

## Dustin E. Sweet

### Curriculum Vitae

(updated 5/4/2018)

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Lubbock, TX 79409-1053

#### Contact information:

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Home Phone: (405) 659-5007      Office Phone: (806) 834-8390

#### Education

- 2003-09 University of Oklahoma, School of Geology and Geophysics, PhD. 4.0 GPA  
*Dissertation title:* Glaciation in Equatorial Pangaea: Testing the hypothesis  
in the Pennsylvanian-Permian Fountain Formation (Colorado)  
[advisor: Dr. Gerilyn S. Soreghan]
- 2000-03 Boise State University, Department of Geology, M.S. 4.0 GPA  
*Thesis title:* Tectonostratigraphy of the Central Pequop Mountains, Elko  
County, Nevada. [advisor: Dr. Walter S. Snyder]
- 1996-2000 Boise State University, Department of Geology, B.S. 3.28 GPA  
*Thesis title:* Jurassic Sedimentary Sequence in the Izee Terrane of West-  
Central, Idaho [advisor: Dr. C.J. Northrup]

#### Employment & Appointments

- Texas Tech University, Associate Professor (2017-present)
- Geology Theme Leader, GSCO2, Energy Frontier Research Center (2017-Present)
- Texas Tech University, Assistant Professor (2011-2017)
- Chevron Energy Technology Company, New Ventures (2009-2011)

#### Teaching Experience

##### Texas Tech University

Sedimentology & Stratigraphy, Sequence Stratigraphy, Sedimentary Geology of  
Carbonates, Sedimentary Processes, Field Geology of Carbonates, Field Methods in  
Sedimentary Geology

##### University of Oklahoma

Stratigraphy and Structure for Petroleum Engineers

##### Boise State University

Sedimentary Petrology & Petrography, Sedimentation & Stratigraphy

#### Awards and Honors

- Ben Hare Most Outstanding Graduate Research, 2009
- Outstanding Paper of the Year, *The Mountain Geologist*, 2008
- University of Oklahoma Graduate College Outstanding Teaching Award, 2007
- DeGolyer Presidential Fellow, University of Oklahoma, 2007
- Geochemistry Faculty search committee, graduate representative, 2007
- Student Advisory Committee, School of Geology & Geophysics, 2006
- Stan Cunningham Excellence in teaching award, 2003-2004
- Teaching assistant of the year, Boise State Geology Club Award, 2001-2002

- Will Burnham Scholarship: academic year 1999-2000, 2001-2002
- Dean's List with Honors: spring 1997, Fall 1998, Fall 1999, Spring 2000

### **Chevron Energy Technology Projects**

- Prospect mapping and maturation in west Africa [January-March, 2011]
- Regional upper Cretaceous paleogeographic maps of west Africa (southern Gabon, Republic of Congo, Angola) [April-December, 2010]
- Assessed the prospectivity of a post salt Cretaceous deepwater sandstone play in the Republic of Congo through the integration of seismic, well and analog data [January-March, 2010]
- Lower Congo Basin Presalt Play Risk GENV Workshop, Presented paleogeographic maps and finalized the workshop workflow and results report [September-October, 2009]
- Created Neocomian-Aptian (presalt) paleogeography of the western Atlantic margin (Lower Congo Basin) through the integration of 2-D seismic, 3-D seismic, well data, analogue and models [April-December, 2009]
- Utilized 2-D seismic, climate models and geologic literature to assess paleogeography, paleoclimate, regional stratigraphy, basin formation, structure, and petroleum systems in Baffin Bay (Greenland)—intern project [April-June, 2008]
- Utilized 2-D seismic and well data to determine sand delivery pathways as reservoir risk assessment for 2007 Caribe Bid round in Rioacha Field and surrounding region (Columbia)—intern project [May-August, 2007]

