

# GROUNDWATER

Building an understanding of groundwater  
at Santa Susana Field Laboratory



## ***Presenters***

**Matt Becker** is the Conrey Chair in Hydrogeology and Professor in the Geological Sciences Department at California State University, Long Beach. He has 20 years experience in hydrology and has held research positions in the private sector as well as Los Alamos National Laboratory and NASA Goddard Space Center. He was a Fulbright Scholar at the University Trento, Italy. Prior to arriving at the CSULB he was an Assistant then Associate Professor of Geology for ten years at the State University of New York in Buffalo. He has worked in diverse areas related to hydrology including, fractured rock hydrology, tracer and hydraulic characterization, remote sensing, hydrogeophysics, and numerical modeling.



**John A. Cherry** holds geological engineering degrees from the University of Saskatchewan and University of California Berkeley, and earned a Ph.D. in hydrogeology from the University of Illinois in 1966. He joined the faculty at the University of Waterloo in 1971 for field research on the migration and fate of contaminants in groundwater and their remediation. He retired from Waterloo in July 2006, but he continues research as a Distinguished Professor Emeritus. He co-authored the textbook "Groundwater" with R.A. Freeze (1979) and co-edited and co-authored several chapters in the book "Dense Chlorinated Solvents and Other DNAPLs in Groundwater" (1996). He has participated in the development of technologies for groundwater monitoring and remediation, co-holds several patents, is a Fellow of the Royal Society of engineering societies in Canada, the U.K. and the United States, most recently from the California Groundwater Association. He held the Research Chair in Contaminant Hydrogeology at the University of Waterloo from 1996 to 2006 and is currently the Director of the University Consortium for Field-Focused Groundwater Contamination Research, established in 1988 and now based at the University of Guelph, Guelph, ON.



**W. Richard Laton** is an expert in the field of hydrology/hydrogeology. He is currently an Associate Professor of Hydrogeology in the Department of Geological Sciences, California State University, Fullerton. This is a continuation of a career that includes years of teaching, consulting, litigation support and management experience. Dr. Laton possesses extensive knowledge in the areas of hydrogeology, soil and water contamination, hydrology and surface water, wetlands, coastal monitoring/geomorphology, field sampling techniques and well hydraulics as well as environmental remote sensing/GIS. His classes at the university encompass topics including: water quality, environmental sampling, groundwater modeling, well hydraulics, oceanography, and basic geology. He enjoys introducing students to applied research and acts as the faculty advisor to a large number of upper-level students. He has also acted as a consultant for a variety of companies and agencies that need input on the above subjects as well as natural hazard assessment and mapping.



**David B. McWhorter** received a Professional Degree in petroleum engineering from Colorado School of Mines and a Ph.D. in groundwater hydrology from Colorado State University (CSU). He was a Professor of Agricultural and Chemical Engineering at CSU from 1970 to 1999 and is currently a Professor Emeritus at CSU and an independent consultant. He has extensive experience in teaching and research in multi-phase flow in porous media, specializing in the combined use of mathematical models and laboratory experiments to develop practical methods for more effective site analysis and remediation. He co-authored with D.K. Sunada the textbook "Groundwater Hydrology and Hydraulics" (1977). He has won university and national awards, most recently the M.K. Hubbert Award of the National Ground Water Association. He recently led a research team focused on various aspects of DNAPL mass removal and related issues of exposure reduction. For more than 30 years, he has been a frequent consultant to government and industry on problems involving DNAPLs and LNAPLs in the subsurface.



**Beth L. Parker** has degrees in environmental science and economics (B.S., Allegheny College), environmental engineering (M.S., Duke University, 1983) and hydrogeology (Ph.D., University of Waterloo, 1996), and is a Professor in the School of Engineering at the University of Guelph. She was a research faculty member at the University of Waterloo from 1996 to 2007. She has over 25 years of professional experience investigating subsurface contamination issues at industrial sites. Prior to obtaining her Ph.D., she worked for over five years for a large corporation in New York State managing DNAPL site investigations and remediation in fractured bedrock. Her current research and consulting activities emphasize field and laboratory studies of DNAPLs in sedimentary rocks, clayey deposits, and heterogeneous sandy aquifers, focusing on the effects of diffusion into and out of low permeability zones and DNAPL fate, plume attenuation, and controls on remediation. She is currently involved in research and technology demonstration projects at Superfund and RCRA facilities in the US and Canada. In July 2007, she was awarded an NSERC Canada Industrial Research Chair in Fractured Rock Contaminant Hydrology. In December 2009, she received the John Hem Award from the Association of Groundwater Scientists and Engineers of the US National Groundwater Association.

