

Peter P. Flaig

Research Associate Professor

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Appointments

2023-Present	Research Associate Professor , Bureau of Economic Geology, The University of Texas at Austin
2019-2023	Research Scientist , Bureau of Economic Geology, The University of Texas at Austin
2011-2019	Research Associate , Bureau of Economic Geology, The University of Texas at Austin
2017-present	Affiliate Faculty , University of Alaska Fairbanks
2009-2011	Postdoctoral Fellow , Bureau of Economic Geology, The University of Texas at Austin
2005-2009	Research and Teaching Assistant , University of Alaska-Fairbanks
2002-2005	Research and Teaching Assistant , University of Wisconsin-Milwaukee

Education

2010	University of Alaska-Fairbanks: PhD in Geology, Department of Geosciences
2005	University of Wisconsin-Milwaukee: Master of Science in Geology
2002	University of Wisconsin-Milwaukee: Bachelor of Science in Geology
2002	University of Wisconsin-Milwaukee: Minor, Geography

Publications

Peer-Reviewed Manuscripts: in Review, Revision, Proofing:

van der Kolk, D.A., Flaig, P.P., and Hasiotis, S.T., (in review), Evolution of a high-latitude, river-dominated delta: The Upper Cretaceous Schrader Bluff Formation, Shivugak Bluffs, Arctic Alaska: *Sedimentary Geology*

Flaig, P. P., Garcia, K. L., Denison, C., Demchuk, T. D., Spangenberg, J., Campion, N., Adatte, T., van der Kolk, D.A., Castelltort, S., and Moscardelli, L., (in review), Regional significance of new evidence for a Paleocene–Eocene Thermal Maximum outcrop in Bastrop County, Texas, USA: *GSA Today*

Hattori, K., E., Flaig, P.P., and Wahlman, G. P., (in review), A new model for the spatial-temporal evolution of a heterogeneous mixed carbonate-siliciclastic icehouse system: Pennsylvanian Strawn Group, Eastern Shelf of the Permian Basin, Texas, USA, *Sedimentologica*

Peer-Reviewed Manuscripts: Published:

38. Lorente, M.A., Noto, C., and Flaig, P.P., 2025, A glimpse into the Cenomanian palynology of the Arlington Archosaur Site, Texas, USA. *Palynology*, <https://doi.org/10.1080/01916122.2024.2441667>
37. Noto, C. R., Flaig, P. P., & Lorente, M. A., 2025, Multiproxy synthesis at the Arlington Archosaur Site: New insights into Cretaceous paralic paleoenvironments and regional stratigraphy, Woodbine Group, Texas, USA. *Sedimentologica*, 3(1), 1-24. <https://doi.org/10.57035/journals/sdk.2025.e31.1435>
36. Jensen, J.L., Flaig, P.P., and Hattori, K.E., 2024, The effects of facies variability and bioturbation intensity on permeability in a mixed siliciclastic-carbonate core from the Upper Strawn Group, Katz Field, Stonewall County, Texas: *Geosciences*, v. 1, no.12, 339, <https://doi.org/10.3390/geosciences14120339>
35. Speed, C.M., Sylvester, Z., Durkin, P.R., and Flaig, P.P., 2024, 3D anatomy of a Cretaceous river avulsion, *Geology*: <https://doi.org/10.1130/G52254.1>
34. Andrzejewski, K., Ludvigson, G., Suarez, M., McCarthy, P., and Flaig, P., 2023, Exploring the deuterium excess of Cretaceous Arctic paleoprecipitation using stable isotope composition of clay minerals from the Prince Creek Formation (Maastrichtian) in northern Alaska, *Geosciences*, v.13, no. 9, 273; <https://doi.org/10.3390/geosciences13090273>
33. Sharman, G., Covault, J., Flaig, P.P., Fussee-Durham, P., Larson, T., Shanahan, T., and Shaw, J., 2023, Coastal response to global warming during the Paleocene-Eocene Thermal Maximum, *Palaeogeography, Palaeoclimatology, Palaeoecology*, <https://doi.org/10.1016/j.palaeo.2023.111664>
32. Calle, A.Z., Horton, B.K., Garcia, R., Anderson, R.B., Stockli, D.F., Flaig, P.P., and Long, S.P., 2023, Sediment dispersal and basin evolution during contrasting tectonic regimes along the western Gondwanan margin in the central Andes: *Journal of South American Earth Science*, <https://doi.org/10.1016/j.jsames.2023.104286>
31. Flaig, P.P., Denison, C.N., Ambrose, W.A., and Demchuk, T.D., 2022, Outcrop evidence for variations in channel-floodplain facies and stratal architectures across the Simsboro to Calvert Bluff transition, Wilcox Group, Butler, Texas: *GCAGS Journal*, v. 11, p. 83-103.
30. Buntin, R.C.C. II, Hasiotis, S.T., and Flaig, P.P., 2022, Evaluating the ichnofossil *Teredolites* as an indicator of salinity and paleoenvironment: *PALAIOS*, v. 37, p. 53-72, <http://dx.doi.org/10.2110/palo.2020.074>
29. Roberts, A.K., Ambrose, W.A., Flaig, P.P., Steel, R.J., and Olariu, C., 2022, Controls on facies variability and distribution during the Pennsylvanian glacial period from the Lower Strawn Group, Fort Worth Basin, TX: *The American Association of Petroleum Geologists Bulletin*, v. 106, no. 8, p. 1679-1702, <http://doi.org/10.1306/02072221057>
28. Burnham, B.S., Flaig, P.P., Brice, R., Young, M., and Spagnolo, M., 2022, Rapid sediment re-deposition may limit carbon release during catastrophic thermokarst lake drainage: *GSA Today*, v. 32, no.5, p. 60-61, <https://doi.org/10.1130/GSATG529GW.1>
27. Burnham, B.S., Bond, C.E., Flaig, P.P., van der Kolk, D.A., and Hodgetts, D., 2022, Outcrop conservation: Promoting accessibility, inclusivity and reproducibility through digital preservation: *The Sedimentary Record*, v. 20, p. 5-14, <https://doi.org/10.2110/sedred.2022.1.2>.

26. Ludvigson, G.A., Dieffendorf, A.F., Suarez, M.A., Gonzalez, L.A., Corcoran, M.C., Schlanser, K., Flaig, P.P., McCarthy, P.J., van der Kolk, D.A., Houseknecht, D., and Sanders, M., 2022, Stable isotope tracers of Cretaceous Arctic paleoprecipitation: *Geosciences, Special Issue - Terrestrial Paleoclimatology and Paleohydrology of the Cretaceous Greenhouse World*, v. 12, 143; 1-17 <https://doi.org/10.3390/geosciences12040143>.
25. Sharman, G.R., Stockli, D.F., Flaig, P.P., Reynolds, R.G., Dechesne, M., and Covault, J.A., 2022, Tectonic influence on axial-transverse sediment routing in the Denver Basin, in Craddock, J.P., Malone, D.H., Foreman, B.Z., and Konstantinou, A., eds., Tectonic Evolution of the Sevier-Laramide Hinterland, Thrust Belt, and Foreland, and Postorogenic Slab Rollback (180–20 Ma): *Geological Society of America Special Paper* 555, p. 293–311, [https://doi.org/10.1130/2021.2555\(11\)](https://doi.org/10.1130/2021.2555(11))
24. Bonelli, J.R., and Flaig, P.P., 2021, Quantitative biofacies analysis to identify relationships and refine evolutionary controls for paleosol development, Prince Creek Formation, North Slope, Alaska, USA: *Geosciences, Special Issue -Terrestrial Paleoclimatology and Paleohydrology of the Cretaceous Greenhouse World*, 11, 460; 1-21 <https://doi.org/10.3390/geosciences11110460>
23. Zhang, J., Flaig, P.P., Wartes, M., Aschoff, J., and Shuster, M., 2021, Integrating stratigraphic forward modelling, inversion analysis, and shelf-margin records to guide provenance analysis: An example from the Cretaceous Colville Basin, Arctic Alaska: *Basin Research*, v. 33, p. 1954-1966, DOI: <https://doi.org/10.1111/bre.1254>.
22. Senger, K., Betlem, P., Birchall, T., Buckley, S.J., Coakley, B.J., Eide, C.H., Flaig, P.P., Forien, M., Galland, O., Gonzaga, L., Jensen, M., Kurz, T., Leconte, I., Mair, K., Malm, R. H., Malm, R.H., Mulrooney, M.J., Naumann, N., Nordmo, I., Nolde, N., Ogata, K., Rabbal, O., Schaff, N.W., and Smyrak-Sikora, A., 2021, Using virtual outcrops to make the high Arctic more accessible through the Svalbox Database: *Journal of Geoscience Education*, v. 69, no. 2, p. 123-137, DOI: [10.1080/10899995.2020.1813865](https://doi.org/10.1080/10899995.2020.1813865).
21. Ambrose, W.A., Flaig, P.P., Zhang, J., Olariu, M.I., Denison, C., Demchuk, T., and O’Keefe, J.O., 2020, The Midway to Carrizo succession in the southeastern Texas Gulf Coast: Evolution of a tidally-influenced coastline: *Gulf Coast Association of Geological Societies Journal*, v. 9, p. 41-75.
20. Chiarenza, A.A., Fiorillo, A.R., Tykoski, R.S., McCarthy, P.J., Flaig, P.P., and Conteras, D.L., 2020, The first juvenile dromaeosaurid (Dinosauria, Theropoda) from Arctic Alaska: *PLoS ONE*, v. 15, no. 7, e0235078. <https://doi.org/10.1371/journal.pone.0235078>.
19. Flaig, P.P., Hasiotis, S.T., Prather, T.J., and Burton, D., 2019, Characteristics of a Campanian delta deposit controlled by alternating river-floods and tides: The Loyd Sandstone, Rangely Anticline, Colorado, U.S.A.: *Journal of Sedimentary Research*, v. 89, p. 1181-1206, <https://doi.org/10.2110/jsr.2019.63>.
18. Sharman, G.R., Stockli, D.F., Flaig, P.P., Reynolds, R.G., and Covault, J.A., 2018, Local-to-distant provenance cyclicity of the southern Front Range, central Colorado: Insights from detrital zircon geochronology, in Ingersoll, R.V., Lawton, T.F., and Graham, S.A., eds., Tectonics, Sedimentary Basins, and Provenance: A Celebration of William R. Dickinson’s Career: *Geological Society of America Special Paper* 540, p. 547-569, [https://doi.org/10.1130/2018.2540\(24\)](https://doi.org/10.1130/2018.2540(24)).
17. Flaig, P.P., Hasiotis, S.T., and Fiorillo, A.R., 2018, A paleopolar dinosaur track site in the Cretaceous (Maastrichtian) Prince Creek Formation of Arctic Alaska: Track characteristics and probable trackmakers: *Ichnos*, v. 25, p. 208-220, [http://doi.org/10.1080/10420940.2017.1337011](https://doi.org/10.1080/10420940.2017.1337011).
16. Burton, D., Flaig, P.P., and Prather, T.J., 2016, Regional controls on depositional trends in tidally modified deltas: Insights from sequence stratigraphic correlation and mapping of the Loyd and Sego

