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LANGUAGES  
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**Peter Rose**

**PROFESSIONAL RESEARCH INTERESTS AND EXPERTISE –**

- Engineered Geothermal Systems
- Hydraulic and chemical stimulation technologies for enhancing formation permeability
- Chemical tracer technologies

**REGIONAL AND BASIN EXPERIENCE –**

- Coso geothermal field
- Basin and Range region of Western U.S.
- Rhine Graben in Alsace, France

**EDUCATION –**

- 1974 B.A. in Chemistry, California State University, Chico
- 1978 M.S. in Chemistry, University of Utah
- 1993 Ph.D. in Chemical Engineering, University of Utah

**MEMBERSHIPS –**

- Geothermal Resources Council
- International Energy Association

**HONORS AND AWARDS –**

- 2006 Guest editor for the geothermal energy journal Geothermics for a special issue on Hot Dry Rock at the Soultz, France site of the European Hot Dry Rock program

- 2006 Subtask Leader for the International Energy Association's Geothermal Implementing Agreement program for HDR/EGS field experiments. In this capacity, developed tracers, novel tracer testing techniques, and mineral dissolution agents for chemical stimulation at the Soultz, France HDR project.
- 2005 Received the second-highest rating among 25 projects reviewed in a Department of Energy Geothermal Program Review for the project entitled "Creation of an Engineered Geothermal System through Hydraulic and Thermal Stimulation"
- 2001 Fellowship from the Japanese Agency of Industrial Science and Technology to participate in a field research project at the site of the Japanese Hot Dry Rock Program in Hijiori, Japan.

## **PUBLICATIONS –**

- **Rose, P.E.**, Mella, M., and McCulloch, J., (2006) A Comparison of Hydraulic Stimulation Experiments at the Soultz, France and Coso, California Engineered Geothermal Systems: Proceedings, 31st Workshop on Geothermal Reservoir Engineering, Stanford University SGP-TR-179.
- **Rose, P.E.**, Sheridan, J., McCulloch, J., Moore, J.M., Kovac, K, Weidler, R, and Hickman, S. (2005) The Coso EGS Project—Recent Developments: Proceedings World Geothermal Congress, Antalya, Turkey.
- **Rose, P.E.**, McCulloch, J., Adams, M.C., and Mella, M. (2005) An EGS Stimulation Experiment under Low-Wellhead Conditions: Proceedings, 30th Workshop on Geothermal Reservoir Engineering, Stanford University SGP-TR-176.
- **Rose, P.E.**, Mella, M., Kasteler\*, C., and S.D. Johnson, (2004) The Estimation of Reservoir Pore Data from Tracer Data: Proceedings, 29th Workshop on Geothermal Reservoir Engineering, Stanford University SGP-TR-175.
- Sheridan, J., Kovac, K., **Rose, P.E.**, Barton, C., McCulloch, J., Berard, B., Moore, J.M., Petty, S., and Spielman, P. (2003) In situ stress, fracture and fluid flow analysis—East Flank of the Coso Geothermal Field: Proc. Twenty-Eighth Workshop on Geothermal Reservoir Engineering, Stanford University, SGP-TR-173.
- **Rose, P.E.**, Barton, C., Petty, S., McCulloch, J., Moore, J.M., Kovac, K., Sheridan, J., Spielman, P., and Berard, B. (2002) Creation of an Enhanced Geothermal System through Hydraulic and Thermal Stimulation: GRC Transactions, 26, pp. 245-250.
- **Rose, P.E.**, S.D. Johnson, Y.L. Wong, T. Carter, C. Kasteler, and P. Kilbourn (2002) Sub Part-Per-Trillion Detection of a Fluorescent Tracer at the Dixie Valley and Beowawe Geothermal Reservoirs: GRC Transactions, 26, 113-117.
- Nimmo, J.R., Perkins, K.S., **Rose, P.E.**, Rousseau, J.P., Orr, B.R., Twining, B.V., and Anderson, S.R., (2002), Kilometer-scale rapid transport of naphthalene sulfonate tracer in the unsaturated zone at the Idaho National Engineering and Environmental Laboratory: Vadose Zone Journal, 1, pp. 89-101.
- **Rose, P.E.**, Johnson, S.D., and Kilbourn, P.M., and Kasteler, C. (2002) Tracer Testing at Dixie Valley, Nevada Using 1-Naphthalene Sulfonate and 2,6-Naphthalene Disulfonate: Proc. Twenty-Seventh Workshop on Geothermal Reservoir Engineering, Stanford University, SGP-TR-171.
- Kleimeyer, J.A., **Rose, P.E.**, and Harris, J.M., (2001), Determination of ultratrace-level fluorescent tracer concentrations in environmental samples using a combination of HPLC separation and laser-excited fluorescence multiwavelength emission detection: application to testing of geothermal well brines: Applied Spectroscopy, 55(6), 690-700.