### **Research Funding (Awards: \$411,758)**

- **Sweet, D.E.** (Principal 35% effort), Barnes, M.A., (Co-PI), Segvic, B., (Co-PI), Barnes, C.G., (Co-PI) and Sylvester, P. J. (Co-PI), Technical Response to the GSCO2 Research Question “How do reservoir-scale geologic features relate to geomechanical and seismic properties of rocks?”, Capture and Storage of CO<sub>2</sub>, Energy Frontier Research Center, Sponsored by the Department of Energy, **Awarded**, \$222,880, (January 1, 2017-July 31, 2018).
- **Sweet, D.E.** (Principal 100% effort), “Testing carbonate shelf geometry as a control on highstand delivery of siliciclastics to basin settings,” Sponsored by the Petroleum Research Fund-American Chemical Society, Foundation, **Awarded**, \$110,000, (January 1, 2017-August 31, 2019)
- Bernard, C.R. (PI), Perry, G. (Co-PI), and **Sweet, D.E.**, (Co-PI, 40% effort), “Enhancing the capacities of undergraduates at the University of Guyana and Texas Tech University to support the oil and gas sector”, 100,000 Strong in the Americas, **Awarded** \$24,740, (May 1, 2016-April 30, 2017)
- **Sweet, D.E.** (Principal 100% effort), “CAREER: Building a proglacial fluvial proxy through SEM microtexture analysis to aid ancient glacier reconstruction,” Sponsored by National Science Foundation, Federal, *Submitted July-2015, Declined \$559,672*
- **Sweet, D.E.** (Principal 70% effort), Horita, J. (Co-Principal 30%), “Pleistocene loess-paleosol couplets on the Southern High Plains: Building a high-resolution climate record and sediment provenance,” Sponsored by National Science Foundation, Federal, *Submitted May-2015, Declined \$318,130*
- **Sweet, D.E.** (Principal 70% effort), Horita, J. (Co-Principal 30%), “Quaternary loess-paleosol couplets on the Southern High Plains: Building a high-resolution climate record and sediment

provenance," Sponsored by National Science Foundation, Federal, *Submitted July-2014, Declined \$459,026*

- **Sweet, D.E.** (Principal 70% effort), Horita, J. (Co-Principal 30%), "Quaternary loess-paleosol couplets on the Southern High Plains: Building a high-resolution climate record," Sponsored by National Science Foundation, Federal, *Submitted July-2013, Declined \$304,692.*
- **Sweet, D.E.** (Principal 100% effort), "Survivability of glacially induced quartz grain microtextures during glacio-fluvial transport," Sponsored by National Science Foundation, Federal, **Awarded \$49,943.00 (originally requested \$140,859).** (August 1, 2013 - July 31, 2016).
- **Sweet, D.E.** (Principal 100% effort), "Testing a Two Phase Subsidence Model for the Ancestral Rocky Mountains in the Taos Trough Region of Northern New Mexico," Proposal Stimulus Award—TTU Vice President of Research, University, *Submitted January-2013, Awarded \$4,195.*
- **Sweet, D.E.** (Principal 100% effort), "Testing a Two Phase Subsidence Model for the Ancestral Rocky Mountains in the Taos Trough Region of Northern New Mexico," Sponsored by National Science Foundation, Federal, *Submitted July-2012, Declined \$115,036.*
- **Sweet, D.E.** (Principal 100% effort), "Survivability of glacially induced quartz grain microtextures during glacio-fluvial transport," Sponsored by National Science Foundation, Federal, *Submitted January 2012, Declined \$ 144,437.*
- Gurrola, H. (Principal), Hardin, E. (Co-Principal), Horita, J. (Co-Principal), McIntyre, N. (Co-Principal), Rainwater, K. (Co-Principal), Ridley, M. (Supporting), Allen, L. J. (Supporting), Griffis-Kyle, K. (Supporting), **Sweet, D.E.** (Supporting), "Increasing interest in STEM: School-wide change through involvement in high profile scientific research," Sponsored by National Science Foundation, Federal, *Submitted September 2011, Declined \$1,499,925.*

### Short Courses & Workshops

- Hedberg Research Conference-Late Paleozoic Tectonics and Hydrocarbon Systems of western Pangaea [2003]
- Late Paleozoic Icehouse Workshop, National Science Foundation sponsored [2004]
- Sequence stratigraphy, Instructors: Kirt Champion (ExxonMobil) & Art Donovan (BP) [2005]
- Continental trace fossils, SEPM short course, Instructor: Stephen Hasiotis [2005]
- Predictive stratigraphy, St. Anthony Falls Laboratory, Instructor: Marty Perlmutter & Chris Paola [2007]
- Rift Fill workshop, Chevron Energy Technology Center, Instructor: Christopher Scholz [2008]
- RiskOG Risk and Uncertainty School, Chevron Exploration Review Team and Rose & Associates, Instructors: Truett Enloe (Chevron) & Bob Otis (Rose & Associates) [2009]
- Applied Subsurface Geologic Mapping, Subsurface Consultants & Associates, Instructor: Siamak Agah [2009]
- Earth Science Pathways Training, Chevron Energy Technology Company [2009]
- Seismic Fundamentals, Texseis, Inc., Instructor: Mike Graul [2009]
- Interpretation of 3D Seismic Data, Nautilus, Instructor: Alistair Brown [2010]
- Applied Petroleum Geochemistry, Chevron Energy Technology Company, Instructors: Joe Curiale, Richard Parrish and Fang Lin [2010]
- Formation Evaluation, Chevron Energy Technology Company, Instructor: Barry Reik [2010]
- Tying Seismic Data to Wells, Chevron Energy Technology Company, Instructor: Jennifer Zhang and Patrick Ditty [2010]

