

Bruce H. Wilkinson
04-2012

Education:

- 1974 - Ph.D. - The University of Texas
- 1967 - M.S. - The University of Wyoming
- 1965 - B.S. - The University of Wyoming

Employment:

- 2006- Research Professor, Syracuse University, Syracuse, New York.
- 1986-2005 Professor, The University of Michigan, Ann Arbor, Michigan.
- 1979-1986 Associate Professor, The University of Michigan, Ann Arbor, Michigan.
- 1981 Visiting Professor, Department of Geological Sciences, The University of Texas, Austin, Texas.
- 1980 Visiting Professor, Department of Geological Sciences, The University of Illinois, Urbana, Illinois.
- 1973-1979 Assistant Professor, Department of Geological Sciences, The University of Michigan, Ann Arbor, Michigan.
- 1971-1973 Research Assistant, Bureau of Economic Geology, The University of Texas, Austin, Texas.
- 1970 Research Assistant, Esso Production Research Company, Houston, Texas.
- 1967-1968 Petroleum Geologist, Gulf Oil Company, New Orleans, Louisiana.

Honors and Awards:

- 1998 - Best Paper Award. Wilkinson, B.H., Diedrich, N.W., and Drummond, C.N., 1996, Facies successions in peritidal carbonate sequences: *Journal of Sedimentary Research*, v. 66, P. 1065-1078. Society for Sedimentary Geology.
- 1983 - National Chairman; Society of Economic Paleontology and Mineralogy Carbonate Research Group. Society of Economic Paleontologists and Mineralogists.
- 1978 - Best Paper Award - *Journal of Sedimentary Petrology*; "Eggshell Diagenesis and Primary Radial Fabric in Calcite Ooids": with Ed Landing; Society of Economic Paleontologists and Mineralogists.
- 1978 - Faculty Recognition Award; The University of Michigan.

Peer-reviewed Papers

- 1975 - Wilkinson, B.H., McGowen, J.H. and Lewis, C.R., Ingelside strandplain sand of the central Texas coast: *American Association of Petroleum Geologists Bulletin*, v. 59, p. 347-352.
- 1975 - Wilkinson, B.H., Matagorda Island, Texas- The evolution of a Gulf coast barrier complex: *Geological Society of America Bulletin*, v. 86, p. 959-967.
- 1975 - Wilkinson, B.H., McGowen, J.H. and Lewis, C.R., Ingelside strandplain sand of the central Texas coast- reply: *American Association of Petroleum Geologists Bulletin*, v. 59, p. 2326-2327.
- 1976 - Wilkinson, B.H., Matagorda Island, Texas- the evolution of a Gulf Coast barrier complex: *Corpus Christi Geological Bulletin*
- 1977 - Wilkinson, B.H. and Bryne, J.R., Lavaca Bay- Transgressive deltaic sedimentation in a central Texas estuary: *American Association of Petroleum Geologists Bulletin*, v. 61, p. 527-545.
- 1977 - Wilkinson, B.H. and McGowen, J.H., Geologic determination of long-term recession rates- Matagorda Peninsula, Texas: *Environmental Geology*, v. 1, p. 359-365.

