

January 19th 2011

ROBERT G. TRAVER

Department of Civil and Environmental Engineering
Villanova University
Villanova PA, 19085

EXPERIENCE:

Professor Department of Civil and Environmental Engineering,
Villanova University (2008- present)
Director Villanova Center for the Advancement of Sustainability in
Engineering (2009 present)
Director Villanova Urban Stormwater Partnership (2002- present)
Associate Professor Department of Civil and Environmental Engineering Villanova
University (1995- 2008)
Assistant Professor Department of Civil and Environmental Engineering
Villanova University (1988- 1994)
Assistant Professor Department of Civil and Environmental Engineering
Virginia Military Institute, (1982- 1984)
Project Engineer Yerkes Associates, Bryn Mawr, PA 1978- 1981

EDUCATION:

Ph.D., Pennsylvania State University, Civil Engineering, 1988
M.C.E., Villanova University, Civil Engineering, 1982
B.S.C.E., Virginia Military Institute, Civil Engineering, 1978

AWARDS & HONORS

Chi Epsilon - Tau Beta Pi - Sigma Xi
Diplomat, American Academy of Water Resources Engineers
2004 Water Resource Engineer of the Year – Philadelphia Section ASCE.
2005 Ruth Patrick Education Award – Water Resources Association of the Delaware
2007 Outstanding Civilian Service Medal – US Army Corp of Engineers (Katrina)
2008 Chester County Watershed Stewardship Award

FUNDED RESEARCH:

Funded research from agencies including the USEPA, Cooperative Institute for Coastal and Estuarine Environmental Technologies (a NOAA-supported Center), Pennsylvania Non Point Source Program (319), Pennsylvania Growing Greener and Coastal Zone Programs, and the William Penn Foundation.

PROFESSIONAL ACTIVITIES:

Director - Villanova Center for the Advancement of Sustainability in Engineering, directs multidisciplinary college center to coordinate and integrate interdisciplinary sustainability concepts in research and education.
Director - Villanova Urban Stormwater Partnership –directs public – private partnership working to advance the profession.
Member - Water Resources Advisory Committee, Pennsylvania Department of Env. Protection.
Committee Member - National Academies - *Reducing Stormwater Discharge Contributions to Water Pollution*. 2006 – 2008
Associate Editor – Journal of Irrigation and Drainage – ASCE
Board Member – National LID Center

REGISTRATION AND PROFESSIONAL AFFILIATIONS:

Professional Engineer, Commonwealth of Pennsylvania and Virginia

Diplomat and Trustee, American Academy of Water Resources Engineers

MAJOR REPORTS

- *A Review of the Proposed Revisions to the Federal Principles and Guidelines Water Resources Planning Document*, National Research Council, National Academies Press, Washington DC, 2010
- *Urban Stormwater Management in the United States*, National Research Council, National Academies Press, Washington DC, 2008
- *The New Orleans Hurricane Protection System: What Went Wrong and Why – A Report by the American Society of Civil Engineers Hurricane Katrina External Review Panel*, Reston, VA: ASCE, 978-0-7844-0893-3, 2007

RECENT PUBLICATION

1. Horst, M., Welker, A., Traver, R., “Multi Year Performance of a Pervious Concrete Infiltration Basin BMP”, ASCE Journal of Irrigation and Drainage, ASCE Posted Ahead of Print Oct 2010.
2. Machusick, M., Traver, R., Welker, A., Traver, R., “Groundwater Mounding At A Stormwater Infiltration Bmp”, ASCE Journal of Irrigation and Drainage, ASCE March 2011.
3. Davis, A. Hunt, W. Traver, R., “Improving Urban Stormwater Quality: UCOWR Applying Fundamental Principles, Journal of Contemporary Water Research and Education, Dec. 2010.
4. Welker, A., Wadzuk, B., Traver, R. “Integration of Education, Scholarship and Service Through Stormwater Management: UCOWR, Journal of Contemporary Water Research and Education, December 2010.
5. Wadzuk, B., Rea, M., Woodruff, G., Flynn, K. Traver, R., “Water Quality Performance of a Constructed Stormwater Wetland for All Flow Conditions”, AWRA, Volume 46, Issue 2, pages 385–394, April 2010.
6. Emerson, C., Wadzuk, B., Traver, R., “Hydraulic Evolution and Total Suspended Solids Capture of an Infiltration Trench” Hydrologic Processes, Wiley Jan 2010
7. Batrone, T., Wadzuk, B., Traver, R., “A Parking Deck's First Flush” ASCE Journal of Hydrologic Engineering, February 2010
8. Gilbert, R., Traver, R., “Beyond Assessing and onto Managing Risk for Levees,” UCOWR Journal of Contemporary Water Research and Education, April 2009
9. Davis, A. Hunt, W. Traver, R., “Bioretention Technology: An Overview of Current Practice and Future Needs.” ASCE Journal of Environmental Engineering – ASCE Journal of Environmental Engineering, ASCE March 2009
10. Traver, R., Clark, S., Struck, S. Editorial – Stormwater Special Issue, ASCE Journal of Irrigation and Drainage, ASCE Sep/Oct 2008.
11. Emerson, C., Traver, R., Multiyear and Seasonal Variation of Infiltration from Storm-Water Best Management Practices, ASCE Journal of Irrigation and Drainage, ASCE Sep/Oct 2008.