

DR. NEIL JOHN TABOR

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Employment:	Department of Earth Sciences Southern Methodist University <i>Professor</i>	Aug. 2014 to present
	Department of Earth Sciences Southern Methodist University <i>Associate Professor</i>	Aug. 2009 to July 2014
	Department of Geological Sciences Southern Methodist University <i>Assistant Professor</i>	Aug. 2004 to July 2009
	Department of Geosciences Southern Methodist University <i>Post-Doctoral Researcher</i>	Aug. 2002 to July 2004
	Department of Geology University of California, Davis <i>Research and Teaching Assistant</i>	Sept. 1997 to Aug. 2002
	Bureau of Economic Geology University of Texas, Austin <i>Research Assistant</i> (<i>adviser on sabbatical at UT Austin</i>)	Jan. 1997 to Sept. 1997
	Department of Earth Sciences University of California, Riverside <i>Teaching Assistant</i> (<i>adviser at UC Riverside</i>)	Sept. 1996 to Dec. 1996
	United States Department of Agriculture Soil Conservation Service <i>Soil Petrographer</i>	May 1996 to Sept. 1996
Education:	B.S. Geology (May 1996) University of Nebraska, Lincoln, NE M.S. Geology (June 1999) University of California, Davis, CA <i>Thesis:</i> Permo-Pennsylvanian alluvial paleosols (north-central Texas): High-resolution proxy records of the evolution of early Pangean paleoclimate: Adviser: Isabel P. Montañez	
	Ph.D. Geology (June, 2002) University of California, Davis, CA <i>Dissertation:</i> Paleoclimate isotopic proxies derived from Paleozoic, Mesozoic, and Cenozoic paleosols, and modern soils; Adviser: Isabel P. Montañez	

HONORS AND AWARDS

- Gerald J. Ford Research Fellowship Recipient 2011
- Downey Family Award for Faculty Excellence 2007
- Downey Family Award for Faculty Excellence 2004
- National Science Foundation – Graduate Student Fellowship
Integrative Graduate Education and Research Traineeship Program (IGERT) 1999-2001
- Grants in Aid - Geological Society of America (\$2000) 1999, 2001
- Grants in Aid – Paul Wiemer Award, SEPM (\$1500) 1999
- Grants in Aid – University of California Durrell Fund (\$4500) 1998 through 2001
- Grants in Aid – University of California Humanities (\$1000) 1999, 2000
- Grants in Aid – American Association of Petroleum Geologists (\$2000) 1999
- Grants in Aid – Sigma Xi (\$750) 1999

CURRENT AND PAST FUNDING

- Research Grant NSF-PLR 1341376 – Collaborative Research: Understanding the evolution of high-latitude Permo-Triassic paleoenvironments their vertebrate communities – August 30, 2016 – August 29, 2019; Total for PI Tabor (\$285,000).
- Research Grant NSF-EAR 1337569 – ELT Collaborative Research: Restructuring of terrestrial environments following the Permian-Triassic mass extinction – September 1, 2013 – August 31, 2017; Total \$1,000,000 (\$262,000 to SMU).
- Research Grant NSF-EAR1053549 – Collaborative Research: A multi-proxy approach to Early Miocene community, landscape, and climate; 2010-2013; (Senior Personnel - \$6,000 to Tabor).
- Research Grant NSF-EAR0921009 – Collaborative Research: Blue Highways: Evaluating Middle Stone Age Riverine-Based Foraging, Mobility, and Technology along the Trunk Tributaries of the Blue Nile – July 1, 2009 – June 30, 2013 (\$329,999)
- Research Grant NSF-EAR 084417– Collaborative Research: Terrestrial Paleoenvironmental Record Through the Permian-Triassic Transition of Texas and New Mexico – August 1, 2009 – July 31, 2013; \$96,000
- Research Grant NSF-EAR0617306 – “A Geosystems approach to paleobotany, isotope geochemistry, and paleoecology of the Late Oligocene Chilga Deposits, Northwestern Ethiopian Plateau” - 2006-2010; \$330,621 + \$15,000 supplemental grant
- Research Grant NSF-EAR0617250 – “Collaborative Research: Testing climate-controlled endemism in equatorial Pangea” – 2006-2011; \$70,009
- Research Grant NSF-EAR0545654 – “Collaborative Research: Understanding climate change during the final stages of Late Paleozoic Gondwanan Glaciation – An integrated Data-Model Study” – 2006-2011; \$151,350
- Research Grant NSF-EAR0447381 – “Multiple proxy approach to Terrestrial Paleoclimate – The Late Triassic Ischigualasto Basin, NW Argentina” – 2005-2008; \$84,996
- Gerald J. Ford Research Fellowship (\$15000) 2011
- University Council For Research (\$5000) 2009
- University Council For Research Travel Grant (\$3500) 2008
- University Council For Research (\$8000) 2007
- Downey Family Award for Faculty Excellence (\$5000) 2007
- University Council For Research (\$5000) 2005