- 1977 - McGowen, J.H., Garner, L.E. and Wilkinson, B.H., The Gulf shoreline of Texas- Processes, characteristics, and factors in use: Bureau of Economic Geology, University of Texas at Austin, Austin, Texas, 27 pp.
- 1978 - Wilkinson, B.H. and Basse, R.A., Late Holocene history of the central Texas coast from Galveston Island to Pass Cavallo, Geological Society of America Bulletin, v. 89, p. 1592-1600.
- 1978 - Wilkinson, B.H. and Landing, E., "Eggshell Diagenesis" and primary radial fabric in calcite ooids: Journal of Sedimentary Petrology, v. 48, p. 1129-1138.
- 1978 - Jones, F.G. and Wilkinson, B.H., Structure and growth of lacustrine pisoliths from recent marl lakes in central Michigan: Journal of Sedimentary Petrology, v. 48, p. 1103-1110.
- 1979 - McGowen, J.H., Byrne, J.H. and Wilkinson, B.H., Geochemistry of bottom sediments- Matagorda Bay system, Texas: Bur. Economic Geology, Geological Circular 79-2, University of Texas, Austin, 64 pp.
- 1979 - Wilkinson, B.H., Biomineralization, paleoceanography, and the evolution of calcareous marine invertebrates: Geology, v. 7. p. 524-527.
- 1979 - Gray, D.H. and Wilkinson, B.H., The effect of changes in bluff-face lithology on lateral variations in coastal recession rate: Journal of Great Lakes Research, v. 5, p. 78-83.
- 1979 - Swirydczuk, K., Wilkinson, B.H. and Smith, G.R., The Pliocene Glenss Ferry oolite- Lake-margin carbonate deposition in the southwestern Snake River Plain: Journal of Sedimentary Petrology, v. 49, p. 995-1004.
- 1980 - Murphy, D.H. and Wilkinson, B.H., Carbonate deposition and facies distribution in a central Michigan marl lake: Sedimentology, v. 27, p. 123-135.
- 1980 - Glass, S.W. and Wilkinson, B.H., The Peterson Limestone- Early Cretaceous lacustrine carbonate deposition in western Wyoming and eastern Idaho: Sedimentary Geology, v. 27, p. 143-160.
- 1980 - Swirydczuk, K., Wilkinson, B.H. and Smith, G.R., The Pliocene Glenss Ferry oolite- II: Sedimentology of oolitic lacustrine terrace deposits: Journal of Sedimentary Petrology, v. 50, p. 1237-1247.
- 1980 - Binkley, K.L., Wilkinson, B.H. and Owen, R.M., Vadose beachrock cementation along a southeastern Michigan marl lake: Journal of Sedimentary Petrology, v. 50, p. 953-962.
- 1980 Wilkinson, B.H., Biomineralization, paleoceanography, and the evolution of calcareous marine organisms- reply: Geology, v. 8, p. 266-267.
- 1980 - Swirydczuk, K., Wilkinson, B.H. and Smith, G.R., The Pliocene Glenss Ferry oolite- Lake-margin carbonate deposition in the southwestern Snake River Plain- reply: Journal of Sedimentary Petrology, v. 50, p. 999-1001.
- 1980 - Wilkinson, B.H., Popp, B.N. and Owen, R.M., Nearshore ooid formation in a modern temperate regional marl lake: Journal of Geology, v. 88, p. 697-703.
- 1981 - Brown, R.E. and Wilkinson, B.H., The Draney Limestone- Early Cretaceous lacustrine carbonate deposition in western Wyoming and southeastern Idaho: Contributions to Geology, v. 20, p. 23-31.
- 1981 - Treese, T.N., Owen, R.M. and Wilkinson, B.H., Sr/Ca and Mg/Ca ratios in polygenetic carbonate allochems from a Michigan marl lake: Geochimica Cosmochimica Acta, v. 45, p. 439-445.
- 1981 - Swirydczuk, K., Wilkinson, B.H. and Smith, G.R., Synsedimentary phosphorites from the Pliocene Glenss Ferry Formation in southwestern Idaho: Journal of Sedimentary Petrology, v. 51, p. 1205-1214.
- 1982 - Blake, D.F., Peacor, D.R. and Wilkinson, B.H., The sequence and mechanism of low-temperature dolomite formation- calcian dolomites from a Pennsylvanian echinoderm: Journal of Sedimentary Petrology, v. 52, p. 59-70.
- 1982 - McCabe, C., Van der Voo, R. and Wilkinson, B.H., Paleomagnetic and rock magnetic results from the Twin Creek Formation (Middle Jurassic), Wyoming Earth and Planetary Science Letters. v. 60, p. 140-146.