## **Advised Students**

### Graduate-12 MS students; 3-PhD Student

- 15) Dillon Bagnall (M.S. in progress)  
*Thesis Title:* TBD
- 14) Katie Pevehouse (M.S. in progress)  
*Thesis Title:* Cambrian weathering trends along the great unconformity, St. Francois Mountains, Missouri
- 13) Daniel St.-Germain (M.S. in progress)  
*Thesis Title:* Stratigraphy and paleogeography of the Peratrovich Formation and Ladrones Limestone (Mississippian to Pennsylvanian) southeastern Alaska
- 12) John Brotherton (PhD. in progress)  
*Thesis Title:* Assessment of the late Paleozoic rate of denudation of the Pedernal Uplift, Ancestral Rocky Mountains, southeastern New Mexico
- 11) Khaled Chowdhury (PhD. in progress)  
*Thesis Title:* Developing a 3-D basin subsidence model for the late Paleozoic Taos Trough, northern New Mexico
- 10) Phillip Frederick (PhD. August 2017)  
*Thesis Title:* Stratigraphy and paleogeography of the Peratrovich Formation and Ladrones Limestone (Mississippian to Pennsylvanian) southeastern Alaska
- 9) Eric Friedman (M.S. August 2017)  
*Thesis Title:* Comparing siliciclastic content of ramp to rimmed carbonate slope deposits during relative sea level highstands
- 8) Daniel Pike (M.S. August 2017)  
*Thesis Title:* Cyclicity, Dune Migration and Wind Velocity in Lower Permian Eolian Strata, Manitou Springs, Colorado
- 7) Audrey Pattat (M.S. August 2017)  
*Thesis Title:* Assessing post-Miocene tilting of the Southern High Plains through paleoslope reconstructions of the Ogallala Formation
- 6) Jill Garcia (M.S. May 2017)  
*Thesis title:* Pennsylvanian-Permian chronostratigraphy of the eastern Midland Basin: Implications for basin-filling evolution and paleogeography
- 5) Matthew Pippin (M.S. May 2016)  
*Thesis Title:* Progressive downstream overprinting of glacially induced quartz microtextures during fluvial saltation, Salmon River, British Columbia and Alaska
- 4) David Brannan (M.S. August 2015)  
*Thesis Title:* Fluvial overprinting of glacially induced microtextures on quartz grains derived from the Chitina Glacier, Alaska
- 3) Hollee Baird (M.S. May 2015)  
*Thesis Title:* Assessing Pleistocene climate on the Southern High Plains through geochemical and physical characteristics of paleosols archived in the Blackwater Draw Formation
- 2) Aaron Watters (M.S. August 2014)  
*Thesis Title:* Middle Pennsylvanian paleogeography of the Taos Trough region, Northern New Mexico
- 1) Gabrielle Dunne (M.S. May 2013)  
*Thesis Title:* A geochemical and sedimentologic approach to infer paleoclimatic from buried soils within playa fill, Southern High Plains, Texas

