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Personal

Born March 14,1954

Education

Lake Forest College, 1972-1973

Denison University, 1973-1976

University of Illinois, 1975 (summer)

State University of New York at Albany, 1976-1982

Degrees

B.Sc Denison University, 1976

M.Sc. State University of New York at Albany, 1980

Ph.D. State University of New York at Albany, 1983

Theses

Complex structure and stratigraphy of the lower slices of the Taconic Allochthon near Granville, New York: M.Sc. thesis, State University of New York at Albany, 258 pp.

Operation of the Wilson Cycle in western New England during the Early Paleozoic: with emphasis on the stratigraphy, structure, and emplacement of the Taconic Allochthon: Ph.D. thesis, State University of New York at Albany, 602 pp.

Professional Experience

Professor, The University of Chicago 2000-present

Department Chair, The University of Chicago April 1999-June 2006

Associate Professor, The University of Chicago 1993-2000

Senior Research Associate, The University of Chicago, 1986-1992

Lecturer, The University of Chicago, Fall 1984, Structural Geology

Research Associate, The University of Chicago, Paleogeographic Atlas Project, 1982-1986

Lecturer, State University of New York at Albany, Spring 1982 taught Tectonics I (graduate and undergraduate) and Fundamentals of Geology

Research Associate, State University of New York at Albany, Spring and Summer, 1982
Editor, Journal of Geology, July 2008-
Associate Editor, Geology, 1993-1998
External Visiting Committees, Harvard Earth and Planetary Sciences 2004-2010, Princeton Geosciences 2007, Lehigh, 2009, Arizona State University 2011
AGU Hess Medal Committee: 2010-2012
GSA Publication Committee: 2018-
University Committees, Council of the Senate, 2000-2003,2004-2007;2009-Present
Committee of the Council, 2006; Vice President's Committee on Physical Sciences Core Facilities, 2005; Ryerson Lecturer Selection Committee, 2005-2007(chair), Physical Sciences Diversity Committee (Chair), 2007- 2010; Provost's GEMs committee; University of Chicago Press Board, 2016-2018
Consultant Geologist, Globex International, Louisiana Lands and Exploration, Shell Development Co., Royal Dutch Shell, Pennzoil, Marathon Oil, Texaco USA, Oryx, British Petroleum, ARCO, ARCO International, and ARCO Alaska, Yumen Oil Field (PRC), Amoco International, Chevron Overseas, National Geographic, BHP-Utah International, Mobil, Conoco, Getech, Anandarko
Teaching Assistant, State university of New York at Albany, 1976 -1977,1978-1981
Research Assistant, State University of New York at Albany, 1977 -1978
Summer Research Assistant, Museum of Northern Arizona, 1976
Teaching Assistant, Denison University, 1974-1976
Geologist, Denison University Wilderness Challenge Program, 1976

Honors

Canadian Institute for Advanced Research, Earth System Evolution Program- Senior Fellow April 1999-2014

American Geophysical Union, Fellow, 2018

Publications (not including abstracts and book reviews)

- 1979 Rowley, D. B., W.S.F. Kidd, and L.L. Delano, Detailed stratigraphic and structural features of the Giddings Brook slice of the Taconic Allochthon in the Granville area. In G.M. Friedman, ed., New York State Geological Association and New England Intercollegiate Geological Conference Guidebook, p. 182-242
- 1981 Rowley, D.B., and W.S.F. Kidd, Stratigraphic relationships and detrital composition of the medial Ordovician flysch of western New England: implications for the tectonic evolution of the Taconic Orogeny. Journal of Geology, v. 89, p.199-218.
- 1982 Bosworth, W., D.B. Rowley, and W.S.F. Kidd, A structure section in Eastern New York showing variation in style of deformation across the Taconic Allochthon: Discussion. Northeastern Geology, v. 4 , p. 111-116.
- 1982 Rowley, D.B., A new method for estimating displacements of large thrust faults affecting Atlantic-type shelf sequences: with an application to the Champlain Thrust, Vermont. Tectonics, v. 1 ,p. 369-388.

