Abbreviated Vita
September 2016
John Suppe

Distinguished Professor (effective 1 Sept 2016)
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Born: 30 November 1942, Los Angeles, California

Degrees: B.A. (Honors), University of California, Riverside, 1965
Ph.D., Yale University, 1969

Positions: NSF Doctoral Fellow, Yale Univerrsity, 1965-1969
Assoc. Research Geologist, Yale University, 1969
NSF Postdoctoral Fellow, University of California, Los Angeles, 1969-1971
Acting Assistant Professor, University of California, Los Angeles, 1970
Assistant Professor, Princeton University, 1971-1976
Associate Professor, Princeton University, 1976-1979
Professor, Princeton University, 1979-1988
Blair Professor of Geology, Princeton University, 1988-2007
Blair Professor of Geology Emeritus, Princeton University, 2007-present
Distinguished Chair Professor, National Taiwan University, 2007-present
Distinguished Professor, University of Houston, 2016-present

Chairman, Department of Geological and Geophysical Sciences, Princeton University, 1991-1994
Visiting Professor, National Taiwan University, 1978-1979, 1982-1983
Visiting Professor, California Institute of Technology, 1988-1989
Visiting Professor, Universitat de Barcelona, 1995
Visiting Professor of Tectonics, California Institute of Technology, 2005-2006
Visiting Professor, Ludwig Maximillians University, Munich, 2006, 2008, 2009

Honors: Guggenheim Fellow, 1978-1979
Best Publication Award Structural Geology & Tectonics, Geological Society of America, 1986
Guest Investigator NASA Magellan Mission to Venus, 1990
Member, National Academy of Sciences, 1995
Best Publication Award Structural Geology & Tectonics, Geological Society of America, 1996
Concurrent Professor, Nanjing University, 1999
Selected as *Highly Cited Researcher* by Science Citation Index http://isihighlycited.com/
Alexander von Humboldt Foundation, Research Prize, 2006
Wilbur Lucius Cross Medal, Yale University, 2007
Career Contribution Award for Structural Geology & Tectonics, Geological Society of America, 2008
Robert H. Dott, Sr. Memorial Award, American Association of Petroleum Geologists, 2013

Books and Monographs

B1. 1973 Geology of the Leech Lake Mountain-Ball Mountain Region, California: A cross-section of the northeastern Franciscan belt and its tectonic implications: Univ. Calif. Publ. Geol. Sci., v. 107, 120 pp.

B2. 1977 (with J. G. Liou, C. Y. Lan, and W. G. Ernst) The East Taiwan Ophiolite: its occurrence, petrology, metamorphism, and tectonic setting: Mining Research and Service Organization, Taipei, Special Paper, no. 1, 213 p.

B3. 1985 Principles of Structural Geology: Prentice-Hall Inc., Englewood Cliffs, N.J., 537 pp.

B4. 1985 (with N. B. Woodward and S. E. Boyer) An Outline of Balanced Cross-Sections: Univ. Tenn. Dept. Geol. Sci., Studies in Geology no. 11, 2nd ed., 170 pp.

B5. 1988 (with S.P. Clark, Jr. and B.C. Burchfiel), eds, Processes in Continental Lithospheric Deformation: Geological Society of America Special Paper 218, 212p.

B6. 2005 (with J. H. Shaw and C. D. Connors), editors, Seismic Interpretation of Contractional Fault-Related Folds. American Association of Petroleum Geologists, 156 pp.

B7. 2005 (with Dengfa He) Guidebook for fieldtrip in south and north Tianshan foreland basin, Xinjiang Uygur Autonimous Region, China: International Conference on Theory and Application of Fault-Related Folding in Foreland Basins, 78 pp.

B8 2011 (with K. McClay and J. H. Shaw), editors, Thrust Fault-Related Folding, American Association of Petroleum Geologists Memoir 94, 390 pp.

Journal Articles and Chapters in Books

1. 1969 Times of metamorphism in the Franciscan Terrain of northern Coast Ranges, California: Geol. Soc. Amer. Bull., v. 80, p. 135-142.

2. 1970 Relationship between low-angle faulting and metamorphism in Franciscan tectonics, California (Discussion Paper): Geol. Soc. Amer. Abstr. w/Programs, p. 3253-3258.

3. 1970 Offset of Late Mesozoic basement terrains by the San Andreas fault system: Geol. Soc. Amer. Bull., v. 81, p. 3253-3258.

4. 1972 (and R. L. Armstrong) Potassium-argon dating of Franciscan metamorphic rocks: Amer. Jour. Sci., v. 272, p. 217-233. (Reprinted in W. G. Ernst, ed., 1975, Subduction Zone Metamorphism, Benchmark Series, Dowden, Hutchinson and Ross).

