

Hydrology and Water Resources

Highlights

- Has ranked #1 in Hydrogeology for over a decade (*U.S. News and World Report Graduate Survey*). In 1966, working in concert with the National Academy of Sciences, the U.S. Geological Survey, and the United Nations, established the first department in the U.S. devoted solely to the study of hydrology and water resources.
- Comprised of 15 faculty members (including 3 Regents Professors, 1 National Academy of Engineering member, and 1 ISI Most Highly Cited researcher in two categories, Engineering and Ecology/Environment), 6 research scientists, 8 post-doctoral fellows, 40 BS students, 26 MS students, 30 PHD students, and 8 staff.
- Offers degrees in Hydrology (BS, MS, PHD) and in Hydrometeorology (MS and PHD, jointly with the Department of Atmospheric Sciences)
- Graduates approximately 5 BS, 12 MS, and 6 PHD students annually to careers in industry, government and NGO agencies, academia, and high-level research
- External research funding exceeds \$4.54 M a year (9-year annual average ~\$5.83M)



Awards, Honors, New Developments

- Victor R. Baker, 2011 Geological Society of America, Quaternary Geology and Geomorphology Division, Distinguished Career Award and Spring 2011 University of Arizona Excelencia in Education Initiative, Faculty Fellow
- Peter A. Troch, 2011 European Geophysical Union John Dalton Medal
- W.J. Shuttleworth, American Geophysical Union 31st Annual Hydrology Days Award Lecturer, Colorado State University
- Martha Whitaker, National Academic Advising Association (NACADA) Outstanding New Faculty Advisor, University of Arizona Outstanding Faculty Advisor, and College of Science Distinguished Advising Awards 2010
- Marek G. Zreda, 4th International Water Prize (Creativity Prize) with Darin Desilets, HWR Alum and Harry S. Truman Postdoctoral Fellow, Sandia National Laboratory
- Student Awards: 1 Science Foundation Arizona Fellow, 3 Galileo Circle Scholars, 1 ARCS Foundation Scholar; 1 EPA Fellow, 2 Fulbright Fellows, 2 Water Sustainability Program Scholars, 2 Milford Devine Foundation Scholars, 1 University of Arizona Nominee for WAGS/UMI Distinguished Master's Thesis Award, 1 Marshall Foundation Fellow, 1 Leonard Halpenny Scholar, 7 Student Travel Grants (Goldschmidt Conference, American Geophysical Union, Geological Society of America); 2 Honorable Mention, Eye on the Environment, UA Institute of the Environment
- NSF award of \$5.4M for COSMOS (Cosmic-ray Soil Moisture Observing System) to build a network of soil moisture probes to improve short-term and seasonal weather forecasting
- NSF award of \$3.54M for Transformative Behavior of Water, Energy, and Carbon in the Critical Zone (with Dept of Ecology and Evolutionary Biology)
- NSF award of \$457,000 for Enhanced Drought Preparedness Through Enhanced Predictive Capacity
- From 1999-2009, external funding exceeded \$38M for the NSF Center for Sustainability of Semi-Arid Hydrology and Riparian Areas (SAHRA)

C. Larrabee Winter
Professor and Department Head
Department of Hydrology and Water Resources
University of Arizona
Tucson, AZ 85721
winter@email.arizona.edu