- Presidential Partner's Grant Award (\$1200) 2005
- Downey Family Award for Faculty Excellence (\$5000) 2004

SERVICE

- Undergraduate Adviser – B.S./B.A. Geology 2016-present
- Undergraduate Adviser – B.S. Geophysics 2016-present
- Undergraduate Adviser – B.S. Environmental Sciences 2016-present
- Undergraduate Adviser – B.A. Environmental Studies 2016-present
- Soil Interdisciplinary Working Group (GSA IIG) Chairman 2016-present
- STEPPE (Geological Society of America/NSF) board of directors 2015-present
- Faculty Senate 2014-2016
- Dedman College Division III Graduate Council 2012-2015
- SEPM Technical Program Coordinator to Geological Society of America 2012-2013
- Panelist, NSF EAR Critical Zone Observatories April 2013
- Guest Lecturer, Western Interior Paleontological Society February 2013
- Panelist, SMU Interdisciplinary Institute March 2013
- Graduate Task Force Spring, 2011
- Panelist, NSF EAR Sedimentology and Paleontology April 2011
- Panelist, NASA MSLPSP Inorganic Geochemistry October 2011
- Associate Editor – Journal of Sedimentary Research 2009 – present
- Associate Editor – Geological Society of America Bulletin 2011 – 2015
- Geological Society of America Topical Session Co-Chair 2002, 2006, 2008, 2009, 2011, 2013, 2015
- Guest Lectures (since tenure-track at SMU)
 - Texas Tech University – Lubbock, TX February, 2015
 - Midwestern State University – Wichita Falls, TX February, 2015
 - University of Nebraska – Lincoln April, 2014
 - University of Wisconsin – Milwaukee September, 2014
 - Virginia Tech University October, 2014

Western Interior Paleontological Society – Golden, CO	March, 2013
University of Texas Austin, TX	February, 2013
University of Texas Dallas, TX	February, 2013
University of Hawaii – Manoa, HI	August, 2011
University of Texas Arlington, TX	February, 2011
Missouri Institute of Science and Technology, Rolla, MO	November, 2010
Texas A&M University – College Station, TX	April, 2010
Baylor University – Waco, TX	March, 2010
University of Hawaii – Manoa, HI	March, 2009
University of Oklahoma – Norman, OK	January 2008
University of Arizona – Tucson, AZ	November 2007
Wichita State University – Wichita, KS	October 2007
New Mexico State University – Las Cruces, NM	May 2007
University of Michigan – Ann Arbor, MI	January 2007
University of New Mexico – Albuquerque, NM	January 2007
University of Texas – Arlington, TX	November 2006
University of California – Davis, CA	January 2006
Colby College – Waterville, ME	October 2005
University of California – Davis, CA	October 2004
University of Texas – Dallas, TX	September 2004
Baylor University – Waco, TX	September 2004

Scientific reviews:

National Science Foundation (many, many reviews)
American Chemical Society – Petroleum Research Fund
Danish National Science Foundation
Proceedings of the National Academy of Sciences
Sedimentology
Journal of Sedimentary Research (many, many reviews)

Palaeogeography, Palaeoclimatology, Palaeoecology (many, many reviews)

Earth and Planetary Science Letters

Geochimica et Cosmochimica Acta

Geological Society of America Bulletin (many, many reviews)

