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Deanna Durnford is a Professor Emerita in the Civil and Environmental Engineering Department at Colorado State University. She is a certified Professional Engineer in the State of Colorado and a Fellow in the American Society of Civil Engineers. Dr. Durnford has spent over 30 years teaching, advising and researching in the areas of groundwater hydrology and groundwater contamination. Her primary research interests are the flow of immiscible organics in porous media, flow and transport processes in the vadose zone and the hydraulic connection between groundwater and surface water.

Dr. Durnford received her B.S. in Mathematics from the University of Wisconsin-Platteville in 1971, her M.S. in Structural Engineering at Colorado State University in the Department of Civil Engineering in 1976 and her PhD in Hydraulics from the Department of Civil Engineering at CSU in 1982. Her M.S. thesis was a numerical model of wind loads on a high rise structure, physically modeled in the CSU Wind Tunnel. Her PhD thesis was a drainage study in the Nile Delta of Egypt. From 1983 to 1985, she was an Assistant Professor at Cornell University. In 1985, she returned to CSU as an Assistant Professor in the Department of Agricultural and Chemical Engineering, obtaining a tenure track position in that department in 1987. In 1992, she was promoted to Associate Professor and tenured. In 1997, she was promoted to full Professor.

The National Science Foundation, the U.S. Department of Agriculture, the U.S. Department of Energy and the U.S. Air Force have funded most of her research. Her research addressed such diverse topics as groundwater contamination by agricultural chemicals, gasoline and jet fuel contamination, conjunctive use of groundwater and surface water with impacts on water rights, saltwater intrusion, underground dams as an aquifer protection strategy, development of a low-tech method for removing fluoride from drinking water, codisposal of oil shale leachate with spent oil shale, and development of both field and laboratory methods for unsaturated flow measurement.

Dr. Durnford and her graduate students use numerical modeling and laboratory studies to support field data collection and interpretation. They have performed hundreds of saturated and unsaturated column tests, with organic and inorganic leachates. Her research group developed methods for these column tests, designed and built a dual-energy gamma system to study multiphase flow and developed laboratory and field methods for unsaturated and multiphase studies. Dr. Durnford also spent a sabbatical leave working with researchers at Cornell University, using the Cornell High Energy Synchrotron System, to study the mechanics of multiphase flow. She and her students have collected and interpreted groundwater and chemical data from the San Luis Valley, the South Platte River Valley, and the Republican River Basin in Colorado; Tyndall and Eglin Air Force Bases in Florida; the Guadalupe coastal aquifer in California; and interpreted groundwater and chemical data collected by the Palestinian Water Authority, Los Alamos National Laboratory, and the Thai government. Applications of her

research include studies of saltwater intrusion in the Gaza Strip, underground dams in Thailand and the South Platte River Basin, the future of fish habitat in the Arikaree River Basin in Colorado, transport of pesticides and nitrates to shallow water tables and conjunctive analysis of ground and surface water.

Dr. Durnford has served as a consultant to several companies including Exxon Corporation, Kennecott Copper Company, Bingham Environmental, the government of Egypt, Risk Assessment Corporation, Regenes Management Group and the California State Attorney General's Office. She spent four summers as a visiting Fellow at the U.S. Air Force Environics Lab in Panama City FL, where she worked on field characterization of jet fuel spills. She continued this work after returning to CSU, through an Inter-personnel Agreement (IPA) between the Air Force and CSU and several research projects. She worked on both field and lab studies for the State of California through Stollar Engineering, estimating the total volume of diluent at the Guadalupe Oil Field, the largest oil spill in U.S. history. Dr. Durnford was an advisor, Co-PI and consultant to Risk Assessment Corporation in Virginia, which developed an extensive risk management model for Los Alamos National Laboratory.

Recently, Dr. Durnford has served as a member of the National Academy of Sciences Committee on "Groundwater Contamination at Los Alamos National Laboratory". She has also served as a reviewer for the closure plan of Area G at Los Alamos National Laboratory in New Mexico. Area G is the primary waste site for low-level radioactive waste at Los Alamos and, as such, is one of the largest and most contaminated of the sites at Los Alamos National Laboratory.

Dr. Durnford taught numerous undergraduate and graduate classes at Cornell and CSU. Her graduate courses include Groundwater Hydrology and Hydraulics, Groundwater Contaminant Hydrology, Experimental Methods in Groundwater, Groundwater Measurements, Advanced Hydraulics, Multiphase Flow in Porous Media, and Conjunctive Use of Groundwater and Surface Water. Undergraduate courses include Agricultural and Environmental Measurements, Statics, Dynamics, Mechanics of Materials, Soil and Water Engineering, Pumping Systems, Subsurface Drainage, and Groundwater Engineering. Her teaching reviews have been consistently excellent.

Dr. Durnford has published over 60 peer-reviewed journal articles. She has served as research advisor and committee chair for 15 PhD students and 20 M.S. students, as well as serving as a graduate committee member for an additional 50 students. She also served her department, college and university in a myriad of additional capacities, notably as the Undergraduate Honors Students Advisor, a member of the Engineering College Policies and Procedures Committee, a member of the Civil Engineering Graduate Instruction Committee and as the Site Coordinator for the Louis Stokes Colorado Alliance for Minority Participation (CO-AMP).

Dr. Durnford retired from Colorado State University in 2010 and currently works part-time as a consultant on water issues. A full resume is available upon request.