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Welton Joseph and Maud L'Anphere Crook Professor,
Department of Geological Sciences
Stanford University
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YEAR AND PLACE OF BIRTH

1950 Evansville, Indiana, USA

EDUCATION

1972 A.B., Geology, with Honors, Indiana University
1974 M.S., Geology, Stanford University
1976 Ph.D., Geology, Stanford University
Dissertation: "Sedimentary tectonics of the Salinian block, California";
Advisors: W.R. Dickinson and J.C. Ingle, Jr.

PROFESSIONAL EXPERIENCE

1976 Research Geologist, Exxon Production Research Company
1976-78 Exploration Geologist, Chevron USA, Inc.
1978-80 Development Geologist, Chevron USA, Inc.
1980-89 Associate Professor, Applied Earth Sciences and Geology, Stanford University
1989-93 Professor of Applied Earth Sciences and Geology, Stanford University
1989-present Professor of Geophysics, by courtesy, Stanford University
1993-present Professor of Geological & Environmental Sciences, Stanford University
1993-present Professor of Energy Resources Engineering, by courtesy, Stanford University

HONORS AND AWARDS

1968 Earth Sciences Freshman Scholarship, Indiana University
1968-72 Arthur R. Metz Distinguished Scholarship, Indiana University
1969-70 Standard Oil Co. of Texas, undergraduate geology award
1971 Best student paper, Rocky Mountain Section, Geological Society of America
1972 Senior Faculty Scholarship Award, Indiana University
1972 Phi Beta Kappa
1972-1975 National Science Foundation Graduate Fellowship
1982 Fellow, Geological Society of America
1987 Sproule Award, American Association of Petroleum Geologists (AAPG)
1987 Outstanding Teacher Award, School of Earth Sciences, Stanford University
1991 Honorary Member, Pacific Section, SEPM (Society for Sedimentary Geology)
1995 Outstanding Educator Award, Pacific Section, American Association of Petroleum Geologists (AAPG)
2005 Welton Joseph and Maud L'Anphere Crook Professor
2005 A.I. Levorsen Award, Pacific Section, American Association of Petroleum Geologists (AAPG)
2007 Grover E Murray Memorial Distinguished Educator Award, American Association of Petroleum Geologists (AAPG)
2013 Charles Taylor Fellow, American Association of Petroleum Geologists (AAPG)
2014 Richard Owen Award, Indiana University
2016 Robert Mitchum Award, European Association of Geoscientists and Engineers (EAGE)
2016 SEPM-ACE Outstanding Presentation Award, Research Symposium-Orals

- 2016 Dean's Discretionary Award for Distinguished Service, School of Earth, Energy and Environmental Sciences
 2017 Francis Pettijohn Medal, SEPM (Society for Sedimentary Geology)

PROFESSIONAL SOCIETY MEMBERSHIPS

American Association of Petroleum Geologists
 American Geophysical Union
 Geological Society of America
 Pacific Section, Society of Economic Paleontologists and Mineralogists
 SEPM (Society for Sedimentary Geology)
 Sigma Xi

