

Abbreviated Vita
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Degrees: B.A. (Honors), University of California, Riverside, 1965
Ph.D., Yale Univ. Doctoral Fellow, Yale University, 1965-1969

Positions: NSF Doctoral Fellow, Yale University, 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, 2007-present
Distinguished Chair Research Professor, National Taiwan Univ., 2007-present

Chairman, Department of Geological and Geophysical Sciences, 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, Calif Institute of Technology, 2005-2006
Visiting Professor, Ludwigs Maximillians University, Munich, 2006

Honors: Guggenheim Fellow, 1978-1979
Best Publication Award, Structural Geology & Tectonics, Geological Society of America, 1986
Guest Investigator NASA Magellan Mission to Venus
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
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Alexander von Humboldt Foundation, Research Prize, 2006
Wilbur Lucius Cross Medal, Yale University, 2007

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 Autonomous Region, China: International Conference on Theory and Application of Fault-Related Folding in Foreland Basins, 78 pp.
- B8. 2007 Folding in the Upper Crust: Princeton University Press (in preparation).
- B9. 2007 (with K. McClay and J. H. Shaw), editors, Thrust-Related Folding, American Association of Petroleum Geologists Memoir (in preparation).

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).
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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 reformed 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.
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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.
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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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35. 1986 Reactivated normal faults in the western Taiwan fold-and-thrust belt: *Geol. Soc. China Mem.* no. 7, p. 187-200.
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45. 1990 (with R.E. Bischke) Calculating sandstone-shale ratios from growth normal fault dips on seismic profiles: *Gulf Coast Association of Geological Societies*, 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.
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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.
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59. 1994 (with W. Narr) Kinematics of basement-involved compressive structures: *American Journal of Science*, v. 294, p. 802-860.
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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.
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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 monoclinical folds. *Journal of Structural Geology*, v. 20, 339-353.
71. 1999 (with Frank Bilotti) The global distribution of Wrinkle Ridges on Venus. *Icarus*, v. 139, 137-157
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.
77. 2001 (with Erickson, S. G., and Strayer, L. M.) Mechanics of extension and inversion in the hanging walls of listric normal faults. *Journal of Geophysical Research*, v. 106, 26,655-26,670.
78. 2002 (with L. M. Strayer) 3D mechanical modeling of thrust propagation : distinct-element method. *Journal of Structural Geology*, v. 24, p. 637-650.
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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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87. 2005 (with A. Hubert-Ferrari, X. Wang and C. Jia) The Yakeng detachment fold, China. In J. Shaw, C. Connors, J. Suppe, editors, *Seismic Interpretation of Contractional Fault-Related Folds*. *American Association of Petroleum Geologists*, p. 110-113.
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90. 2005 (with F. Corredor and J. H. Shaw) Shear fault-bend fold, deep water Niger Delta. In J. Shaw, C. Connors, J. Suppe, editors, *Seismic Interpretation of Contractional Fault-Related Folds*. *American Association of Petroleum Geologists*, p. 87-92.
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- 95 2007 (with A. Hubert-Ferrari, Ramon Gonzalez-Mieres, X. Wang) Mechanisms of active folding of the landscape (Southern Tianshan, China). *Journal of Geophysical Research*. v. 112, B03S09, doi:10.1029/2006JB004362, 39 pp.
- 96 2007 (with Yue-Gau Chen, Kuang-Yin Lai, Yuan-Hsi Lee, John Suppe, Wen-Shan Chen, Yu-Nung N. Lin, Yu Wang, Jih-Hao Hung) [Coseismic fold scarps and their kinematic behavior in the 1999 Chi-Chi earthquake Taiwan](#). *Journal of Geophysical Research* v. 112, B03S02, doi:10.1029/2006JB004388, 15 pp.
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Submitted:

- S1 2006 Mass balance and thrusting in detachment folds. (In K. McClay, J. H. Shaw and J. Suppe, editors) Thrust-Related Folding, American Association of Petroleum Geologists Memoir (submitted).
- S2 2006 (with Ramon Gonzalez-Mieres) Shortening histories of active detachment folds. (In K. McClay, J. H. Shaw and J. Suppe, editors) Thrust-Related Folding, American Association of Petroleum Geologists Memoir (submitted).
- S4 2006 (with Li-Fan Yue and Jih-Hao Hung) Two contrasting kinematic styles of active folding above thrust ramps, western Taiwan. (In K. McClay, J. H. Shaw and J. Suppe, editors) Thrust-Related Folding, American Association of Petroleum Geologists Memoir (submitted).

In preparation:

- P1 2007 Folding in the Upper Crust. Princeton University Press (book in preparation)
- P2 2007 (with Li-Fan Yue) Pore-fluid pressure and active faulting in the western Taiwan thrust belt. Journal of Geophysical Research (in preparation).
- P3 2007 (with A. Hubert-Ferrari, X. Wang, H. Xie, Q. Li, and C. Jia) Structure and Record of Growth of the Kuche Fold-and-Thrust Belt, Southern Tianshan, China. (In K. McClay, J. H. Shaw and J. Suppe, editors) Thrust-Related Folding, American Association of Petroleum Geologists Memoir (in preparation).
- P5 2007 (with Ramon Gonzalez-Mieres) Structural relief and shortening above thrust ramps, examples from Niger Delta and Cascadia. Journal of Structural Geology (in preparation)