- 4) Pharmaceuticals and personal care products in terrestrial and aquatic environments. **Conkle, J.L.,** White, J.R. Environmental Toxicology seminar. University of California, Riverside (10/10)
- 3) Pharmaceuticals in environmental systems. **Conkle, J.L.,** White, J.R. Seminar at Longwood University, Farmville, VA (10/10)
- 2) Removal of pharmaceutically active compounds by a lagoon-wetland wastewater treatment system in southeast Louisiana. **Conkle, J.L.,** White, J.R. Student Chapter of the Society for Wetland Scientists. Louisiana State University, Baton Rouge, LA (01/08)
- 1) Biodiesel as an alternate fuel source. **Conkle, J.L.,** Panelist at Alliance for Planet Earth's Alternative Energy Symposium. The College of Charleston, Charleston, SC (04/05)

Student Presentations (*presenter; #Undergraduate researcher; §Graduate student researcher)

- 12) Uptake and depuration of diltiazem and GenX by Tilapia (*Oreochromis mossambicus*). *§Siddiqui, S; #Fitzwater, M.; Scarpa, J.; Brooks, B.; Conkle, J.L. Poster at 40th Annual SETAC North America Meeting. Toronto, CA (11/19)
- 11) Bioaccumulation and depuration of diltiazem by Tilapia. *§Siddiqui, S; #Fitzwater, M.; Scarpa, J.; Conkle, J.L. World Aquaculture Society, New Orleans, LA (03/19)
- 10) Future Water Quality Challenges to Aquaculture. *§Siddiqui, Samreen; Conkle, J.L.; Scarpa, J.; Sadovski, A.; Brooks, B. Poster at 39th Annual SETAC North America Meeting. Sacramento, CA (11/18)
- 9) Presence of Microplastic Fibers in Highly Trafficked Areas of Academic Buildings. **Wray, J, J.L. Conkle. Poster at SETAC South Central Chapter Regional Meeting. Junction, TX (04/18)
- 8) Application of a Technique for Detecting and Estimating the Quantity of Macro-Litter on Beaches Using an Unmanned Aerial System (UAS). §*Tran, K.; Conkle J.L.; Starek, M.; Gibeaut, J. Poster at 6th International Marine Debris Conference. San Diego, CA (03/18)
- 7) Application of a Technique for Detecting and Estimating the Quantity of Macro-Litter on Beaches Using Unmanned Aircraft System. §Tran, K.; Conkle J.L.; *Starek, M.; Gibeaut, J. Poster at AGU. New Orleans, LA (12/17)
- 6) Assessing Microplastics in the Mississippi River Watershed and Their Discharge to the Gulf of Mexico. *§Martin, K.M.; Hasenmueller, L.; White, J.R.; Chambers, L.G.; Conkle, J.L. Oral Presentation at 38th Annual SETAC National Meeting. Minneapolis, MN (11/17)
- 5) Relationships and trends of wastewater treatment plant effluent and stream flow within the United States. *§Siddiqui, Samreen; Conkle, J.L.; Scarpa, J.; Sadovski, A.; Brooks, B. Poster at 38th Annual SETAC National Meeting. Minneapolis, MN (11/17)
- 4) Quantifying Microplastic Debris from a Wastewater Treatment Plant in Corpus Christi, TX. **Holt, K., §Waddell, E., Conkle, J.L. Poster at SETAC South Central Chapter Regional Meeting. Houston, TX (04/17)
- 3) Pesticides in Baffin Bay. **Nguyen, K., §Hormoz, Z., Conkle, J.L. Poster at Undergraduate Research Symposium at the University of Houston-Victoria. (04/17)
- 2) New Methods for recovery of microplastics from digestive and respiratory tissue. *§Waddell, E., Conkle, J.L. Poster presentation at 7th SETAC World Congress and 37th Annual SETAC North America annual meeting, Orlando, FL (11/16)
- 1) §Determination of microplastic concentration and size distribution in personal care products to improve knowledge of their environmental occurrence. *Baez-Del Valle, C.D., Conkle, J.L. Poster

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presentation at the 2015 Ana G. Mendez University System Research Symposium, San Juan, Puerto Rico. **Best Undergraduate Poster Presentation.** (08/15)

Conferences (*presenter; #Undergraduate researcher; §Graduate student research)