Undergraduate-31 total

- 31) Katie Pevehouse (B.S. August 2017)  
*Thesis Title:* Chronostratigraphic Study of the Central Basin Platform and Delaware Basin in Loving, Ward and Winkler Counties, Texas
- 30) Richard Bloomer (B.S. August 2017)  
*Thesis Title:* Influence of the Marathon fold and Thrust Belt on sediment deposition in the southern Delaware Basin denoted by depths of Fusulinid biozone tops in Pecos County, TX
- 29) Eric Anderson (B.S. August 2017)  
*Thesis Title:* Chronostratigraphic evolution of the Eastern Shelf and Midland basin-- Schleicher, Menard, Kimble and Concho Counties
- 28) Anthony Pedraza (B.S. August 2017)  
*Thesis Title:* Late Pennsylvanian to Early Permian evolution of the Ozona-Pecos Arch and its connection to the Central Basin Platform
- 27) Chris Spano (B.S. December 2016)  
*Thesis Title:* Structural Interpretation of the Matador Uplift and Late Paleozoic time periods in the Palo Duro Basin in Hale and Floyd County, TX
- 26) Sterling Lepard (B.S. May 2016)  
*Thesis Title:* Permian and Pennsylvanian Evolution of the Central Basin Platform in Upton and Crane Counties
- 25) Seth Martin (B.S. August 2016)  
*Thesis Title:* Evolution of Basin Fill within the southern Palo Duro Basin in Northwest Texas
- 24) Robert Nelson (B.S. August 2016)  
*Thesis Title:* Strawn through Wolfcampian shelf edge progradation of the northeastern Midland Basin and southeastern Palo Duro Basin, Kent, Dickens and Motley counties, west Texas.
- 23) Josh Newton (B.S. August 2016)  
*Thesis Title:* Transition of the Midland Basin to the Matador Arch in Bailey, Parmer and Cochran counties defined through reconstruction of depth to fusulinid biozones.
- 22) Daniel St-Germain (B.S. 2015)  
*Thesis Title:* Late Paleozoic development of the southern Midland Basin
- 21) Mason Villarreal (B.S. 2015)  
*Thesis Title:* Pennsylvanian-Permian evolution of the Midland Basin in Terry and Yoakum counties, Texas
- 20) Casey Shands (B.S. 2015)  
*Thesis Title:* Pennsylvanian uplift and early Permian subsidence of the Central Basin Platform in Ector and Midland Counties
- 19) Tyler Roy (B.S. 2015)  
*Thesis Title:* Pennsylvanian Development of the Horseshoe Atoll in the Midland Basin, Martin and Dawson Counties, West Texas
- 18) Alexander Geis (B.S. 2015)  
*Thesis Title:* Development of the Eastern Midland Basin Shelf within Tom Green County, Texas
- 17) Clinton Carr (B.S. 2015)  
*Thesis Title:* Chronostratigraphic Analysis of Irion and Reagan Counties, Texas
- 16) Joshua Sharkey (B.S. 2015)  
*Thesis Title:* Chronostratigraphic evolution of the Pennsylvanian-Permian eastern shelf of the Midland Basin within Sterling and Coke Counties, Texas
- 15) William Reeves (B.S. 2015)

- Thesis Title:* Structure of the Ordovician Ellenberger Formation in Fisher and Nolan counties, Texas
- 14) Heather Barnes (B.S. 2015)  
*Thesis Title:* Chronostratigraphic Evolution of the Pennsylvanian-Permian Northern Shelf of the Midland Basin within Hockley County, Texas
  - 13) James Duncan (B.S. 2015)  
*Thesis Title:* Development of the Horseshoe Atoll in the Northern Midland Basin, Howard and Mitchell Counties, Texas
  - 12) Kendall Hamrick (B.S. 2015)  
*Thesis Title:* Development of the Wolfcamp Formation and Horseshoe Atoll in the Midland Basin, Borden and Scurry County, Texas
  - 11) William Armstrong (B.S. 2015)  
*Thesis Title:* Late Paleozoic Development of the Northern Midland Basin Shelf in Lubbock and Lynn counties, TX
  - 10) Ryan Robbins (B.S. December 2014)  
*Thesis Title:* Development of the Permian shelf in the Northern Midland Basin, Garza and Crosby counties, Texas
  - 9) John Closuit (B.S. May 2014)  
*Thesis Title:* Downstream grain-size distribution of sand bed load in a proglacial system Chitina River, Alaska
  - 8) Abner Godoy (B.S. May 2014)  
*Thesis Title:* Thickness variations between the early Permian and Pennsylvanian stratigraphy in the northern Denver Basin
  - 7) Matt Terry (B.S. December 2013)  
*Thesis Title:* Grain-size control of mudcracks in a kaolinite matrix
  - 6) Corbin Carsrud (B.S. May 2013)  
*Thesis Title:* A Pennsylvanian Age for the Fountain Formation constrained by lithologic comparison of overlying eolian units
  - 5) Logan Worley (B.S. May 2013)  
*Thesis Title:* Pennsylvanian and Permian isopach comparisons within the Paradox Basin, Utah
  - 4) Hollee Baird (B.S. December 2012)  
*Thesis Title:* Stable Inorganic Carbon and Oxygen Isotope Geochemistry of buried soils in Playa Wetland cores in the Southern High Plains
  - 3) Bryce Mathis (B.S. December 2012)  
*Thesis Title:* Deciphering Paleogeography of the Ancestral Rockies in the Taos Trough Region through Soft-Sedimentary Folds and Provenance Analysis: Sangre de Cristo Mountains, New Mexico
  - 2) Aaron Watters (B.S. May 2012)  
*Thesis Title:* Early Permian Wind Parameters Recorded in the Lyons Formation, Manitou Springs, Colorado
  - 1) Clyde Findlay (B.S. May 2012)  
*Thesis Title:* Modeling Competency through Volume Expansion of Fine-grained Debris Flows Housed within the Fountain Formation, Colorado

## **Publications**

Peer Reviewed Papers (\*indicates student authors)