UNIVERSITY ACTIVITIES

- 1980 Faculty Search Committee, Petroleum Engineering Department
 1981-present Director, Stanford Petroleum Geology Industrial Affiliates Program
 1983-84 Faculty Senate
 1983-84 Faculty Search Committee, Petroleum Engineering Department
 1984-85 Freshman Advisor
 1983-1993 Graduate Admissions Committee, Applied Earth Sciences Department
 1986 Faculty Search Committee, Geology Department
 1987 Faculty Search Committee, Applied Earth Sciences Department
 1987-88 Chairman, Sedimentary Geology Faculty Search Committee, Geology Department
 1987-2007 Director, Stanford-China Geosciences Industrial Affiliates Program
 1987-1989 Graduate Advisor, Masters of Exploration Geophysics Program, Geophysics Department
 1992-present Co-Director, Stanford Program on Deep-Sea Depositional Systems
 1992-93 Chairman, Organic Geochemistry Faculty Search Committee, Stanford University
 1994-95 Advisor, Stanford University Sexual Harassment Panel
 1995 Petroleum Engineering Search Committee
 1995-1999 Chairman, Ocean Margins Initiative Faculty Search Committee
 1996-1998 Associate Chair, Geological and Environmental Sciences Department
 1996-1999 Faculty Senate
 1996-present Earth Sciences Council, School of Earth Sciences
 1998-1999 Acting Chair, Geological and Environmental Sciences
 1999-2000 Associate Chair, Geological and Environmental Sciences Department
 1999-2007 Associate Dean for Academic Affairs, School of Earth Sciences
 1999-2000 University Committee on Graduate Studies
 1999-2007 University Undergraduate Advisory Council
 1999-2007 University Writing Advisory Board
 2000 Acting Dean, School of Earth Sciences
 2001-2005 Faculty Senate
 2004-2005 Overseas Studies Program Director, Search Committee
 2004-2005 President's Commission on Graduate Education
 2004-2005 Co-Chair, Paleobiology Faculty Search Committee
 2004-2005 Search Committee, Earth Sciences Librarian
 2006 Search Committee for Vice Provost and Dean of Research and for Dean of Graduate Studies
 2006-2009 Interim Co-Director, Stanford University Microanalytical Center
 2007-2009 Faculty Search Committee, Geochronology Faculty Search
 2007 Faculty Search Committee, Energy Resource Engineering Department
 2007-2009 Chair, Geological and Environmental Sciences
 2007-present Co-Director, Basin and Petroleum Systems Modeling Industrial Affiliates Program
 2009-2014 Associate Dean for Academic Affairs and Diversity, School of Earth Sciences
 2014-2016 Senior Associate Dean for Faculty Affairs, School of Earth, Energy and Environmental Sciences
 2016-2017 Faculty Search Committee, Continental Dynamics Search
 2017 Dean Search Committee, School of Earth, Energy and Environmental Sciences

PROFESSIONAL ACTIVITIES

- 1979 Field Trip Leader, Pacific Section, Society of Economic Paleontologists and Mineralogist, Annual Fall Field Trip
- 1980 Field Trip Leader, Pacific Section, Society of Economic Paleontologists and Mineralogists, Annual Fall Field Trip
