

# **Robert Traver, PhD**

**Professor of Civil and Environmental Engineering; Director of the Villanova Center for Resilient Water Systems; Director of the Villanova Urban Stormwater Partnership | College of Engineering at Villanova University**

Villanova, PA, US

Robert Traver, PhD., P.E., D. WRE, F.EWRI, F.ASCE, is an expert on green stormwater infrastructure.

---

## **Biography**

Dr. Robert G. Traver has been a member of the Water Resources and Environmental Engineering Program at Villanova since 1988. He currently serves as Director of the Villanova Center for Resilient Water Systems (VCRWS), which joins with government and industry to advance the field of comprehensive stormwater management. In taking the lead with VCRWS, Dr. Traver has transformed the Villanova campus into a living laboratory with on-site experimental projects such as a green roof, rain garden, stormwater wetland, pervious concrete and porous asphalt. Dr. Traver played a significant role in the Corps of Engineers' investigation of the failure of the New Orleans Hurricane Protection System during Hurricane Katrina as a member of the American Society of Civil Engineers External Panel (ERP). Dr. Traver has previously testified before Congress and the Pennsylvania House of Representatives.

---

## **Industry Expertise**

Education/Learning

---

## **Areas of Expertise**

Flooding , Green Infrastructure, Stormwater Management, Urban Watersheds, Water Resources

---

## **Affiliations**

Associate Editor and Co-Founder of the ASCE Journal of Sustainable Water in the Built Environment, Fellow of the American Society of Civil Engineering (ASCE) , Diplomat and Former President of the American Academy of Water Resource Engineers, Committee Member of the National Research Council Committee that authored "Urban Stormwater Management in the United States" (2009), Steering committee of the Water Environmental Federation Stormwater Institute

---

## **Education**

**Pennsylvania State University**

PhD

Villanova University  
MCE

Virginia Military Institute  
BSCE

---

## Select Accomplishments

### 2023 Philadelphia Civil Engineer of the Year Award

Presented annually by the Philadelphia Section of the American Society of Civil Engineers for remarkable accomplishments in the civil engineering profession, the award is the Philadelphia Section's highest recognition.

### 2023 AAWRE Outstanding Research & Innovation Award

The award recognized Dr. Traver for his outstanding body of work and involvement in advancing the scientific basis for resilient stormwater green infrastructure practices.

### 2019 Recipient of Environmental and Water Resources Institute Lifetime Achievement Award

This award is presented to a member of the American Society of Civil Engineers for demonstrating a life-long level of commitment to environmental or water resources engineering through public service, research or education.

### 2016 Villanova University Outstanding Faculty Research Award

The Outstanding Faculty Research Award award recognizes a faculty member who demonstrates the highest standards of excellence in research, scholarship and contributions to their field. Dr. Traver received this award for his scholarship in stormwater management and sustainable engineering.

### 2007 Outstanding Civilian Service Medal

Awarded by the Commanding General of the United States Corps of Engineers for Dr. Traver's role on the American Society of Civil Engineers (ASCE) External Review Panel, charged with determining the cause of New Orleans' levee system failure during Hurricane Katrina in 2005 .

### 2014 ASCE William H. Wisley American Civil Engineer Award

Awarded to recognize Dr. Traver's leadership of the American Society of Civil Engineer's (ASCE) Task Committee on Flood Safety Policies and Practices.

Retired LTC of the U.S. Army Reserve  
Desert Storm Veteran

---

[Please click here to view the full profile.](#)

This profile was created by [Expertfile.](#)