

Curriculum Vitae

Timothy F. Lawton

Bureau of Economic Geology, retired
The University of Texas at Austin
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Birth Date 13 February 1951 Vancouver, Washington, USA

Citizenship USA

Degrees

A.B., Environmental Studies (Honors)/Earth Sciences, 1973, University of California, Santa Cruz.

M.S., Geology, 1980, Stanford University.

Ph.D., Geology, 1983, University of Arizona.

Professional Experience and Distinctions

- 1983-1986 Development Geologist and Sedimentologist, Sohio Petroleum Company
- 1986-1992 Assistant Professor, New Mexico State University
- 1992-1998 Associate Professor, New Mexico State University
- 1998-2012 Professor, New Mexico State University
- 2003-2007 Academic Department Head, Department of Geological Sciences, NMSU
- 2007-2008 Fulbright-Garcia Robles Scholar Grantee, Mexico (September-May)
- 2013-2017 Titular Investigador B, Universidad Nacional Autónoma de México
- 2013-2017 Nivel 2, Sistema Nacional de Investigadores
- 2012-Present Emeritus Professor, New Mexico State University
- 2019-2023 Research Scientist, Bureau of Economic Geology, The University of Texas at Austin
- 2023-2025 Associate Research Professor, Bureau of Economic Geology, The University of Texas at Austin

Honorable Mention Paper, Journal of Sedimentary Petrology, 1988

Geology Field Camp Director, University of Arizona, 1987-1991

Honorable Mention for Excellence in Oral Presentation, SEPM Mid-Year Meeting, 1992

Visiting Professor, University of Barcelona, 1993-1994

Co-Leader, GSA Geohostel Field Trip, Southeastern Arizona, 1997

Best Guidebook, Geoscience Information Society, 2001

Twenhofel Medal Citationist for W.R. Dickinson, 2001

Associate Director, Institute of Tectonic Studies, NMSU, 1998-2011

New Mexico Geological Society Foundation Board of Directors, 2007-2012

Basin Research Editorial Board, 2007-Present
Revista Mexicana de Ciencias Geológicas Editorial Board, 2008-Present
Manasse Chair, College of Arts and Sciences, NMSU, 2007-2009
Member, Steering Committee for TRANSITIONS, Major NSF initiative in sedimentary geology and paleontology, March-November 2011
Laurence L. Sloss Award, Sedimentary Geology Division of Geological Society of America, 2025

Professional Society Membership and Participation

American Association of Petroleum Geologists, Member 2002-2023; Distinguished Lecturer Committee, 2016-2023
American Geophysical Union
Geological Society of America, Fellow 2003; Chair, Sedimentary Geology Division, 1991-1992; *Geology* Editorial Board, 1994-1996; 2005-2007; Associate Editor, *GSA Bulletin*, 2012-2015, Sloss Award Committee, 2024-Present
Grand Canyon River Guides Association, Life Member
New Mexico Geological Society, Lifetime Member
Sociedad Geológica Mexicana
Society for Sedimentary Geology (SEPM)

Research Grants

Modelo Alpino para el desarrollo del sistema de cuencas de antepaís del Cretácico tardío-Paleógeno en el norte de México: Implicaciones para la tectónica y paleogeografía regional: CONACyT 240932. \$1,313,500.00 (MXN; ~\$89,3500 USD); January 2015-December 2017.

Correlación de los sedimentos del Jurásico Medio-Superior, y el origen de las cuencas sedimentarias del Mesozoico medio en el centro-norte de Mexico: PAPIIT IN105714. \$780,000 (MN: ~\$59,000 USD); January 2014-December 2016.

Evolución del Golfo de México desde rift continental a Cuenca oceánica: un estudio estratigráfico y paleomagnético de la Formación Todos Santos, en México y Centro América y su basamento: CONACYT. \$1,620,000 (MN); 1/1/2012-12/31/2014. Co-PI with Roberto Molina-Garza, UNAM, Juriquilla.

Salt-Sediment Interaction Research Consortium. Co-PI with Katherine Giles, New Mexico State University, January 1999 to September 2011. Joint industry-academic research program with 3-14 company participants, depending upon year. Annual subscription fee was \$20,000 per company.

Movement of crustal blocks in Mexico during the Jurassic breakup of the supercontinent Pangea as determined from detrital zircon geochronology.