- 1981 Session Convener, 1981 Annual Meeting, American Association of Petroleum Geologists
- 1981 Field Trip Leader, 1981 Annual Meeting, American Association of Petroleum Geologists
- 1982 President Pacific Section, Society of Economic Paleontologists and Mineralogists
- 1983 Field Trip Leader, Annual Meeting, Pacific Section, Society of Economic Paleontologists and Mineralogists
- 1983-84 Chairman, Deep-water Sedimentation Group, Society of Economic Paleontologists and Mineralogists
- 1983-89 Associate Editor, American Association Petroleum Geologists Bulletin
- 1983 Session Convener, Annual Meeting, Pacific Section, Society of Economic Paleontologists and Mineralogists
- 1984 Field Trip Leader, Annual Meeting, Geological Society of America
- 1984 Organizing committee member, First Annual SEPM Midyear Meeting
- 1985 Field Trip Leader, Pacific Section, Society of Economic Paleontologists and Mineralogists Annual Fall Field Trip
- 1985-90 Coordinator, West Coast Stratigraphic Cross-Section Project, American Association Petroleum Geologists
- 1985 Member, Committee on Northern Pacific Drilling I.P.O.D.
- 1986-88 Research Committee, American Association of Petroleum Geologists
- 1988 Session Convener, Annual Meeting, American Association of Petroleum Geologists
- 1990 Session Convener, Annual Meeting, American Association of Petroleum Geologists
- 1990 SEPM (Society for Sedimentary Geology) Technical Program Chairman for 1990 Annual Meeting of the American Association of Petroleum Geologists
- 1990-93 Councilor of Sedimentology, SEPM (Society for Sedimentary Geology)
- 1994-97 Associate Editor, Journal of Sedimentary Research
- 1994 Session Co-Convener, Annual Meeting, Geological Society of America
- 1996 Symposium Convener, SEPM (Society of Sedimentary Geology) Annual Meeting
- 2000 Field Trip Chairman, Centennial Meeting of the Cordilleran Section, Geological Society of America
- 2000 Co-Convener, Hedberg Field Research Conference, American Association of Petroleum Geologists
- 2001-present Circum-Pacific Council Board of Directors
- 2003 Session Convener, American Geophysical Union
- 2003 Session Convener, Geological Society of America, Cordilleran Section
- 2006-2015 Co-Instructor, Deep-water Field Seminar, American Association of Petroleum Geologists
- 2007 Co-Convener, International Conference on Nonmarine Depositional Systems, Beijing
- 2007 Session Chair, Arizona Geological Society Symposium
- 2009-present Co-P.I., ICDP Cretaceous Climate Corehole Project
- 2010 Guest editor, Basin Research, Special Issue on Chinese Nonmarine Basins
- 2010 Co-Convenor, Songliao Scientific Drilling Workshop
- 2010-17 AAPG Centennial Field Trip Committee
- 2011 AGU Chapman Conference, Program Committee
- 2012 Pacific Section SEPM, Vice President
- 2015 Session Chair, Geological Society of America Annual Meeting
- 2016 Session Chair, Geological Society of America Annual Meeting
- 2016-present Advisory Council, King Faud University of Petroleum and Minerals

