

## GENE SUEMNICHT

CEO, Principal, EGS Inc.

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### SUMMARY

Mr. Suemnicht is a Registered Geologist and a Registered Environmental Assessor with more than 35 years of professional experience in geothermal exploration and development. His background includes extensive work in geology, hydrogeology, geochemistry, and geophysics. He has been responsible for project planning, budgeting, and staffing in the geothermal, minerals, petroleum and environmental industries. Gene has managed exploration and development drilling operations, geothermal resource assessments, due diligence evaluations for generating asset sales and geothermal research projects. Mr. Suemnicht has explored for geothermal resources and completed detailed prospect evaluations throughout the western United States, Canada, Central and South America, Europe, the Middle East, the Far East and Southeast Asia.

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### WORK HISTORY

EGS, Inc.	2008 to Present	CEO, Principal
Ormat Inc.	2008	Exploration and Development Manager
MacTec, Petaluma, CA	2007-2008	Senior Geologist / Project Manager
SCS Engineers Inc., Santa Rosa, CA	2006-2007	Senior Geologist / Project Manager
GeoLogica Inc., San Francisco, CA	2001-2005	Senior Geologist / Associate
Kleinfelder Inc., Santa Rosa, CA	2000-2001	Senior Geologist / Client Service Manager
IT Corporation, Martinez, CA	1996-2000	Senior Scientist / Staff Consultant
Independent Geologic Consultant	1993-1996	
Group Environmental Services, Santa Rosa	1992-1993	Senior Geologist
Unocal Geothermal, Santa Rosa, CA	1977-1992	Senior Geologist
AMAX Corporation, Denver, CO	1974	Geochemist/Sampling Crew chief

### Selected Projects:

- Project Manager for geothermal prospect assessments in the United States, Central and South America and Asia including program planning, project management, field programs, geophysical surveys and advanced wildcat exploration efforts.
- Project Manager for geothermal assessments in multiple geothermal areas throughout the US, Canada, Central America and Asia.
- Project Manager and Technical Lead for environmental impact projects including water rights issues and expert witness testimony.
- Project Manager and Technical Lead for due diligence assessments for more than \$350 million in geothermal energy asset consolidations.
- Project Manager and Technical Lead for due diligence assessments for more than \$100 million in project financing and asset consolidation at The Geysers geothermal field in Northern California.

- Project Manager for due diligence reviews of more than \$450 million in PG&E and Unocal assets in The Geysers geothermal field in Northern California.
- Lead Geologist for geothermal drilling operations in the Meager Creek geothermal prospect in western Canada.
- Planned, conducted and evaluated geochemical and geologic exploration programs for geothermal and mineral resources throughout the western United States.

Unocal Geothermal

- Geologic Operations Manager for development drilling in The Geysers geothermal field.
- Area Geologist for exploration and development in the Imperial Valley.
- Lead Geologist and Senior Technical Lead for geothermal and mineral assessments of multiple prospects in Chile, Argentina, Mexico, Italy, Turkey, Burma, Thailand, Indonesia and the Philippines.
- Developed and evaluated new stable isotopic techniques for assessing geochemical interactions in The Geysers reservoir.
- Program manager and Technical Lead for cooperative development of borehole fracture characterization tools with Sandia National Labs

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**EDUCATION**

M.S., Geology, University of Arizona, 1977

B.S., Education (Geology, Chemistry), Southern Oregon University, 1970

**Academics:**

Adjunct Faculty, Santa Rosa Junior College, Earth Sciences Department

Guest Lecturer, College of Marin, Geology Department

Workshop lecturer, Geothermal Resources Council

**Postgraduate Training:**

Water Use and California Law Seminar; 1998

Surface Mine Reclamation Short Course; 1997

ASTM Risk Based Corrective Action Analysis; 1996

Hazardous Waste Operations Supervisor Training; 1993

40-Hour Hazardous Waste Operations (HAZWOPER) Training; since 1992

Applied Geochemistry Short Course, USGS/Geothermal Resources Council; 1989

Epithermal Mineralization, Unocal; 1987

Remote Sensing, Unocal; 1985

Volcanology Short Course, University of Nevada, Reno; 1982

Drilling Engineering, Unocal; 1980

Exploration Geophysics, Geothermal Resources Council; 1979

Wellbore Geophysics, Unocal; 1977

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## PROFESSIONAL REGISTRATIONS AND AFFILIATIONS

Professional Geologist, California; No. 5972  
Registered Environmental Assessor, California; No. 5381  
Certification, Site Assessment and Remediation, University of California (Davis); 1992  
Professional Geologist, Texas: No. 10,039