- 21) Pike, J.D.\* and **Sweet, D.E.**, 2018, Environmental drivers of cyclicity recorded in lower Permian eolian strata, Manitou Springs, Colorado, western United States, *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 499, p. 1-12
- 20) **Sweet, D.E.**, 2017, Fine-grained debris flows in coarse-grained alluvial systems: Paleoenvironmental implications for the Late Paleozoic Fountain and Cutler formations, Colorado, U.S.A., *Journal of Sedimentary Research*, v. 87, p. 763-779.
- 19) **Sweet, D.E.**, and Brannan, D.K\*, 2016, Proportion of glacially induced to fluvially induced quartz grain microtextures along the Chitina River, SE Alaska. *Journal of Sedimentary Research*, v. 86, p. 749-761.
- 18) **Sweet, D.E.** and Watters, A.J.\*, 2015, Middle Pennsylvanian composite stratigraphic section of Holman Grade records cyclic fluvio-deltaic sedimentation within the Taos trough axis, in Lindline, J., Petronis, M., and Zebrowski, J. (eds.), *Geology of the Las Vegas Region*. New Mexico Geological Society Field Conference Guidebook 66, p. 229-239.
- 17) Soreghan, G.S., **Sweet, D.E.**, Thomson, S.N., Kaplan, S.A., Marra, K.R., Balco, G., and Eccles, T.M., 2015, Geology of Unaweep Canyon and its role in the drainage evolution of the northern Colorado Plateau. *Geosphere*, v. 11, no.2, p. 320-341.
- 16) **Sweet, D.E.**, Carsrud, C.R.\* and Watters, A.J.\* , 2015, Proposing an entirely Pennsylvanian age for the Fountain Formation through new lithostratigraphic correlation along the Front Range. *The Mountain Geologist*, v. 52, no. 2, p. 43-70.
- 15) Soreghan, G.S., **Sweet, D.E.** and Heavens, N.G., 2014, Evidence for Glaciation in the late Paleozoic Ancestral Rocky Mountains, and Implications for Upland Glaciation in Tropical Pangaea: *Journal of Geology*, v. 122, p. 137-163.
- 14) Soreghan, G.S. and **Sweet, D.E.**, 2013, New Views on late Paleozoic climate and tectonics in the Ancestral Rocky Mountains, in Abbott, L.D., and Hancock, G.S., (eds.), *Classic Concepts and New Directions: Exploring 125 Years of GSA Discoveries in the Rocky Mountain Region*. Geological Society of America Field Guide 33, p. 295-330.
- 13) Balco, G., Soreghan, G.S., **Sweet, D.E.** and Marra, K.R., 2013, Cosmogenic-nuclide burial ages for Pleistocene sedimentary fill in Unaweep Canyon, Colorado, USA. *Quaternary Geochronology*, v. 18, p. 149-157.
- 12) Sweet, A.C., Soreghan, G.S., **Sweet, D.E.**, Soreghan, M.J., and Madden, A.S., 2013, A re-interpretation of the source and origin for the middle Permian (Flowerpot-Blaine) redbeds in Oklahoma: Palaeogeographic and Palaeoclimatic implications. *Sedimentary Geology*, v.284-285, p. 181-196.
- 11) **Sweet, D.E.** and Soreghan, G.S., 2012, Estimating magnitudes of relative sea-level change in a coarse-grained fan delta system: Implications for Pennsylvanian glacioeustasy. *Geology*, V. 40, 979-982.
- 10) Soreghan, G.S., Keller, G.R., Gilbert, M.C., Chase, C.G., and **Sweet, D.E.**, 2012, Load-induced subsidence of the ancestral Rocky Mountains recorded by preservation of Permian landscapes. *Geosphere*, V. 8, no. 3, p. 654-668.
- 9) **Sweet, D.E.** and Soreghan, G.S., 2010, Application of quartz sand microtextural analysis to infer cold-climate weathering for the equatorial Fountain Formation (Pennsylvanian-Permian, Colorado). *Journal of Sedimentary Research*, v. 80, p. 666-677.
- 8) **Sweet, D.E.** and Soreghan, G.S., 2010, Late Paleozoic tectonics and paleogeography of the Ancestral Front Range: Structural, stratigraphic and sedimentological evidence

from the Fountain Formation (Manitou Springs, Colorado). *Geological Society of America Bulletin*, v. 122, p. 575-594.