Sandstones, Uinta and Piceance Basins of Utah and Colorado, U.S.A.: *Journal of Sedimentary Research*, v. 86, p. 763–785, <http://doi.org/10.2110/jsr.2016.48>.

15. Flaig, P.P., Hasiotis, S.T., and Jackson, A.M., 2016, An Early Permian, paleopolar, postglacial, river-dominated deltaic succession in the Mackellar–Fairchild formations at Turnabout Ridge, Central Transantarctic Mountains, Antarctica: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 441, no. 2, p. 241–265, <http://doi.org/10.1016/j.palaeo.2015.08.004>.

14. Jackson, A.M., Hasiotis, S.T., and Flaig, P.P., 2016, Ichnology of a paleopolar, river-dominated, shallow marine deltaic succession in the Mackellar Sea: the Mackellar Formation (Lower Permian), Central Transantarctic Mountains, Antarctica: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 441, p. 266–291, <http://doi.org/10.1016/j.palaeo.2015.07.010>.

13. Suarez, C.A., Flaig, P.P., Ludvigson, G.A., Gonzalez, L.A., Tian, R., Zhou, H., McCarthy, P.J., van der Kolk, D.A., and Fiorillo, A.R., 2016, Reconstructing the paleohydrology of a Cretaceous Alaskan paleopolar coastal plain from stable isotopes of bivalves: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 441, no. 2, p. 339–351, <http://doi.org/10.1016/j.palaeo.2015.07.025>.

12. Fiorillo, A.R., McCarthy, P.P., and Flaig, P.P., 2016, A multi-disciplinary perspective on habitat preferences among dinosaurs in a Cretaceous Arctic greenhouse world, North Slope, Alaska (Prince Creek Formation: lower Maastrichtian): *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 441, no. 2, p. 377–389, <http://doi.org/10.1016/j.palaeo.2015.07.024>.

11. van der Kolk, D.A., Flaig, P.P., and Hasiotis, S.T., 2015, Paleoenvironmental reconstruction of a Late Cretaceous, muddy, river-dominated polar deltaic system: Schrader Bluff - Prince Creek Formation transition, Shivugak Bluffs, North Slope of Alaska, U.S.A.: *Journal of Sedimentary Research*, v. 85, p. 903–936, <http://doi.org/10.2110/jsr.2015.58>.

10. Flaig, P.P., Fiorillo, A.R., and McCarthy, P.J., 2014, Dinosaur-bearing hyperconcentrated flows of Cretaceous Arctic Alaska: Recurring catastrophic event beds on a distal paleopolar coastal plain: *PALAIOS*, v. 29, p. 594–611, <http://doi.org/10.2110/palo.2013.133>.

9. Hudock, J.W., Flaig, P.P., and Wood, L.J., 2014, Washover fans: a modern geomorphologic analysis and proposed classification scheme to improve reservoir models: *Journal of Sedimentary Research*, v. 84, no. 10, p. 854–865, <http://doi.org/10.2110/jsr.2014.64>.

8. Flaig, P.P., McCarthy, P.J., and Fiorillo, A.R., 2013, Anatomy, evolution, and paleoenvironmental interpretation of an ancient arctic coastal plain: Integrated paleopedology and palynology from the upper Cretaceous (Maastrichtian) Prince Creek Formation, North Slope, Alaska, USA: in Driese, S.G. and Nordt, L.C., eds.: *New Frontiers in Paleopedology and Terrestrial Paleoclimatology, Paleosols and Soil Surface Analogue Systems*, *SEPM Special Publication No. 114*, p. 179–230.

7. Suarez, C., Ludvigson, G., Gonzalez, L.A., Fiorillo, A.R., Flaig, P.P., and McCarthy, P.J., 2013, Use of multiple oxygen isotope proxies for elucidating Arctic Cretaceous palaeo-hydrology, in Bojar, A.V., Melinte-Dobrinescu, M.C., and Smit, J., eds., *Isotopic Studies in Cretaceous Research*, *Geological Society of London, Special Publication 382*, p. 185–202, <http://doi.org/10.1144/SP382.3>.

6. Gulbranson, E.L., Isbell, J.L., Taylor, E.L., Ryberg, P., Taylor, T. N., and Flaig, P.P., 2012, Permian polar forests: deciduous and environmental variation: *Geobiology*, v. 10, p. 479–495, <https://doi.org/10.1111/j.1472-4669.2012.00338.x>.

5. Burton, D., Dunlap, D.B., Wood, L.J., and Flaig, P.P., 2011, Lidar intensity as a remote sensor of rock properties: *Journal of Sedimentary Research*, v. 81, p. 339–347, <https://doi.org/10.2110/jsr.2011.31>.

4. Flaig, P.P., McCarthy, P.J., and Fiorillo, A.R., 2011, A tidally influenced, high-latitude coastal-plain: the Upper Cretaceous (Maastrichtian) Prince Creek Formation, North Slope, Alaska, in Davidson, S.,

Leleu, S., and North, C. eds., From river to rock record: the preservation of fluvial sediments and their subsequent Interpretation: **SEPM Special Publication 97**, p. 233–264.

3. Fiorillo, A.R., McCarthy, P.J., and Flaig, P.P., 2010, Taphonomic and sedimentologic interpretations of the dinosaur-bearing Upper Cretaceous strata of the Prince Creek Formation, northern Alaska: insights from an ancient high-latitude terrestrial ecosystem: **Palaeogeography, Palaeoclimatology, Palaeoecology**, v. 295, p. 376–388, <https://doi.org/10.1016/j.palaeo.2010.02.029>.

2. Fiorillo, A.R., McCarthy, P.J., Flaig, P.P., Brandlen, E., Norton, D., Jacobs, L., Zippi, P., and Gangloff, R.A., 2010, Paleontology and paleoenvironmental interpretation of the Kikak-Tegoseak Dinosaur Quarry, (Prince Creek Formation: Late Cretaceous), Northern Alaska: a multi-disciplinary study of an ancient high-latitude, Ceratopsian Dinosaur Bonebed, in Ryan, M.J., Chinner-Algeier, B.J., and Eberth, D.A., eds., **New perspectives on horned dinosaurs: The Royall Tyrell Museum Ceratopsian Symposium**: Bloomington, Indiana, Indiana University Press, p. 456–477.

1. Fiorillo, A.R., Tykoski, R., Currie, P., McCarthy, P.J., and Flaig, P.P., 2009, Description of two partial Troodon braincases from the Prince Creek Formation (Upper Cretaceous) North Slope, Alaska: **Journal of Vertebrate Paleontology**, v. 29, p. 178–187, <https://www.jstor.org/stable/20491077>.

Peer-reviewed State Reports

Flaig, P.P., and van der Kolk, D.A., 2015, Depositional environments of the Prince Creek Formation along the east side of the Toolik River, Sagavanirktok Quadrangle, North Slope, Alaska: **Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2015-4**, 17 p., 1 sheet. <http://doi.org/10.14509/29407>.

Online Databases

Lorente, M.A., Noto, C., and Flaig, P.P., 2023, A glimpse into the Cenomanian: Palynology of the Arlington Archosaur Site, Late Cretaceous Western Interior Seaway, Texas, USA: BioRxiv, <https://doi.org/10.1101/2023.12.04.569281>

Field Guidebooks

Flaig, P.P., and Denison, C., 2024, The Sabinetown-Carrizo Wilcox succession in Bastrop, TX: Facies, stratal architectures, palynology, isotopes, paleoenvironmental evolution, and regional correlations, BEG-STARR Field Guidebook, 61p.

Denison, C., and Flaig, P.P., 2021, Paleocene-Eocene stratigraphy and paleontology of central Texas: Wilcox Group and Claiborne Group, 28 p.