- 34) Effects of microplastics in olfactory function of Texas bass species. *Huertas, M., J.L. Conkle, C.M. Sayes. Texas Plastic Pollution Symposium. Virtual. (03/21)
- 33) Mercury & Plastic in Commercial & Recreational Fisheries in Lavaca, Matagorda and San Antonio Bays: Risk Assessment and Interaction between these two contaminants. *Conkle, J.L., J. Dutton. Texas Plastic Pollution Symposium. Virtual. (03/21)
- 32) With growing plastic production, how do we identify sources of pre-production pellets and hold parties responsible for spills and releases? *Conkle, J.L. Interactive Poster at 40th Annual SETAC North America Meeting. Toronto, CA (11/19)
- 31) Quantifying and Characterizing the Mississippi River's Contribution of Microplastic Debris to the Gulf of Mexico §Martin, K.M, Hasenmueller, J.R. White, L.G. Chambers, *J.L. Conkle. Poster presentation at the 39th Annual SETAC North America Meeting, Sacramento, CA (11/18)
- 30) Macro and Microplastics in Corpus Christi. §Tran, K, §K. Correia, §E. Waddell, §C. Valenta, §K.M. Martin, *J.L. Conkle. Oral Presentation at the Texas Plastic Pollution Symposium (10/18)
- 29) Assessing Microplastics in the Mississippi River Watershed and Their Discharge to the Gulf of Mexico. §Martin, K.M, Hasenmueller, J.R. White, L.G. Chambers, *J.L. Conkle. Oral Presentation at the Texas Plastic Pollution Symposium (10/18)
- 28) Perspectives on Urbanization, Water Reuse, and Aquaculture Product Safety. *Brooks, B.W.; Conkle, J.L. Oral Presentation at SETAC Europe. Rome, Italy (05/18)
- 27) Engaging high school students in future water quality challenges. Mullins, M; Scarpa, J; Brooks, B.W.; Balboa, B.; Conkle, J.L. Oral presentation at the Louisiana Environmental Education State Symposium, Baton Rouge, LA (02/18)
- 26) Engaging high school students in future water quality challenges. Mullins, M; Scarpa, J; Brooks, B.W.; Balboa, B.; Conkle, J.L. Oral presentation at the Informal Science Education Association of Texas (ISEA) Annual Meeting, Fort Worth, TX (02/18)
- 25) Assessing Microplastic Loads in the Mississippi River and Its Major Tributaries. *Hasenmueller, H.A.; §Martin, K.M; Conkle, J.L.; White, J.R. Poster at AGU. New Orleans, LA (12/17)
- 24) Engaging high school students in future water quality challenges. Mullins, M; Scarpa, J; Brooks, B.W.; Balboa, B.; Conkle, J.L. Oral presentation at the Conference for the Advancement of Science & Teaching (CAST), Houston, TX (11/17)
- 23) Do surface water surveys account for plastic microbeads? *Conkle, J.L., §Baez-Del Valle, C.D., Turner, J. Oral presentation at SETAC South-Central Chapter Annual Meeting, Fort Worth, TX (05/16)
- 22) Most microbeads in a preliminary survey of personal care products are smaller than the typical 330µm trawl mesh size used in surface water surveys. *Conkle, J.L., #Baez-Del Valle, C. D., Turner, J. Poster presentation at the 2016 Ocean Sciences Meeting, New Orleans, LA (02/16)
- 21) How do you take your vegetables; With or without drugs? Wu, X., *Conkle, J.L., Ernst, F., Gan, J. Oral Presentation at SETAC South-Central Chapter Annual Meeting, Lafayette, LA (05/15)
- 20) Drug accumulation in vegetables from irrigation with recycled wastewater. *Conkle, J.L., Wu, X., Ernst, F., Gan, J. Seminar at the University of Texas Pan American, Edinburg, TX (10/14)

