

**Michael Lane, Ph.D.**

Geologist & GIS Specialist, EGS Inc.

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**SUMMARY**

Dr. Lane is a Registered Geologist with the State of California and is a Licensed Geologist in Oregon. Mike has worked as a consulting geologist specializing in computer depiction of geologic subsurface conditions and groundwater contamination issues. Dr. Lane also served as research staff and associate director in the Environmental Research Center, SUNY College in Oswego, NY. Prior to that, he worked with Chevron Corporation in various locations both at home and abroad in the positions of exploration geologist, field office manager and project coordinator for pre-production phase uranium mining, and as district supervisor for geothermal exploration. Mike has also served as Adjunct Faculty, teaching classes in environment and geology at Hamilton College and Mohawk Valley Community College.

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**WORK HISTORY**

*EGS, Inc.,* *2008-Present* *Geologist & GIS Specialist*  
Providing geological support, cartography, spatial analyses and subsurface site visualization services to the Company.

*Consulting Geologist*  
*The Sea Ranch, CA* *2000-2008* *Consultant*  
Provided geological services and GIS-based cartography and spatial analysis.

*Greenbrae Environmental, San Rafael CA* *1994-2000* *Principal*  
Provided environmental assessments and geological consulting. Projects involved real estate transactions and soil and water remedial actions.

*HJA Associates, Oswego, NY* *1989-1994* *Consulting Geologist*  
Consultant to local and regional governments and private organizations regarding potential impacts of solid and hazardous waste disposal sites. Provided expert testimony during a seven-year groundwater contamination lawsuit.

*Hamilton College, Clinton, NY* *1989-1990* *Adjunct Faculty*  
*Mohawk Valley Community College, Utica, NY*  
Taught Environmental Geology

*Environmental Research Center,*  
*SUNY College, Oswego* *1987-1989* *Research Staff & Acting Assoc. Director*  
Conducted studies relating to biochemistry of refuse decomposition and environmental impacts from solid and hazardous waste disposal sites.



*Chevron Overseas Petroleum, Madrid, Spain* 1983-1986 *Staff Geologist*  
Project Geologist for onshore petroleum exploration, Betic Region, South Spain. Carried out geologic mapping, geochemical source rock studies and seismic interpretation.

*Chevron Resources Company* 1977-1983 *Senior Geologist*  
*San Francisco*  
District Supervisor for geothermal exploration in California, Nevada & Oregon. The exploration programs involved a mix of geologic mapping, geochemical analysis, and geophysical techniques.

*Chevron Resources Company* 1975-1977 *Senior Geologist*  
*Karnes City & San Antonio, Texas*  
Field Office Manager & Project Geologist. Set up and managed field office. Conducted development drilling and assisted with pre-production ore reserve estimates for a five million pound uranium deposit. In 1976, set up and managed regional uranium exploration office in San Antonio.

*Chevron Resources Company* 1972-1975 *Geologist*  
*San Francisco*  
Conducted geological, geochemical, and temperature gradient studies for geothermal exploration in the western US. Well site geologist for deep exploration wells at Beowawe, San Emidio, and Soda Lake (NV), and Heber (Imperial Valley, CA).

*Standard Oil Co. of California* 1969-1972 *Geologist*  
*San Francisco & La Habra*  
Petroleum exploration geologist, focusing on structural interpretation and dipmeter analysis of borehole data. Assisted Chevron Oil Field Research Company personnel in pilot study of computer graphic analysis of subsurface data. Assisted field mapping project in west-central Alaska.

## EDUCATION

1965 A.B. Hamilton College  
1967 M.A. Indiana University  
1970 Ph.D. Indiana University. Dissertation: "Structural Geology and Structural Analysis of a Portion of the Central Taconic Range, Eastern New York."

## Postgraduate Training

Structural Geology Field Seminar, Chevron, 1972  
Geothermal Exploration Basics, Geothermal Resources Council, 1973  
Supervisory Skills & Knowledge Program, Chevron, 1975  
Exploration Geophysics, Geothermal Resources Council, 1978  
Economic Evaluation & Decision Making, Colorado School of Mines, 1978  
Volcanology Field Course, University of Utah, 1979  
Volcanology Short Course, University of Nevada Reno, 1980  
Advanced Supervisor Training Program, Chevron, 1982  
Fundamentals of Groundwater Contamination, Geraghty & Miller, 1990  
Groundwater Remedial Strategies, Geraghty & Miller, 1990  
Landfill Liner Design & Construction, NYSDEC/USEPA, 1991  
Landfill Operations Seminar, NYSDEC/USEPA, 1992

Groundwater Pollution & Hydrology (The Princeton Groundwater Course), 1994, 2000  
ArcGIS Desktop II, Tools and Functionality, ESRI, 2009

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### PROFESSIONAL REGISTRATIONS AND AFFILIATIONS

California Registered Geologist #3513  
Oregon Geologist License # 739

Geological Society of America  
Geothermal Resources Council

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### PUBLICATIONS & PRESENTATIONS (selected)

Brower, R., Scudato, R., & Lane, M. (1992). The use of GIS in environmental planning, Tierra del Fuego, Argentina. *Presented at the 8<sup>th</sup> Annual New York State GIS Conference; Rochester, NY.*

Davis, Stanley N., Dingman, R.J., Turner, W.M., and Lane, M.A., 1974, Hydrogeology of Volcanic Rocks (Canary Islands) , *Geotimes*, v.19 p.25-27

Lane, Michael A., 1971, Review of: California's Changing Landscapes, a guide to the geology of the state, by Gordon B. Oakeshott, in *Journal of Geological Education*, v.19, p.244-245.

Lane, Michael A., (ed.), 1979, Nevada Geothermal Areas – Desert Peak, Humboldt House, Beowawe, - Guidebook for Field Trip #6, Geothermal Resources Council 1979 Annual Meeting, Reno, Nevada, 38 p.

Lane, M.A., Scudato, R., & Brower, R. (1992). The use of GIS in portraying technical information on national priority list superfund sites. *Presented at the 8<sup>th</sup> Annual New York State GIS Conference; Rochester, NY.*

Lane, M.A., Hart, T.C., & Barber, A.J. (1993). Use of GIS in landfill siting public information programs. *Presented at the 9<sup>th</sup> Annual New York State Geographic Information Systems Conference; Ithaca, NY.*

Lane, M.A. (1993). The use of geographic information systems in landfill siting and environmental investigations. *Presented to Central NY Association of Professional Geologists; Syracuse, NY.*

Lane, M.A., Hart, T.C., & Scudato, R.J. (1995). Use of GIS and computer graphics to enhance effective communication of environmental issues. *Presented at the Pacific Section Convention, American Association of Petroleum Geologists; San Francisco, CA.*

Potter, Donald B., and Lane, Michael A., 1969, Some major structural features of the Taconic Allochthon in the Hoosick Falls area, New York – Vermont, in Guidebook for field trips in NY, MA, VT, 61<sup>st</sup> Annual Meeting of the New England Intercollegiate Geological Conference, State University of NY, Albany.

Scudato, Ronald J., James J. Pagano, Michael A. Lane and David L. Hansen, 1993, Leachate recirculation to accelerate stabilization in normally placed and stabilized refuse, in: Proceedings, Fourth International Landfill Symposium, Sardinia (Italy), 11-14 October, 1993.