Department of Earth and Environmental Sciences at Fresno State

Seminar Series;

DAVID KEITH TODD DISTINGUISHED LECTURE SERIES

Groundwater Resources Association (GRA) of California;

San Joaquin Valley GRA presents:

Jay R. Lund, Ph.D.

Director of the UC Davis Watershed Sciences Center
Ray B. Krone Chair of Environmental Engineering, UC Davis

**Lecture:**

**Can we stop undermining our water supplies? Groundwater and California's water future**

Thursday, March 7, 2013

4:00 p.m.-5:30 p.m.

Peters Bldg. (PB) 191

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| **Abstract:** Integrating groundwater into overall water and environmental management is central to California’s water future.  Groundwater is most of water storage in California and a major water source for most of the state.  Cities, farms, and ecosystems depend on it for both water supply and water quality.  Over time, groundwater’s role has changed, from an isolated and convenient source of clean water to an increasingly contaminated and diminishing source, with increasing effects on surface water bodies, users, and ecosystems.  Lowered water tables, overdraft, and accumulations of salts, nitrate, and other contaminants have brought widespread effects to almost every part of the state.  This talk reviews groundwater’s diverse roles in water management in California, current and growing issues for groundwater supply and management, and promising approaches to integrating groundwater into broader water and environmental management, along with surface water, demands, and infrastructure.   Political and scientific challenges for accomplishing such management also are discussed.**DAVID KEITH TODD DISTINGUISHED LECTURE SERIES – 2013 Program:**  |
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| The Groundwater Resources Association of California (GRA) created the David Keith Todd distinguished Lecture Series to honor Dr. David Keith Todd (GRA 1999 Lifetime Achievement Award recipient) for his enormous contributions to groundwater science and technology, and to foster interest and excellence in applied groundwater science and technology. Annually, the lectureship is awarded to qualified individuals who personify Dr. Todd's lifelong dedication to groundwater resources. Specially created lectures are offered in Northern and Southern California at universities, statewide and regional GRA events and GRA's Annual Conference and Meeting. Following the DKT lecturers Dr. John Bredehoeft and Dr. Prem Saint in 2011, and Dr. John A. Cherry and Dr. William Alley in 2012, the third year of this lecture series will feature Dr. Jay R. Lund (Northern California) and Dr. David Huntley (Southern California).  |

Jay Lund's work on groundwater mostly involves the integration of groundwater management with the management of surface water, water demands, and the environment. Examples include work on conjunctive use of surface and groundwater and, most recently, policy and management of nitrate contamination of groundwater. His overall research is in applying systems analysis and economic ideas to water resource and environmental problems. He has led development and application of a large-scale optimization model for California's water supply, as well as various other modeling and policy studies. In recent years he has been a principal author of several major books and reports on the Sacramento-San Joaquin Delta and California water policy, with the Public Policy Institute of California, including *Managing California's Water – from conflict to reconciliation*. He is a frequent contributor to <http://www.CaliforniaWaterBlog.com>. |