

JUDITH LARABEE SIMS

Emeritus Research Associate Professor and Utah On-Site Wastewater Treatment Training Program Coordinator, Utah Water Research Laboratory and Department of Biological Engineering, Utah State University Logan, Utah 84322

Education:

B.S. Biology, University of Illinois, Urbana, 1971

M.S Environmental Biology, School of Public Health, University of North Carolina at Chapel Hill, 1973

M.S. Soil Science, North Carolina State University, Raleigh, 1981

Relevant Professional Experience:

2002 to 2020 Emeritus Research Associate Professor, and Coordinator, Utah On-Site Wastewater Treatment Training Program, Utah Water Research Laboratory, Utah State University, Logan, Utah

2002 to 2020 Research Associate Professor, Utah Water Research Laboratory, Utah State University, Logan, Utah and Coordinator, Utah On-Site Wastewater Treatment Training Program

1994 to 2002 Research Assistant Professor, Utah Water Research Laboratory, Utah State University, Logan, Utah

1982 to 1994 Lecturer and Senior Research Soil Scientist/Biologist, Utah Water Research Laboratory, Utah State University, Logan, Utah

1979-1981 Senior Environmental Scientist, L.W. Little Associates, Environmental Consultants, Raleigh, North Carolina

1977-1979 Graduate Research Assistant, North Carolina State University, Department of Soil Science, Raleigh, North Carolina

1975-1977 Research Technician, Department of Agronomy and Soils, Washington State University, Pullman, Washington

Relevant Major Projects:

1977 to 1979 Evaluation of Fill Materials for Use in the Mound System of On-Site Waste Disposal (University of North Carolina (UNC) Sea Grant Program)

1977 to 1979 Effects of Use of Alternative On-Site Waste Disposal Systems on Water Quality in the Coastal Plain of North Carolina (UNC Sea Grant Program)

1980 to 1981 Effects of Failure of Conventional On-Site Wastewater Treatment Systems on Water Quality of Adjacent Streams and Lakes: Rolling Springs Subdivision, Spring Lake, NC (Private Client)

1982 to 1989 Evaluation of Feasibility of Use of Alternative Systems of On-Site Wastewater Disposal in Utah (Principal Investigator, Utah Water Research Laboratory Mineral Lease Funds)

1983 to 1986 Waste/Soil Treatability Studies for Four Complex Industrial Wastes (U.S. EPA)

1981 to 1988 Fate of Toxic Organic Chemicals in Septic Tank/Soil Absorption Systems (Principal Investigator -Utah Water Research Laboratory Mineral Lease Funds)

1986 to 1988 Treatability of Hazardous Waste Constituents in Land Treatment Systems (U.S. EPA)

1986 to 1991 Development of Soil Transport and Fate Data Base (U.S. EPA and Dynamac Corporation)

1992 Bioengineering for Water Cleanup: State of the Art Assessment (Principal Investigator - National Geographic Society)

1995 to 1999 Preparation of Guidance Manual for Revegetation of Exploration and Production Sites (Principal Investigator - Exxon Production Research Corporation)

1998 to Present Utah On-Site Wastewater Treatment Training Center (Coordinator - Utah Department of Environmental Quality)

1999 to Present Establishment of Huntsman On-Site Wastewater Treatment Training and Demonstration Site (Principal Investigator. Huntsman Environmental Research Center)

2000 to 2003 Statewide Non-Point Source Pollution Education Related to On-Site Wastewater Treatment (U.S. EPA and Utah Department of Environmental Quality)

2000 to 2002 Installation of Training Modules at the Huntsman On-Site Wastewater Treatment Training and Demonstration Center (Principal Investigator, Kennecott Utah Copper Corporation)

2001 to 2003 On-Site Wastewater Treatment Field Training Enhancement: Sand Filter Demonstration Model Construction and Related Training Aids (Principal Investigator - U.S. EPA and Utah Department of Environmental Quality)

2001 to 2003 Partnership Performance Equipment Grant for the Huntsman On-Site Wastewater Treatment Training and Demonstration Center (Principal Investigator, Utah Department of Environmental Quality)

2002 to 2004 Development of a Guide and Videotape on On-Site Wastewater Treatment and Disposal Systems for Use by Local Boards of Health (Principal Investigator, National Association of Local Boards of Health)

2004 to 2006 Alternative Decentralized Wastewater Treatment Systems for Utah Conditions (Principal Investigator; U.S. Geological Survey)