- 1982 Rowley, D.B., and W.S.F. Kidd, Stratigraphic relationships and detrital composition of the medial Ordovician flysch of western New England: implications for the tectonic evolution of the Taconic Orogeny: a reply to Geiser. *Journal of Geology*, v. 90, p. 230 -233.
- 1982 Rowley, D.B., and W.S.F. Kidd, Stratigraphic relationships and detrital composition of the medial Ordovician flysch of western New England: implications for the tectonic evolution of the Taconic Orogeny: a reply to Rodgers. *Journal of Geology*, v. 90, p. 223 -226.
- 1984 Bosworth, W., and D.B. Rowley, Early obduction-related deformation features of the Taconic Allochthon: Analogy with structures observed in modern trench environments. *Geological Society of America Bulletin*, v. 95, 559-567.
- 1985 Fisher, D.W., compiler, Geologic map of the Granville Quadrangle, New York. New York State Museum and Science Services Map and Chart Series. (contributor).
- 1985 Fisher, D.W., compiler, Geologic map of the Thorn Hill Quadrangle, New York. New York State Museum and Science Service Map and Chart Series. (contributor).
- 1985 Rowley, D.B., A. Raymond, J.T. Parrish, A.L. Lottes, C.R. Scotese, and A.M. Ziegler, Carboniferous paleogeographic, phytogeographic, and paleoclimatic reconstructions. *International Journal of Coal Geology*, v. 5, p. 7-42.
- 1985 Scotese, C.R., and D.B. Rowley, The orthogonality of subduction: an empirical rule? *Tectonophysics*, v. 116, p. 173-187.
- 1985 Ziegler, A.M., D.B. Rowley, A.L. Lottes, D.L. Sahagian, M. L. Hulver, and T.C. Gierlowski, Paleogeographic Interpretation: with an example from the Mid-Cretaceous. *Annual Reviews of Earth and Planetary Sciences* v. 13, p. 385-425.
- 1986 Rowley, D.B., and D.L. Sahagian*, Depth-dependent stretching: a different approach. *Geology*, v.14, 32-35.
- 1987 Ziegler, A.M., A.L. Raymond, T.C. Gierlowski, M.A. Horrell, D.B. Rowley, and A.L. Lottes, Coal, climate and terrestrial productivity: the present and early Cretaceous compared. in Scott, A.C., ed., *Coal and Coal-bearing Strata: Recent Advances*, Geological Society Special Publication, 32, 25-49
- 1988 Bosworth, W., D.B. Rowley, W.S.F. Kidd, and C. Steinhardt, Geometry and style of post-obduction thrusting in a Paleozoic orogen: the Taconic frontal thrust system. *Journal of Geology*, 96, 163-180.
- 1988 Pindell, J.L., S.C. Cande, W.C. Pitman, D.B. Rowley, J.F. Dewey, J. LaBrecque, and W. Haxby, A plate-kinematic framework for models of Caribbean evolution. *Tectonophysics* 155, 121-138
- 1988 Rowley, D.B. and Lottes*, A.L., Plate Kinematic reconstruction of the North Atlantic and Arctic: Late Jurassic to Present. *Tectonophysics*, 155, 73-120
- 1988 Rowley, D.B., and J.L. Pindell, End Paleozoic-Early Mesozoic Western Pangean Reconstruction and its implications for the distribution of Precambrian and Paleozoic rocks around Meso-America. *Precambrian Research*, 42, 411-44.
- 1989 Rowley, D.B., A.M.Ziegler, and Nie*, S-Y, Mesozoic overthrust tectonics in South China, (comment to Hsü et al.,1988), *Geology*, 17, 384-386
- 1990 Lottes*, A.L., and D.B. Rowley, Reconstruction of the Laurasian and Gondwanan segments of Permian Pangaea, in McKerrow and Scotese, *Geological Society of London, Memoir* 12, 383-395.