Flaig, P.P., Armitage, D., and Derewetzky, A., 2019, Deltaic-paralic systems of the Cretaceous Interior Seaway: Sedimentology, ichnology, stratal architectures, and controls: 5 day field course, 86 p.

Wroblewski, A., Hasiotis, S., and Flaig, P., 2019, Sedimentology and ichnology of fluvial and shallow-marine sedimentary environments: AAPG Annual Meeting and Exhibition, San Antonio, Texas, 2 day field course, 78 p.

Raney, J., and Flaig, P.P., 2015, Guidebook for Rocky Mountain Geoscience (12th Grade GeoFORCE) Field Trip in Utah, Wyoming, and Montana, 1 week field course, 91p.

Flaig, P.P., van der Kolk, D.A., and Wood, L.J., 2014, Wave, tide, and river-dominated systems of the Cretaceous Western Interior Seaway: the Kenilworth and Grassy members of the Blackhawk, the Sego,

and the Loyd Formations, eastern Utah and northwestern Colorado: The University of Texas at Austin, Bureau of Economic Geology, Quantitative Clastics Laboratory, 2 day field course, 131 p.

Wood, L.J., and Flaig, P.P., 2013, Transgressive systems tract reservoirs of the San Juan Basin, Northwest New Mexico: The University of Texas at Austin, Bureau of Economic Geology, Quantitative Clastics Laboratory, 3 day field course, 69 p.

Wood, L.J., Flaig, P.P., and Burton, D., 2012, Along-strike variability of a tidal shoreline system: Castlegate to Neslen formations, northwestern Colorado to southwestern Wyoming: The University of Texas at Austin, Bureau of Economic Geology, Quantitative Clastics Laboratory, 2 day field course, 19 p.

Wood, L.J., Flaig, P.P., Burton, D., and Brame, J., 2011, Tide and wave-influenced shoreline reservoirs of the San Juan Basin, northwest New Mexico and southern Colorado, U.S.A.: The University of Texas at Austin, Bureau of Economic Geology, Quantitative Clastics Laboratory, 2 day field course, 78 p.

Workshop Workbooks

Olariu, M. I., Peter Flaig, William Ambrose, Nikhil Sharma, Vann Smith, Maria A. Lorente, Jerry Jensen, Lorena Moscardelli, Chris Denison and Thomas Demchuk, 2024, Sedimentology, palynology, and geochemistry of the Wilcox Group: Insights into depositional system evolution, biostratigraphy, paleoclimate, and reservoir characterization: Bureau of Economic Geology, Core Workshop Guidebook, 88 p.

Olariu, I., Flaig, P.P., Garcia, K., Olariu, C., Hessler, A., Sivil, E., Smith, V., Lorente, M.A. Moscardelli, L. Denison, C., and Demchuk, T., 2023, Wilcox Group Recent Sedimentologic, Biostratigraphic and Chemostratigraphic Insights: Implications for Stratigraphic Correlations, Depositional Trends, Paleoclimate and the Exploitation of Energy Resources in Texas.

Flaig, P.P., Hattori, K., Ambrose, W., Fu, Q., Dejarnett, B., Ko, L., Radjef, E., Carr, D., Hasiotis, S.T., Ogiesoba, C., and Moscardelli, L., 2021, Mixed carbonate-siliciclastic reservoir systems of the Strawn Group: focus – Upper Strawn, King and Stonewall counties, Texas, 94 p.

Flaig, P.P., and Sharman, G., 2017, U.S. Gulf Coast depositional systems at the Paleocene-Eocene transition, Wilcox Group core, Leon and Anderson County, Texas,

Flaig, P.P., and Sharman, G., 2016, Mixed tidally influenced fluvial and shallow-marine deposits of the Wilcox Formation: The Letco TOH-2AO Well, Leon County, Texas,

Flaig, P.P., Hasiotis, S.T., and Vallega, V., 2015, Facies, ichnology, and paleoenvironmental interpretation of the CB Long C-16 & Orsborn #7 core, Eastern Shelf of the Permian-Midland Basin, Texas.

Industry Contract Reports

Shuster, M.W., Flaig, P.P., Ko, L., Sabbagh, R., Eastwood, R., Duffy, O., McDaid, G., Yurchenko, I., Aschoff, J., Wartes, M., Zhang, J., and Lampe, C., 2020, Alaska, North Slope Upper Brookian Stratigraphy, Regional Petroleum Systems, and Fault Analyses: University of Texas at Austin, Bureau of Economic Geology, 213 p.

Shuster, M.W., Flaig, P.P., McDaid, G., Sabbagh, R., Yurchenko, I., LePain, D. L., Aschoff, J., Wartes, M., McCarthy, P.J., Zahm, C. K., and Zhang, 2019, Alaska, North Slope synthesis: Assessment of stratigraphy, reservoirs, and petroleum systems: University of Texas at Austin, Bureau of Economic Geology, 267 p.

Flaig, P.P., van der Kolk, D.A., and Hasiotis, S.T., 2012, A high-latitude shoreface to coastal-plain transition: The Schrader Bluff and Prince Creek Formations at Shivugak and Uluksrak Bluffs, Colville River, North Slope, Alaska, 97 p.

Dissertation and Thesis

Flaig, P.P., 2010, Depositional environments of the Late Cretaceous (Maastrichtian) dinosaur-bearing Prince Creek Formation: Colville River region, North Slope, Alaska, PhD Dissertation, The University of Alaska-Fairbanks, 311 p.

Flaig, P.P., 2005, Changing fluvial style across the Permian-Triassic boundary, Beardmore Glacier Region, Central Transantarctic Mountains, Antarctica: MSc. Thesis, The University of Wisconsin-Milwaukee, 288 p.

Teaching Experience

Post-PhD

Instructor (2023, 2025), UT Austin Summer Field Camp GEO660: Sedimentology/Stratigraphy Module, Book Cliffs, UT.

Co-leader, University of Wisconsin-Milwaukee (2020), 2 week sedimentology field course: Distributive fluvial, deltaic, coastal, and shelfal systems of the Cretaceous Western Interior Seaway, UT-CO. (Cancelled-Suspended due to Covid-19)

Instructor, GeoFORCE Texas (2010-2020), UT Austin, 10th grade academy: Southwestern United States and the Grand Canyon, 1 week field course.

Co-leader, Texas State University (2016-2019), Physical Geology, Historical Geology, and Sedimentology 1-Day Field Course: Geology and paleoenvironments of the Wilcox Formation in outcrops, Bastrop, Texas.

Co-leader, Texas State University (2017-present), Historical Geology, and Sedimentology 1-Day Field Course: Geology, ichnology, and depositional systems of the Glenn Rose Formation.

Instructor (2013-2016), UT Austin Summer Field Geology Course GEO660: Sedimentology Module, Book Cliffs and Rock Springs Uplift, CO, UT, WY.

Instructor, GeoFORCE Texas (2015), UT Austin, 12th Grade Academy: Rocky Mountains of Utah, Wyoming, and Montana.

Instructor, GeoFORCE Alaska (2012), University of Alaska-Fairbanks, 9th Grade Academy: Geology of Denali National Park, the Anchorage area, and Matanuska Glacier.

Pre-PhD

Teaching Assistant (2008), University of Alaska-Fairbanks: Sedimentology

Teaching Assistant (2008), University of Alaska-Fairbanks: The History of Life and Earth

Teaching Assistant (2006), University of Wisconsin-Milwaukee: The Dynamic Earth

Teaching Assistant (2002-2005), University of Wisconsin-Milwaukee: Introduction to the Earth

Teaching Assistant (2005), University of Wisconsin-Milwaukee: Earth Science for Teachers

Field Trip Leadership

Co-Leader, A Survey of the Wilcox Group from Integrated Core, Wireline, and Outcrop Studies: 1 day Field Course, September, 2021.

Co-Leader, Deltaic-paralic systems of the Cretaceous Western Interior Seaway: Sedimentology, ichnology, stratal architectures, and controls: 5 Day Field Course, September, 2019.

Co-Leader, Fluvial and coastal clastic sedimentology and ichnology in modern environments and core, Galveston, Texas, (SEPM), AAPG Annual Meeting and Exhibition, Houston, Texas, April 1-2, 2017 and AAPG Annual Meeting and Exhibition, San Antonio, Texas, May 17-18, 2019

Co-Leader, Wave, tide, and river-dominated systems of the Cretaceous Western Interior Seaway: The Kenilworth and Grassy Members of the Blackhawk, the Sego, and the Loyd Formations, eastern Utah and northwestern Colorado, Quantitative Clastics Laboratory, Bureau of Economic Geology, September 2014.

Co-Leader, Transgressive systems tract reservoirs of the San Juan Basin, northwest New Mexico, Quantitative Clastics Laboratory, Bureau of Economic Geology, September 2013.

Co-Leader, Along-strike variability of a tidal shoreline system: Castlegate to Neslen Formations, northwestern Colorado to southwestern Wyoming, Quantitative Clastics Laboratory, Bureau of Economic Geology, September 2012.

Co-Leader, Tide and wave-influenced shoreline reservoirs of the San Juan Basin, northwest New Mexico and southern Colorado, U.S.A, Quantitative Clastics Laboratory, Bureau of Economic Geology, September 1-2, 2011.

Co-Leader, Brookian reservoirs of the North Slope, Alaska with a focus on the Campanian to Paleocene, FEX-Talisman Energy, Alaska, July 11-13, 2008.