5. 1972 Interrelationships of high pressure metamorphism, deformation, and sedimentation in Franciscan tectonics U.S.A.: XXIV International Geological Congress, Montreal, Reports Section 3 (Tectonics), p.552-559 (Reprinted in W. G. Ernst, ed.,

1975, Subduction Zone Metamorphism, Benchmark Series, Dowden, Hutchinson and Ross).

6. 1973 (with R. L. Armstrong) Potassium-argon geochronometry of Mesozoic igneous rocks in Nevada, Utah, and southern California: Geol. Soc. Amer. Bull., v. 84, p. 1375-1392.

7. 1973 (with C. Powell and R. Berry) Regional topography, seismicity, volcanism, and the present-day tectonics of the western United States: Proceedings of the Conference on Tectonics Problems of the San Andreas Fault System, R. L. Kovach and A. Nur, eds., Stanford Univ. Publ., Geol. Sci., v. 13, p. 181-185.

8. 1975 (with C. Powell and R. Berry) Regional topography, seismicity, volcanism, and the present-day tectonics of the western United States: American Journal of Science, vol. 275-A, p.397-436.

9. 1976 (with Y. Wang, J. G. Liou and W. G. Ernst) Observation of some contacts between basement and Cenozoic cover in the Central Mountains, Taiwan: Proc. Geol. Soc. China, V. 19, p. 59-70.

10. 1976 Decollement folding in southwestern Taiwan: Petroleum Geology of Taiwan, no.13, p.25-35.

11. 1977 (with J. G. Liou and W. G. Ernst) Conglomerates and pebbly mudstones in the Lichi Melange: Geol. Soc. China, Memoir 2, p. 115-128.

12. 1977 (and C.Y. Lan, E.M. Hendel, and J.G. Liou) Paleogeographic interpretation of red shales within the East Taiwan Ophiolite: Petroleum Geology of Taiwan, no.14, p. 109-120.

13. 1977 (with J. H. Wittke) Abnormal pore-fluid pressures in relation to stratigraphy and structure in the active fold-and-thrust belt of northwestern Taiwan: Petroleum Geology of Taiwan, no.14, p. 11-24.

14. 1978 Blueschist metamorphism: McGraw-Hill Encyclopedia of Geological Sciences, McGraw-Hill, New York, p. 62-64.

15. 1978 (with K. Foland) The Goat Mountain Schist and Pacific Ridge Complex: A redeformed but still-intact late Mesozoic Franciscan schuppen complex, in Howell, D. and McDougall, K., eds., Mesozoic Paleogeography of the Western United States: Society of Economic Paleontologists and Mineralogists Pacific Section, Pacific Coast Paleogeography Symposium 2, p. 431-451.

16. 1978 Cross section across southern part of northern Coast Ranges and Sacramento Valley, California: (1:250,000 with map, gravity models, and 6 p. text), Geological Society of America, Map and Chart Series, MC-28B.

17. 1979 Structural interpretation of the southern part of the northern Coast Ranges and Sacramento Valley, California: Summary: Geol. Soc. Amer. Bull., Part I, v. 90, p. 327-330.

18. 1979 (with J. G. Liou and C. Y. Lan) Field Trip Guide to East Taiwan Ophiolite: Field Guidebook ROC-ROK Workshop on Regional Stratigraphical and Structural Studies, National Science Council, ROC, p. 13-21.

19. 1979 (with J. G. Liou) Tectonics of the Lichi Melange and East Taiwan Ophiolite: Geol. Soc. China, Memoir 3, p. 147-153.

20. 1979 (with J. Namson) Fault-bend origin of frontal folds of the western Taiwan fold-and-thrust belt: Petroleum Geology of Taiwan, no. 16, p. 1-18.

21. 1980 A retrodeformable cross section of northern Taiwan: Geol. Soc. China Proc., no. 23, p. 46-55.

22. 1980 Imbricated structure of western foothills belt, southcentral Taiwan: Petroleum Geology of Taiwan, no. 17, p. 1-26.

23. 1981 (with B. M. Page) The Pliocene Lichi Melange of Taiwan: its olistostromal and plate-tectonic origin: Amer. Jour. Sci., v. 281, p. 193-227.

24. 1981 (with J. G. Liou and W. G. Ernst) Paleogeographic origins of the East Taiwan Ophiolite: Amer. Jour. Sci., v. 281, p. 228- 246.

25. 1981 Mechanics of mountain building and metamorphism in Taiwan: Geol. Soc. China Mem. 4, p. 67-89.