- 1990 Nie*, S-Y, D.B. Rowley, and A.M. Ziegler, Constraints on the locations of Asian microcontinents in Palaeo-Tethys during the Late Paleozoic, in McKerrow and Scotese, Geological Society of London, Memoir 12, 397-409.
- 1991 Sengor, A.M.C., A. Cin, D.B. Rowley, and S-Y. Nie*, Magmatic evolution of the Tethysides: a guide to reconstruction of collage history: Palaeogeography, Palaeoclimatology, and Palaeoecology, 87, 411-440.
- 1992 Richter, F., D.B. Rowley, and D. De Paolo, Sr Isotope Evolution of Sea Water: The Role of Tectonics, Earth Planetary Science Letters, 109, 11-23.
- 1992 Rowley, D. B., and P.J. Markwick*, Exxon Eustatic Sea Level Curve: Implications for sequestered water volumes and alternative interpretations. Journal of Geology 100,703-715
- 1992 Rowley, D.B., Preliminary Jurassic reconstructions of the Circum-Pacific region: G. Westermann, ed., IGCP Jurassic Circum-Pacific Project, Cambridge University Press, 15-27.
- 1993 Nie*, S.Y., Van der Voo, R., Li, M.S., and Rowley, D.B., Paleomagnetism of late Paleozoic rocks in the Tianshan, northwest China: Tectonics, 12, p. 568-579.
- 1993 Sengor, A.M.C., A. Cin, D.B. Rowley, and S-Y. Nie, Space-Time Patterns of Magmatism along the Tethysides, a preliminary study. Journal of Geology 101, 51-84.
- 1993 Ziegler, A.M., J.M. Parrish, J. Yao, E.D. Gyllenhaal, D.B. Rowley, J.T. Parrish, S. Nie*, A. Bekker, and M.L. Hulver*, Early Mesozoic phytogeography and climate. In: Palaeoclimates and Their Modelling with Special Reference to the Mesozoic Era. Philosophical Transactions of the Royal Society of London, Ser. B, 341.
- 1994 Nie*, S.Y., and Rowley, D.B., Comment on "Paleomagnetic constraints on the geodynamic history of the major blocks of China from the Permian to the Present" by R.J. Enkin et al.: Journal of Geophysical Research, 99, p. 18035-18042.
- 1994 Nie*, S.Y., Rowley, D.B., Yin, A., and Jin, Y.G., Exhumation of the Dabie Shan Ultra-high Pressure Rocks and Accumulation of the Songpan-Ganzi Flysch Sequence, Central China: Geology, 22, p. 999-1002.
- 1995 Rowley, D.B., A simple geometric model for the syn-kinematic erosional denudation of thrust fronts: Earth Planetary Science Letters 129, p. 203-216.
- 1996 Rowley, D.B., Age of initiation of collision between India and Asia: A review of stratigraphic data: Earth Planetary Science Letters, 145, p. 1-13.
- 1996 Xue*, F., Rowley, D.B., and Baker, J., Refolded syn-ultrahigh pressure thrust sheets in the South Dabie complex, China: Field evidence and tectonic implications: Geology, 24, p. 455-458.
- 1996 Ziegler, A.M., Rees*, P.M., Rowley, D.B., Bekker, A., Li, Q., and Hulver*, M.L., Mesozoic assembly of Asia: Constraints from Fossil Floras, Tectonics and Paleomagnetism, in Yin, A., and Harrison, T.M., eds., The Tectonic Evolution of Asia, 371-400.
- 1997 Baker, J., Matthews, A., Matthey, D., Rowley, D.B., and Xue*, F., Stable isotope systematics of the UHP metamorphic terrain, Dabie Shan, China: Geochimica et Cosmochimica Acta. 61, 1685-1696.
- 1997 Ziegler, A.M., Hulver*, M.L., and Rowley, D.B., Permian World Topography and Climate, in Martini, I.P., ed., Late Glacial and Postglacial Environmental Changes-Quaternary, Carboniferous-Permian and Proterozoic: New York, Oxford University Press, 111-146.