Research Supervision

Postdoctoral Co-supervisor

Nikhil Sharma (2023-2025): Geochemical signatures in the Wilcox Group, TX

Frits Palacios (2023-2025) Strawn-Cisco Groups, Current position Postdoctoral Fellow, Bureau of Economic Geology, UT-Austin

Glenn Sharman, (September 2017-May 2018). PETM, Current position Associate Professor, University of Arkansas

Committee Chair (Primary Supervisor*)

*MSc Committee, Isabel Johnson (September 2024 - present): An outcrop analog for the mixed carbonate-siliclastics of the Strawn Group along the Eastern Shelf of the Permian Basin: The Bug Scuffle, Sacramento Mountains, New Mexico.

*MSc Committee, Katherine Garcia, UT Austin, (September 2021 – May 2023): Sedimentologic, stratigraphic, biostratigraphic, and isotopic characteristics of deposits of the Wilcox and Claiborne groups that cross the Paleocene-Eocene thermal Maximum, southeast Texas

*MSc Committee, Keri Belcher, UT Austin, (September 2016 – May 2019): Sedimentology, ichnology, architecture, and subsurface correlation of a detached shelf sand: The Blair Sandstone (Cretaceous), Rock Springs Uplift, Wyoming.

*MSc Committee, Ashlyn Murphy, UT Austin, (September 2015 – August 2017): Paleoenvironmental reconstruction of a heterogeneous, tidally influenced reservoir analogue: The Neslen Formation near Harley Dome, Utah.

*MSc Committee, Rebecca Jones, UT Austin, (September 2014 – August 2016): Comparative paleoenvironmental and architectural analyses of the Anchor Mine Tongue to Upper Sego interval along the Book Cliffs of Utah and the Rangeley Anticline of Colorado.

*MSc Committee, Timothy Prather, UT Austin, (September 2014 – May 2016): Identifying the nature and extent of the Loyd Sandstone Member of the Mancos Shale in the Rangeley area of Colorado.

MSc Committee, Jessica Hudock, UT Austin, (September 2011 – December 2013): Barrier island associated washover fan and flood tidal delta systems: a geomorphologic analysis and proposed classification scheme for modern washover fans and examination of a flood tidal delta complex in the Cretaceous Upper McMurray Formation, Alberta, Canada.

Committee Member

PhD Committee, Margaret Murakami, UT Austin, (January 2024- – present):

PhD Committee, Kristina Butler, UT Austin, (November 2017 – 2023): Partitioning of the Andean Retroarc Foreland basin during Cretaceous-Paleogene flat-slab subduction in northern Patagonia, Argentina: Stratigraphic architecture, provenance, and sediment routing.

PhD Committee, Cole Speed, UT Austin, (September 2018 – 2024) Outcrop analysis and modeling of 3D fluvial channel systems of the Cedar Mountain and Morrison Formations, Utah.

PhD Committee, Thomas Capaldi, UT Austin, (September 2015 – May 2018): Cenozoic provenance, paleodrainage, and foreland basin evolution during a shift to flat-slab subduction in the southern Andes, Argentina.

MSc Committee, Emily Beckham, UT Austin, (September 2016 – May 2018): CO₂ storage in deltaic environments of deposition: integration of three-dimensional modeling, outcrop analysis, and subsurface application.

PhD Committee, Amanda Calle, UT Austin, (September 2013 – August 2017): Andean and Pre-Andean basin evolution along the South American convergent margin: Insights from the Central Andes of Bolivia (19.5-22 Degrees South).

PhD Committee, Migdalys Salazar, UT Austin, (September 2010 – May 2014): The impact of shelf margin geometry and tectonics on shelf-to-sink sediment dynamics and resultant basin fill architectures.

Undergraduate Student Mentorship

Paige Pimentel, University of Wisconsin, Milwaukee, “LET’S GEO” (Learning Ecosystem for Training Student Geoscientists for Employment Opportunities, mentorship program funded by the National Science Foundation (October-December, 2023)).

Logan Cantrell, UT Austin -Champions of Diversity Program (September 2021-September 2023): New insights on Upper Strawn Group mixed carbonate-clastic depositional system evolution from core of the Anne Tandy field, King County, TX.

Laura Arango, UT Austin -RTX Geoforce, (June-August 2021): Evaluating the evidence for a pulse of sedimentation across the Permian-Triassic boundary worldwide through literature review and basic modelling.

Sara Sepulveda, UT Austin, (September 2015-May 2016): Sedimentology and architecture of the Wilcox Formation in Freestone and Anderson Counties, TX.

Tim Prather, UT Austin (September 2013-May 2014): Quantifying crevasse splay geometries.

Major Research Programs-Campaigns

Bureau of Economic Geology, UT Austin, (2009-present): Controls on facies trends, ichnology, architecture, and stratal stacking in deposits of fluvial-deltaic-shelfal systems of the Cretaceous Western Interior Seaway of North America.

Bureau of Economic Geology, UT Austin, and University of Alaska-Fairbanks (2005-present): Assessment of Brookian stratigraphy to improve reservoir models, North Slope, Alaska.

Bureau of Economic Geology, UT Austin, (2016-present): Controls on facies and stacking trends across the Paleocene-Eocene boundary: A source to sink perspective (Hanna Basin, WY and Gulf of Mexico).

Bureau of Economic Geology, UT Austin, (2016-present): Controls on the facies, stratal architecture, and distribution of the Pennsylvanian Strawn Group, Eastern Shelf of the Permian Basin and Fort Worth Basin, Texas.

Bureau of Economic Geology, UT Austin, (2017-present): Depositional systems of the Woodbine formation (Cretaceous) along the margin of Appalachia: Placing paleontology and paleobotany within a paleoenvironmental perspective (in conjunction with the Perot Museum – Dallas).

Bureau of Economic Geology, UT Austin, (2009-2016): A high-latitude shallow-marine to coastal-plain transition: the Schrader Bluff and Prince Creek Formations at Shivugak and Ulukrak Bluffs and Ocean Point, Colville River, North Slope, Alaska.

Bureau of Economic Geology, UT Austin (2010-2011), Sedimentologist, National Science Foundation Office of Polar Programs project OPP/ANT 0944282: Paleoenvironmental and paleoclimatic analysis of the Beacon Supergroup, Beardmore Glacier Area, Central Transantarctic Mountains, Antarctica.

Research Assistant, Department of Geology and Geophysics, University of Alaska—Fairbanks (2005 - 2009): Collaborative Research: An ancient arctic dinosaur ecosystem from the Late Cretaceous Prince Creek Formation, North Slope, Alaska—a natural case study in a greenhouse climate model.

Sedimentologist, Bureau of Economic Geology, UT Austin (2009): The application of light detection and ranging (LiDAR) to quantify sandbody geometries, improve net/gross calculations, and develop subsurface correlations: Sagwon Bluffs, North Slope, Alaska.

Geologist, Alaska Division of Geological and Geophysical Surveys (2008). Reconnaissance for geologic mapping of the Sagavanirktok Quadrangle, North Slope, Alaska.

Geologist (internship), FEX/Talisman Energy, Alaska (2008). Regional geology and reservoir potential of late Cretaceous to early Tertiary deposits of the central North Slope, Alaska.

Research Assistant, Department of Geosciences, University of Wisconsin—Milwaukee (2002 - 2005). Late Paleozoic–Mesozoic fauna, environment, climate, and basinal history, Beardmore Glacier Area, Central Transantarctic Mountains, Antarctica.

Funding

<u>Year</u>	<u>Role</u>	<u>Project</u>	<u>Total</u>
2024	State of Texas Advanced Resource Recovery	Pennsylvanian Strawn Group, Paleocene-Eocene Wilcox Group, Cretaceous Woodbine Formation	184,000
2023	State of Texas Advanced Resource Recovery	Pennsylvanian Strawn Group, Paleocene-Eocene Wilcox Group, Cretaceous Woodbine Formation	238,280
2022	State of Texas Advanced Resource Recovery	Pennsylvanian Strawn Group, Paleocene-Eocene Wilcox Group, Cretaceous Woodbine Formation	\$216,969
2021	State of Texas Advanced Resource Recovery	Pennsylvanian Strawn Group, Paleocene-Eocene Wilcox Group, Cretaceous Woodbine Formation	\$222,000
2020	State of Texas Advanced Resource Recovery	Pennsylvanian Strawn Group, Permian Basin and Fort Worth Basin, Texas	\$310,800
2019	State of Texas Advanced Resource Recovery	Pennsylvanian Strawn Group, Permian Basin and Fort Worth Basin, Texas	\$219,607
2019	Co-Principal Investigator	Quantitative Clastics Laboratory	\$61,200
2018	Co-Principal Investigator	Alaska, North Slope Synthesis: Assessment of Stratigraphy, Reservoirs, and Petroleum Systems, ENI Petroleum	\$75,000
2018	Co-Principal Investigator	Quantitative Clastics Laboratory	\$77,250
2017	Co-Principal Investigator	Quantitative Clastics Laboratory	\$43,200
2016	Co-Principal Investigator	Quantitative Clastics Laboratory	\$112,500
2015	Principal Investigator	Quantitative Clastics Laboratory	\$360,000
2014	Co-Principal Investigator	Quantitative Clastics Laboratory	\$191,000
2013	Co-Principal Investigator	Quantitative Clastics Laboratory	\$124,000
2013	Principal Investigator	Marathon Oil Research Grant: A Potential Washover Fan in the McMurray Formation, Alberta, Canada	\$48,000
2012	Co-Principal Investigator	Quantitative Clastics Laboratory	\$67,500
2011	Co-Principal Investigator	Quantitative Clastics Laboratory	\$40,500
2011	Principal Investigator	BP Alaska Research Grant: Nature, Evolution, and Ichnology of Fluvial-Deltaic and Shallow-Marine Reservoir Analogues in Campanian-Maastrichtian Clastic Wedges of Arctic Alaska	\$75,000

2010	Principal Investigator	ConocoPhillips Research Grant: A High-Latitude Shoreface to Coastal-Plain Transition: The Schrader Bluff and Prince Creek Formations, Shivugak and Uluksrak Bluffs, Colville River, North Slope, Alaska	\$25,000
2010	Principal Investigator	BP Alaska research Grant: A High-Latitude Shoreface to Coastal-Plain Transition: The Schrader Bluff and Prince Creek Formations, Shivugak and Uluksrak Bluffs, Colville River, North Slope, Alaska	\$50,000

Internal Funding

2014, 2015, 2016: Bureau of Economic Geology Grants and Awards Committee, Career Development Publication Award: Salary equivalent – 3 months.