COURSE OFFERINGS

Regularly taught courses:

Geologic Interpretation of Reflections Seismograms (GP 223)

Introduction to Sedimentary Geology (GS 106)

Petroleum Geology (GS 253)
Reservoir Characterization (GS/ERE 246)
Sedimentary Basins (GS 251)

M.S. AND PH.D. DISSERTATIONS SUPERVISED

- 1982 Scott Cooley, M.S., Depositional environments of the lower and middle Miocene Temblor Formation of Reef Ridge and vicinity, Fresno and Kings Counties, California
- 1982 Jane Woodward, M.S., Development and infilling of the South Pass shelf-edge failure bowl, offshore Mississippi delta
- 1982 John Moragne, M.S., Development and infilling of the South Pass shelf-edge failure bowl, offshore Mississippi delta
- 1983 Jon Kuespert, M.S., The depositional environment and provenance of the Miocene Temblor Formation and associated Oligo-Miocene units in the vicinity of Kettleman North Dome, San Joaquin Valley, California
- 1983 Cathy Gavigan, M.S., Sedimentary petrology of Mio-Pliocene sandstones of the central California Coast Ranges with application to interpretation of movement on the San Gregorio-Hosgri fault system
- 1983 Hugh Whelan, M.S., Geostatistical estimation of the spatial distributions of porosity and percent clay in a Miocene Stevens turbidite reservoir: Youlumne Field, California
- 1984 Matthew Bate, M.S., Temblor and Big Blue Formations: Interpretation of depositional environment sequence on Coalinga anticline, Fresno County, California
- 1985 Jack Carter, M.S., Depositional environments and tectonic history of the type Temblor Formation, Chico-Martinez Creek, Kern County, California
- 1985 Happy Harun, M.S., Distribution of deposition of lower to middle Eocene strata in central San Joaquin Valley, California
- 1985 Margot Sherr, M.S., An analysis of the economics of petroleum extraction on the continental shelf of eastern China
- 1985 Richard Ward, M.S., Sedimentology, diagenesis, and provenance of the slope channel deposits exposed within the upper siliceous member of the Monterey Formation west of Gaviota Beach, California
- 1985 Linda Weber, M.S., Lithologic and organic source analysis--Stevens interval, Cal Canal field, Kern County, California
- 1986 Jennifer Pence, M.S., Sedimentation and tectonics of the upper Oligocene to middle Miocene Temblor Formation of the northern Temblor Range, Kern and San Luis Obispo counties, California
- 1986 James Bent, M.S., Petrographic reconnaissance of upper Oligocene-middle Miocene sandstones of the San Joaquin basin, California
- 1986 Roy Marion, M.S., Neogene stratigraphy and hydrocarbon generation in the Salinas basin, California
- 1986 Robert Milam, Ph.D., Biostratigraphy and sedimentation of the Eocene and Oligocene Kreyenhagen Formation, central California (co-advised with J.C. Ingle, Jr.)
- 1986 Blake Gillespie, M.S., The Temblor Formation: Maricopa to the eastern San Emigdio Mountains, Kern County, California
- 1987 Jane Hicks Gruenfelder, M.S., Stratigraphy and source rock potential of the Miocene Monterey Formation, San Joaquin basin, California
- 1987 Adrian Hudson, M.S., Natural gas contracts in a deregulated supply market
- 1987 Richard Hubbard, Ph.D., Geologic evolution of three rifted margins in the Americas
- 1987 Julianne Lundberg, M.S., Master limited partnerships: Form, taxation, and performance analysis
- 1987 Greta Miller, M.S., Sedimentology, depositional environment, and reservoir characteristics of the Kern River Formation, southeastern San Joaquin basin
- 1987 Ralph Tolson, Ph.D., Structure, stratigraphy, and tectonic evolution and petroleum source potential of the Hope basin, southern Chukchi Sea, Alaska
- 1988 John Beery, M.S., Depositional history and paleo-environments of the lower and middle Miocene Temblor Formation, northern San Joaquin basin, California
- 1988 Douglas McGuire, Ph.D., Stratigraphy, depositional history, and hydrocarbon source-rock potential of the upper Cretaceous-lower Tertiary Moreno Formation, central San Joaquin basin, California (co-advised with J.C. Ingle, Jr.)
- 1988 Hilary Clement Olson, Ph.D., Middle Tertiary stratigraphy, depositional environments, paleoecology and tectonic history of the southeastern San Joaquin basin, California (co-advised with J.C. Ingle, Jr.)