Geological Society of America Special Publications

Geology

Geosphere

American Journal of Science

Archaeology

Nature

Journal of Geology

Journal of Quaternary Research

Rapid Communications in Mass Spectrometry

Academic Advising or co-Advising

Graduate

- (1) Lauren Michel, 8/2006-12/2009, M.S. – Permo-Carboniferous paleosols of the Lodeve basin, France
- (2) Stephanie Germaine Thomas, 8/2005 – 3/2010, Ph.D. – Permo-Triassic paleoclimate of the Turpan-Hami basin, Xinjiang province, NW China.
- (3) Juan Leandro Garcia Massini, 8/2004 – 6/2009, Ph.D. – Plant Taxonomy and taphonomy of Oligocene volcanic ash layers from Chilga Woreda, NW Ethiopia (co-adviser)
- (4) Scott Myers, 8/2004 – 12/2009, Ph.D. – Kimmeridgian paleoclimate and paleosols of the Lusitanian basin, Portugal (co-adviser)
- (5) Mary Milleson, 1/2008 – present, Ph.D. – Geochemistry of Permo-Carboniferous terrestrial, marine and lacustrine strata of from paleo-tropical and high-latitude Gondwanan sites.
- (6) Nicholas Rosenau, 8/2008 – 12/2013, Ph.D. – Geochemistry of cyclothem strata from the U.S. Midcontinent.
- (7) Lu Zhu, 8/2011-12/2014, M.S. – Early Permian paleosol morphologies and paleoatmospheric PCO₂ estimates, north-central Texas, U.S.A.
- (8) Julia McIntosh, 8/2016 – present, Ph.D. – Elemental and isotopic compositions of terrestrial strata I cyclothem strata of the Upper Carboniferous Illinois basin.

(9) John Fortner, 8/2016 – present, M.S. – Light stable isotopic composition of Lower-Middle Triassic vertebrate tooth enamel and paleosol minerals as a first order assessment of ecosystem rebound from the Permian-Triassic extinction.

(10) Claire Colwell (Howell), 8/2016 – 2/2017, M.S. – Light stable isotope geochemistry from paleosol minerals in the Permian-Triassic strata around the Bethulie section, Main Karoo basin, South Africa.

Undergraduate

(1) Laura Rowe, 6/2007 – 5/2009 – Clay mineralogy of Mid-Carboniferous strata from Bolivia.

(2) Mary Milleson, 12/2005 – 12/2007 – Clay mineralogy of the lacustrine strata from the Permo-Carboniferous Lukuga Formation, Congo basin.

(3) Candice Adkins 9/2006 – 8/2007 – Carbon isotope composition of calcite and organic matter from the 1913 – 1995 A.D. White Rock Lake core in Dallas, Texas.

(4) Jennifer Gamrod, 5/2005-12/2005 – Mineralogy and stable isotope geochemistry of carbonate nodules from the Abo formation, Robledo and Dona Ana Mountains, southern New Mexico.

(5) Tina Huyn – 6/2013 – 5/2014 – Ancient gastropods of the Alkali basin, Colorado.

PUBLICATIONS

(1) Ekart, D.D., Cerling, T.E., Montañez, I.P., and Tabor, N.J., 1999, A 400 million year carbon isotope record of pedogenic carbonate: Implications for paleoatmospheric carbon dioxide: **American Journal of Science**, v. 299, p. 805-827.

(2) Nelson, W.J., Hook, R.W., Tabor, N., 2001, Clear Fork Group (Leonardian, Lower Permian) of North-Central Texas: **Oklahoma Geological Survey Circular**, v. 104, p. 167-169.

(3) Tabor, N.J., Montañez, I.P., and Southard, R. J., 2002, Mineralogical and stable isotopic analysis of pedogenic proxies in Permo-Pennsylvanian paleosols: Implications for paleoclimate and paleoatmospheric circulation: **Geochimica et Cosmochimica Acta**, v. 66, p. 3093-3107.

(4) Tabor, N.J., Montañez, I.P., 2002, Shifts in Late Paleozoic Atmospheric Circulation over Western Equatorial Pangea: Insights from Pedogenic Mineral $\delta^{18}\text{O}$ Compositions: **Geology** v. 30, p. 1127-1130.

(5) Royer, D. L., Berner, R.A., Montañez, I.P., Tabor, N.J., and Beerling, D.J., 2003, CO₂ as a Primary Driver of Phanerozoic Climate, **Geological Society of America Today**, v. 14, no. 3.