External Funding Proposals

2024: SVALCLIME - Deep-time Arctic climate archives (participant)

Published Abstracts (n=138)

- Hattori, K.E and Flaig, P.P., 2026 (submitted): Refining models for the spatiotemporal evolution of mixed siliciclastic-carbonate systems on a heterogeneous ramp in an icehouse world: Pennsylvanian Upper Strawn Group, Texas, USA, International Association of Sedimentologist Meeting, Wellington, New Zealand.
- Denison, C.N., Flaig, P.P., and Demchuk, T.D., 2025 (accepted), Tidal not fluvial: Changing concepts in the up-dip Wilcox/Carrizo (Danian-Early Ypresian of Texas: Tidalites 2025, Liverpool, UK
- Hattori, K.E and Flaig, P.P., 2025 (submitted) : Refining models for mixed carbonate-siliciclastic systems for application to a heterogeneous ramp in an icehouse world: Pennsylvanian Upper Strawn Group of the Eastern Shelf of the Permian Basin: AAPG IMAGE, Houston, TX.
- Johnson, I.R., Flaig, P.P., Dejarnett, B., and Hattori, K.E., 2025 (submitted): Paleoenvironmental interpretations and correlations using core facies and wireline logs from the mixed carbonate-siliciclastic Upper Strawn Group in Haskell and King Counties, north-central Texas: AAPG IMAGE, Houston, TX.
- Johnson, I., Flaig, P.P., Dejarnett, B., Hattori, K., and Carr, D., 2025, Preliminary core and wireline log analysis of the Pennsylvanian mixed carbonate-siliciclastic Strawn Group along the Eastern Shelf, Permian Basin, TX: Southwest Section AAPG, Ft. Worth, TX
- Jensen, J.L., Flaig, P.P., and Hattori, K.E., 2025, Going with the flow: Permeability measurement and prediction in Katz Field (Upper Strawn), Stonewall County, Texas: Southwest Section AAPG, Ft. Worth, TX
- Flaig, P.P., Garcia, K., Denison, C., Demchuk, T., Spangenberg, J., Campion, N., Adatte, T., van der Kolk, D.A., Castletort, S., Cornick, P., and Moscardelli, L., 2025, Regional significance of new evidence for a Paleocene-Eocene Thermal Maximum succession in outcrops of Bastrop county, TX: GeoGulf, Nacogdoches, TX.
- Jensen, J.L., Flaig, P.P., and Hattori, K.E., 2024, Bioturbation effects on permeability in tidally-modified Strawn Group deposits, Texas: AAPG IMAGE, Houston, TX
- Flaig, P.P., Garcia, K., Denison, C., Demchuk, T., Spangenberg, J., Campion, N., Adatte, T., Castletort, S., and Moscardelli, L., 2024, Evidence for the Paleocene–Eocene Thermal Maximum in outcrops, Bastrop County, Central Texas: GeoGulf, San Antonio, TX.

- Flaig, P.P., Herriott, T., Wartes, M.A., and van der Kolk, D.A., 2024, Characteristics of marine versus continental deposits in the Campanian Arctic: Examples from the Prince Creek–Schrader Bluff transition, Toolik River, North Slope, Alaska: SEPM International Sedimentary Geosciences Congress, Flagstaff, AZ.
- Flaig, P.P., Garcia, K., Denison, C., Demchuk, T., Spangenberg, J., Campion, N., Adatte, T., Castletort, S., and Moscardelli, L., 2024, Evidence for the Paleocene–Eocene Thermal Maximum in outcrops, onshore Texas: SEPM International Sedimentary Geosciences Congress, Flagstaff, AZ.
- Hattori, K.E., Flaig, P.P., and Wahlman, G.P., 2024, The Strawn Formation of the Eastern Shelf: New insight into autocyclic and allocyclic drivers and depositional system heterogeneity: Southwest Section American Association of Petroleum Geologist Conference, Abeline, TX.
- Contreras, D., Zippi, P., Jacobs, B., Flaig, P., and Henk, B. 2024, Reconstructing the coastal vegetation of Cenomanian southwestern Appalachia: An integrated study of plant fossils and sediments of the Lewisville Formation (Woodbine Group), Dallas-Fort Worth Texas, USA.: XI International Organisation of Palaeobotany Conference (IOPC), Prague, Czech Republic.
- Contreras, D., Zippi, P., Jacobs, B., Flaig, P., and Henk, B. 2024, Reconstructing the coastal vegetation of Cenomanian southwestern Appalachia: An integrated study of plant fossils and sediments of the Lewisville Formation (Woodbine Group), Dallas-Fort Worth Texas, USA: North American Paleontological Convention, Ann Arbor, MI, USA
- Druckenmiller, P.S., Johnson, K., Ramezani, J., Tsukui, K., McCarthy, P.J., Perry, Z., Flaig, P.P., van der Kolk, D., Brown, C., and Erikson, G.M., 2023, First U-PB CA-ID-TIMS age constraints on Polar Dinosaurs from the Prince Creek Formation, northern Alaska: Society of Vertebrate Paleontologist Annual Meeting, Cincinnati, Ohio.
- Garcia, K.G., Flaig, P.P., Denison, C.N., Demchuk, T.D., Adatte, T., Castletort, S., and Moscardelli, L., 2023, Characteristics of the Sabinetown (Wilcox Group) to Carrizo (Claiborne Group) transition across the Paleocene Eocene Thermal Maximum in outcrops, Bastrop, TX: Jackson School of Geosciences Student Research Symposium, Austin, TX.
- Contreras, D., Noto, C., Flaig, P.P., Zippi, P., Lorenta, A.A., Andrzejewski, K., Tykoski, R., and Englehart, N.L., 2023, Deciphering the Woodbine Group (Late Cretaceous); Cenomanian) outcrops of the Dallas – Fort Worth metroplex: New data and new horizons: Mesozoic Terrestrial Ecosystems, Salt Lake City, UT.
- Flaig, P.P., Hattori, K.E., Hasiotis, S.T., Boucher, L., Buntin, C., Roberts, A., Lorente, M.A., and Moscardelli, L., 2023, Complex clastics and associated carbonates of the Strawn Formation: Re-evaluation of deposystem interpretations from core and outcrop-based investigations: American Association of Petroleum Geologists SW Section meeting, Wichita Falls, TX
- Flaig, P.P., Denison, C.N., Ambrose, W.A., and Demchuk, T.D., 2023, Outcrop evidence for variable channel-floodplain facies and stratal architectures across the Simsboro to Calvert Bluff transition, Wilcox Group, Butler, Texas: GeoGulf 2023, Houston, TX.
- Garcia, K., Flaig, P.P., Denison, C.N., and Demchuk, T.D., 2023, The Paleocene-Eocene Thermal Maximum in outcrops near Bastrop, Texas: Sedimentology, ichnology, biostratigraphy, and $\delta^{13}\text{C}$ isotopes: GeoGulf 2023, Houston, TX.
- Flaig, P.P., van der Kolk, D.A., Herriott, T., and Wartes, M., 2022, Incorporating digital imaging techniques into outcrop investigations of Alaska’s North Slope stratigraphy: Geological Society of America Annual Meeting, Denver, Colorado.
- Flaig, P.P., Hasiotis, S.T., Ambrose, W.A., Hattori, K., and Dejarnett, B., 2021, The importance of integrating sedimentology and ichnology to accurately interpret the spatial-temporal relationships of mixed carbonate-clastic coastal-shelfal depositional systems: Pennsylvanian (Desmoinesian) Strawn Group, Texas: Geological Society of America annual meeting and exhibition, Portland, Oregon.
- Wroblewski, A, Flaig, P.P., and Hasiotis, S.T., 2021, The present is the key to the past, as long as the past looked like the present: Bayhead deltas and back-barrier systems in time and space: Geological Society of America annual meeting and exhibition, Portland, Oregon.
- Roberts, A.K., Ambrose, W.A., Flaig, P.P., Steel, R.J., and Olariu, C., 2021, Controls on facies variability and distribution during the Pennsylvanian glacial period from the Lower Strawn Group, Fort Worth Basin, TX: Southwest Section of American Association of Petroleum Geologists Annual Meeting, Ft. Worth, Texas.
- Flaig, P.P., Hasiotis, S.T., Ambrose, W.A., and Carr, D., 2021: Interfingering flood tidal delta and bayhead delta deposits of the Upper Strawn Group, Permian Basin: An evolutionary model of a