Fulbright-Garcia Robles Research Grant from Council for International Exchange of Scholars. \$30,000. Academic Year 2007-2008.

Gypsic paleosols in growth strata near an exposed salt weld, La Popa basin, Mexico: Potential indicators of diapiric history and proximity. American Chemical Society-Petroleum Research Fund. \$80,000; 9/1/2003-8/31/2005 (with Brenda Buck, University of Nevada Las Vegas)

Sedimentary basin development and deformation adjacent to the Mojave-Sonora megashear, Sonora, Mexico: An evaluation of the mid-Mesozoic tectonics of the southwestern Cordilleran margin. National Science Foundation. \$204,862. 2/01/2003-1/31/2006 (with Jeffrey Amato, New Mexico State University).

Interplay of evaporite diapirism, sedimentation, and structure in the Sierra Madre foreland: Analysis by comparison of histories of two diapirs, La Popa basin, Nuevo Leon, Mexico. American Chemical Society-Petroleum Research Fund. \$60,000; 7/1/98-6/30/2000 (with Katherine Giles, New Mexico State University).

Estratigrafía, paleontología y geología estructural de las rocas del Cretácico Inferior del centro oriente de Sonora y su relación con el Jurásico Superior en Sonora: CONACYT (Mexican version of NSF). \$45,000; 7/1/98-6/30/2000 (Co-PI with Carlos González-León, Instituto de Geología, UNAM, Hermosillo, Sonora).

Tectonic inversion of the Bisbee basin. National Science Foundation. \$83,000; 7/1/93-6/30/96.

Sabbatical grant. Ministeria de Educacion y Ciencias, Madrid. 1,972,500 pesetas (about \$20,000); 8/93-2/94.

Thrusting sequence in central Utah foreland from deformation of syntectonic basin-margin conglomerates. National Science Foundation. \$33,843; 7/1/92-12/31/94.

Magnetostratigraphy, depositional patterns, and temporal evolution of a piggyback basin, Sevier orogenic belt, Utah. National Science Foundation. \$31,200; 7/1/89-12/31/90 (with Douglas Burbank, USC).

Major Conference Participation

2023 Invited participant, Geological Society of America Penrose Conference, "Developing a New Paradigm for the Mid-Cretaceous to Eocene North American Cordillera: An Obliquely Convergent Plate Margin," McCall, ID. 18-25 August 2023.

2022 Co-convenor and speaker, Theme session entitled "Influence of the Evolving Ouachita-Marathon Orogen on Late Paleozoic Tectonics and Sedimentation