2005 to 2008 On-Site Wastewater Treatment Field Training Enhancement: Installation of Gray Water, Drip Irrigation, and Fixed Film Demonstration Systems (Principal Investigator - U.S. EPA and Utah Department of Environmental Quality)

2005 to 2008 Septic Systems in Castle Valley: Potential Impacts upon Ground Water and Possible Management and Treatment, Handling, and Disposal in Utah (Principal Investigator, U.S. EPA and Utah Department of Environmental Quality)

2008 to 2011 Evaluation of Deep Installations of Septic System Drain Fields in Utah: Performance and Treatment Effectiveness (Principal Investigator, Utah Water Research Laboratory)

2010 On-Site Wastewater Educational Programs for Montana and Colorado On-Site Wastewater Systems Professionals (Principal Investigator, Region 8 -U.S. EPA Region 8)

2010 to 2012 Enhancement of Septic System Educational Programs in Utah (Principal Investigator, U.S. EPA and Utah Department of Environmental Quality)

2010 to 2015 Design, Assessment, and Management of Onsite Wastewater Treatment Systems: Addressing the Challenges of Climate Change (Agricultural Experiment Station Multi-State Hatch Project, National Institute of Food and Agriculture, USDA)

2011 to 2013 Educational Program for Homeowners and Other Users of Septic Systems in Utah (Principal Investigator, U.S. EPA and Utah Department of Environmental Quality)

2012 to Present Methane Mitigation from Environmental Systems (Principal Investigator, Utah Water Research Laboratory)

2014 to 2018 Development of Manuals of Best Practice for On-Site Wastewater Treatment (Principal Investigator, Utah Department of Environmental Quality)

2016 to 2017 Challenges and Barriers Associated with On-Site Wastewater Treatment Activities within the United States (Principal Investigator, Innovation ROTOPLAS Mexico)

2018 to 2021 Development of an On-Site Wastewater Treatment Training Demonstration Site at the Ash Creek Special Service District in Hurricane, Utah (Principal Investigator, Utah Division of Water Quality)

Accomplishments and Honors:

Phi Kappa Phi (Academic Honorary) – 1979

Gamma Sigma Delta (Agriculture Honorary) – 1979

Co-Recipient, Karen Morehouse Best Paper Award, Great Plains/Rocky Mountain Hazardous Substance Research Center, U.S. EPA, Manhattan, KS

1996 Non-Point Source (NPS) Water Quality Award, NPS Water Quality Task Force, Utah Department of Environmental Quality

2003 Lynn Thatcher Award for Significant Contributions to the Field of Environmental Health, Utah Environmental Health Association

2019 Calvin K. Sudweeks Award for Contributions to Water Quality Research and Leadership, Utah Division of Water Quality

Scientific and Professional Societies/Professional Activities:

Chairman, (1983 to 86), Member (1986-88), On-Site Wastewater Disposal Technical Review Committee (Advisory Committee to Bureau of Drinking Water/Sanitation, State of Utah Department of Health)

Workshop Instructor, Utah On-Site Wastewater Treatment Training Center, Utah Water Research Laboratory, Utah State University (1998 to Present)

Training Center Coordinator, Utah On-Site Wastewater Treatment Training Center, Utah Water Research Laboratory, Utah State University (2000 to Present)

USU Delegate, Consortium of Institutes for Decentralized Wastewater Treatment (CIDWT) (2000 - 2010), Elected representative, CIDWT Practitioner Training/Training Center Committee (2000-2002), Elected representative, CIDWT Legislative and Policy Committee (2001, 2005)

National On-Site Wastewater Recycling Association (NOWRA) (1999 to Present), Elected Member, NOWRA Board of Directors; 2007 to 2010 Chairman, NOWRA Technical Program, Installers Academy, Las Vegas, NV, (2008) Chairman, NOWRA Web-Based Resource Library Task Force (2009 to 2011)

Utah On-Site Wastewater Association (UOWA) (2000 to Present); UOWA Chairman-elect (2002 to 2003) UOWA Chairman (2003 to 2004) Chairman, UOWA Conference Planning Committee (2000 to 2014)

Work Group Member, NE 1045 Agricultural Experiment Station AES Multi-State Hatch Project, Design, Assessment, and Management of Onsite Wastewater Treatment Systems: Addressing the Challenges of Climate Change (2010 to 2015)