

IDENTIFYING INFORMATION:

NAME: Carraway, Elizabeth

ORCID iD: <https://orcid.org/0000-0002-2172-6359>

POSITION TITLE: Associate Professor, Environmental Engineering and Earth Sciences

PRIMARY ORGANIZATION AND LOCATION: Clemson University, Clemson, SC, United States

Professional Preparation:

ORGANIZATION AND LOCATION	DEGREE (if applicable)	RECEIPT DATE	FIELD OF STUDY
University of Michigan, Ann Arbor, MI, USA	Postdoctoral Fellow	08/1992 - 07/1994	Environmental Engineering
California Institute of Technology, Pasadena, CA, USA	Postdoctoral Fellow	07/1990 - 07/1992	Environmental Engineering Science
University of Virginia, Charlottesville, VA, United States	PHD	04/1989	Chemistry
College of Charleston, Charleston, SC, United States	BS	05/1981	Chemistry

Appointments and Positions

2004 - present	Associate Professor, Environmental Engineering and Earth Sciences, Clemson University, Clemson, SC, United States
1999 - 2004	Assistant Professor, Environmental Toxicology (99-03), Environmental Engineering Science (03-04), Clemson University, Clemson, SC, United States
1994 - 1999	Assistant Professor, Environmental and Water Resources Engineering, Texas A&M University, College Station, TX, United States
1989 - 1990	Visiting Assistant Professor of Chemistry, Dickinson College, Carlisle, PA, United States

Products**Products Most Closely Related to the Proposed Project**

1. Bowman C, Lazar KB, Carraway E, Ladner DA, Whitmire SL. Fluvial Concentrations of Microplastics in a Suburban Micro-Watershed: Sampling Methodology and Analysis. Environmental Engineering Science. 2024 September 25. Available from: <https://home.liebertpub.com/cfp/microplastics-sources-fate-and-remediationsandnbsp/487/>
Other: doi.org/10.1089/ees.2024.0109
2. Bahamón-Pinzón D, Vélez-Torres I, Estes SL, Lee C, Moore A, Bridges W, Carraway E, Blazer H, Gutiérrez-Zapata HM, Vanegas D. Confined Within a Sugarcane Monoculture: A Participatory Assessment of Water Pollution and Potential Health Risks in the Community of El Tiple, Colombia. Science of the Total Environment. 2024 October 10; 946. Available from: doi.org/10.1016/j.scitotenv.2024.174072
3. McCourt K, Cochran J, Abdelbasir S, Carraway E, Tzeng T, Tsyusko O, Vanegas D. Potential Environmental and Health Implications from the Scaled-Up Production and Disposal of Nanomaterials Used in Biosensors. Biosensors. 2022 November 25; 12(12):1082-. Available

from: <https://www.mdpi.com/2079-6374/12/12/1082> DOI: 10.3390/bios12121082

- Langlois T, Carbajales-Dale M, Carraway E. Visualizing Relative Potential for Aquatic Ecosystem Toxicity Using the EPA Toxics Release Inventory and Life Cycle Assessment Methods. *Journal of South Carolina Water Resources*. 2018; 5(1):61-67. Available from: <https://tigerprints.clemson.edu/jscwr/vol5/iss1/2> DOI: 10.34068/JSCWR.05.05
- Mwaanga P, Carraway E, van den Hurk P. The induction of biochemical changes in *Daphnia magna* by CuO and ZnO nanoparticles. *Aquatic Toxicology*. 2014 May; 150:201-209. Available from: <https://linkinghub.elsevier.com/retrieve/pii/S0166445X14000897> DOI: 10.1016/j.aquatox.2014.03.011

Other Significant Products, Whether or Not Related to the Proposed Project

- Jordan M, Lazar K, Carraway E. Depositional Record of Plastic on a Catcher Beach, Sint Joris Baai, Curacao. Society of Environmental Toxicology and Chemistry (SETAC), Carolinas Regional Meeting; 2020 May; Virtual. Available from: https://cdn.ymaws.com/www.setac.org/resource/resmgr/regional_chapters/2020_Carolinas_SETA
- Ladner D, Carbajales-Dale M, Carraway E, Litherland P. Energy assessment at industrial and municipal wastewater treatment plants. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY. 2019 August 25; 258. PMID: 0065-7727
- Wagner JR, Bixler RD, Carraway ER, Moysey SM, Murdoch LR, Schlautman MA, Warner RD. Institutionalizing undergraduate research for geology majors through creative inquiry experiences. *Journal of College Science Teaching*. 2010; 39:30-7.
- Song H, Carraway ER, Kim YH, Batchelor B, Jeon BH, Kim JG. Amendment of hydroxyapatite in reduction of tetrachloroethylene by zero-valent zinc: its rate enhancing effect and removal of Zn(II). *Chemosphere*. 2008 Nov;73(9):1420-7. PubMed PMID: [18823642](https://pubmed.ncbi.nlm.nih.gov/18823642/).
- Kim Y, Carraway E. Dechlorination of Pentachlorophenol by Zero Valent Iron and Modified Zero Valent Irons. *Environmental Science & Technology*. 2000 April 12; 34(10):2014-2017. Available from: <https://pubs.acs.org/doi/10.1021/es991129f> DOI: 10.1021/es991129f

Certification:

I certify that the information provided is current, accurate, and complete. This includes but is not limited to current, pending, and other support (both foreign and domestic) as defined in 42 U.S.C. § 6605.

I also certify that, at the time of submission, I am not a party to a malign foreign talent recruitment program.

Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Carraway, Elizabeth in SciENCv on 2024-10-09 00:11:26