(6) Royer, D.L., Berner, R.A., Montanez, I.P., Beerling, D.J., Tabor, N.J., 2003, CO₂ as a primary driver of Phanerozoic climate: Reply, **Geological Society of America Today**, v. 14, no. 7.

(7) Tabor, N.J., Yapp, C.J., and Montañez, I.P., 2004, Goethite, Calcite, and Organic Matter from Permian and Triassic Soils: Carbon Isotopes and CO₂ Concentrations: **Geochimica et Cosmochimica Acta** v. 68, p. 1503-1517.

(8) Tabor, N.J., Montañez, I.P., Zierenberg, R.B., and Currie, B.S., 2004, Mineralogical, chemical, and stable isotope analyses of a pedogenically altered basalt: Implications for climate in the Late Triassic Ischigualasto Basin, northwestern Argentina, **Geological Society of America Bulletin**, v. 116, p. 1280-1293.

- (9) Tabor, N.J., and Montañez, I.P., 2004, Permo-Pennsylvanian alluvial paleosols (north-central Texas): High-resolution proxy records of the evolution of early Pangean paleoclimate, **Sedimentology**, v. 51, p. 851-884.
- (10) Tabor, N.J. and Yapp, C.J., 2005, Incremental vacuum dehydration-decarbonation experiments on a natural gibbsite (α -Al(OH)₃): CO₂ abundance and $\delta^{13}\text{C}$ values, **Geochimica et Cosmochimica Acta**, v. 69, p. 519-527.
- (11) Currie, B.S., Rowley, D. and Tabor, N.J., 2005, Mid-Miocene paleoaltimetry of southern Tibet: Implications for the role of mantle thickening and delamination in the Himalayan orogen, **Geology**, v. 117, No. 3 (March).
- (12) Tabor, N.J., and Montañez, I.P., 2005, Oxygen and hydrogen isotope compositions of pedogenic phyllosilicates: Development of modern surface domain arrays and implications for paleotemperature reconstructions, **Palaeogeography, Palaeoclimatology, Palaeoecology**, v. 223, p. 127-146.
- (13) Jacobs, B.F., Tabor, N., Feseha, M., Pan, A., Kappelman, J., Rasmussen, T., Sanders, W., Wiemann, M., Crabaugh, J., and Garcia Massini, J.L., 2005, Oligocene Terrestrial Strata of Northwestern Ethiopia: A Preliminary Report on Paleoenvironments and Paleontology. **Paleontologica Electronica**. Palaeonhttp://palaeo-electronica.org/paleo/2005_1/jacobs25/issue1_05.htm.
- (14) Tabor, N.J., and Yapp, C.J., 2005, Juxtaposed Permian and Pleistocene isotopic archives: Surficial environments recorded in calcite and goethite from the Wichita Mountains, Oklahoma. In Mora, G. and Surge, D., eds. Isotopic and Elemental Tracers of Cenozoic Climate Change. **Geological Society of America Special Publication No. 395**, p 55-70.
- (15) DiMichele, W.A., Tabor, N.J., Chaney, D.S., 2005, Outcrop-scale Environmental Heterogeneity and Vegetational complexity in the Permo-Carboniferous Markley Formation of North Central Texas; In Lucas, S.G., and Ziegler, K.E. (ed.), **The Nonmarine Permian**, New Mexico Museum of Natural History and Science Bulletin No. 30, p. 60-66.
- (16) Tabor, N.J. and Yapp, C.J., 2005, Coexisting goethite and gibbsite from a high-paleolatitude (55°N) Late Paleocene laterite: Concentration and $^{13}\text{C}/^{12}\text{C}$ ratios of occluded CO₂ and associated organic matter. **Geochimica et Cosmochimica Acta**, v. 69, p. 5495-5510.
- (17) DiMichele, W.A., Tabor, N.J., Chaney, D.S. and Nelson, W.J., 2006. From wetlands to wet spots: environmental tracking and the fate of Carboniferous elements in Early Permian tropical floras. In: Greb, S.F., DiMichele, W.A. (eds.), Wetlands through time. **Geological Society of America Special Paper 399**: 223-248.
- (18) Garcia-Massini, J.L., Jacobs, B.F., Pan, A., Tabor, N.J., Kappelman, J., 2006, The occurrence of the fern *Acrostichum* in successional volcanic and fluvio-lacustrine strata in the Oligocene of the northwestern Ethiopian Plateau, **International Journal of Plant Sciences**, v. 167, p. 909-918.
- (19) Tabor, N.J., Montanez, I.P., Kelso, K.A., Currie, B.S., Shippman, T.A., 2006, A Late Triassic Soil Catena: Landscape Controls on Paleosol Morphology Across the Carnian-Age Ischigualasto-Villa Union Basin, Northwestern Argentina, in Alonso-Zarza, A.M. and Tanner, L.H., eds., Paleoenvironmental record and Applications of Calcretes and Palustrine Carbonates: **Geological Society of America Special Paper 416**, p. 17-41.
- (20) Tabor, N.J., Montanez, I.P., Steiner, M., and Schwindt, D., 2007, The $\delta^{13}\text{C}$ values of Permo-Triassic carbonates from South Africa reflect a stinking, sulfurous swamp, not atmospheric conditions: **Palaeogeography, Palaeoclimatology, Palaeoecology** v. 252, p. 370-381.