Geologic Society of America	Geothermal Resources Council
American Geophysical Union	Geysers Geothermal Association
California Mining Association	Nevada Mining Association
Geologic Society of Nevada	International Geothermal Association

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## TECHNICAL PUBLICATIONS

- Poux, B., Suemnicht, G. (2012) Use of GIS Geoprocessing to select the most favorable sites for Geothermal Exploration in Oregon. *Geothermal Resources Council Transactions*, 36.
- Suemnicht, G.A., Sorey, M.L., Moore, J.N., & Sullivan, R. (2006). The shallow hydrothermal system of Long Valley Caldera, California. *Geothermal Resources Council Transactions*, 30, 465.
- Suemnicht, G.A., Sorey, M.L., Moore, J.N., & Sullivan, R. (2006). The shallow hydrothermal system of Long Valley Caldera, California. *Stanford Geothermal Workshop Transactions*, 31.
- Sorey, M.L., Kennedy, B.M., Evan, W.C., Farrar, C.D., & Suemnicht, G.A. (1991). Helium isotope and gas discharge variations associated with crustal unrest in Long Valley Caldera, California. *Journal of Geophysical Research*, 98(B9), 15871-15889.
- Sorey, M.L., Suemnicht, G.A., Sturchio, N.J., & Nordquist, G.A. (1991). New evidence on the hydrothermal system in Long Valley California, from wells, fluid sampling, electrical geophysics, and age determinations of hot spring deposits. *Journal of Volcanology and Geothermal Research*, 48, 229-263.
- Smith, B.M., & Suemnicht, G.A. (1991). Evidence for past and present hydrothermal regimes of Long Valley Caldera, California. *Journal of Volcanology and Geothermal Research*, 48, 319-339.
- Varga, R.J., Bailey, R.A., & Suemnicht, G.A. (1990). Evidence for 600-yr. old basalt and magma mixing at Inyo Craters Volcanic Chain, Eastern California. *Journal of Geophysical Research*, 95(B13), 21441-21450.
- Suemnicht, G.A., Barton, C.A., & Lysne, P. (1989). Fracture imaging in geothermal systems. *EOS Transactions of the American Geophysical Union*.
- Suemnicht, G.A., Barton, C.A., & Lysne, P. (1989). Fracture imaging in geothermal systems. *Geothermal Resources Council Transactions*, 13, 549.
- Suemnicht, G.A. & Varga, R.J. (1988). Basement structure and implications for hydrothermal circulation patterns in the western moat of Long Valley Caldera, California. *Journal of Geophysical Research*, 93(B11), 13181-13207.

- Smith, B.M., & Suemnicht, G.A. (1988). Oxygen isotope profiles of seven geothermal wells in Long Valley Caldera, Central California. *Geological Society of America*, 20(7).
- Smith, B.M., Gunderson, R.P., & Suemnicht, G.A. (1988). Oxygen isotope evidence for magma-groundwater interactions in early post-collapse rhyolite from the Long Valley Caldera, Central California. *Geological Society of America*, 20(7).
- Suemnicht, G.A., & Varga, R.J. (1987). Constraints on models of structure and hydrothermal circulation in Long Valley Caldera, California. *Proceedings of the Symposium on the Long Valley Caldera: A Pre-Drilling Data Review*, 239(10), 32-38.
- Suemnicht, G. A. (1987). Results of deep drilling in the western moat of Long Valley, CA. *EOS*, 68(40), 785-998.
- Schriener, A., & Suemnicht, G.A. (1981). Subsurface rocks at the Geysers Geothermal Area, California. *Proceedings of the Symposium on Mineral Deposits of the Pacific Northwest*, 294-302. In M. L. Silberman, C. W. Field and A. L. Barry (Eds.), *USGS open file report*
- Suemnicht, G. A. (1977). Geology of the Canada del Oro Headwaters, Santa Catalina Mountains, Arizona, University of Arizona, M.S. Thesis, 104 pp.