- 1989 Andrew Evans, Ph.D., The sedimentary evolution of the Suez rift basin, Egypt: Neogene paleobathymetry, subsidence and uplift history, tectonic and stratigraphic events
- 1989 Karen Grove, Ph.D., Late Cretaceous sedimentation and tectonics of the Salinian terrane, west central California
- 1989 Mark Rentschler, Ph.D., Cenozoic tectonics of the southeastern Coast Ranges and San Joaquin basin, California
- 1990 Ian Moxon, Ph.D., Stratigraphic and structural architecture of the San Joaquin and Sacramento Valleys
- 1990 Karen Loomis, Ph.D., Late Neogene depositional history and paleoenvironment of the west-central San Joaquin basin, California (co-advised with J.C. Ingle, Jr.)
- 1991 Roger Bloch, Ph.D., Studies of the stratigraphy and structure of the San Joaquin basin, California
- 1991 Alan Carroll, Ph.D., Late Paleozoic tectonics, sedimentation, and petroleum potential of the Junggar and Tarim basins, northwest California
- 1992 Tina Niemi, Ph.D., Late Holocene slip rate, prehistoric earthquakes, and Quaternary neotectonics of the northern San Andreas fault, Marin County, California
- 1992 Marc Hendrix, Ph.D., Sedimentary basin analysis and petroleum potential of Mesozoic strata, northwest China
- 1993 Benjamin Schulein, M.S., Sedimentology and tectonics of the upper lower to lower middle Eocene Domingine Formation, Vallecitos syncline, California
- 1993 Cleavy McKnight, Ph.D., Structural styles and tectonic significance of Tian Shan foothill fold-thrust belts, northwest China
- 1994 Tracey Chester, M.S., Analysis of vertical cyclicity patterns in two sediment gravity flow sequences
- 1995 Edward R. Sobel, Ph.D., Basin analysis and apatite fission-track thermochronology of the Jurassic-Paleogene southwest Tarim basin, NW China
- 1995 Alysa M.D. Keller, M.S., Paleoclimatologic analysis of an Upper Jurassic petrified forest, southeastern Mongolia
- 1995 Cristy P. Harrison, M.S., Aspects of the deposition and depositional architecture of the upper Stevens deep-sea depositional system, southern San Joaquin basin, Kern County, California
- 1995 Amory, M.S., Permian sedimentation and tectonics of southern Mongolia
- 1997 Thomas A. Williams, Ph.D., Basin-fill architecture and forearc tectonics, Cretaceous Great Valley Group, Sacramento basin, northern California
- 1997 Da Zhou, Ph.D., Studies in the tectonics of China: Extensional tectonics of the northern margin of the South China Sea; amalgamation and uplift of the Tian Shan; and wedge extrusion model for the Altyn Tagh fault
- 1998 Xudong Ying, Ph.D., Syn-rift structural style, basin fill and sequence stratigraphy and their control on development of organic facies in the Beibu Gulf basin, South China Sea
- 1998 Bradley D. Ritts, Ph.D., Mesozoic tectonics and sedimentation, and petroleum systems of the Qaidam and Tarim basins, NW China
- 1998 Melissa A. Lamb, Ph.D., Paleozoic sedimentation, volcanism, and tectonics of southern Mongolia
- 1998 Elizabeth L. Mason, M.S., Internal facies architecture of a sand-rich, deep-sea depositional system: The Rocks Sandstone, Reliz Canyon Formation, northern Santa Lucia Range, Monterey County, California
- 1998 Kai S. Anderson, Ph.D., Facies architecture of two Paleogene structurally-controlled turbidite systems, central California
- 1999 Andrew D. Hanson, Ph.D., Organic geochemistry and petroleum geology, tectonics, and basin analysis of southern Tarim and northern Qaidam basins, northwest China
- 1999 Jing Li, M.S., Paleobathymetry estimation by using seismic and paleontology data in QDN basin, South China Sea
- 1999 Donald D. Miller, Ph.D., Sequence stratigraphy and controls on deposition of the upper Cenozoic Tulare Formation, San Joaquin Valley, California
- 2000 Todd Greene, Ph.D., Tectonics, basin analysis and organic geochemical attributes of Permian through Mesozoic deposits and their derivative oils of the Turpan-Hami basin, northwestern China
- 2001 Kathy DeGraaff Surplus, Ph.D., SHRIMP detrital zircon geochronology of forearc basins: a study of the Great Valley Group of California and the Methow basin of Washington (co-advised with M. McWilliams)
- 2001 Cari L. Johnson, Ph.D., Sedimentary record of late Mesozoic extension, southeast Mongolia: Implications for the petroleum potential and tectonic evolution of the China-Mongolia border region
- 2003 Tim Cope, Ph.D., Sedimentary evolution of the Yanshan fold-thrust belt, northeast China
- 2003 Li Yuan Hsiao, Ph.D., Sequence stratigraphy and structure of the south Xialiao basin, Bohai, China
- 2003 Adedayo Adeogba, M.S., Depositional controls and geometries of deep-water deposits as imaged by near-surface 3D seismic data, Niger delta, Nigeria