- in Laurentia and Gondwana,” Geological Society of America Annual Meeting, 9-12 October 2022.
- 2020 Co-convenor and speaker, Theme session entitled “Structural Evolution and Sedimentation Along the Western Gulf of Mexico Margin.” Geological Society of America, South-central Section, Fort Worth, TX. 9-10 March 2020.
- 2020 Co-convenor, AAPG Hedberg Conference "Geology and Hydrocarbon Potential of the Circum-Gulf of Mexico Pre-Salt Section," Mexico City, Mexico, 4-6 February 2020.
- 2019 Invited speaker, Simposio/Symposium Geopangea, Centro de Geología, Universidad Nacional Autónoma de México, Mexico City, January 2019. Conferencia magistral (Keynote talk) – La historia jurásica del norte de México y su relación con el rompimiento de Pangea (*The Jurassic history of northern Mexico and its relation to Pangean breakup*).
- 2018 Invited speaker, 10th International Congress on the Jurassic System, San Luis Potosí, Mexico, February 2018. Opening ceremony: "The Jurassic History of Mexico," (5 February) and topical session: "Jurassic Stratigraphy and Tectonics of the Mexico-USA Border Region" (6 February).
- 2018 Invited Speaker, SW Section AAPG, El Paso, TX. April 2018. "Jurassic rift-basin strata of the Plomosas uplift, northeastern Chihuahua."
- 2017 Invited speaker, Geological Society of America Annual Meeting, Seattle WA. October 2017. Theme session: "The Dynamics of Tectono-Sedimentary Systems During Basin Formation and Fill," and Theme session: "Late Paleozoic and Early Mesozoic Tectono-Stratigraphy and Biostratigraphy of the NW Pangea Margin: In Dedication to Jim Trexler."
- 2016 Co-organizer and speaker, Symposium entitled “Plate Tectonics, Arc-Trench Systems, Cordilleran Tectonics, Sedimentary Basins, Sandstone Provenance, and Geochronology II: A Celebration of William R. Dickinson's Career,” Geological Society of America, Annual Meeting, Denver, CO. September 2016.
- 2016 Invited Speaker, Geological Society of America Annual Meeting, Denver, CO. September 2016. Theme session: “Tectonics of Western North America: Late Paleozoic and through Time,”
- 2016 Distinguished Lecturer, American Association of Petroleum Geologists Latin America Region. Four different presentations (in Spanish) in Villahermosa and Ciudad México, México; Bogotá, Valledupar, and Medellín, Colombia; Paramaribo, Suriname; Lima and Cusco, Peru. April-May 2016.
- 2012 Invited Speaker, Sociedad Geologica Mexicana, Mexico City, November 2012.
- 2010 Invited keynote address, Simposio GeoLaramide, Hermosillo Sonora. March 2010.
- 2010 Invited keynote address, Celebration of the 50th Anniversary of the Instituto de Geología y Metalurgia, La Universidad Autónoma de San Luis Potosí, San Luis Potosí, San Luis Potosí. July 2010.
- 2008 Invited Conferencia Magistral (Master Lecture), Premier Congreso Sobre la Evolución Geológica y Ecológica del Noroeste de México, Hermosillo, Sonora.
- 2008 Co-Organizer and speaker, Topical session on Mesozoic Sedimentary Basins as Archives of Mexican Magmatic History and Paleogeography, GSA Annual Meeting, Houston TX.

- 2005 Co-Organizer and poster presenter, Symposium and Poster Session on Evolution of Foreland Basins, AAPG Annual Meeting, Calgary.
- 2003 Co-Organizer and speaker, Symposium and Poster Session on Depositional Processes, Facies and Sequence Stratigraphy in Foreland Basins, AAPG Annual Meeting, Salt Lake City.
- 2002 Co-organizer and presenter, Hedberg Research Conference on the Greater Ancestral Rocky Mountains, Vail, CO.
- 2001 Guidebook editor and field trip co-leader, New Mexico Geological Society Fall Field Conference.
- 2000 Speaker, Topical session on Ancestral Rocky Mountain Orogen, GSA Annual Meeting, Reno, NV.
- 1998 Co-leader, Field Trip to Central Utah Thrust Belt, AAPG Annual Meeting, Salt Lake City, UT.
- 1997 Co-leader, Field Trip to Central Utah Thrust Belt, GSA Annual Meeting, Salt Lake City, UT.
- 1997 Co-organizer and speaker, Topical session on Triassic-Jurassic Structural and Stratigraphic Record of Cordilleran Tectonics, GSA Annual Meeting, Salt Lake City, UT.
- 1995 Speaker, SEPM International Research Conference on Alluvial Fans, Furnace Creek, CA.
- 1992 Keynote Speaker, SEPM Mid-year Meeting, Fort Collins, CO.
- 1991 Speaker, GSA Penrose Conference on Development and Evolution of Foreland Basins, Oliana, Spain.
- 1989 Speaker, International Association of Sedimentologists Conference on Fluvial Sedimentology, Sitges, Spain.
- 1987 Co-organizer and speaker, Symposium on Timing of Deformation in Cordilleran Thrust Belt, GSA Annual Meeting, Phoenix, AZ.
- 1986 Speaker and session chair, GSA Penrose Conference on Concurrent Sedimentation and Deformation, Durango, CO.
- 1985 Speaker, Symposium on Thrust-Belt Provenance, International Association of Sedimentologists-SEPM Conference on Foreland Basins, Fribourg, Switzerland.

Courses Taught

Survey of Geology (Geology 111G); Petroleum Geology (Geology 478); Sedimentary Basin Analysis (Geology 520); Sedimentology (Geology 420); Stratigraphy (Geology 421); Sedimentation and Stratigraphy (Geology 420); Sandstone Petrology (Geology 530); Petroleum Geophysics (Geology 533); Tectonics of the North American Cordillera (Geology 580); Stratigraphy of the Colorado Plateau (Geology 216, 516); Tectonics of Sedimentary Basins (Geology 534); Geology Field Camp (Geology 495); Extinctions: Crises in the History of Life (Honors 219G); Earth, Time and Life (Honors 211); Advanced Stratigraphic Concepts (Geology 554); Petrología de Rocas Clásticas (UNAM); Procesos y Ambientes Sedimentarias (UNAM).

