

Dinah O'Sullivan Shumway, Economic Geologist

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PROFESSIONAL RESUME

September 2003

EDUCATION

M.S. - GEOLOGY: 1984

Dartmouth College, Hanover, New Hampshire

Graduate Fellow/Teaching Assistant

Economic Geology: ore genesis, alteration and tectonic setting, hydrothermal fluid geochemistry, transport and deposition, active hydrothermal and volcanic systems with respect to the geochemistry of surface water, groundwater, and gasses.

POSTGRADUATE STUDIES - 1975

University of Arizona, Tucson, Arizona

Tectonic and structural settings of ore deposits

B.S. - GEOLOGY: 1971

Long Beach State College, Long Beach, California

EXPERIENCE:

1999 to present

TerraMins, Inc. Jointly established TerraMins, Inc., Consulting Mining/Economic Geologists, as Principal.

TerraMins specializes in research, exploration, evaluation, and marketing of all mineral commodities, with emphasis on industrial minerals examination and development.

1989-1999

California Department of Conservation

Division of Mines and Geology, Los Angeles

Geologist: assigned to the Surface Mining and Reclamation Act (SMARA) mineral assessment programs with field areas in southern California counties; conducted mineral land classification studies of all mineral commodities; provided information on regional geology, mining activities, historic mineral production, and various other geologic topics; duties included presentation of lectures to professional, academic, community, and school groups; field trip coordinator and leader for CDMG -sponsored field trips; represented the DMG minerals programs at meetings with industry and other agencies; assisted in developing curricula and lectures in the annual California Mineral Education Foundation Conferences; conducted many outreach activities co-sponsored by the DOS/DMG and acted as seminar chairman for professional organizations.

Research Associate: University of California Department of Earth Sciences: conducted mineral assessment studies in desert counties for SMARA; occasional lecturer and conducted public outreach information and programs.

Dinah O'Sullivan Shumway (cont.)

1987

B.C.A. Engineering

Apple Valley, California

Geologist: Civil and soils engineering; soils investigations and physical testing; design of sewer systems and street plans for private and public agencies.

1979

Dufresne-Henry, Inc.

Springfield, Vermont

Geologist: mineral commodity and engineering studies; conducted seismic surveys as crew leader; plotted and analyzed field data; supervised test pit operations; mapped, described section; sampling drafting; report writing;.

1973-1975

Newmont Exploration Ltd.

Tucson, Arizona

Assistant Geologist: economic geological studies; local and regional studies of base, precious metal, and energy resources, including geothermal resources; review, classification, and evaluation of property submittals; mapping, logging core, sampling, report writing, drafting; developed and implemented total exploration reference system.

California Registered Geologist: No. 5818

PROFESSIONAL AFFILIATIONS

Geological Society of America: *Member since 1976*

Inland Geological Society: *Founding Member, President 1991, Officer, 1986-1990.*

Association for Women Geoscientists: *Member since 1984*

California Chapter Women-In-Mining: *National Representative 1995-1998*

Society for Mining, Metallurgical and Exploration Engineers (SME): Southern

California Mining Section: *Chairman 1995-1996; Treasurer 1991-1995; Seminar Chairman: 1994& 1995; GEM Chairman 1999 to present.*

California Mining Association: *Associate Member since 1999*

Mojave Desert Mining Advisory Council, *1994 to present*

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Association for Women Geoscientists: *Member since 1984*

California Chapter Women-In-Mining: *National Representative 1995-1998*

Society for Mining, Metallurgical and Exploration Engineers (SME): Southern California Mining Section: *Chairman 1995-1996; Treasurer 1991-1995; Seminar Chairman: 1994& 1995.*

California Mining Association: *Associate Member 1999*

Mojave Desert Mining Advisory Council

PUBLICATIONS

- Shumway, D.O., 2001, Construction Aggregate: Seven Tons per year per Californian, The Bradco High Desert Report – A quarterly economic overview, Spring 2002, Volume 28, p. 22-23.
- Shumway, D.O., 2001, Land Use: Conservation, Preservation and Availability of Minerals and other Natural Resources, The Bradco High Desert Report – A quarterly economic overview, Winter 2001, Volume 28, p 16-17.
- Shumway, D.O., 2002, The Minerals of Energy, The Bradco High Desert Report – A quarterly economic overview, Spring 2001, Volume 26, p. 8-9.
- Shumway, D.O., 2000, Cement Manufacturing Industry Contributing \$765 Million to State Economy, The Bradco High Desert Report – A quarterly economic overview, Fall 2000, Volume 25, p. 7-8.
- Shumway, D.O., 2000, Making cement in California, California Geology, California Department of Conservation, vol. 53/No. 3, May/June 2000, pp. 13-19.
- Shumway, D.O., 1999, Raw material in cement manufacture in California, *in* Johnson, K.S. (Ed.), Proceedings of the 34th Forum on the Geology of Industrial Minerals, 1998: Oklahoma Geological Survey Circular 102, p. 189-195.
- Shumway, D.O., 1997, Mineral land classification of Glenn County, California Department of Conservation Division of Mines and Geology Open-File Report, 97-02.
- Shumway, D.O., 1995, Mineral land classification of a part of southwestern San Bernardino County: a part of the eastern San Gabriel Mountains and the western San Bernardino Mountains, California: California Department of Conservation Division of Mines and Geology Open-File Report, 94-07.
- Shumway, D.O., 1995, Mineral land classification of a part of southwestern San Bernardino County: the San Bernardino Valley area: California: California Department of Conservation Division of Mines and Geology Open-File Report, 94-08
- Bezore, S.P., and Shumway, D.O., 1995, Mineral land classification of a part of southwestern San Bernardino County: the Barstow-Victorville area: California: California Department of Conservation Division of Mines and Geology Open-File Report, 94-04.
- Shumway, D.O., 1993, The geology of the Los Angeles basin, field trip guides of the 29th Forum on the Geology of Industrial Minerals, 1993, California Department of Conservation Division of Mines and Geology, Long Beach, California, April 26-30.
- Shumway, D.O., 1993, Mineral land classification of the Ortega Rock quarry, Orange County, California: California Department of Conservation Division of Mines and Geology Open-File Report, 93-05.
- Miller, R.V., Shumway, D.O., and Hill, R.L., 1991, Mineral land classification of the Temescal Valley area, Riverside County, California: California Department of Conservation Division of Mines and Geology Special Report 165.
- Slavin, E., and Shumway, D.O., 1979, Slate Resources in Vermont, Duffresne-Henry, Inc. Springfield Vermont, commissioned by the State of Vermont.
- Stoiber, Benton, L., Connor, C., Douglass, D., Shumway, D., and Swartz, J., 1983, Fumaroles emit acid gases, Volcan Paricutin, SEAN Bulletin, 08:04.

Selected Presentations

- 1993: Geology of Industrial Minerals Forum: Geology of the Cushenbury Mine, San Bernardino County
- 1993: Field Trip Leader: Minerals of the Mojave Desert
- 1998: Geology of Industrial Minerals Forum: Raw material in cement Manufacture in California
- 1998: Field trip leader for Canadians Prospectors Annual Meeting: Industrial Minerals of the Mojave Desert, San Bernardino County, California
- 1999 California Mining Association Annual Meeting: invited presentation: Gold Rush Legacy
- 1999 Inland Geological society: Gold Rush Legacy
- 1999 SME: History of Mining in California
- 2000 CMEF Annual Teacher Conference, San Bernardino: The uses of Minerals
- 2000 GSA meeting At Cal State Long Beach: Chair of session; Sustainability in the Mining Industry