- 2003 Michael Shultz, Ph.D., Stratigraphic architecture of two deep-water depositional systems: The Tres Pasos formation, Chilean Patagonia, and the Stevens Sandstone, Elk Hills
- 2003 Yongjun Yue, Ph.D., Slip history of the Altyn Tagh fault and its implication for tectonics of Asia
- 2004 Andrea Fildani, Ph.D., Analysis of two arc-associated basins and onset of their deep-water stages: Magallanes basin, Chile, and Talara basin, Peru
- 2004 Brita Graham Wall, Ph.D., Evolution of fluid flow pathways along fracture controlled faults in fold and thrust belt carbonates (co-advised with Attila Aydin)
- 2006 Stephen Hubbard, Ph.D., Deep-Sea foreland basin axial channels and associated sediment gravity flow deposits, Oligocene Molasse basin, Upper Austria, and Cretaceous Magallanes Basin, Chile
- 2006 Amy L. Weislogel, Ph.D., The sedimentary record of Mesozoic collisional orogenesis, central China: Geochemical, geochronometric and paleoenvironmental constraints
- 2007 Mangzheng Zhu, Ph.D., Offshore Red River fault and slope sediments in northern South China Sea: Implications for paleoceanography and uplift of the Tibet Plateau
- 2008 Brian W. Romans, Ph.D., Controls on distribution, timing, and evolution of turbidite systems in tectonically active settings: The Cretaceous Tres Pasos Formation, southern Chile, and the Holocene Santa Monica Basin, California.
- 2008 Jacob Covault, Ph.D., Development of turbidite architecture on tectonically active continental margins: Multiscale investigation of the Quaternary California Borderland, Tertiary Molasse Basin, Austria, and Cretaceous Magallanes Basin, Chile
- 2009 Dominic Armitage, Ph.D., High-resolution architectural evolution of depositional elements in deep-marine slope environments: The Quaternary Niger delta slope, Quaternary southwest Grand Banks slope, Canada, and Cretaceous Tres Pasos Formation, Chile
- 2009 Abena Temeng, M.S., Distributary channel development of the Newport submarine canyon-channel system, Southern California Borderland
- 2009 Christopher Mitchell, M.S., Subduction complex uplift and exhumation and its influence on Maastrichtian forearc stratigraphy in the Great Valley basin, northern San Joaquin Valley, California
- 2010 Elizabeth J. Cassel, Ph.D., Cenozoic landscape evolution of the northern Sierra Nevada and western Basin and Range: Implications for tectonics, climate, and topography.
- 2011 Lisa E. Stright, Ph.D., Multiscale modeling of deep-water channel deposits: an interdisciplinary study integrating geostatistics, geology and geophysics--- the Cretaceous Cerro Toro Formation, southern Chile, the Eocene Ardath and Scripps Formations, Southern California, and the Oligocene Puchkirken Formation, Upper Austria.
- 2011 Keisha Durant, M.S., Basin and petroleum system modeling of the Sur and northern offshore Santa Maria areas, offshore central California
- 2011 Julie C. Fosdick, Ph.D., Linking orogenic deformation, exhumation, and basin evolution in the Patagonian Andes and Magallanes basin, southernmost South America
- 2012 Katherine Maier, Ph.D., Depositional architecture of deep-water slope systems: Examples from the Quaternary Lucia Chica channel system, offshore central California and the upper Miocene Urenui Formation, New Zealand.
- 2012 Meng He, Ph.D., Evaluating petroleum systems using advanced geochemistry and basin modeling.
- 2014 Wisam Alkawai, M.S., Integrating basin modeling with seismic technology and rock physics
- 2014 Blair Burgreen, Ph.D., The influence of convergent margin structure on deep-water stratigraphic architecture, pore pressure evolution, and source rock maturation in the East Coast basin, New Zealand
- 2014 Theresa Menotti, Ph.D., Petroleum system evolution, strike-slip tectonism and diagenesis of the Monterey Formation in the Salinas basin, central California
- 2014 Glenn Sharman, Ph.D., Provenance, paleogeography, and mass-movement of deep-water depositional systems in arc-adjacent basins: The Cretaceous-Paleogene California forearc and upper Miocene Mohakatino Formation, New Zealand
- 2015 Theresa M. Schwartz, Ph.D., Insights into the growth and decay of orogenic wedges from foreland basin successions
- 2016 Matthew A. Malkowski, Ph.D., Controls on along-strike variations in stratigraphy and provenance of a successor foreland basin system, Jurassic-Cretaceous evolution of the southern Patagonian Andes and the Magallanes/Austral Basin
- 2016 Lauren Schultz, M.S., Evaluating the thermal history of the Los Angeles basin, California through 3-D basin and petroleum system modeling
- 2016 Lauren Shumaker, Ph.D., Sedimentology, seismic geomorphology, and provenance investigations of deep-water deposits: Taranaki basin, New Zealand, New Zealand
- 2017 Christopher H. Kremer, M.S., Transversely-sourced mass-transport deposits and stratigraphic evolution of