- (21) Tabor, N.J., 2007, Permo-Pennsylvanian Palaeotemperatures from Fe-Oxide and phyllosilicate $\delta^{18}\text{O}$ values, **Earth and Planetary Science Letters**, v. 253, p. 159-171.
- (22) Montañez, I.P., Tabor, N.J., Niemeier, D., DiMichele, W.A., Frank, T.D., Fielding, C.R. and Isbell, J.L., 2007, CO₂-Forced Climate and Vegetation Instability during Late Paleozoic Deglaciation, **Science**, v. 315, p. 87-91.
- (23) Currie, B.S., Colombi, C.E., Tabor, N.J., Shipman, T.C., and Montañez, I.P., 2009, Stratigraphy and architecture of the Upper Triassic Ischigualasto Formation, Ischigualasto Provincial Park, San Juan, Argentina. *Journal of South American Earth Sciences*, v. 27, p. 74-87.
- (24) Currie, B.S., Tabor, N.J., Montanez, I.P. and Shippman, T., in revision, Tectonics, climate and landscape: Controls on fluvio-alluvial architecture within the Late Triassic Ischigualasto Formation, Ischigualasto Basin, NW Argentina, submitted to **Geological Society of America Bulletin**.
- (25) Tabor, N.J., and Poulsen, C.J., 2008, Late Paleozoic Tropical Climate and Atmospheric Circulation: A review of paleoclimate indicators and models, **Palaeogeography, Palaeoclimatology, Palaeoecology**, v. 268, p. 181-192 (doi: 10.1016/j.palaeo.2008.03.052).
- (26) Rasmussen, C.R., and Tabor, N.J., 2007, Application of a quantitative pedogenic energy model to predict soil development across a range of environmental gradients. **Soil Science Society of America Journal**, v. 71, p. 1719-1729.
- (27) Tabor, N.J., Montañez, I.P., and Scotese, C.R., Mack, G.H., and Poulsen, C.J., 2008, Paleosol Archives of Environmental and Climatic History in paleotropical Western Euramerica during the latest Pennsylvanian through Early Permian, In: Resolving the Late Paleozoic Ice Age in Time and Space, **Geological Society of America Special Paper** 441, p. 291-304.
- (28) DiMichele, W.A., Kerp, H.A., Tabor, N.J., Looy, C.I., 2008, revisiting the so-called “Paleophytic-Mesophytic” transition in equatorial Pangea: vegetational integrity and climatic tracking. **Palaeogeography, Palaeoclimatology, Palaeoecology**, doi: 10.1016/j.palaeo.2008.06.006.
- (29) Mack, G.H., and Tabor, N.J., 2008, Paleoclimatic implications of stable oxygen and carbon isotopes of lacustrine and pedogenic calcite from the Gila Conglomerate (Plio-Pleistocene), Mangas basin, west-Central New Mexico, **New Mexico Geological Society, Guidebook** 59, p. 159-166.
- (30) Gulbranson, E., Limarino, C.O., Marensi, S., Montanez, I., Tabor, N., Davydov, V., and Colombi, C., 2008, Glacial deposits in the Rio del Penon Formation (Late Carboniferous), Rio Blanco Basin, Northwestern Argentina, *Latin American Journal of Sedimentology and Basin Analysis* v. 15, p. 129-142.
- (31) DiMichele, W.D., Montañez, I.P., Poulsen, C.J., and Tabor, N.J., 2009, Feedbacks and Regime shifts in the Late Palaeozoic Ice-Age Earth, **Geobiology** 7, 200-226.
- (32) Sheldon, N.D., and Tabor, N.J., 2009, Quantitative Paleoenvironmental and Paleoclimatic Reconstruction using paleosols, **Earth Science Reviews** 95, 1-52.
- (33) Smith, R.M.H., Sidor, C.A., Tabor, N.J., Steyer, J.S., Chaney, D.S., 2009, Vertebrate taphonomy and ichnology of a Permian ‘wet desert’ in central Pangea, *Palaeontologia Africana* 44, 179-183.
- (34) Garcia-Massini, J.L., Jacobs, B.F., Tabor, N.J., 2010, Paleoenvironmental reconstruction of Late Oligocene terrestrial volcanicalstic deposits from the northwestern Ethiopian Plateau, **Paleontologia Electronica** 13.1.6A, 51 p.