- mixed carbonate-clastic deltaic backbarrier system: American Association of Petroleum Geologists Annual Convention, Denver, CO (pulled -Covid).
- Denison, C., Demchuk, T., Ambrose, W.A., and Flaig, P.P., (2021), Tidal deposition in the Wilcox/Carrizo of Texas: Implications of a new concept in a mature area: American Association of Petroleum Geologists Annual Convention, Denver, CO.
- Flaig, P.P., Hasiotis, S.T., van der Kolk, D.A., Prather, T., and Jones, R., (2021 – accepted: postponed), Integrated sedimentologic and ichnologic response to variations in fluvial-flood and tidal processes in select ancient delta deposits: Changing characteristics versus relative controls: SEPM International Sedimentary Geosciences Congress Meeting, Flagstaff, Arizona.
- Flaig, P.P., Hasiotis, S.T., van der Kolk, D.A., Prather, T., and Jones, R., 2020 (accepted: Cancelled Covid-19), Integrated ichnologic and sedimentologic response to increasing tidal influence and decreasing fluvial-flood processes in select ancient delta deposits: Changing characteristics versus relative controls: SEPM International Sedimentary Geosciences Congress Meeting, Flagstaff, Arizona.
- Isbell, J., Ives, L., and Flaig, P.P., 2020 (accepted: Cancelled Covid-19), Permo-Triassic evolution of the Transantarctic Basin: Did climate change, accommodation, and/or floral extinction at the Permian-Triassic boundary drive environmental change and landscape evolution?: SEPM International Sedimentary Geosciences Congress Meeting, Flagstaff, Arizona.
- Hasiotis, S.T., Flaig, P.P., van der Kolk, D.A., and Fiorillo, A., 2020 (accepted: Cancelled Covid-19), Comparing ichnopedologic signatures of high-to-low-latitude continental deposits in the deep-time record: Examples from late-Paleozoic to Mesozoic: SEPM International Sedimentary Geosciences Congress Meeting, Flagstaff, Arizona.
- Armitage, D.A., and Flaig, P.P., 2020 (accepted: Cancelled Covid-19), Predictive stratigraphy in shallow-marine environments: SEPM International Sedimentary Geosciences Congress Meeting, Flagstaff, Arizona.
- Butler, K.L., Horton, B.K., and Flaig, P.P., 2020 (accepted: Cancelled Covid-19), The Cretaceous-Tertiary boundary stratigraphy in Patagonia: Pasa del Sapo to Lefipan Formations: SEPM International Sedimentary Geosciences Congress Meeting, Flagstaff, Arizona.
- Speed, C.M., Sylvester, Z., Flaig, P.P., Durkin, P., and Goudge, T.A., 2020 (accepted: Cancelled Covid-19), Relating the geomorphology and stratigraphy if an ancient fluvial avulsion node: Ana example from the Cretaceous Cedar Mountain Formation, eastern Utah, USA: SEPM International Sedimentary Geosciences Congress Meeting, Flagstaff, Arizona.
- Flaig, P.P., and van der Kolk, D.A., 2020 (accepted: Cancelled Covid-19), A composite unconformity in Upper Cretaceous strata on the North Slope of Alaska: Characteristics and implications: American Association of Petroleum Geologists Annual Convention and Exhibition, Houston, Texas.
- Bonelli, J.R., and Flaig, P.P., 2020, A quantitative biofacies analysis of Upper Cretaceous (Maastrichtian) palynological assemblages of the Prince Creek Formation, North Slope Alaska, USA: American Association of Petroleum Geologists Annual Convention and Exhibition, Houston, Texas.
- Speed, C.M., Sylvester, Z., Flaig, P.P., Durkin, P., and Goudge, T.A., 2020 (accepted), 3-D stratigraphic architecture of a cretaceous fluvial avulsion node, eastern Utah, USA: American Geophysical Union Annual Convention and Exhibition, San Francisco, California.
- Roberts, A., Ambrose, W.A., and Flaig, P.P., 2020, The Pennsylvanian Lower Strawn Formation, Fort Worth Basin: Facies distribution and stratigraphic architecture: American Association of Petroleum Geologists Annual Convention and Exhibition, Houston, Texas.
- Hasiotis, S.T., Platt, B.F., and Flaig, P.P., 2020, Continental mega-ichnology- trace fossils as proxies for the roles of organisms as a major soil-forming factor and as ecosystem engineers of the critical zone through deep time: Joint 69th Annual Geological Society of America Southeastern / 55th Annual Northeastern Section Meeting, Reston, Virginia.
- Flaig, P.P., Ambrose, W.A., and Hasiotis, S.T., 2020 (accepted), The relationship of coastal-shelfal tidal systems to ramp carbonates in the Upper Strawn revealed from core and wireline logs in Stonewall and King Counties, Permian Basin, Texas: Geological Society of America 54th Annual South-Central Section Meeting, Fort Worth, Texas.
- Roberts, A., Ambrose, W.A., and Flaig, P.P., 2020 (accepted), The Pennsylvanian Lower Strawn Formation, Jack and Wise Counties, Fort Worth Basin: Facies distribution and stratigraphic architecture: Geological Society of America 54th Annual South-Central Section Meeting, Fort Worth, Texas.

- Speed, C.M., Sylvester, Z., Flaig, P.P., Durkin, P., and Goudge, T.A., 2019, Relating the fluvial avulsion process to channel-belt stratigraphic architecture: An example from the Cedar Mountain Formation, Utah: American Geophysical Union Annual Convention and Exhibition, San Francisco, California.
- Buntin, R.C.C., Hasiotis, S.T., and Flaig, P.P., 2019, Evaluating the ichnofossil *Teredolites* as an indicator of salinity and paleoenvironment in the geological record, examples from Cretaceous strata Kansas, Colorado, Utah: Geological Society of America South Central/North Central/Rocky Mountain Section Meeting, Manhattan, Kansas.
- Flaig, P.P., Hasiotis, S.T., and Prather, T., 2019, Comparative analysis of internal characteristics of delta front deposits of the Loyd Sandstone (Campanian) near Rangely, Colorado, Panther Tongue of the Star Point Formation, Helper, Utah, and Lower Sego near Floy Canyon: Controls versus reservoir properties: American Association of Petroleum Geologists Annual Convention and Exhibition, San Antonio, Texas.
- Belcher, K.L., Flaig, P.P., and Steel, R.J., 2019, Outcrop and subsurface characteristics of tidally modified shelf edge delta and upper slope deposits of the Blair Formation, Rock Springs Uplift, Wyoming: American Association of Petroleum Geologists Annual Convention and Exhibition, San Antonio, Texas.
- Speed, C.M., Sylvester, Z., Flaig, P.P., Durkin, P., Cardenas, B.T., and Goudge, T.A., 2019, Stratigraphic architecture of exhumed fluvial channel-belts: Anatomy of an avulsion: American Association of Petroleum Geologists Annual Convention and Exhibition, San Antonio, Texas.
- Butler, K.L., Horton, B.K., Flaig, P.P., Echaurren, A., and Folguera, A., 2018, Partitioning of the Andean Retroarc Foreland Basin During Cretaceous-Paleogene Flat-Slab Subduction in Northern Patagonia, Argentina: Stratigraphic Architecture, Provenance, and Sediment Routing. Poster Presentation: Geological Society of America Annual Meeting, Indianapolis, Indiana.
- Senger, K., Jansen, M., Hakanasson, L., Buckley, S., Naumann, N., Mertens, M., Forien, M., Eide, C., Lecomte, I., Nordmo, I., Rabbel, O., Mair, K., Galland, O., Malm, R., Ogata, K., Mulrooney, M., Smyrak-Sikora, A., Guarnieri, P., Stemmerik, L., Coakley, B., Flaig, P., Gongaza da Silveira, L., and Nolde, N. (2018), Circum-Arctic Geology for Everyone: Using Virtual Fieldtrips to Bring the High Arctic Closer to the World, Oral Presentation: UARCTIC Congress 2018, Helsinki, Finland
- Beckham, E. C., Meckel, T., and Flaig, P.P., 2018, Investigating deltaic architecture and reservoir connectivity for CO₂ storage and migration: Integrated perspectives from physical flume experiments, outcrop analogs, and subsurface mapping: Greenhouse Gas Technologies Convention, Melbourne, Australia.
- Butler, K.L., Horton, B.K., Flaig, P.P., Echaurren, A., and Folguerra, A., 2018, Partitioning of the Andean Retroarc Foreland Basin during Cretaceous-Paleogene flat-slab subduction in northern Patagonia, Argentina: Stratigraphic architecture, provenance, and sediment routing: Geological Society of America Annual Meeting, Indianapolis, Indiana.
- Flaig, P.P., Sharman, G.R., Wroblewski, A.F., and Covault, J., 2018, Controls on fluvial and lacustrine facies and stacking patterns of the Paleocene-Eocene Hanna Formation. Hanna Basin, Wyoming: American Association of Petroleum Geologists Annual Convention and Exhibition, Salt Lake City, Utah.
- Murphy, A.V., Flaig, P.P., and Hasiotis, S.T., 2018, Estuarine deposits of the Neslen Formation near Harley Dome, Book Cliffs, Utah: An outcrop analogue for heterolithic, tidally modified estuarine channels and tidal flats: American Association of Petroleum Geologists Annual Convention and Exhibition, Salt Lake City, Utah.
- Sharman, G.R., Flaig, P.P., Fosse-Durham, P., Larson, T., and Covault, J., 2018, The catchment-integrated response to rapid climatic warming during the Paleocene-Eocene Thermal Maximum: Wilcox and Claiborne Groups, Gulf Coast, USA: American Association of Petroleum Geologists Annual Convention and Exhibition, Salt Lake City, Utah.
- Buyenevich, I.V., Hasiotis, S.T., Weist, L.A., and Flaig, P.P., 2017, Vanished with a trace: Ichnological applications to extinction-recovery research: Geological Society of America Annual Meeting, Seattle, Washington.
- Calle, A.Z., Horton, B.K., Garcia-Duarte, R., and Flaig, P.P., 2017, Neoproterozoic-Paleozoic tectonics and paleogeography of the West-Central South America convergent margin from detrital zircon geochronology: Geological Society of America Annual Meeting, Seattle, Washington.