a foreland submarine channel system: Deep-water Tertiary strata of the Austrian Molasse Basin

POST-DOCTORAL RESEARCH ASSOCIATES SUPERVISED

Loretta Williams, Peter DeCelles, Marc Hendrix, Melissa Lamb, Karen Chin, Cari Johnson, Yongjun Yue, Danica Dralus, Devon Orme

PUBLICATIONS IN REFEREED JOURNALS AND BOOKS

Journal articles published in: American Association of Petroleum Geologists Bulletin; American Journal of Science; Annual Review of Marine Science; Austrian Journal of Earth Sciences Science; Basin Research; Earth and Planetary Sciences Letters; Earth-Science Reviews; Geological Society of America Bulletin; Geology; Geosphere; International Geology Review; Journal of Geological Education; Journal of Geology; Journal of Sedimentary Petrology, Journal of Sedimentary Research; Lithosphere; Marine and Petroleum Geology, Nature; Palaeogeography, Palaeoclimatology, Palaeoecology; Palaios; PNAS; Organic Geochemistry; Sedimentology; Tectonics, Tectonophysics

1. Graham, S.A., 1974, Remnant magnetization of modern tidal flat sediments from San Francisco Bay, California: *Geology*, v. 2, p. 223-226.
2. Graham, S.A., and L.J. Suttner, 1974, Occurrence of middle Cambrian islands in southwest Montana: *The Mountain Geologist*, v. 11, p. 71-84.
3. Graham, S.A., W.R. Dickinson, and R.V. Ingersoll, 1975, Himalayan-Bengal model for flysch dispersal in the Appalachian-Ouachita system: *Geological Society of America Bull.*, v. 86, no. 3, p. 273-286.
4. Graham, S.A., R.V. Ingersoll, and W.R. Dickinson, 1976, Common provenance for lithic grains in Carboniferous from Ouachita Mountains and Black Warrior Basin: *Journal of Sedimentary Petrology*, v. 46, p. 620-632.
5. Graham, S.A., 1978, Role of Salinian block in evolution of San Andreas fault system, California: *American Association Petroleum Geologists Bulletin*, v. 62, 2214-2231.
6. Graham, S.A., and W.R. Dickinson, 1978, Apparent offsets of onland geologic features across the San Gregorio-Hosgri fault trend: *Science*, v. 199, p. 179-181.
7. Graham, S.A., and W.R. Dickinson, 1978, Apparent offsets of onland geologic features across the San Gregorio-Hosgri fault trend: *Calif. Div. Mines and Geology Special Report*, v. 137, p. 13-23.
8. Dickinson, W.R., R.V. Ingersoll, and S.A. Graham, 1979, Paleogene sediment dispersal and paleotectonics in northern California: *Geol. Soc. America Bull.*, v. 90, summary in Part I, p. 897-898, text in Part II, p. 1458-1528.
9. Graham, S.A., 1983, Evolving concepts and teaching approaches in tectonics and sedimentation: *Journal of Geological Education*, v. 31, no. 4, p. 266-276.
10. Graham, S.A., and S.B. Bachman, 1983, Controls on submarine fan geometry and internal architecture: Upper La Jolla fan system, offshore southern California: *American Association Petroleum Geologists Bulletin*, v. 67, no. 1, p. 83-96.
11. Ingersoll, R.V., and S.A. Graham, 1983, Recognition of shelf-slope break along tectonically active ancient continental margins: *Society Economic Paleontologists and Mineralogists, Special Publication No. 33*, p. 107-117.
12. Graham, S.A., C. McCloy, M. Hitzman, R. Ward, and R. Turner, 1984, Basin evolution during change from convergent to transform continental margin in central California: *American Association Petroleum Geologists Bulletin*, v. 58, p. 233-240.
13. Graham, S.A., and L.A. Williams, 1985, Tectonic, depositional, and diagenetic history of Monterey Formation (Miocene), central San Joaquin basin, California: *American Association Petroleum Geologists Bulletin*, v. 69, p. 385-411.
14. Bachman, S.B., and S.A. Graham, 1986, La Jolla Fan, Pacific Ocean. In A.H. Bouma, W.R. Normark, and N.E. Barnes, eds., *Submarine fans and related turbidite systems*: Springer-Verlag Publishers, p. 65-70.
15. Bate, M.A., and S.A. Graham, 1987, Significance of reservoir stratigraphy in production of heavy oil from Coalinga oil field, California: *American Association of Petroleum Geologists Studies in Geology* 25, p. 301-311.
16. DeCelles, P., R. Tolson, S.A. Graham, and 12 co-authors, 1987, Laramide thrust-generated alluvial-fan sedimentation, Sphinx Conglomerate, southwestern Montana: *American Association of Petroleum Geologists*, v. 71, p. 135-155.

