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Education

Ph.D.	Environmental Science and Engineering The University of Texas at San Antonio Dissertation: <i>Decision Support System for Village Water Resources in Developing Areas of the World</i>
M.S.	Civil Engineering The University of Texas at San Antonio
M.S.	Systems Management The University of Southern California
B.S. (cum laude)	Civil Engineering The University of Texas at San Antonio
B.A.	Chemistry, Austin College

University Teaching Experience

2001- 2003	Lecturer teaching Mechanics of Solids The University of Texas at San Antonio
2005-2006	Research Assistant Professor in Civil Engineering teaching Water Resources Engineering and Fluid Mechanics at The University of Texas at San Antonio
2007- Present	Lecturer teaching Water Resources Engineering at the University of Texas at San Antonio

Work Experience

01/08- Present	Senior Research Engineer, Texas A&M Engineering Experiment Station
07/06- Present	Research Associate, Center for Water Research, The University of Texas at San Antonio
07/06- 10/06	Research Engineer, Texas Center for Applied Technology Texas Engineering Experiment Station, San Antonio, Texas
08/05- 07/06:	Research Assistant Professor, Department of Civil and Environmental Engineering, The University of Texas at San Antonio
05/05- 08/05	Research Engineer, Center for Water Research The University of Texas at San Antonio
08/03 – 05/05:	Doctoral Candidate The University of Texas at San Antonio
05/02 - 08/03:	Research Associate, Center for Water Research The University of Texas at San Antonio
01/01 - Present:	Instructor, Department of Civil Engineering, College of Engineering, The University of Texas as San Antonio.
09/01 - 05/02:	Graduate Fellow in the Center for Water Research The University of Texas at San Antonio
07/00 - 09/01:	Research Associate, Center for Water Research The University of Texas at San Antonio
07/98 - 07/00:	Civil Engineer, Geotechnical engineering project manager, Environmental Engineer responsible for design of contaminated site restoration and groundwater remediation projects for various military installations to be closed under the Air Force Base Closure Authority
06/95 - 05/98:	Engineering student The University of Texas at San Antonio
08/86 - 01/95:	Private Industry, Program Analyst, Product Manager, Internal Research and Development Programs Manager, Proposal Development Teams, Independent Consultant to five major defense contractors

02/61 - 08/86:

Air Force Officer (retired): Development Engineer, Flight Test Engineer, Acquisition Manager, International Negotiation Team Leader for Cooperative Research and Development Programs, Commander of Air Force Electronic Warfare Center

Honors

Alpha Chi National Honor Society

Tau Beta Pi Engineering Honor Society

Distinguished Alumnus, Austin College

Organization Memberships

American Society of Civil Engineers

American Water Works Association

National Ground Water Association

Engineers for a Sustainable World

Citizenship

U.S. Citizen, born: Yorktown, Texas U.S.A.

Publications and Presentations

Journals

Manz, L.R., Sarkar, D., and Hammond, W.W.: "Water Resources and Water Quality in the Rio Grande Valley of Texas: Current Status and R\Future Projections," Environmental Geosciences, Vol. 12, No. 3 (September 2005), pp. 193-206.

Manz, L.R.: "A Decision Support System for Village Water Resources in Developing Areas of the World", Doctoral Dissertation, The University of Texas at San Antonio, May 2005.

Manz, L. R. and. Hammond, W.W : "The Challenge for Water Resources in Honduras", Journal of the South Texas Geological Society, December 2005.

Hammond Jr., Weldon W., Manz, Louis R., Green, Ronald T., and Cruz, Omar A. Andino, 2008, "Watershed Characterization for a Water Resources Decision Support System in Honduras", Proceedings 21st Annual Meeting Engineering and Environmental Geophysics Society, April 2008.

Abstracts and Presentations

April 2008

Manz, L.R., Sarkar, D., and Hammond, W.W.: “The Status of Water Resources and Water Quality along the Rio Grande in Texas”, Southwest Regional Conference of the American Chemical Society, October 2002.

Manz, L.R. and Hammond, W.W.: “Development of Ground- Water Resources in the El Paraiso District of Honduras,” National Ground Water Association 2005 Ground Water Summit, April 2005.

Manz, L.R. and Hammond, W.W.: “The Future of Water Resources and Water Quality Along the Rio Grande in Texas,” Conference on Border Health and Water Quality/Water Availability and the Environment, International Consortium for Health and Environmental Security (ICHES), August 2005.

Manz, L.R.: “A Model for Sustainable Water Resources in Rural Developing Areas,” Conference on Sustainability as Security, Engineers for a Sustainable World, October 2005.

Manz, L.R.: “Defining and Sustaining Water Resources in Rural Developing Areas of the World,” VII Regional Conference Region I, Inter- American Association of Sanitary and Environmental Engineers, March 2006.

Manz, L.R, Hammond, W.W. and Hogenauer, D. “Including Sustainability in Water Resource Projects in Developing Areas Using a Decision Support Model for Village Water Resources,” National Ground Water Association 2006 Ground Water Summit, April 2006.

Hammond, W.W. and Manz, L.R., “Insuring Sustainable Water Resources in Developing Areas by Involving and Training the Receiving People,” American Water Resources Association 43rd Annual Water Resources Conference, November 2007.

Article Publication Review

Article Reviewer / Editor for review and acceptance of articles to be published in *The International Journal for Service Learning in Engineering (IJSLE)*