26. 1981 (with Chi Wen-Rong and Jay Namson) Stratigraphic record of plate interactions in Coastal Range, eastern Taiwan: Geol. Soc. China Mem. 4, p. 491-530.

27. 1983 Geometry and kinematics of fault-bend folding: Amer. Jour. Sci., v. 283, p. 684-721. [Reprinted in Amer. Assoc. Petroleum Geol., Treatise of Petroleum Geology, Reprint Series no. 9, N.H. Foster and E.A. Beaumont, eds., Structural Concepts and Techniques II., p. 422-461, 1988]

28. 1983 (with D. Davis and F. A. Dahlen) Mechanics of fold-and-thrust belts and accretionary wedges: Journal of Geophysical Res., vol. 88, p. 1153-1172. [Best Publication Award, Structural Geology and Tectonics Division, Geological Society of America, 1986]

29. 1983 (and Y. L. Chang) Kink method applied to structural interpretation of seismic sections, western Taiwan: Petroleum Geology of Taiwan, no. 19, p. 29-49.

30. 1984 (with F. A. Dahlen and D. Davis) Mechanics of fold-and-thrust belts and accretionary wedges: cohesive Coulomb theory: Journal of Geophysical Res., v. 89, p. 10087-10101.

31. 1984 Seismic interpretation of compressively reactivated normal fault near Hsinchu, western Taiwan: Petroleum Geology of Taiwan, no. 20, 85-96.

32. 1984 Kinematics of arc-continent collision, flipping of subduction, and back-arc spreading near Taiwan: Geological Society of China, Mem. 6, p. 21-33.

33. 1985 (with Chi Wen-Rong) Tectonic implications of Miocene sediments of Lan-Hsu Island, northern Luzon arc: Petroleum Geology of Taiwan, no. 21, p. 93-106.

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37. 1987 The Active Taiwan Mountain Belt: Chapt. 15 in J. P. Schaer and J. Rodgers, eds., Anatomy of Mountain Chains: Princeton University Press, p. 277-293.

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39. 1987 (with M.D. Zoback, M.L. Zoback, V.S. Mount, J.P. Eaton, J.H. Healy, D. Oppenheimer, P. Reasenberg, L. Jones, C.B. Raleigh, I.G. Wong, O. Scotti, and C. Wentworth) New evidence on the state of stress of the San Andreas fault system: Science, v.238, p.1105-1111.

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41. 1988 Tectonics of arc-continent collision on both sides of the South China Sea: Taiwan and Mindoro: Acta Geologica Taiwanica, no.26, p. 1-18.

42. 1989 (with H.B. Xiao) Role of compaction in the listric shape of growth normal faults: American Assoc. Petroleum Geol. Bull., v. 73, p. 777-786.

43. 1990 (with R.E. Bischke and R. Del Pilar) A new branch of the Philippine fault system as observed from aeromagnetic and seismic data: Tectonophysics, v. 183, p. 243-264.

44. 1990 (with V.S. Mount and S.C. Hook) A forward modeling strategy for balanced cross sections: Amer. Assoc. Petroleum Geol. Bull., v. 74, p. 521-531.

45. 1990 (with R.E. Bischke) Calculating sandstone-shale ratios from growth normal fault dips on seismic profiles: Gulf Coast Association of Geological Societies Transactions, v. 40, p. 39-50.

46. 1990 (and D. A. Medwedeff) Geometry and kinematics of fault-propagation folding: Eclog. Geol. Helv., v. 83 (Laubscher vol.) p. 409-454.

47. 1991 (with H.B. Xiao and F.A. Dahlen) Mechanics of extensional wedges and their relationship to compressional wedges: Jour. Geophys. Res., v. 96, p. 10,301-10,318.

48. 1991 (and G. T. Chou and S.P. Hook) Rates of folding and faulting determined from growth strata: in K. R. McClay, ed., Thrust Tectonics:Chapman & Hall, London, p. 105-121. [Best Publication Award, Structural Geology and Tectonics Division, Geological Society of America, 1996]

49. 1991 (with J. Mosar) Role of shear in fault-propagation folding: in K. R. McClay, ed., Thrust Tectonics: Chapman & Hall, London, p. 123-132.

50. 1991 (with W. Narr) Joint spacing in sedimentary rocks: Journal of Structural Geology , v. 13, p. 1037-1048.

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52. 1992 (with V. S. Mount) Present-day stress orientations adjacent to active strike-slip faults: California and Sumatra: Journal of Geophysical Research, 97, 11,995-12,031.

