NICOLE E. MARTINEZ, PhD, CHP

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Pronouns: she/her

FDUCATION AND TRAINING

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Texas A&M University		College Station, TX	Applied Mathematical Science	s B.S., 2004
Colorado State University		Fort Collins, CO	Radiological Health Sciences	M.S., 2011
Colorado State University		Fort Collins, CO	Radiological Health Sciences	Ph.D., 2014
PROFESSIO	NAL EXPERIEN	CE		
2019-	Joint Faculty , Center for Radiation Protection Knowledge, Oak Ridge National Lab provide technical support for development and reporting of new radiation dose and risk models and radiation protection guidelines.			
2020-	Associate Professor, Environmental Engineering & Earth Sciences, Clemson Univ			
2014-2020	Assistant Professor, Environmental Engineering & Earth Sciences, Clemson Univ oversee a research program in radioecology and health physics, teach courses related to issues associated with radioactivity, mentor and advise students			
2013-2014	Consultant , <i>Risk Assessment Corporation</i> : reviewed and recommended river pathway bioconcentration factors for the Hanford site.			
2008-2011	Power Plant Performance Specialist , <i>Energy Services</i> , <i>General Physics Corporation</i> : designed and implemented power plant performance improvement programs using GP technologies and practices.			
2007-2008	Radiation Health Officer , <i>Naval Medical Center Portsmouth, U.S. Navy</i> : managed personnel, equipment, and administrative matters for the Radiation Health Division.			
2005-2007	Nuclear Power Instructor , <i>Naval Nuclear Power Training Command, U.S. Navy</i> : trained over 350 enlisted students in the fundamentals of the design, operation, and maintenance of naval nuclear propulsion plants.			

SELECTED PUBLICATIONS (ORCID: https://orcid.org/0000-0002-7184-3043)

- **Martinez, N.E.,** F. Zölzer (2024) "Review of ethical values across the ICRP system of radiological protection," J Radiol Prot 44: 031002
- Donaher, S.E., S.L. Estes, R.P. Dunn, A.K. Gonzales, B.A. Powell, **N.E. Martinez** (2024) "Site- and species-specific metal concentrations, mobility, and bioavailability in sediment, flora, and fauna of a southeastern United States salt marsh," Sci Total Environ 922:171262
- Gonzales, A.K., S.E. Donaher, B.D. Wattier, **N.E. Martinez** (2023) "Exposure of Lemna minor (common duckweed) to mixtures of uranium and perfluorooctanoic acid (PFOA)," Environ Toxicol Chem 42:2412-21
- Montgomery, D, N. Edayilam, H. Page, S.A. Sheriff, N. Tharayil, B.A. Powell, **N.E. Martinez** (2023) "Comparative uptake, translocation, and plant mediated transport of Tc-99, Cs-133, Np-237, and U-238 in Savannah River Site soil columns for the grass species Andropogon virginicus," Sci Total Environ 857-159400
- Wieder, J., T. Schneider, **N.E. Martinez** (2022) "The three R's of reasonableness in radiological protection: Relationships, rationale, and resources," J Radiol Protect 42:021513

Martinez, N.E., D.W. Jokisch, L.T. Dauer, K.F. Eckerman, J.D. Brockman, S.Y. Tolmachev, R. Goans, M. Avtandilashvili, M. Mumma, Boice, J.D., R.W. Leggett (2022) "Radium dial workers: back to the future" Int J Radiat Biol 98:750-68

ICRP (2022) Radiological Protection for Veterinary Practice. Ann ICRP 51(4):1-95

Root, C., R.R. Sinclair, T.A. DeVol, and **N.E. Martinez** (2020) "A mixed methods approach to improving radiation safety culture in a university setting," Health Phys 118:427-437

Willey, A.H., T.A. DeVol, and **N.E. Martinez** (2019) "Thermal neutron flux characterization and dose modeling of a PuBe source," Health Phys 117:669-679

ICRP (2018) Ethical Foundations of the System of Radiological Protection. ICRP Publication 138. Ann ICRP 47(1):1-65

Martinez, N.E. (2017) "Contributions from women to the radiation sciences: a brief history," Health Phys 112:376-83

COURSES TAUGHT

EES 4100/6100, Env Radiation Protection EES 8830, Advanced Topics in Radioecology

EES 4140/6140, Radioecology EES 8180, Nuclear Culture

EES 4800, Environmental Risk Assessment LS 2380, Vinyasa Yoga

EES 8150, Radiobiology LS 2350, Basic Yoga

EES 4900, Creative Inquiry

HONORS AND AWARDS

Murray Stokley Award for Excellence in Teaching, CU College of Engineering, Computing & Applied Sciences (2020)

First Place, Science as Art, CU College of Engineering, Computing & Applied Sciences (Spring 2020) Elda E. Anderson Award, Health Physics Society (2019)

Bo Lindell Medal, International Commission on Radiological Protection (2018)

Young Investigator's Award, 3rd International Conference on Radioecology & Environmental Radioactivity, International Union of Radioecology (2014)

PROFESSIONAL SERVICE AND AFFILIATIONS

American Academy of Health Physics: member (2015 -); panelist (2021-25) and vice-chair (2024), Panel of Examiners for Part 1 of the Certified Health Physics Exam.

International Commission on Radiological Protection: Committee 4 member (2017 -), vice-chair (2021 -); task groups 94 (ethics), 110 (veterinary practice, co-chair), 114 (reasonableness/tolerability), 125 (ecosystem services, chair)

National Council on Radiation Protection and Measurements: member (2022 -); vice-chair, Scientific Committee 6-13 (2021-)

Session planner and lead, Clemson PEER/WISE Girl Scout Day (2018,2019), Project WISE (2019, 2021), and STEM Day (2020)

Clemson University Commission on Women (2020-25), chair (2023-25)

EEES Representative, SCEEES Tenure, Promotion and Reappointment Committee (2024-25)

Member, National Academies of Sciences, Engineering, and Medicine (NASEM) Consensus Committee on Feasibility of Assessing Veteran Health Effects of Manhattan Project (1942-1947) Related Waste (2023 - Present)