University Service (NMSU)

Curriculum and Educational Policies Committee, 1994-1995
Faculty Senate, 1998-2000
Faculty Affairs Committee, College of Arts and Sciences 2000-2003, Chair,
2002-2003
Acting Department Head, Geological Sciences, January-June 2002
Academic Department Head, Geological Sciences, August 2003-July 2007
Westhafer Award Committee, August 2009-
Budget and Planning Committee, College of Arts and Sciences, August 2008-
May 2012

University Service (UNAM)

Supervisor, Petrographic Microscope Laboratory (August 2013-December
2017)

Brief Biographic Sketch

Born in the state of Washington on the Columbia River, Tim Lawton moved to California during the defense boom of the 1950s and attended public school in Oakland. He earned his A.B. from the University of California, his M.S. from Stanford University, and Ph.D. from the University of Arizona. During summers from 1971-1980, he worked as a professional river guide in the California foothills, Utah, Colorado, Wyoming and the Grand Canyon.

His main research focus has been on the relation of sedimentation to active deformation, particularly in foreland-basin settings. He has employed clastic petrology, stratigraphic correlation, and structural relations in growth strata to infer thrust timing and kinematics in Utah, the Ebro Basin of Spain, and northeastern Mexico. More recently, he has expanded his study of syndeformational sedimentation to Jurassic extension and Laramide inversion in the Bisbee Basin of Arizona, New Mexico and Sonora and to salt-tectonic deformation in northeastern Mexico and the Paradox Basin of Utah. He has also applied detrital zircon U-Pb geochronological analysis to provenance and paleogeographic topics in the US and Mexican Cordillera. His principal teaching assignments have included university classes in introductory geology, field geology, petroleum geology, basin analysis, sandstone petrology, exploration seismology, Cordilleran tectonics, sedimentology, and stratigraphy, as well as field courses in salt tectonics for industry and academic geologists.

Personal research contributions have included:

1. Concepts of synorogenic sedimentation in foreland basins of central Utah, eastern Spain, and northeastern Mexico. This work included timing of thrust deformation in Utah (Lawton, 1985), an early sedimentologic and stratigraphic analysis of a Laramide uplift (the San Rafael uplift; Lawton, 1983, 1986a), the first description of a piggyback or wedgetop basin in the North American Cordillera

(Lawton and Trexler, 1991), the first description of long-lived fluvial fans at structural accommodation zones in the Sevier orogenic belt (Lawton et al., 1994), and the first application of dynamic subsidence to depositional systems of the Colorado Plateau (Lawton, 1994);

2. Petrologic characteristics and evolution of foreland-basin sandstones, including the relationship of foreland-basin sequence stratigraphy and sandstone petrology (Lawton et al., 2003) and early delineation of unroofing successions on the basis of sandstone and conglomerate petrology (Lawton, 1986b) and detrital zircons in quartzite clasts of foreland-basin conglomerate (Lawton et al., 2010);

3. Tectonics of Jurassic extension and Laramide inversion of the Border rift system of the southwestern United States (Lawton and Olmstead, 1995; Lawton and McMillan, 1999; Lawton, 2000);

4. Salt-influenced sedimentation, structure and sequence stratigraphy in the foreland of the Sierra Madre Oriental, northeastern Mexico. This research resulted in the first published example of an exposed salt weld (Giles and Lawton, 1999).

Syntheses of more general topics include the tectonics of sedimentary basin formation in the Rocky Mountain Region and the tectonic evolution of Mexico (Dickinson and Lawton, 2001). Lawton was the principal adviser of 38 MS students at New Mexico State University and graduated two MS students and a Ph.D. student at the Universidad Nacional Autónoma de México. He served as Chair of the GSA Sedimentary Geology Division in 1991-1992.