- 7) Soreghan, G.S., Soreghan, M.J., Poulsen, C.J., Young, R.A, **Sweet, D.E.** and Davogustto, O.C., 2009, Anomalous cold in Pangaeen tropics: Reply to Discussion. *Geology*, p. e193-e194.
- 6) Soreghan, G.S., Soreghan, M.J., **Sweet, D.E.**, and Moore, K.D., 2009, Alluvial fan or proglacial outwash? An alternative interpretation for the proximal Cutler Formation (upper Paleozoic, Paradox Basin). *Journal of Sedimentary Research*, v. 79, p. 495-522.
- 5) Soreghan, G.S., **Sweet, D.E.**, Marra, K.R., Eble, C.F., Soreghan, M.J., Elmore, R.D., Kaplan, S.A., and Blum, M.D., 2009, An exhumed Late Paleozoic canyon in the Rocky Mountains: Reply to Discussion. *Journal of Geology*, v. 117, p. 215-220.
- 4) **Sweet, D.E.** and Soreghan, G.S., 2008, Polygonal Cracking in Coarse Clastics Records Cold Temperatures in the Equatorial Fountain Formation (Pennsylvanian-Permian, Colorado). *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 268, no. 3-4, p. 193-204.
- 3) Soreghan, G.S., Soreghan, M.J., Poulsen, C.J., Young, R.A, **Sweet, D.E.** and Davogustto, O.C., 2008, Anomalous cold in Pangaeen tropics. *Geology*, v. 36, No. 8, p. 659-662.
- 2) Moore, K.D., Soreghan, G.S. and **Sweet, D.E.**, 2008, Stratigraphic and structural relations in the proximal Cutler Formation of the Paradox Basin: Implications for the timing of movement on the Uncompahgre fault. *The Mountain Geologist*, v. 45, no. 2, p. 49-68.
- 1) Soreghan, G.S., **Sweet, D.E.**, Marra, K.R., Eble, C.F., Soreghan, M.J., Elmore, R.D., Kaplan, S.A., and Blum, M.D., 2007, An exhumed Late Paleozoic canyon in the Rocky Mountains. *Journal of Geology*, v. 115, p. 473-481.

#### Extended Abstracts

- 5) Soreghan, G.S., Soreghan, M.J. and **Sweet, D.E.**, 2009, Hypothesized glaciation in tropical Pangaea: The challenge of assessing upland glaciation. 27<sup>th</sup> International Association of Sedimentary Geology, Abstracts and Programs.
- 4) Schiappa, Tamra A., Snyder, W.S., Trexler, J.H., Davydov, V.I., and **Sweet, D.E.**, 2003, Depositional Architecture of Basins of the Upper Paleozoic Antler Foreland, Northern Pangaea: Examples from Nevada, USA. XV<sup>th</sup> International Congress on Carboniferous and Permian Stratigraphy, Abstracts and Programs, p. 468-469.
- 3) Snyder, Walter S., Schiappa, Tamra A., Trexler, James H., Cashman, P., Davydov, V.I., **Sweet, D.E.**, 2003, Permo-Carboniferous tectonostratigraphic framework for Western North America: Implications for global correlation. XV<sup>th</sup> International Congress on Carboniferous and Permian Stratigraphy, Utrecht Netherlands, Abstracts and Programs, p. 510-512.
- 2) **Sweet, D.E.** and Snyder, W.S., 2002, Middle Pennsylvanian through Early Permian Tectonically Controlled Basins: Evidence from the Central Pequop Mountains, Northeast Nevada. AAPG Hedberg Research Conference-Late Paleozoic Tectonics and Hydrocarbon Systems of Western North America—The Greater Ancestral Rocky Mountains, p. 74-77.
- 1) Snyder, W. S., Trexler, J. H., Jr., Davydov, V. I., Cashman, P., Schiappa, T. A., and **Sweet, D.E.**, 2002, Upper Paleozoic Tectonostratigraphic Framework for the Western Margin of North America. AAPG Hedberg Research Conference-Late Paleozoic Tectonics and Hydrocarbon Systems of Western North America-The Greater Ancestral Rocky Mountains, p. 58-61.



Abstracts (\*indicates student authors)