- (35) Mack, G.H., Tabor, N.J., Zollinger, H.J., 2010, Palaeosols and sequence stratigraphy of the Lower Permian Abo Member, south-central New Mexico, USA. **Sedimentology** 57, 1566- DOI: 10.1111/j.1365-3091.2010.01156.x
- (36) Yang, W., Feng, Qi., Liu, Y.Q., Tabor, N., Lin, J.Y., Thomas, S., Miggins, D., 2010, Depositional environments and cyclo- and chronostratigraphy of uppermost Carboniferous-Lower Triassic fluvial-lacustrine deposits: **Global Planetary Change** v. 73, p. 15-113, doi:10.1016/j.gloplacha.2010.03.008
- (37) Thomas, S.G., Tabor, N.J., Yang, W., 2011, Morphology, mineralogy and elemental chemistry of paleosols across the Permo-Triassic boundary in strata from the Turpan basin, Bodga Shan, NW China: revised and accepted by **Palaeogeography, Palaeoclimatology, Palaeoecology** 308, 41-64, [10.1016/j.palaeo.2010.10.037](https://doi.org/10.1016/j.palaeo.2010.10.037).
- (38) Tabor, N.J., Smith, R.M.H., Steyer, S. Sidor, C.A., Poulsen, C.J., 2011, The Permian Moradi Formation of northern Niger: Paleosol morphology, petrography and mineralogy, **Palaeogeography, Palaeoclimatology, Palaeoecology**, 299, 200-213, [doi:10.1016/j.palaeo.2010.11.002](https://doi.org/10.1016/j.palaeo.2010.11.002).
- (39) Myers, T.S., Tabor, N.J., Jacobs, L., 2011, Late Jurassic Paleoclimate of Central Africa, **Palaeogeography, Palaeoclimatology, Palaeoecology**, 311, 111-125.
- (40) Currano, E.D., Jacobs, B.F., Pan, A. D., Tabor, N.J., 2011, Inferring ecological disturbance in the fossil record: A case study from the late Oligocene of Ethiopia, **Palaeogeography, Palaeoclimatology, Palaeoecology**, 309, 242-252.
- (41) Gulbranson, E.L., Montanez, I.P., Tabor, N.J., 2011, A relative humidity and floral province proxy for paleosols, **Journal of Geology**, 119, 559-573, DOI: 10.1086/661975.
- (42) Gulbranson, E.L., Tabor, N.J., Montanez, I.P., 2011, Response of soil CO₂ to variations in soil moisture content recorded in paleosol goethite, **Geochimica et Cosmochimica Acta**, 75, 7099-7116.
- (43) DiMichele, W.A., Cecil, C.B., Chaney, D.S., Elrick, S.D., Lucas, S.G., Lupia, R., Nelson W.J., and Tabor, N.J., 2011, Pennsylvanian-Permian vegetational change in tropical Euramerica, in Harper, J.A., ed., *Geology of the Pennsylvanian Permian in the Dunkard basin: Guidebook*, 76th Annual Field Conference of Pennsylvania Geologists, Washington, PA, p. 60-102.
- (44) Pan, A.D., Currano, E., Jacobs, B.F., Feseha, M., Tabor, N.J., Herrendeen, P.S., 2012, Fossil *Newtonia* (Fabaceae: Mimoseae) seeds from the early Miocene (22 – 21 Ma) Mush Valley in Ethiopia: **International Journal of Plant Sciences**, 173, 290-296.
- (45) Myers, T.S., Tabor, N.J., Jacobs, L.L., Mateus, O., 2012, Palaeoclimate of the Late Jurassic of Portugal: comparison with the Western United States: **Sedimentology**, 59, 1695-1717, doi: 10.1111/j.1365-3091.2012.01322.x.
- (46) Mack, G.H., Jones, M.C., Tabor, N.J., Ramos, F., Scott, S.R., Wichter, J.C., 2012, Mixed geothermal and shallow meteoric origins of opal and calcite beds in Pliocene-lower Pleistocene axial-fluvial strata, southern Rio Grande rift, Rincon Hills, New Mexico, U.S.A., **Journal of Sedimentary Research**, 82, 616-631.
- (47) Myers, T.S., Tabor, N.J., Jacobs, L.L., Mateus, O., 2012, Estimating soil pCO₂ using paleosol carbonates: implications for the relationship between primary productivity and faunal richness in ancient terrestrial ecosystems **Paleobiology**, 38, 585-604.
- (48) Mack, G.H., Foster, R., Tabor, N.J., 2012, Basin architecture of Pliocene-Lower Pleistocene alluvial-fan and axial-fluvial strata adjacent to the Mud Springs and Caballo Mountains, Palomas half graben, southern Rio Grande rift, in: **Geology of the Warm Springs region**, Lucas, Spencer G., McLemore,

