

## **Thomas L. Davis**

### **Curriculum Vitae**

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Thomas L. Davis is a California State registered geologist (#4171), founder and director of the nonprofit Geologic Maps Foundation, Inc., researcher and author and co-author of geologic publications-especially dealing with the structural geology, active tectonics, gas storage fields, and petroleum potential of central and southern California.

### Education

University of California, Santa Barbara, PhD, Geology, 1983. PhD Dissertation: Late Cenozoic Structure and Tectonic History of the Western "Big Bend" of the San Andreas Fault and Adjacent San Emigdio Mountains, California.

University of California, Los Angeles, Bachelor of Science, 1976.

### Past Positions

Position: Director and founder of the Geologic Maps Foundation, Inc.

Period: April 2016-Present (9 months)

Duties: Formed and organized nonprofit, research and presentations on fault displacement hazards at natural gas storage fields, worked on funding Foundation.

Position: Owner, Thomas L Davis Consulting Geologist, Ventura

Period: January 2008 – Present (8 years 1 month).

Duties: Subsurface mapping, seismic reflection and structural interpretations, research on earthquake fault hazards, gas storage field mapping and modeling, and oil & gas prospect generation and field evaluations. Davis has also published papers on the structural geology of California and Nevada, led field trips for professional societies and in-house for various energy companies, subsurface mapped many of the oil fields in southern and central California, surface mapped several 7.5' quads in California along the western and southern margins of the San Joaquin basin and the Cuyama and Salinas basins, and surface mapped and completed structural interpretations in Nevada, Pakistan, and Bangladesh.

Position: Senior Partner, Davis & Namson Consulting Geologists, Glendale

Period: January 1988 – December 2007 (20 years).

Duties: Oil and gas exploration and field development, and prospect generation (domestic and international). Seismic risk evaluation and mapping of blind thrust faults in California. Geologic surface mapping in California, Nevada, Pakistan, and Bangladesh.

Position: New ventures and exploration geologist (international and domestic), Atlantic-Richfield Corporation (ARCO): Los Angeles, Denver, and Bakersfield offices.

Period: January 1978 – December 1987 (10 years).

Duties: Oil and gas exploration and field development geologist doing prospect generation and new ventures assignments in California, Nevada, Alaska, Pakistan, Bangladesh, and China. Surface mapped several of the 7.5' quads in the Cuyama and Salinas basins.

#### Software knowledge

Subsurface and seismic interpretation: IHS Petra and Kingdom

GIS: MapInfo, ArcMAP, and Global Mapper

Cross section construction: LithoTect

Drafting: Corel

General: MS Office

#### Languages

English, fluent

French, limited ability

Spanish, limited ability

#### Interests and activities

Hike several times per week with local hiking groups. Volunteer hike leader for the Weekday Trailblazers hiking club, Ventura County. Lap swim several times per week, and member of Buenaventura Aquatic Center and Marina Sailing, Ventura Harbor. Volunteer assist the Wildlands Conservancy's Wind Wolves Preserve with geological advice and educational materials.

Davis doing field mapping, Baluchistan, Pakistan



**Publications (most of the publications cited below can be downloaded from [www.thomasldavisgeologist.com](http://www.thomasldavisgeologist.com))**

Davis, T.L., 1986, A structural outline of the San Emigdio Mountains, in Davis, T.L. and Namson, J.S., eds, Geologic Transect Across the Western Transverse Ranges: Pacific Section, Society of Economic Paleontologists and Mineralogists, Guidebook and Volume 48, p. 23-32.

\_\_\_\_\_, 2015, Study shows evidence for untested large traps, west-side San Joaquin basin, California: Oil & Gas Journal, Oct. 5, 2015, p. 42-50.

\_\_\_\_\_, 2016a, Well integrity and active faulting: presentation at the Workshop on Well Integrity for Natural Gas Storage in Depleted Reservoirs and Aquifers, U.S. DOE National Laboratories, Broomfield, CO, July 12-13, 2016; power point presentation  
available: <http://eesa.lbl.gov/wellintegrity/agendapresentations/>

\_\_\_\_\_, 2016b, The Santa Susana fault, Aliso Canyon gas storage field, southern California-possible fault rupture hazard, gas well integrity, and regulatory implications (abstract): Joint Annual Meeting of Pacific and Rocky Mountains Sections American Association of Petroleum Geologists (AAPG) Las Vegas, NV, October 2-5, 2016.

\_\_\_\_\_, 2016c, Fault displacement hazard at natural gas storage fields-a future research and regulatory direction: presentation at the Fault Displacement Hazard Analysis Workshop, December 8 – 9, 2016, USGS Menlo Park, CA

Davis, T.L., and Duebendorfer, E., 1982, Surficial structure and geomorphology of the San Andreas fault, western portion of the big bend, in Cooper, J.D., compiler, Neotectonics in southern California guidebook., Field Trip 14, 78th Annual Meeting of the Cordilleran Section of the Geological Society of America, April 19-21, 1982, p. 77-106.

\_\_\_\_\_, 1987, Strip Map of the San Andreas Fault Western Big Bend Segment: The Geological Society of America Map and Chart Series MC-60.

Davis, T.L., and Namson, J., 2014, Nevada's Chainman shale shows exploration potential, Oil & Gas Journal, June 2, 2014. P. 42-49.