- 44) Stine, J.\* , Ferguson, J.F., Geissman, J.W., and **Sweet, D.E.**, 2017, Analysis of the variations in rock magnetic properties of the Quaternary Blackwater Draw (Eolian) Formation, West Texas. EOS transactions, AGU, Fall Meeting Supplement.
- 43) Brotherton, J.L.\* and **Sweet, D.E.**, 2017, Unroofing sequence in the Orogrande Basin: Preliminary assessment of the rate of denudation of the Pedernal uplift, southern New Mexico. GSA abstracts with Programs, v. 49, No. 6, doi: 10.1130/abs/2017AM-298615
- 42) Pevehouse, K.J.\* and **Sweet, D.E.**, 2017, Assessing the utility of well cuttings to characterize weathering profiles of crystalline basement. GSA abstracts with Programs, v. 49, No. 6, doi: 10.1130/abs/2017AM-305504
- 41) **Sweet, D.E.**, Barnes, M.A., Marshak, S., Barnes, C.G., and Rothfolk, A., 2017, Preservation of paleotopography of the granite-rhyolite province of the midcontinent, USA: A burial and exhumation history. GSA abstracts with Programs, v. 49, No. 6, doi: 10.1130/abs/2017AM-303019
- 40) Stine, J.\* , **Sweet, D.E.**, and Geissman, J.W., 2017, Rock magnetic cyclostratigraphy and magnetic polarity stratigraphy of the Quaternary Blackwater Draw Formation, west Texas. GSA abstracts with Programs, v. 49, No. 6, doi: 10.1130/abs/2017AM-305656
- 39) **Sweet, D.E.**, Stine, J.\* , and Geissman, J.W., 2017, The effect of the mid-Pleistocene transition on the character of sedimentation on the southern high plains. GSA abstracts with Programs, v. 49, No. 6, doi: 10.1130/abs/2017AM-298799
- 38) Friedman, E. T.\* and **Sweet, D.E.**, 2016, Preliminary Results: Comparing siliciclastic content of ramp to rimmed carbonate slope deposits during relative sea level highstands. GSA Abstracts with Programs, v. 48, no. 7.
- 37) Pattat, A.N.\* and **Sweet, D.E.**, 2016, Assessing post-Miocene tilting of the southern High Plains through paleoslope reconstructions of the Ogallala Formation. GSA Abstracts with Programs, v. 48, no. 7.
- 36) Frederick, P.A. Jr.\* , **Sweet, D.E.**, and Rohr, D.M., 2016, Facies analysis and age relationships of Late Devonian-Middle Pennsylvanian carbonates of the southern Alexander Terrane, SE Alaska. GSA Abstracts with Programs, v. 48, no. 7.
- 35) Chowdhury, Nur Uddin Md. Khaled\* and **Sweet, D.E.**, 2016, Constructing a subsidence model for the eastern portion of the Taos trough through correlation of backstripped geohistory curves. GSA Abstracts with Programs, v. 48, no. 7.
- 34) Pike, J. Daniel\* and **Sweet, D.E.**, 2016, Cyclicity, dune migration and wind velocity in lower Permian eolian strata, Manitou Springs, Colorado. GSA Abstracts with Programs, v. 48, no. 7.
- 33) Garcia, J.\* and **Sweet, D.E.**, 2016, Reconstructing the evolution of the Midland Basin with chronostratigraphic surfaces derived from fusulinid biostratigraphy. GSA Abstracts with Programs, v. 48, no. 7.
- 32) **Sweet, D.E.**, 2016, Subsidence analysis and sedimentology indicates a wrench basin for the western portion of the Taos trough. GSA Abstracts with Programs, v. 48, no. 7.
- 31) **Sweet, D.E.**, 2016, Fine-grained debris flows in a coarse-grained alluvial system: paleoenvironmental implications of the Fountain and Cutler Formations, Colorado. GSA Abstracts with Programs, v. 48, no. 7.
- 30) Garcia, J.\* and **Sweet, D.E.**, 2016, Late Paleozoic evolution of west Texas revealed through fossils. National ESRI user conference. San Diego, California.

- 29) Garcia, J.\* and **Sweet, D.E.**, 2016, Using Fusulinid Biostratigraphy to reconstruct Pennsylvanian-Early Permian History of the Midland Basin. Southwest Section-American Association of Petroleum Geologists, Annual Meeting. Abilene, Texas.
- 28) Sweet, D.E.**, 2015, PABZT: Permian Basin Archival of Biostratigraphic Tops. West Texas Geological Society, Fall Symposium: The Permian basin: Past, Present, and Future.
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- 19) **Sweet, D.E.**, 2013, Load-induced subsidence model of the core Ancestral Rocky Mountains: The hypothesis and preliminary tests. GSA Abstracts with Programs, v. 45, no. 3., pp. 67.
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- 15) Soreghan, G.S. and **Sweet, D.E.**, 2010, Evidence for Upland Glaciation in Western Tropical Pangaea
- 14) **Sweet, D.E.** and Soreghan, G.S., 2009, Magnitude of early Pennsylvanian (Morrow-Atokan) eustatic change: Constraints from a fan-delta setting. AAPG Annual Meeting—Programs with Abstracts.
- 13) Soreghan, G.S., Soreghan, M.J., Hamilton, M.A. and **Sweet, D.E.**, 2008, Ice, dust and cold in the Late Paleozoic tropics. AAPG Annual Meeting—Programs with Abstracts.
- 12) **Sweet, D.E.** and Soreghan, G.S., 2007, SEM textures of quartz from the upper Paleozoic Fountain Formation (Manitou Springs, Colorado) suggest a possible glacial influence on sedimentation. GSA Abstracts with Programs, v. 39, no. 6.