B.T., Lueth, B.W., Spielmann, J.A., Krainer, K., editors, New Mexico Geological Society, Guidebook, 63rd Field Conference, p. 431-446.

- (49) Snell, K.E., Thrasher, B.L., Eiler, J.M., Koch, P.L., Sloan, L.C., Dettman, D., Tabor, N.J., 2013, Hot summers and modern thermal seasonality in the Bighorn Basin during the early Paleogene greenhouse, **Geology**, 41, 55-58.
- (50) Tabor, N.J., Myers, T.S., Gulbranson, E., Rasmussen, C., Sheldon, N.D., 2013, Light stable isotope composition of modern calcareous soil profiles in California: Implications for CO₂ reconstructions from calcareous paleosols: **Society of Economic Paleontologists and Mineralogists Special Publication**, 104, 17-34.
- (51) Sheldon, N.D., Tabor, N.J., 2013, Estimates of carbon sequestration deduced from paleosol mineralogical and geochemical compositions: submitted to **Society of Economic Paleontologists and Mineralogists Special Publication**, 104, 71-78.
- (52) Weissmann, G.S., Hartley, A.J., Scuderi, L.A., Nichols, G.J., Davidson, S.K., Atchley, S.C., Bhattacharyya, P., Chakraborty, T., Gosh, P., Nordt, L.C., Owen, A., Michel, L.A., Tabor, N.J., 2013, Prograding Distributive Fluvial Systems – Geomorphic Models and Ancient Examples: **Society of Economic Paleontologists and Mineralogists Special Publication**, 104, 131-147.
- (53) Tsuji, L., Sidor, C., Steyer, J.S., Smith, R.M.H., Tabor, N.J., Ide, O., 2013, THE VERTEBRATE FAUNA OF THE UPPER PERMIAN OF NIGER — VII. CRANIAL ANATOMY AND RELATIONSHIPS OF BUNOSTEGOS AKOKANENSIS (PAREIASAURIA): **Journal of Vertebrate Paleontology**, 33, 747-763.
- (54) Tabor, N.J., Romanchok, C.M., Looy, C.V., Hotton, C., DiMichele, W.A., Chaney, D.S., 2013, Biome dynamics and niche-conservatism of Late Pennsylvanian vegetation in western equatorial Pangea: submitted to **Journal of the Geological Society of London**, 376, 201-234.
- (55) Tabor, N.J., 2013, Research Focus: Wastelands of Tropical Pangea: High Heat in the Permian: **Geology**, 41, 623-624, doi: 10.1130/focus052013.1.
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