Personal administrative/funding contributions have included:

1. Co-founder, with Katherine Giles, of the Salt-Sediment Interaction Consortium in 1998, an industry-funded consortium that enjoyed as many as 14 oil company sponsors, making it one of the most successful industry-sponsored consortia in North America. This consortium recently moved with Dr. Giles to the University of Texas at El Paso.

2. In collaboration with Dr. Waded Cruzado, Dean of the College of Arts and Sciences, secured the Michael Johnson Endowed Chair in Geological Sciences, the first endowed chair in the College of Arts and Sciences at New Mexico State University. July 2006.

Articles in Peer-Reviewed Science Citation Index Journals

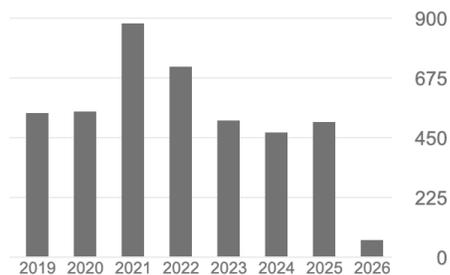
(Bold names indicate my undergraduate and graduate student coauthors).

Google Scholar Citations:

<https://scholar.google.com/citations?user=JmL0kNkAAAAJ&hl=en>

Google Scholar 3 March 2026

Cited by	VIEW ALL	
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Citations	10339	3155
h-index	55	30
i10-index	142	86



93. Juárez-Zúñiga, S., Stockli, D.F., Johnson, B., and Lawton, T.F., in press, Depositional interplay between the Ancestral Rocky Mountains and Ouachita–Marathon–Sonora orogenies: insights from provenance records in the late Paleozoic Marfa Basin, West Texas, U.S.A.: Basin Research.
92. Juárez-Zúñiga, S., Stockli, D.F., Lawton, T.F., and Kerans, C., 2026, Ancestral Rocky Mountain deformation in south-central New Mexico: Insights from detrital zircon U-Pb and (U-Th)/He dating in the Orogrande basin: *Geosphere*, v. 22, p. 130–151, <https://doi.org/110.1130/GES02884.02881>
91. Ruiz-Urueña, J. E., Martini, M., Zepeda-Martínez, M., Ramirez-Fernández, J. A., and Lawton, T. F., 2025, Heterogeneous provenance and intracontinental rift evidence in the early–middle Jurassic La Boca Formation in the Huizachal-Peregrina Anticlinorium, Mexico: *International Geology Review*, v. 67, p. 1173–1195, <https://doi.org/1110.1080/00206814.00202024.02429141>.
90. Schuba, C.N., Moscardelli, L., Dooley, T.P., Peel, F.J., Martinez-Doñate, A., Lawton, T.F., Apps, G., and Schuba, J.P., 2025, Geophysical characterization of dissolution features and deformation in bedded salt formations in the northeast Delaware Basin: *Interpretation*, v. 13, p. T367–T386, <http://dx.doi.org/310.1190/INT-2024-0063.1191>.