- 1982 - Treese, K.L. and Wilkinson, B.H., Peat-marl deposition in a Holocene paludal-lacustrine basin- Sucker Lake, Michigan, *Sedimentology*, v. 29, p. 375-390.
- 1982 - Wilkinson, B.H., Cyclic cratonic carbonates and Phanerozoic calcite seas: *Journal of Geologic Education*, v. 30, p. 189-203.
- 1982 - Wilkinson, B.H., Janecke, S.U. and Brett, C.E., Low-magnesian calcite marine cement in middle Ordovician hardgrounds from Kirkfield, Ontario: *Journal of Sedimentary Petrology*, v. 52, p. 47-52.
- 1983 - Medwedeff, D.A. and Wilkinson, B.H., Cortical fabric in calcite and aragonite ooids; in: *Coated Grains*, T.M. Peryt, ed., Springer-Verlag, p. 109-115.
- 1983 - Owen, R.M. and Wilkinson, B.H., Mineralogical and biological controls on the Fe/Ca and Mn/Ca ratios of lacustrine carbonate allochems: *Chemical Geology*, v. 38, p. 175-181.
- 1983 - Davis, R.L. and Wilkinson, B.H., Sedimentology and petrology of freshwater lacustrine carbonate- mid-Tertiary Camp Davis Formation, northwestern Wyoming: *Contributions to Geology*, v. 22, p. 45-55.
- 1983 - Popp, B.N. and Wilkinson, B.H., Holocene lacustrine ooids from Pyramid Lake, Nevada; in: *Coated Grains*, T.M. Peryt, ed., Springer-Verlag, p. 142-153.
- 1984 - Wilkinson, B.H., Buczynski, C. and Owen, R.M., Chemical control of carbonate phases- implications from upper Pennsylvanian calcite-aragonite ooids of southeastern Kansas: *Journal of Sedimentary Petrology*, v. 54, p. 932-947.
- 1984 - Smith, G.R., Swirydczuk, K., Kimmel, P.G. and Wilkinson, B.H., Fish biostratigraphy of late Miocene to Pliocene sediments of the western Snake River Plain; in: *Cenozoic Geology of Idaho*, B. Bonnicksen and R.M. Breckenridge, eds., Idaho Bureau Mines and Geology, Bulletin 26, Moscow, Idaho.
- 1984 - Sperber, C.M., Wilkinson, B.H. and Peacor, D.R., Rock composition, dolomite stoichiometry, and rock/water reactions in dolomitic carbonate rocks: *Journal of Geology*, v. 92, p. 609-622.
- 1984 - Wilkinson, B.H., Budai, J.M. and Given, R.K., Comment on "Episodic accumulation and the origin of formation boundaries in the Helderberg Group of New York State": *Geology*, v. 12, p. 572-573.
- 1985 - Wilkinson, B.H., Owen, R.M. and Carroll, A.R., Submarine weathering, global eustasy, and carbonate polymorphism in Phanerozoic marine oolites: reply to a discussion by T.M. Peryt, *Journal of Sedimentary Petrology*, v. 55, p. 927.
- 1985 - Given, R.K. and Wilkinson, B.H., Kinetic control of morphology, composition, and mineralogy of abiotic sedimentary carbonates: reply to a discussion by J.W. Morse, *Journal of Sedimentary Petrology*, v. 55, p. 921-926.
- 1985 - Given, R.K. and Wilkinson, B.H., Kinetic control of morphology, composition, and mineralogy of abiotic sedimentary carbonates: in press, *Journal of Sedimentary Petrology*, v. 55, p. 109-119.
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- 1985 - Wilkinson, B.H., Smith, A.L. and Lohmann, K.C., Sparry calcite marine cement in upper Jurassic limestones of southeastern Wyoming: *Society of Economic Paleontology and Mineralogy Special Publication, Carbonate Cements*, p. 169-184.
- 1985 - Chafetz, H.S., Wilkinson, B.H. and Love, K.M., Morphology and composition of nonmarine carbonate cements in near-surface settings: *Society of Economic Paleontology and Mineralogy Special Publication Carbonate Cements*, p. 337-347.
- 1986 - Martin, G.D., Wilkinson, B.H. and Lohmann, K.C., The role of skeletal porosity in aragonite neomorphism: *Strombus* and *Montastrea* from the Key Largo Limestone, Florida: *Journal of Sedimentary Petrology*, v. 56, p. 194-203.