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54. 1993 (with J. K. Crouch) Neogene tectonic evolution of the Los Angeles basin and inner borderland: A model for core complex-like crustal extension. Geol. Soc. America Bull. v. 105, p. 1415-1434.

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56. 1994 (with J. H. Shaw) Active faulting and growth folding in the eastern Santa Barbara Channel, California. Geol. Soc. America Bull., v. 106, p. 607-626.

57. 1994 (with J. H. Shaw and R. E. Bischke) Relationships between folding and faulting in the Loma Prieta epicentral zone: Strike-slip fault-bend folding. in NEHRP report to Congress, The Loma Prieta, California, Earthquake of October 17, 1989, U.S. Geological Survey Professional Paper 1550-F, p. 3-22.

58. 1994 (with E. Novoa), Solving structures caused by wedging and imbrications: Example in the northeastern Santa Barbara Channel, California. Memorias del VII Congreso Venezolano de Geofisica, p. 478-485.

59. 1994 (with W. Narr) Kinematics of basement-involved compressive structures: American Journal of Science, v. 294, p. 802-860.

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62. 1995 (with J. Dolan, Sieh, K., Rockwell, T. K., Yeats, R. S., Shaw, J., Huftile, G., and Gath, E.) Prospects for larger or more frequent earthquakes in the Los Angeles metropolitan region, California. Science, v. 267, p. 199-205.

63. 1995 (with M. Price) Constraints on the resurfacing history of Venus from the hypsometry and distribution of volcanism, tectonism, and impact craters. Earth Moon and Planets, v. 71, p. 99-145..

64. 1996 (with J. H. Shaw) Earthquake hazards of active blind-thrust faults under the central Los Angeles basin, California. Journal of Geophysical Research, v. 101, p. 8623–8642.

65. 1996 (with M. Price, Watson, G., and Brankman, C.) Dating Venusian rifting and volcanism using impact crater densities. Journal of Geophysical Research, v. 101, p. 4657–4671.

66. 1997 (and F. Sabat, J. A. Muños, J. Poblet, E. Roca, and J. Verges) Bed-by-bed fold growth by kink-band migration: Sant Llorenç de Morunys, eastern Pyrenees. Journal of Structural Geology, v. 19, 443-461.

67. 1997 (with D. A. Medwedeff) Multibend fault-bend folding. Journal of Structural Geology, v. 19, 279-292.

68. 1997 (with K. Mueller) Growth of Wheeler Ridge anticline, California: Implications for short-term folding behavior during earthquakes. Journal of Structural Geology , v. 19, 383-396.

69. 1997 (with D. T. Sandwell, C. L. Johnson, and F. Bilotti) Driving forces for limited tectonics on Venus. Icarus, v. 129, 232-244.

70. 1998 (with E. Novoa and V. Mount) Map-view interference of monoclinal folds. Journal of Structural Geology, v. 20, 339-353.

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72. 2000 (with Gregg Erickson and Stuart Hardy) Sequential restoration and unstraining of structural cross sections: applications to extensional . Bulletin American Association of Petroleum Geologists, v. 84, p. 234-249.

73. 2000 (with E. Novoa and J. H. Shaw) Inclined-shear restoration of growth folds. Bulletin American Association of Petroleum Geologists, v. 84, p. 787-804.

74. 2000 (with Delphine Rouby and Hongbin Xiao) Folding and faulting mechanism in 3D—Restoration of folded and faulted surfaces. Bulletin American Association of Petroleum Geologists, v. 84, p.805-829.

75. 2001 (with Erickson, S. G., and Strayer, L. M.) Initiation and reactivation of faults during movement over a thrust-fault ramp: Numerical mechanical models. Journal of Structural Geology, v. 23, p. 11-23.

76. 2001 (with Chris Connors) Constraints on magnitudes of extension on Venus from slope measurements. Journal of Geophysical Research, v. 106, 3237-3260.

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79. 2002 (with S. Carena) 3D imaging of active structures using earthquake aftershocks: the Northridge thrust. Journal of Structural Geology, v. 24, p. 887-904.

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82. 2004 (with S. Carena, and H. Kao) Lack of continuity of the San Andreas fault in southern California: Three-dimensional fault models and earthquake scenarios. Journal of Geophysical Research, v. 109, B04313, 17 pp.

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119 2016 (with Wang, Xin; Liang, H.; He, Dengfa) Large-scale thrusting along the northern margin of the Tibetan Plateau and the southwest Tarim basin: the 230 km long active Hotian thrust sheet. In preparation

120 2016 (with Yu-Huan Hsieh, Char-Shine Liu) The Chimei submarine canyon and fan: A record of Taiwan arc-continent collision. In preparation