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- 19) Drug accumulation in vegetables from irrigation with recycled wastewater. *Conkle, J.L., Wu, X., Ernst, F., Gan, J. Seminar at the University of Texas Brownsville, Brownsville, TX (10/14)
- 18) How do you like your veggies; with or without drugs? *Conkle, J.L., Wu, X., Ernst, F., Gan, J. Harte Research Institute Weekly Seminar Series, Texas A&M Corpus Christi, TX (09/14)
- 17) A novel approach to describe the total PPCP contamination in aqueous environments. *Conkle, J.L., Huang, W., Sickman, J., Gan, J. Oral presentation at the SETAC North American 33rd Annual Meeting, Long Beach, CA (11/12)
- 16) Degradation and adsorption of carbonated dimethyl disulfide in soils with grape production in California. Cabrera, J.A., *Conkle, J.L., Wang, D, Quin, R., Gan, J. Poster presentation at the 2012 Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions (MBAO), Orlando, FL (11/12)
- 15) 40 years later: A reconnaissance of DDT in sediments of two southern California lakes. *Conkle, J.L., Delgado-Moreno, L., Anderson, M.J., Gan, J. Oral presentation at the 244th American Chemical Society National Meeting and Exposition, Philadelphia, PA. *Finalist; AGRO Division New Investigator Award.* (08/12)
- 14) Pharmaceuticals and personal care products in wetlands, wastewater irrigation and groundwater. *Conkle, J.L., Gan, J. Oral presentation at the 2012 USDA Working Group W-2082 (Evaluating the Physical and Biological Availability of Pesticides and Contaminants in Agricultural Ecosystems) Annual Meeting, Texas A&M Kingsville Citrus Center, Weslaco, TX (01/12)
- 13) Degradation and sorption of PPCPs in oxic and anoxic wetland soils. *Conkle, J.L., Gan, J. Oral presentation at the ASA-CSSA-SSSA 2011 International Annual Meeting, San Antonio, TX (10/11)
- 12) Distribution of organochlorine and current-use pesticides in sediments of the Salton Sea. Wang, W., *Conkle, J.L., Delgado-Moreno, L., Anderson, M., Amrhein, C., Gan, J. Oral presentation at the 2011 Southern California Regional Chapter of the Society of Environmental Toxicology and Chemistry Annual Meeting, Huntington Beach, CA (04/11)
- 11) Wetland removal of PPCPs in treated wastewater. *Conkle, J.L., White, J.R., C. Lattao, R.L. Cook, C.D. Metcalfe, J. Gan. Poster presentation at the Global Implications for Domestic and Industrial Water Reuse Workshop, Tucson, AZ (01/11)
- 10) Antibiotic effects on microbial respiration in two wetland soils. *Conkle, J.L., White, J.R. Oral presentation at ASA-CSSA-SSSA International Annual Meeting, Long Beach, CA (11/10)
- 9) Pharmaceutical compounds in wastewater: Potential for removal in treatment wetlands. Conkle, J.L., *White, J.R., Metcalfe, C. Poster presentation at the Urban Environmental Pollution (ENPO2010) Conference. Boston, MA (06/10)
- 8) Effects of antibiotics on soil microbe mediated CO₂, CH₄ and N₂ evolution in wetland peat soil. *Conkle, J.L., White, J.R. Oral presentation at the 10th International Congress on Ecology (INTECOL 10). Brisbane, QLD, AU (08/09)
- 7) Sorption and desorption of three fluoroquinolone antibiotics to a wetland soil. *Conkle, J.L., Lattao, C., White, J.R., Cook, R.L. Oral presentation at the Joint Meeting of the GSA-SSSA-ASA-CSSA-GCAGS-HGS. Houston, Texas. 2nd Place Graduate Student Oral Presentation, Division S-10 (10/08)
- 6) Sorption and desorption of three fluoroquinolone antibiotics to a wetland soil. *Conkle, J.L., Lattao, C., White, J.R., Cook, R.L. Oral presentation at the Department of Oceanography and Coastal Sciences annual Graduate Student Symposium, LSU, Baton Rouge, LA (04/08)

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Assistant Professor, Texas A&M University Corpus Christi

- 5) Analysis and sorption of pharmaceutical compounds to organic-rich wetland soil. *Conkle, J.L., Latta, C., White, J.R., Cook, R.L. Poster presentation at the 235th American Chemical Society National Meeting, New Orleans, LA (04/08)
- 4) Removal of pharmaceutically active compounds by a lagoon-wetland wastewater treatment system in Southeast Louisiana. *Conkle, J.L., White, J.R., Metcalfe, C. Oral presentation at the Graduate Student Symposium, LUMCON, Cocodrie, LA (02/08)
- 3) Removal of pharmaceutically active compounds by a lagoon-wetland wastewater treatment system in southeast Louisiana. *Conkle, J.L., White, J.R., Metcalfe, C. Oral presentation at the ASA-CSSA-SSSA 2007 International Annual Meeting, New Orleans, LA (11/07)
- 2) Removal of pharmaceutically active compounds by a lagoon-wetland wastewater treatment system in southeast Louisiana. *Conkle, J.L., White, J.R., Metcalfe, C. Oral presentation at the 23rd Eastern Canadian Symposium on Water Quality Research, Sherbrooke, Quebec, Canada. *Philip H. Jones award for best graduate student presentation* (10/07)
- 1) Removal of anthropogenic nitrogen by marshes in a Mississippi River freshwater diversion project. *Conkle, J.L., Gardner, L., Fry, B., White, J.R. Poster presentation at the 10th International Wetlands Biogeochemistry Symposium, Annapolis, MD (04/07)

ANALYTICAL EXPERIENCE

- Method development and analysis of contaminants using a Thermo Scientific TSQ 9000 triple quadrupole mass spectrometer coupled with a TriPlus RSH headspace analyzer
- Method development and analysis of emerging contaminants using a Thermo Scientific Ultimate 3000 HPLC with ISQEC Mass spectrometer (TAMUCC)
- Analysis of materials using a Thermo Nicolet iS10 FTIR and iN5 FTIR microscope (TAMUCC)
- Method development and analysis of emerging contaminants using a Waters Acquity UPLC-Trinity triple quadrupole mass spectrometer (UCR)
- Method development and analysis of PCBs and pesticides using a Varian CP 3800 GC with 1200 quadrupole MS/MS (UCR)
- Solid Phase Microextraction (SPME) of organochlorine pesticides using a Varian CP 3800 GC with 1200 quadrupole MS/MS equipped with a Combi Pal auto sampler (UCR)
- Method development and analysis of PCBs and pesticides using an Agilent 6890N GC-MS (UCR)
- Extraction of pharmaceuticals, pesticides and PCBs from water and soil (LSU, UCR & TAMUCC)
- Method development and analysis using an Agilent 1100 HPLC with UV and fluorescence (LSU)
- Analysis of nutrients using a Seal discrete nutrient analyzer (LSU)
- Method development and analysis using a Shimadzu GC with ECD, FID, and TCD detectors (LSU)