



INSTRUCTIONAL RESEARCH STAFF

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LANGUAGES
English
Korean

Si-Yong Lee

PROFESSIONAL RESEARCH INTERESTS AND EXPERTISE –

- Geostatistical characterization of subsurface heterogeneity
- Reservoir/aquifer characterization and management
- Subsurface solute transport
- Numerical modeling of groundwater flow and contaminant transport
- Groundwater age dating

REGIONAL AND BASIN EXPERIENCE –

- Lawrence Livermore National Laboratory site, California
- King's River alluvial fan aquifer system, California
- South Lake Tahoe basin, California
- Yucca Mountain Site, Nevada
- Borden site, Canada

EDUCATION –

- B.S. in Geology, Korea University
- M.S. in Geology and Geophysics, Texas A&M University
- Ph.D. in Hydrologic Sciences, University of California, Davis

MEMBERSHIPS –

- American Geophysical Union
- Geological Society of America

HONORS AND AWARDS –

- U.S. Army Achievement Medal, US 8th Army
- Harris Chair Scholarship, Texas A&M University
- Ecotoxicology Lead Campus Program Fellowship, UC Davis
- Jastro-Shields Graduate Research Scholarship, UC Davis

PUBLICATIONS –

- **Lee, S-Y.**, Carle, S., and Fogg, G., Geologic heterogeneity and a comparison of two geostatistical models: sequential Gaussian simulation and transition probability-based geostatistical simulation. *Advances in Water Resources*, (30), 1914-1932, doi: 10.1016/j.advwatres.2007.03.005, 2007
- **Lee, S-Y.**, Polmanteer, R., McGrane, S., Allen-King, R., Dominic, D., and Ritzi, R., Does small variance of $\ln K$ (~0.3) represent less geologic heterogeneity? A recent lithofacies study at the Borden Eos Trans. AGU, 88 (52), Fall Meet. Suppl., 2007
- Mathias, P., **Lee, S-Y.**, Fogg, G., Plummer, N., Busenberg, E., and Zhang, Y., Monitoring and modeling the fluctuations in apparent groundwater age during a 30-day pumping test, Theis Conference, Ground Water Age: Estimation, Modeling, and Water Quality Sustainability, Tahoe city, CA, 2005
- **Lee, S-Y.**, Ginn, T., and Fogg, G., Analysis of field-scale contaminant transport behavior using continuous time random walk theory Eos Trans. AGU, 85 (47), Fall Meet. Suppl., 2004