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- 1998 Ziegler, A.M., and Rowley, D.B., The vanishing record of epeiric seas, with emphasis on the Late Cretaceous 'Hudson Seaway', in Crowley, T.J., and Burke, T.J., eds., *Tectonic Boundary Conditions for Climate Reconstructions: Oxford Monographs on Geology and Geophysics: 39*, 147-165, Oxford University Press.
- 1998 Rowley, D.B., Minimum age of initiation of collision between India and Asia north of Everest based on the subsidence history of the Zhepure Mountain section, *Journal of Geology*, 106, 229-235.
- 1998 Spray, J.G., Kelley, S. P., Rowley, D.B., Evidence for a late Triassic multiple impact event on Earth, *Nature*, 392, p. 171-173.
- 2001 D. B. Rowley, R. T. Pierrehumbert, and B.S. Currie*, A New Approach to Stable Isotope-Based Palealtimetry: Implications for Palealtimetry and Paleohypsometry of the High Himalaya since the Late Miocene, *Earth and Planetary Science Letters* 188, 253-268.
- 2002 Gibbs*, M.T., Rees*, P.M., Kutzbach, J.E., Ziegler, A.M., Behling, P. & Rowley, D.B. Simulations of Permian climate and comparisons with climate-sensitive sediments. *Journal of Geology* 110, 33-55.
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- 2002 Rowley, D. B. History of Plate Creation 180 Ma to Present, *Geological Society of America Bulletin* 114, 927-933.
- 2003 Ziegler AM, Eshel G, Rees* PM, Rothfus TA, Rowley DB, Sunderlin* D. Tracing the tropics across land and sea: Permian to present, *Lethaia* 36, 227-254.
- 2003 Rowley DB, Currie* BS, Pierrehumbert RT. Reply to "Modern precipitation stable isotope vs. elevation gradients in the High Himalaya" by Hou Shugui et al., *Earth and Planetary Science Letters* 209, 401-403.
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- 2006 Buffett, B.A. and Rowley, D. B., Plate Bending and the Energetics of Mantle Convection, *Earth and Planetary Science Letters*, 245, 359-364.
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- 2008 Moucha*, R., Forte, A.M., Rowley, D.B., Mitrovica, J.X., Simmons, N.A., Grand, S.P., Mantle Convection And The Recent Evolution Of The Colorado Plateau And The Rio Grande Rift Valley, *Geology* 8v. 36; no. 6; p. 439–442; doi: 10.1130/G24577A.1.
- 2008 Moucha*, R., Forte, A.M., Mitrovica, J.X., Rowley, D.B , Quéré, S., Dynamic Topography and Long-Term Sea-Level Variations: There Is No Such Thing as a Stable Continental Platform, *Earth and Planetary Science Letters*, 271,101-108: <http://dx.doi.org/10.1016/j.epsl.2008.03.056>
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- 2009 Polissar*, P., Freeman, Rowley, D.B. K., Smith, F., and Currie, B.S. Paleoaltimetry of the Tibetan Plateau from D/H Ratios of Lipid Biomarkers, *Earth and Planetary Science Letters*, 287, 64-76.
- 2009 Moucha*, R., A. M. Forte, D. B. Rowley, J. X. Mitrovica, N. A. Simmons, and S. P. Grand, Deep mantle forces and the uplift of the Colorado Plateau, *Geophys. Res. Lett.*, 36, L19310, doi:10.1029/2009GL039778.
- 2009 Forte, A. M., Moucha*, R., Rowley, D. B., Quéré, S., Mitrovica, J. X., Simmons, N. A., Grand, S. P., Recent tectonic plate decelerations driven by mantle convection, *Geophysical Research Letters*, 36, L23301, doi:10.1029/2009GL040224.
- 2010 Forte, A. M., Quéré, S., Moucha*, R., Simmons, N.A., Grand, S.P., Mitrovica, J.X., Rowley, D.B., Joint seismic-geodynamic-mineral physical modeling of African geodynamics: A reconciliation of deep-mantle convection with surface geophysical constraints, *Earth and Planetary Science Letters*, 295, 329-341.

- 2013 Rowley, D.B., Forte, A.M., Moucha, R.R., Mitrovica, J.X., Simmons, N.A., Grand, S.P., Dynamic Topography Change of the Eastern U. S. since 4 Ma: Implications for Sea Level and Stratigraphic Architecture of Passive Margins, *Science*, 340, 1563-1563.
- 2013 Rowley, D.B. Sea-Level: Earth's Dominant Modal Elevation-Implications for Time-Scales and Amplitudes of Sea Level Variations, *Journal of Geology*, 121, 445-454.
- 2013 Staisch, L. M., Niemi, N. A., Hong, C., Clark, M. K., Rowley, D. B., and Currie, B., A Cretaceous-Eocene depositional age for the Fenghuoshan Group, Hoh Xil Basin: Implications for the tectonic evolution of the northern Tibet Plateau, *Tectonics*, 33, 281-301, doi:10.1002/2013TC003367.
- 2013 Rowan*, C.J. and Rowley, D.B., Spreading behaviour of the Pacific-Farallon ridge system since 83 Ma, *Geophysical Journal International*, 197 (3), 1273-1283.
- 2015 Austermann, J., Pollard, D., Mitrovica, J.X., Moucha, R., Forte, A.M., DeConto, R. M., Rowley, D. B. and Raymo, M.E, The impact of dynamic topography change on Antarctic Ice Sheet stability during the Mid-Pliocene Warm Period, *Geology* 43, 927-930.
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- 2016 Ingalls*, M, Rowley, DB, Currie, B, Colman, AS, [Large-scale subduction of continental crust implied by India-Asia mass-balance calculation](#), *Nature Geoscience* 9 (11), 848-853.
- 2016 Rowley, D.B., Forte, A. M., Rowan*, C. J., Grand, S.P., Simmons, N., [Kinematics and dynamics of the East Pacific Rise linked to a stable, deep-mantle upwelling](#), *Science Advance*, 2 (12), e1601107.
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- India-Asia collision, Cenozoic climate, and geochemical weathering: Geological Society of America Bulletin, doi.org/10.1130/B31723.1.
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- 2021 Peters, S., Rowley, D.B. Long-term evolution of continental surface elevation, *EarthArXiv*
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