- 1986 - Wilkinson, B.H. and Given, R.K., Secular variation in the composition of abiotic marine carbonates: constraints on atmospheric carbon dioxide contents and oceanic Mg/Ca ratios during the Phanerozoic: *Journal of Geology*, v. 94, p. 321-333.
- 1986 - Devaney, K.A., Wilkinson, B.H. and Van der Voo, R., Deposition and compaction in carbonate clinothems: the Silurian Pipe Creek Junior bioherm of central Indiana: *Geological Society of America Bulletin*, v. 97, p. 1367-1381.
- 1986 - Dustin, N.M., Wilkinson, B.H. and Owen, R.M., Littlefield Lake, Michigan- a carbonate budget of Holocene sedimentation in a temperate region marl lake: *Limnology and Oceanography*, v. 31, p. 1301-1311.
- 1986 - Dustin, N.M., Owen, R.M. and Wilkinson, B.H., Water chemistry and sedimentological observations in Littlefield Lake, Michigan- implications for lacustrine marl deposition: *Environmental Geology*, v. 4, p. 229-236.
- 1987 - Wilkinson, B.H., Owen, R.M. and Carroll, A.R., Submarine weathering, global eustasy, and carbonate polymorphism in Phanerozoic marine oolites: reply to a discussion by L. Eliuk, *Journal of Sedimentary Petrology*, v. 57, p. 186-188.
- 1987 - Given, R.K. and Wilkinson, B.H., Dolomite abundance and stratigraphic age-constraints on rates and mechanisms of dolomite formation: *Journal of Sedimentary Petrology*, v. 57, p. 1068-1078.
- 1988 - Algeo, T.J. and Wilkinson, B.H., Periodicity of Phanerozoic Sedimentary Cycles and the Role of Milankovitch Orbital Modulation: *Journal of Geology*, v. 88, p. 313-322.
- 1988 - Weiss, C.P. and Wilkinson, B.H., Holocene cementation along the central Texas coast: *Journal of Sedimentary Petrology*, v. 58, p. 468-478.
- 1988 - Zempolich, W.G., Wilkinson, B.H. and Lohmann, Kyger C, Diagenesis of Proterozoic Carbonates: The Beck Spring Dolomite of Eastern California: *Journal of Sedimentary Petrology*, v. 58, p. 656-672.
- 1989 - Given, R.K. and Wilkinson, B.H., Dolomite abundance and stratigraphic age-constraints on rates and mechanisms of dolomite formation: reply to a discussion by D. Zenger, *Journal of Sedimentary Petrology*, v. 59, p. 165.
- 1989 - Opdyke, B.N. and Wilkinson, B.H., Surface area control of shallow cratonic to deep marine carbonate accumulation: *Paleoceanography*, v. 3, p. 685-703.
- 1989 - Wilkinson, B.H. and Walker, J.C.G., Phanerozoic cycling of sedimentary carbonate: *American Journal of Science*, v. 289, p. 525-548.
- 1989 - Wilkinson, B.H. and Algeo, T.J., Sedimentary carbonate record of Ca-Mg cycling at the Earth's surface: *American Journal of Science*, v. 289, p. 1158-1194.
- 1990 - Finkel, L.A. and Wilkinson, B.H., Stylolitization and cementation in the Mississippian Salem Limestone, westcentral Indiana: *American Association of Petroleum Geologists Bulletin*, v. 74, p. 174-186.
- 1990 - Opdyke, B.N. and Wilkinson, B.H., Paleolatitude distribution of Phanerozoic marine ooids and cements: *Palaeography, Palaeoclimatology, Palaeoecology*, v. 78, p. 1-14.
- 1990 - Straccia, F.G., Wilkinson, B.H., and Smith, G.R., Nearshore development of Miocene lacustrine algal reefs- southwestern Snake River Plain, Idaho: *Sedimentary Geology*, v. 67, p. 1-17.
- 1990 - Albertzart, L.S. and Wilkinson, B.H., Backbarrier shell assemblages from the central Texas Gulf coast: *Palios*, v. 5, p. 346-355.
- 1991 - Boss, S.K. and Wilkinson, B.H., Planktogenic/eustatic control of cratonic/oceanic carbonate accumulation: *Journal of Geology*, v. 99, p. 497-513.
- 1991 - Algeo, T.J. and Wilkinson, B.H., Modern and ancient continental hypsometries: *Journal of the Geological Society of London*, p. 643-653, v. 148, p. 643-653.
- 1991 - Wilkinson, B.H., Opdyke, B.N., and Algeo, T.J., Time partitioning in cratonic carbonates: *Geology*, v. 19, p. 1093-1096.
- 1992 - Algeo, T.J., Wilkinson, B.H., and Lohmann, K.C, Meteoric-burial diagenesis of middle Pennsylvanian limestones in the Orogrande basin, New Mexico- water-