- Flaig, P.P., and van der Kolk, D.A., 2017, Autogenic vs. allogenic driven facies and architectural changes at the Schrader Bluff-Prince Creek transition, Shivugak-Uluksrak Bluffs, North Slope, Alaska: American Association of Petroleum Geologists Pacific Section Meeting, Anchorage, Alaska.
- Flaig, P.P., van der Kolk, D.A., Hasiotis, S.T., and McCarthy, P.J., 2017, Controls on the evolution of Late Cretaceous to Paleocene coastal to deltaic systems of the Prince Creek and Schrader Bluff Formations, North Slope of Alaska: American Association of Petroleum Geologists Annual Convention and Exhibition, Houston, Texas.
- Hasiotis, S.T., and Flaig, P.P., 2017, Vertebrate burrows of the Lower Triassic Fremouw Formation, Beardmore and Shackleton Glaciers, Central Transantarctic Mountains, Antarctica: Comparisons to other Gondwanan and Laurentian examples: 2nd International Conference on Continental Ichnology, Nuy Valley, South Africa.
- McCarthy, P.J., Fiorillo, A.R., Kobayashi, Y., Tanaka, T., Tomsich, C.S., Flaig, P.P., and Salazar-Jaramillo, S., 2017, A Late Cretaceous high-latitude paleoenvironmental and paleoecological transect across greenhouse Alaska: a comparison of the Chignik, Lower Cantwell, and Prince Creek Formations, Alaska, USA: Geological Society of America Annual Meeting, Seattle, Washington.
- Murphy, A.V., Flaig, P.P., and Hasiotis, S.T., 2017, Paleoenvironmental reconstruction and geocellular model of a heterogeneous reservoir analogue: the Sego-Neslen Formation transition near Harley Dome, Book Cliffs, Utah: American Association of Petroleum Geologists Annual Convention and Exhibition, Houston, Texas.
- Sharman, G., Covault, J., Flaig, P.P., Stockli, D., and Miranda, V., 2017, Tectonic stratigraphy of the Laramide Denver Basin foreland: insights from detrital zircon U-Pb geochronology: Geological Society of America Abstracts with Programs, v. 49, no. 1, <http://doi.org/10.1130/abs/2017SC-289369>.
- van der Kolk, D.A., Flaig, P.P., and Hasiotis, S.T., 2017, Preliminary ichnology, sedimentology, and stratigraphy of the Maastrichtian Prince Creek and upper Schrader Bluff Formations at Ocean Point, National Petroleum Reserve, Alaska: American Association of Petroleum Geologists, Pacific Section Meeting, Anchorage, Alaska.
- van der Kolk, D.A., Flaig, P.P., and Hasiotis, S.T., 2017, Sedimentology and stratigraphy of the lower Schrader Bluff and Prince Creek Formations at Shivugak Bluffs, National Petroleum Reserve, Alaska: American Association of Petroleum Geologists, Pacific Section Meeting, Anchorage, Alaska.
- Flaig, P.P., Hasiotis, S.T., van der Kolk, D.A., and Jackson, A.M., 2016, Integrating sedimentology and ichnology in the Beacon Supergroup, Central Transantarctic Mountains, Antarctica, to clarify paleoenvironmental interpretations and refine basin analysis: American Association of Petroleum Geologists Annual Convention and Exhibition, Calgary, Alberta, Canada.
- Flaig, P.P., Hasiotis, S.T., van der Kolk, D.A., McCarthy, P.J., Fiorillo, A.R., Suarez, C., and Jackson, A.M., 2016, Characteristics and controls on high latitude sedimentation in the Cretaceous of Alaska and the Permian of Antarctica: Geological Society of America Annual Meeting, Denver, Colorado.
- Flaig, P.P., Hasiotis, S.T., van der Kolk, D.A., Prather, T., Jones, R.H., Ambrose, W.A., and Loucks, R.G., 2016, Combining sedimentology and ichnology to refine paleoenvironmental interpretations in fluvial-deltaic-shallow-marine clastic systems: Geological Society of America Annual Meeting, Denver, Colorado.
- Flaig, P.P., van der Kolk, D.A., Hasiotis, S.T., and Prather, T., 2016, Comparative analysis of ancient mouth bars and subaqueous terminal distributary channels in three deltas: the Permian Mackellar Formation of Antarctica, the Cretaceous Schrader Bluff Formation of Arctic Alaska, and the Cretaceous Loyd Formation of Colorado: American Association of Petroleum Geologists International Convention and Exhibition, Barcelona, Spain.
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- Hasiotis, S.T., Flaig, P.P., Jackson, A.M., and Isbell, J.L., 2012, First report of marine trace fossils from fluvio-deltaic-shallow marine deposits in the Lower Permian Mackellar Formation, Beardmore Glacier area, Central Transantarctic Mountains, Antarctica: Salinity stressed aquatic conditions: 34th International Geological Congress, Brisbane, Australia.

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- Flaig, P.P., McCarthy, P.J., and Fiorillo, A.R., 2010, Anatomy, evolution, and paleoenvironmental interpretation of an ancient Arctic coastal-plain: integrated paleopedology and palynology from the Late Cretaceous (Maastrichtian) Prince Creek Formation, North Slope Alaska, U.S.A.: SEPM-National Science Foundation Research Conference and Workshop: Paleosols and Surface Systems Analogues, Petrified Forest National Park, Holbrook, Arizona.
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- Salazar, S., McCarthy, P.J., Flaig, P.P., Fowell, S.J., and Trainor, T., 2010, Clay mineralogy of some high-latitude paleosols from the Prince Creek Formation (Maastrichtian), North Slope, Alaska: Geological Society of America National Conference and Exhibition, Denver, Colorado.
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- van der Kolk, D.A., and Flaig, P.P., 2008, Outcrop expression of the Schrader Bluff and Prince Creek Formations along the Toolik River, Sagavanirktok B-4 Quadrangle (1:63,360), North Slope, Alaska: Alaska DNR Technical Review Meeting, BP Energy Center, Anchorage, Alaska.
- Fiorillo, A.R., McCarthy, P.J., Brandlen, E., Flaig, P.P., Norton, D., Jacobs, L., Zippi, P., and Gangloff, R.A., 2007, Paleontology, sedimentology, paleopedology, and palynology of the Kikak-Tegoseak Dinosaur Quarry, (Prince Creek Formation: Late Cretaceous), northern Alaska: Ceratopsian Symposium, Royal Tyrrell Museum, Drumheller, Alberta, Canada.
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- Isbell, J.L., and Flaig, P.P., 2005, Fluvial stratigraphy across the Permian-Triassic boundary in the Beardmore Glacier Region, Antarctica: was plant extinction or tectonics the driving mechanism for producing changes in fluvial style?: Earth System Processes 2, Calgary, Alberta, Canada.
- Isbell, J.L., Flaig, P.P., Miller, M.F., and Sidor, C.A., 2005, Fluvial architecture of Permian and Triassic strata in the Beardmore Glacier Region, Antarctica: was plant extinction or tectonics the cause of fluvial changes across the P-T Boundary?: in Parkhurst, R. J., and Veiga, G. C., eds., Gondwana 12: geological and biological heritage of Gondwana: Abstracts, Academia Nacional de Ciencias, Cordoba, Argentina, p. 209.
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Invited Presentations

- Petrophysical pandemonium! Permeability measurements and prediction in Katz Field (Upper Strawn), Texas, Petroleum and Geosystems Engineering Department seminar UT-Austin, September, 2025, (Authored and Presented by Jerry Jensen).
- Lithofacies and depositional systems of the Woodbine and Buda in the Neuhooff Field. East Texas: Core workshop, Southwest Section AAPG, April 27th, 2025, Ft. Worth, TX
- Re-evaluating paleoenvironments and depositional system evolution in the Strawn Group in Stonewall and King Counties and assessing outcrop analogs: Abilene Geological Society Meeting, Feb 20th, 2025, Abilene, TX
- A survey of current and recent Strawn Group projects by the State of Texas Advanced Resource Recovery (STARR Group) at the BEG, UT-Austin: Fort Worth Geological Society Meeting, Feb 13th, 2024, Fort Worth, TX.

Carbonate and mixed carbonate-clastic facies variability across the Upper Strawn Formation on the Eastern Shelf of the Permian Basin, King County, Texas: Abilene Geological Society Meeting, Oct 19, 2023, Abilene TX (Authored and Presented by Kelly Hattori).

Research Challenges from a Polar Perspective: Complex Logistics, Cool Science, and Fascinating Finds from the Central Transantarctic Mountains and North Slope of Alaska. Talk intended to set the stage for a Special Exhibition entitled Antarctic Dinosaurs: A Forest Frozen in Time at the Witte Museum, San Antonio, TX. April 6th, 2023.