89. Snedden, J.W., Lowery, C.M., and Lawton, T.F., 2025, The end of the Cretaceous: depositional palaeogeographical reconstruction of the Gulf of Mexico and adjacent areas just prior to the Chicxulub impact, *in* Hart, M.B., Batenburg, S.J., Huber, B.T., Price, G.D., Thibault, N., Wagreich, M., and Walaszczyk, I., eds., Cretaceous Project 200 Volume 2: Regional Studies: London, The Geological Society, Special Publications, v. 545, <https://doi.org/10.1144/SP1545-2023-1151>.
88. Stockli, D.F., Snedden, J.W., Lawton, T.F., Albertson, M., and Pasley, J., 2024, Reconstructing the Zama (Mexico) discovery source to sink story, Part I; detrital zircon U–Pb and (U–Th)/He provenance analysis and implications for sediment source terranes Basin Research, <https://doi.org/10.1111/bre.12899>.
87. Scott, R.W., González-Leon, C.M., Lawton, T.F., Madhavaraju, J., Saucedo-Samaniego, J.C., and Sierra-Rojas, M.I., 2024, Aptian-Albian sequence stratigraphy, biostratigraphy, chemostratigraphy, and chronostratigraphy: Sonoran shelf and Tamaulipas basin, Mexico: Cretaceous Research, v. 155, <https://doi.org/10.1016/j.cretres.2023.105776>.
86. Lawton, T.F., Juárez-Arriaga, E., Stockli, D.F., and Fildani, A., 2024, Modern sand provenance and transport across the western Gulf of Mexico margin: Geological Society of America Bulletin, v. 136, p. 1127–1150, <https://doi.org/1110.1130/B37002.37001>.
85. González-Leon, C.M., Sierra-Rojas, M.I., Scott, R.W., Solari, L.A., Lawton, T.F., Noury, M., and Vázquez-Salazar, M., 2023, Lower Cretaceous (Aptian-Albian) Bisbee Group, Arizpe area, northern Sonora, Mexico: Integrated biostratigraphy, age and provenance from U–Pb and Hf isotopes: Revista Mexicana de Ciencias Geológicas, v. 40, p. 254–272, <http://dx.doi.org/210.22201/cgeo.20072902e.20072023.20072903.20071759>
84. Kortyna, C., Stockli, D.F., Lawton, T.F., Covault, J.A., and Sharman, G.R., 2023, Impact of Border rift structural inheritance on Laramide rivers of the Tornillo basin, west Texas: Insights from detrital zircon provenance: Geosphere, v. 19, p. 1747–1787, <https://doi.org/1710.1130/GES02516.02511>.
83. Snedden, J.W., Lowery, C.W., and Lawton, T., 2023, The End of the Cretaceous: Depositional paleogeographic reconstruction of the Gulf of Mexico and adjacent areas just prior to the Chicxulub impact, *in* Hart, M.B., Batenburg, S.J., Huber, B.T., Price, G.D., Thibault, N., Wagreich, M., and Walaszczyk, I., eds., Cretaceous Project 200 Volume 2: Regional Studies, Volume 545: London, Geological Society of London, Special Publications, <https://doi.org/10.1144/SP1545-2023-1151>.

82. Liu, L., Xu, J., Stockli, D.F., Lawton, T.F., and Blakey, R.C., 2023, Decoding post-orogenic sediment recycling and dispersal using detrital zircon core and rim ages: *Basin Research*, v. 35, p. 489–509, <https://doi.org/410.1111/bre.12719>.
81. Liu, L., Stockli, D.F., Lawton, T.F., Xu, J., Stockli, L.D., Fan, M., and Nadon, G.C., 2022, Reconstructing source-to-sink systems from detrital zircon core and rim ages: *Geology*, v. 50, p. 691–696; <https://doi.org/610.1130/G49904.49901>.
80. **Juárez-Arriaga, E.**, Lawton, T.F., Solari, L.A., and Stockli, D.F., 2022, Stratigraphy and origin of Upper Cretaceous wedge-top and proximal foredeep deposits in the Mexican foreland basin, east-central Mexico: *Journal of South American Earth Sciences*, v. 114, <https://doi.org/10.1016/j.jsames.2021.103681>.
79. Lawton, T.F., Rowan, M.G., and Giles, K.A., 2021, La Popa basin, Nuevo León and Coahuila, Mexico: Halokinetic sequences and diapiric structural kinematics in the field: Cham, Switzerland Springer, Springer Geology Field Guides, 98 p., <https://doi.org/10.1007/978-3-030-79397-5>.
78. Lawton, T.F., Blakey, R.C., Stockli, D.F., and Liu, L., 2021, Late Paleozoic (Late Mississippian–Middle Permian) sediment provenance and dispersal in western equatorial Pangea: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 572, p. 1–35, <https://doi.org/10.1016/j.palaeo.2021.110386>.
77. Liu, L., Ambrose, W.A., Lawton, T.F., and Stockli, D.F., 2021, Tectonic controls on the evolution of mixed carbonate-siliciclastic systems: Insights from the late Palaeozoic Ouachita-Marathon foreland, United States: *Basin Research*, v. 33, p. 2281–2302, <https://doi.org/10.1111/bre.12557>.
76. Lawton, T.F., Amato, J.M., Machin, S.E.K., **Gilbert, J.C.**, and Lucas, S.G., 2020, Transition from Late Jurassic rifting to middle Cretaceous dynamic foreland, southwestern U.S. and northwestern Mexico: *Geological Society of America Bulletin*, <https://doi.org/10.1130/B35433.35431>.
75. Rowan, M.G., **Hearon, T.E.**, IV, Kernan, R.A., Giles, K.A., Gannaway-Dalton, C.E., Williams, N.J., Fiduk, J.C., Lawton, T.F., Hannah, P.T., and Fischer, M.P., 2020, A review of allochthonous salt tectonics in the Flinders and Willouran ranges, South Australia: *Australian Journal of Earth Sciences*, v. 67, no. 6, p. 787–813, <http://doi.org/10.1080/08120099.2018.1553063>.
74. Soto-Kerans, G., Stockli, D., Janson, X., Lawton, T.F., and Covault, J.A., 2020, Orogen proximal sedimentation in the Permian foreland basin: *Geosphere*, v. 16, p. 567–593, <https://doi.org/510.1130/GES02108.02101>.
73. **Juárez-Arriaga, E.**, Lawton, T.F., Stockli, D.F., Solari, L., and Martens, U., 2019, Late Cretaceous-Paleocene stratigraphic and structural evolution of the central Mexican fold and thrust belt, from detrital zircon (U-Th)/(He-Pb) ages: *Journal*