- rock interactions and basin geothermics: *Journal of Sedimentary Petrology*, v. 62, p. 652-670.
- 1993 - Opdyke, B.N., and Wilkinson, B.H., Oceanic carbonate saturation and cratonic carbonate accumulation: *American Journal of Science*, v. 293, p. 217-234.
- 1993 - Drummond, C.N., Wilkinson, B.H., Lohmann, K.C, and Smith, G.R., Effect of regional topography and hydrology on the lacustrine isotopic record of late Miocene paleoclimate in the southern Rocky Mountains: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 101, p. 67-79.
- 1993 - Drummond, C.N., and Wilkinson, B.H., Carbonate cycle stacking patterns and hierarchies of orbitally-forced eustatic sealevel change: *Journal of Sedimentary Petrology*, v. 63, p. 369-377.
- 1993 - Drummond, C.N. and Wilkinson, B.H., On the use of thickness/subsidence diagrams as records of long-term sealevel change during accumulation of cyclic carbonate sequences: *Jour of Geology*, v. 101, p. 687-702.
- 1993 - Frank, T., Wilkinson, B.H., and Lohmann, K.C, Origin of submarine pisoliths and sedimentology of midwestern Silurian reefs: *Journal of Sedimentary Petrology*, v. 63, p. 1070-1077.
- 1993 - Drummond, C.N., Wilkinson, B.H., and Lohmann, K.C, Empirical determination of calcite-dolomite isotopic fractionations at sedimentary temperatures: *Carbonates and Evaporites*, v.. 8, p. 214-223
- 1993 - Drummond, C.N. and Wilkinson, B.H., Aperiodic accumulation of cyclic peritidal carbonate: *Geology*, v. 21, p. 1023-1026.
- 1994 - Berry, J.P., and Wilkinson, B.H., Paleoclimatic control on the accumulation of North American cratonic sediment: *Geological Society of America Bulletin*, v. 106, p. 855-865.
- 1994 - Drummond, C.N. and Wilkinson, B.H., Aperiodic accumulation of cyclic peritidal carbonate; Reply to a discussion by D. Osleger: *Geology*, v. 22, p. 480.
- 1995 - Wilkinson, Bruce H, Frank, Tracy D., and Klein, Robert T., Comment on: Generic types of stratigraphic cycles controlled by eustasy: *Geology*, v. 23, p. 572-573.
- 1996 - Drummond, C.N., Wilkinson, B.H., and Lohmann, K.C, Climatic control of fluvial-lacustrine cyclicity in the cordilleran foreland basin: *Sedimentary Geology*, v. 43, p. 677-690.
- 1996 - Wilkinson, B.H., Diedrich, N.W., and Drummond, C.N., Facies successions in peritidal carbonate sequences: *Journal of Sedimentary Research*, v. 66, P. 1065-1078.
- 1997 - Wilkinson, B.H., Drummond, C.N., Diedrich, N.W., and Rothman, E.D., Biological mediation of stochastic peritidal carbonate accumulation: *Geology*, v. 25, p. 847-850.
- 1997 - Wilkinson, B.H., Drummond, C.N., Rothman, E.D., and Diedrich, Stratal order peritidal carbonate sequences: *Journal of Sedimentary Research*, V. 67, P. 1068-1078.
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- 1998 - Wilkinson, B.H., Diedrich, N.W., Drummond, C.N., and Rothman, E.D., Michigan hockey, meteoric precipitation, and carbonate accumulation on peritidal carbonate platforms: *Bulletin of the Geological Society of America*, v. 110, p. 1075-1093.
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- 2002 - Wilkinson, B.H., and Ivany, L.C., Paleoclimatic inference from stable isotopic compositions of accretionary biogenic hardparts – a quantitative approach to the evaluation of incomplete data: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 185, p. 95-114.
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- 2005 - Dutton, Andrea L. and Wilkinson, Bruce H., Spatial distribution and seasonal variation in $18\text{O}/16\text{O}$ of modern precipitation and river water across the conterminous USA: *Hydrological Processes*, v. 19, p. 4121-4146.
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