17. Graham, S.A., 1987, Tectonic controls on petroleum occurrence in central California. In R.V. Ingersoll and W.G. Ernst, eds., *Cenozoic basin development of coastal California: Rubey Volume VI*, Prentice-Hall, p. 47-61.
18. Graham, S.A., and 14 co-authors, 1987, Provenance modeling as a technique for analyzing source terrane evolution and controls on foreland sedimentation: *International Association of Sedimentologists Special Publication 8*, p. 425-436.
19. Moxon, I.W., and S.A. Graham, 1987, History and controls of subsidence in the Late Cretaceous-Tertiary Great Valley Forearc basin, California: *Geology*, v. 15, p. 626-629.
20. Ingersoll, R.V., W. Cavazza, S.A. Graham, and Indiana University Graduate Field Seminar Participants, 1987, Provenance of impure calcilithites in the Laramide foreland of southwestern Montana: *Journal of Sedimentary Petrology*, v. 57, p. 995-1003.
21. Graham, S.A., R.G. Stanley, J.V. Bent, and J.B. Carter, 1989, Oligocene and Miocene paleogeography of central California and displacement along the San Andreas fault: *Geological Society of America Bulletin*, v. 101, p. 711-730.
22. Liou, J.G., Graham, S.A., Maruyama, S., Wang, X., Xiao, X., Carroll, A.R.*, Chu, J., Feng, Y., Hendrix, M.S., Liang, Y.H., McKnight, C.L., Tang, Y., Wang, Z.X., Zhao, M. and Zhu, B., 1989, Proterozoic blueschist belt in western China: Best documented Precambrian blueschists in the world: *Geology*, v. 17, p. 1127-1131.
23. Carroll, A.R., Y. Liang, S.A. Graham, X. Xiao, M.S. Hendrix, J. Chu, and C.L. McKnight, 1990, Junggar basin, northwest China: Trapped late Paleozoic ocean: *Tectonophysics*, v. 181, p. 1-14.
24. Graham, S.A., S. Brassell, A.R. Carroll, X. Xiao, G. Demaison, C.L. McKnight, Y. Liang, J. Chu, and M.S. Hendrix, 1990, Characteristics of selected petroleum-source rocks, Xinjiang Upper Autonomous Region, northwest China: *American Association of Petroleum Geologists Bulletin*, v. 74, p.493-512.
25. Liou, J.G., Maruyama, S., Wang, X. and Graham, S.A., 1990, Precambrian blueschist terranes of the world: *Tectonophysics*, v. 181, p.97-111.
26. McKnight, C.L., Q. Gan, A.R. Carroll, M. Zhao, D. Dilcher, Y. Liang, S.A. Graham, 1990, Fluvial sedimentology of an upper Jurassic petrified forest assemblage, Shishu Formation, Junggar basin, Xinjiang, China: *Palaeogeography, Palaeoecology, Palaeoclimatology*, v. 79, p. 1-9.
27. Nakajima, T., S. Maruyama, S. Uchiumi, J.G. Liou, X. Wang, X. Xiao, and S.A. Graham, 1990, The age of the oldest blueschist of the world--the Aksu Group of northwestern China: *Nature*, v. 346, 263-265.
28. Carroll, A.R., S. C. Brassell, and S.A. Graham, 1992, Upper Permian lacustrine oil shales, southern Junggar basin, northwest China: *American Association of Petroleum Geologists Bulletin*, v. 76, p. 1874-1902.
29. Hendrix, M.S., S.A. Graham, A.R. Carroll, E.R. Sobel, C.L. McKnight, B.J. Schulein, and Z. Wang, 1992, Sedimentary record and climatic implications of recurrent deformation in the Tian Shan: evidence from Mesozoic strata of the north Tarim, south Junggar, and Turpan basins, northwest China: *Geological Society of America Bulletin*, v. 104, p. 53-79.
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DISCUSSION AND REPLY

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