of South American Earth Sciences, v. 96,
<https://doi.org/10.1016/j.jsames.2019.102264>.

72. **Juárez-Arriaga, E.**, Lawton, T.F., Ocampo-Díaz, Y.Z.E., Stockli, D.F., and Solari, L., 2019, Sediment provenance, sediment-dispersal systems, and major arc-magmatic events recorded in the Mexican foreland basin, North-Central and Northeastern Mexico: *International Geology Review*, <https://doi.org/10.1080/00206814.00202019.01581848>.
71. Rowan, M.G., **Hearon, T.E.**, IV, Kernen, R.A., Giles, K.A., Gannaway-Dalton, C.E., Williams, N.J., Fiduk, J.C., Lawton, T.F., Hannah, P.T., and Fischer, M.P., 2019, A review of allochthonous salt tectonics in the Flinders and Willouran ranges, South Australia: *Australian Journal of Earth Sciences*, <https://doi.org/10.1080/08120099.08122018.01553063>.
70. Thomas, W.A., Gehrels, G.E., Lawton, T.F., Satterfield, J.I., and Romero, M.C., 2019, Detrital zircons and sediment dispersal from the Coahuila terrane of northern Mexico into the Marathon foreland of the southern Midcontinent: *Geosphere*, v. 15, p. 1102-1127, <https://doi.org/1110.1130/GES02033.02031>.
69. Fitz-Díaz, E., Lawton, T.F., **Juárez-Arriaga, E.**, and Chávez-Cabello, G., 2018, The Cretaceous-Paleogene Mexican orogen: Structure, basin development, magmatism and tectonics: *Earth-Science Reviews*, v. 183, p. 56-84, doi: 10.1016/j.earscirev.2017.1003.1002.
68. **Clinkscales, C.A.**, and Lawton, T.F., 2017, Mesozoic–Paleogene structural evolution of the southern U.S. Cordillera as revealed in the Little and Big Hatchet Mountains, southwest New Mexico: *Geosphere*, v. 14, p. 162-186, doi:110.1130/GES01539.01531.
67. Copeland, P., Currie, C.A., Lawton, T.F., and Murphy, M.A., 2017, Location, location, location: the variable lifespan of the Laramide orogeny: *Geology*, v. 45, p. 223-226, doi:210.1130/G38810.38811.
66. González-Leon, C.M., Stanley, G.D., Jr., Lawton, T.F., Pálffy, J., and Hodges, M.S., 2017, The Triassic/Jurassic boundary and the Jurassic stratigraphy and biostratigraphy of northern Sonora, northwest Mexico: *Boletín de la Sociedad Geológica Mexicana*, v. 69, p. 711-738.
65. Lawton, T.F., and Amato, J.M., 2017, U-Pb ages of salt diapir xenoliths, La Popa basin: Implications for salt age in onshore Mexico salt basins: *Lithosphere*, v. 9, p. 745-758, <https://doi.org/710.1130/L1658.1131>.
64. Lawton, T.F., Cashman, P.H., Trexler, J.H., Jr., and Taylor, W.J., 2017, The Late Paleozoic Southwestern Laurentian Borderland: *Geology*, v. 45, p. 675-678, doi:610.1130/G39071.39071.

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