\_\_\_\_\_, 1994, a balanced cross-section of the 1994 Northridge earthquake, southern California, **Nature**, v. 372, no. 10, p.167-169.

\_\_\_\_\_, in press, Petroleum traps and structures along the San Andreas convergent strike-slip plate boundary, California, in Cooper, M., Kluth, C., Nolle, S., eds., Outcrops that change the way we practice petroleum geology, Chpt. 5, Traps, for the 2017 American Association of Petroleum Centenary Volume, 45 pgs.

Davis, T.L., and Lagoe, M.B., 1988, A structural interpretation of major tectonic events affecting the western and southern margins of the San Joaquin Valley, in Graham, S.A., ed., Studies of the geology of the San Joaquin Valley, Pacific Section Society of Economic Paleontologists and Mineralogists, v. 60, p. 65-87.

Davis, T.L., Lagoe, M.B., Bazeley, W.J.M., Gordon, S., McIntosh, K., and Namson J.S., 1988, Structure of the Cuyama Valley, Caliente Range, and Carrizo Plain and its significance to the structural style of the southern Coast Ranges and western Transverse Ranges, in W.J.M. Bazeley, ed., Tertiary tectonics and sedimentation in the Cuyama basin, San Luis Obispo, Santa Barbara, and Ventura Counties, California: Pacific Section, Society of Economic Paleontologists and Mineralogists, Book 59, p. 141-158.

Davis, T.L., Namson, J., and Yerkes, R.F., 1989, A cross section of the Los Angeles area: seismically active fold and thrust belt, the 1987 Whittier Narrows earthquake, and earthquake hazard: Journal of Geophysical Research, v. 94,

Davis, T.L., Namson, J.S., and Gordon, S.A., 1996, Structure and hydrocarbon exploration in the Transpressive basins of southern California, in Abbott, P.L., and Cooper, J.D., eds., Field conference guide 1996, Pacific Section, Society of Economic Paleontologists and Mineralogists, Volume and Book 80, Pacific Section, American Association of Petroleum Geologists, Guidebook and Volume 73.

\_\_\_\_\_, 2012, Structure and hydrocarbon exploration in the Transpressive basins of southern California, in Guidebook for Field Trip #5, American Association Annual Convention, Long Beach, CA, April 22-25, 2012.

\_\_\_\_\_, 2014, Structure and hydrocarbon exploration in the Transpressive basins of southern California, in Guidebook for Field Trips #4 & #6, Joint Annual Meeting of PSAAPG-PSSEPM-PCSSEG, Bakersfield, CA, April 27-30, 2014.

\_\_\_\_\_, 2015, Ventura Basin Oil Fields: Structural Setting and Petroleum System, in Guidebook for Field Trip #5, May 7, 2015, Joint Annual Meeting of PSAAPG & Coast Geologic Society, PSSEPM, & PCSSEG, Oxnard, CA 93050, May 2-8, 2015.

Davis, T.L. and Wirtz, Y., 2016, Geologic field trip to the Mojave National Preserve, California, in Guidebook for Field Trip #5, October 5-7, 2016, Joint Annual Meeting of the Pacific Section and Rocky Mountains Sections AAPG, Las Vegas, NV.

Davis, T.L., Wirtz, Y., Gordon, G., 2016, Structural Geology and Oil Field Traps of the Western and Southern Margins of the San Joaquin Basin, California, in Guidebook for Field Trip #1, September 30-October 1, 2016, Joint Annual Meeting of the Pacific Section and Rocky Mountains Sections AAPG, Las Vegas, NV.

Duebendorfer, E.M., Vermilye, J., Geiser, P.A., and Davis, T.L., 1998, Evidence for aseismic deformation in the western Transverse Ranges, southern California: Implications for seismic risk assessment, *Geology*, v. 26, no. 3 p. 271-274.

Hauksson, E., Jones, L.M., Davis, T.L., Hutton, K., Brady, G., Reasenber, P.A., Michael, A.J., Yerkes, R.F., Williams, P., Reagor, G., Stover, C.W., Bent, A.L., Shakal, A.K., Etheredge, E., Porcella, R.L., Bufe, C.G., Johnston, M.J.S., and Cranswick, E., 1988, The 1987 Whittier Narrows Earthquake in the Los Angeles Metropolitan Area, California, **Science**, v. 239, p. 1409-1412.

Namson, J.S., and Davis, T.L., 1988a, Seismically active fold and thrust belt in the San Joaquin Valley, central California: *Geological Society of America Bulletin*, v.100, p. 257-273.

\_\_\_\_\_, 1988b, Structural transect of the western Transverse Ranges, California: implications for lithospheric kinematics and seismic risk evaluation: *Geology*, v.16, p.675-679.

\_\_\_\_\_, 1990, Late Cenozoic fold and thrust belt of the southern Coast Ranges and Santa Maria basin, California: *American Association of Petroleum Geologists Bulletin*, v. 74, no.4, p. 467-492.

Namson, J.S., Davis, T.L., and Lagoe, M.B., 1990, Tectonic history and thrust fold deformation style of seismically active structures near Coalinga, in Rymer, M.J., Ellsworth, W.L., eds., *The Coalinga earthquake of May 2, 1983*, United States Geological Survey Professional Paper 1487, p. 79-96