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- 10) **Sweet, D.E.** and Soreghan, G.S., 2005, Periglacial Features in the Paleoequatorial Fountain Formation (Permo-Pennsylvanian, Colorado)?. Eos Transactions, AGU, 86(52), Fall Meeting Supplement, PP11B-1466.
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- 7) Kaplan, S.A., Soreghan, G.S., **Sweet, D.E.**, and Blum, M.D., 2005, The History of the Ancestral Gunnison River Through Western Unaweep Canyon and Gateway (Colorado). GSA Abstracts with Programs, v. 37, no. 5.
- 6) Soreghan, G.S., Marra, K.R., **Sweet, D.E.**, Eble, C.F., and Soreghan, M.J., 2005, Preliminary Results of Deep Drilling in Western Unaweep Canyon (Colorado): A Paleozoic to Cenozoic History Revealed. GSA Abstracts with Programs, v. 37, no. 5.
- 5) **Sweet, D.E.** et al., 2004, Style and Spatial Distribution of the C5 Unconformity (Desmoinesian) in Eastern Nevada: Implications for the Destruction of the Ely Basin and Initiation of the Hogan Basin. GSA Abstracts with Programs, v. 36, no. 5.
- 4) **Sweet, D.E.**, Snyder, Walter S., Trexler, J.H. Jr., 2002, Middle Pennsylvanian through Early Permian Regional Tectonic Unconformities in Northeastern and Eastern Nevada. GSA Abstracts with Programs, v. 34, no. 6.
- 3) Elias, E., **Sweet, D.E.**, and Northrup, C.J., 2002, Structural Analysis of the Variscan Nappe Zone, Porto Corallo, Sardinia, Italy: GSA Abstracts with Programs, v. 34, no. 6.
- 2) **Sweet, D.E.**, Snyder, W.S., Davydov, V.I., Trexler, J.H.Jr., and Groves, J.R., 2001, Upper Paleozoic Tectonic Unconformities in the Central Pequop Mountains, Nevada. GSA Abstracts with Programs, v. 33, no. 5, P47.
- 1) **Sweet, D.E.**, 2000, A Jurassic Sedimentary Sequence in the Izee Terrane of West-Central, Idaho. GSA Abstracts with Programs, v. 32, no. 5, p. A40.

### Invited Presentations

- 7) **Sweet, D.E.**, (Invited Talk), Luncheon Keynote Speaker, PBS-SEPM, Midland, TX, "PABZT: Permian Basin Archival of Biostratigraphic Tops" (January 17, 2017).
- 6) **Sweet, D.E.**, (Invited Talk), Department Seminar, New Mexico State University, Las Cruces, NM, "TBD" (November 2, 2016).
- 5) **Sweet, D.E.**, (Invited Talk), Subsidence analysis and sedimentology indicates a wrench basin for the western portion of the Taos trough. Geological Society of America National Meeting, September 2016.
- 4) **Sweet, D.E.** (Invited Talk), University Seminar, University of Guyana, Georgetown, Guyana, "Pleistocene climatic conditions archived in paleosols of the Southern High Plains" (August 2, 2016)
- 3) **Sweet, D.E.** (Invited Talk), Climate Science Center, Texas Tech University, Lubbock, TX, "Pleistocene climatic conditions archived in paleosols of the Southern High Plains" (March 3, 2015).
- 2) **Sweet, D.E.** (Invited Talk), Department Seminar, University of Texas-Dallas, Richardson, TX, "The

Ancestral Rocky Mountains: New Perspectives on an Enigmatic Orogenic Event," (October 18, 2013).

- 1) **Sweet, D.E.** (Invited Talk), Luncheon Keynote Speaker, PBS-SEPM, Midland, TX, "The Ancestral Rocky Mountains: New Perspectives on an Enigmatic Orogenic Event," (April 16, 2013).

### **Scientific Reviews**

#### Manuscripts

Geomicrobiology (n=1), Canadian Journal of Earth Sciences (n=1), Geosciences (n=1), Sedimentary Geology (n=1), Journal of Geology (n=1), Journal of Sedimentary Research (n=1), Tectonics (n=1), Polish Polar Research (n=1), Earth Surface Processes and Landforms (n=1), Geografiska Annaler (n=1), The Journal of Scanning Microscopies (n=1), Texas Bureau of Economic Geology (n=1), Palaeogeography, Palaeoclimatology, Palaeoecology (n = 1)

#### Proposals

External Entity Proposals (n=2), National Science Foundation Proposals (n=2)