

E. Annette Hernandez

Professional Preparation

Texas A&M University – Kingsville	Civil Engineering	B.S., 1997
Texas A&M University – Kingsville	Environmental Engineering	M.S., 2003
Texas A&M University – Kingsville	Environmental Engineering	Ph.D., 2007
Licensed Professional Engineer	State of Texas	No. 111463

Appointments

08/08 – Present:	Assistant Professor, Texas Tech University
08/03 – 08/07:	Graduate Research Assistant, TAMUK, Environmental Engineering
01/02 – 08/03:	Research Scientist, South Texas Environmental Institute, TAMUK
05/00 – 12/01:	Project Engineer, Arcadis WSBC, Laredo, TX
01/98 – 05/00:	Graduate Research Assistant, TAMUK, Environmental Engineering

Relevant Publications

1. Hernandez, E.A. and V. Uddameri, (2012) “Climate Change Impacts of Upland Rangeland Dynamics on Flow and Water Quality in the Riparian Zones,” *Applied Geography*, Submitted June 2012.
2. Hernandez, E.A. and V Uddameri (2011). “An Assessment of Optimal Waste Load Allocation and Assimilation Characteristics in the Arroyo Colorado River Watershed, TX along the US-Mexico Border,” *Clean Technologies and Environmental Policy*; DOI: 10.1007/s10098-012-0546-6.
3. Hernandez, E.A, and V. Uddameri, (2010) “Selecting Agricultural Best Management Practices for Water Conservation and Quality Improvements using Intuitionist Fuzzy Sets,” *Water Resources Management*, 24 (15) 4589 - 4612.
4. Chang, N-B. and E.A. Hernandez (2008). “Optimal Expansion Strategy for a Sewer System under Uncertainty,” *Environmental Modeling and Assessment*, 13, p. 93-113.
5. Hernandez, A. (2007). “Risk Based methodologies for Watershed Management – Integrated Simulation and Optimization Techniques,” Ph.D. Dissertation.

Other Significant Publications

1. Hernandez, E. A. and V. Uddameri, (2008) “Hazardous Waste Assessment, Management, and Minimization,” *Water Environment Research*, 80 (10), p. 1648-53.
2. Hernandez, E.A. and V. Uddameri (2006). “Hazardous Waste Assessment Management and Minimization – A Review,” *Water Environment Research*; 78 (10): 1802 - 1808
3. Uddameri, V. and E. Hernandez (2004). “Comment on the Association of Hydrophobic Organic Contaminants with Soluble Organic Matter: Evaluation of the Database of Kdoc Values by Henry Mott,” *Advances in Environmental Research*; Vol 8(3-4); 727-728
4. Hernandez, E.A. and A.N. Ernest (1999). “Aquatic Sediments,” *Water Environment Research*, vol. 71, no. 5, pp. 948-973.

Synergistic Activities

1. Dr. Hernandez participated in the “EXcellence in Civil Engineering Education” (EXCEED) program sponsored by ASCE which taught innovative techniques for teaching to engineering students.
2. Dr. Hernandez attended the Teaching, Learning and Technology Center (TLTC) workshop at Texas Tech University on innovative ways to improve the classroom experience
3. Dr. Hernandez has taken part in the NSF funded ADVANCE Faculty Horizons program at the University of Maryland, Baltimore County for the advancement of underrepresented groups in STEM subjects.
4. Dr. Hernandez has mentored two undergraduate students through the Center for Undergraduate Research.
5. Dr. Hernandez maintains membership with the American Society of Civil Engineers, the American Water Resources Association, and Tau Beta Pi Engineering Honor Society, disseminates her research at annual conferences and maintains professional licensure with the Texas Board of Professional Engineers.

Collaborators and Other Affiliations

Collaborators and Co-Editors:

A.C. Correa, Texas Tech University

Ernest Fish, Texas Tech University

Katharine Hayhoe, Texas Tech University

Jeff Johnson, Texas Tech University

Ken Rainwater, Texas Tech University

Venkatesh Uddameri, Texas A&M University – Kingsville

Richard Zartman, Texas Tech University

Graduate and Postdoctoral Advisors:

Venkatesh Uddameri, Texas A&M University – Kingsville

Ni-Bin Chang, University of Central Florida

Andrew Ernest, University of Western Kentucky