Two ongoing multidisciplinary investigations into shallow-marine and fluvial-distributive deposits in the Wilcox Group, onshore Texas: Bureau of Economic Geology Friday Seminar Series, Austin, Texas, December 2, 2022.

Incorporating digital imaging techniques into outcrop investigations to provide analogs and refine reservoir models, STARR Technical Seminar, Bureau of Economic Geology, November 17, 2022.

Characteristics and Controls on mixed carbonate-siliciclastic reservoir systems of the Strawn Group with a focus on the Upper Strawn, in King and Stonewall counties, Texas: North Texas Geological Society Meeting, Wichita Falls, virtual presentation Feb 17, 2022.

Depositional Systems of the Strawn Group in the Fort Worth Basin and Eastern Shelf of the Permian Basin: Abilene Geological Society Meeting, remote via ZOOM, November, 2020.

Select deltaic-paralic systems of the Cretaceous Western Interior Seaway, characteristics and controls: University of Wisconsin–Milwaukee Colloquium Series, Milwaukee, Wisconsin, February 2020.

Employing GigaPan imagery and drone photogrammetry to enhance virtual field trips for students at remote universities: UNIS-UArctic Virtual Field Workshop, Longyearbyen, Svalbard, 2018.

The value of integrating sedimentology, ichnology, and high-resolution imagery in outcrop investigations of reservoir analogs: Fort Worth Geological Society Invited Speaker Series, Fort Worth, Texas, 2017.

An icehouse to greenhouse transition in Permian through Triassic sediments, Central Transantarctic Mountains, Antarctica: Texas State University, Geography Department Colloquium Series, San Marcos, Texas, 2016.

A tale of three deltas: Comparative analysis of ancient, river-dominated deltaic systems from outcrops of the Permian of Antarctica, and the Cretaceous of Alaska and Colorado: University of Kansas, Geology Department Colloquium Series, Lawrence, Kansas, 2015.

Integrating sedimentology and ichnology in the Beacon Supergroup, Central Transantarctic Mountains, Antarctica, to clarify paleoenvironmental interpretations and refine basin analysis: presented to Transantarctic Mountain Science: Antarctic Deep Field Planning Meeting, Loveland, Colo., 2015.

Sedimentology, ichnology, and palynology of Permo-Triassic strata at Lamping Peak, Central Transantarctic Mountains, Antarctica: Paleopolar lakes, braided rivers, and associated forests of greenhouse Antarctica: Scientific Committee on Antarctic Research Meeting, Auckland, New Zealand, 2014.

The Late Cretaceous coastal plain of Arctic Alaska: Placing *Pachyrhinosaurus Perotorum* and other North Slope dinosaurs in a paleoenvironmental context: Southern Methodist University Colloquium Series, Dallas, Texas, 2013.

The Late Cretaceous coastal plain of Arctic Alaska: Sandy-splays, swamps, soils, and savagely surging streams: University of Wisconsin–Milwaukee Colloquium series, Milwaukee, Wisconsin, 2013.

The application of lidar (light detection and ranging) technology to outcrop geology with an example from Sagwon Bluffs on the North Slope of Alaska: Alaska Geological Society Meeting, Anchorage, Alaska, 2012.

Transantarctic tales: extraordinary geology and complex logistics in the Central Transantarctic Mountains, Antarctica: Lakeway Men's Club, Austin, Texas, 2012.

A tidally-influenced, high-latitude alluvial/coastal plain: the Late Cretaceous (early Maastrichtian) Prince Creek Formation, North Slope, Alaska: West Texas Geological Society Meeting, Midland, Texas, 2010.

Cretaceous geology on the North Slope of Alaska: Austin Gem and Mineral Society Meeting, Austin, Texas, 2010.

Regional geology and reservoir potential of the Schrader Bluff, Prince Creek, and Sagwon Member of the Sagavanirktok Formation (Late Cretaceous to early Tertiary) Sagavanirktok Quadrangle, North Slope, Alaska: Alaska Geological Society Annual Meeting, University of Alaska—Fairbanks, Fairbanks, Alaska, 2009.

A sedimentological tour of the dinosaur-bearing Late Cretaceous Prince Creek Formation, North Slope, Alaska: Bureau of Economic Geology, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, 2008.

Geology and logistics in the Arctic National Wildlife Refuge, on the Dalton Highway, and along the Colville River: "What two crazy University of Alaska-Fairbanks Graduate students did last summer...": Denali Foundation, Denali Education Center, McKinley Village, Alaska, 2007.

Published Interviews

Flaig, P. (2023, May). Hidden treasure beneath our feet: Exploring the Willcox Group, Palo Alto College Media. <https://pacpulse.com/2024/05/13/hidden-treasure-beneath-our-feet-exploring-the-willcox-group/>

Flaig, P.P., 2022: Where the sea used to be. Interview and photographs for Science Moab radio show / podcast <https://sciencemoab.org/where-the-sea-used-to-be/>.

Flaig, P.P., 2022: Science Moab: Old oceans, oil, and orogeny: Moab Sun News <https://moabsunnews.com/2022/09/22/science-moab-old-oceans-oil-and-orogeny/>

Flaig, P. P., 2011, "History Preserved." Interview and photographs for Alcade Magazine (The University of Texas at Austin Alumni Magazine), Austin, Texas

Flaig, P. P., 2011, "Scott's Hut" and "Hidden World." Interview and photographs for audio slideshows of Antarctic research, Jackson School of Geosciences and The University of Texas at Austin KNOW websites, Austin, Texas. http://www.jsg.utexas.edu/wp-content/themes/motion/media/scotts_hut/, <https://news.utexas.edu/2011/09/20/photographing-a-hidden-world/>

Media Coverage

March 12, 2024: Mississippi Geological Society Bulletin. Monthly Post – USGS Regional Stratigraphic Nomenclature Reconciliation working group review.

November 20, 2012 "Digging up dirt in Northern Alaska: What happens when geologists take over the North Slope" by Doug Hissom, Baltimore Post Examiner, Alaska Dispatch News. <http://baltimorepostexaminer.com/field-geologists-break-rocks-bones-while-searching-for-dinosaur-fossils-in-alaska/2012/10/16>.

October 24, 2012 "Alaska: North Slope price of admission and survival requires attitude" by Doug Hissom, Baltimore Post Examiner, Alaska Dispatch News. <http://www.adn.com/article/price-admission-and-survival-alaskas-north-slope-attitude>.

August 6, 2012 "Dino diggers: Searching for dinosaur fossils in Alaska" by Doug Hissom, Baltimore Post Examiner. <http://baltimorepostexaminer.com/dino-diggers-searching-for-dinosaur-fossils-in-alaska/2012/08/06>.

Websites

Peter Flaig: Public You Tube website containing 30+ drone videos of classic, clastic outcrop belts. <https://www.youtube.com/channel/UCdknBiE5oYXxNGZ7THQtZlg>.

Peter Flaig GigaPan website (Outcropimaging): Mixed public/private website containing over 40 high-resolution outcrop photomosaics. <http://gigapan.com/profiles/OutcropImaging>.

Peter Flaig Photo Blog: Website of mixed geology and travel imagery, <http://peterflaig.blogspot.com/>.

Professional Service

Elected Positions

2020-2023: Research Councilor, SEPM

National Committees

Twenhofel Award Committee Chair (2020-2023)

Laurence L. Sloss Award Committee (2003-2005)

BEG/JSG Committees

External Support Leveraging Taskforce Chair (2022-current)

Grants and Awards Committee Chair (2019-2020)

Library Committee (2015-current)

Peer-Reviewed Journal Reviews

External reviewer for the *USGS Alaska Petroleum Systems Project (Fiscal Years 2023–2027)*

Peer reviews for Journals : Geology, Sedimentology, Journal of Sedimentary Research, Sedimentary Geology, Geosphere, SEPM Special Publications, Interpretation, Journal of the Geological Society of London, Marine and Petroleum Geology, United States Geological Society Reports, USGS Stratigraphic Notes, Gulf Coast Association of Geological Societies Special Publications, Bureau of Economic Geology-The University of Texas at Austin Reports of Investigations.

Funding Agency Reviews

2016: American Chemical Society Petroleum Research Fund (New Directions Research Grant).

Abstract Reviews:

2022: IMAGE 2022 - Houston, Texas, US, *Theme I: Siliciclastic Systems*

Conference Chairs

Co-chair: Mon-marine or mixed marine-non-marine systems (lacustrine and paralic): SEPM International Sedimentary Geosciences Congress meeting, May 5-8, 2024, Flagstaff, AZ.

Co-chair: Assessing the Sedimentary Response to Changing Climate through Multidisciplinary Investigations. SEG-AAPG IMAGE meeting, August 27- September 1, 2023, Houston, TX.

Co-chair: Applying Integrated Sedimentology and Ichnology to Refine Paleoenvironmental Interpretations, Identify Paleosalinities, and Reveal Key Sequence Stratigraphic Surfaces along Complex Coastlines. (Geological Society of America National Meeting, Portland, OR, October 10-13, 2021).

Co-chair: Combining Sedimentology, Ichnology, and Paleontology to Refine Spatial, (Paleo) Environmental Interpretations and Clarify Salinity-Discharge Fluctuations along Modern and Ancient Complex Coastlines (AAPG Annual Meeting, Denver, Colorado September 25-28, 2016).

Co-chair: The Effects of Discharge Variability on Alluvial stratigraphy: Toward a New Facies Model (AAPG Annual Meeting, Denver, Colorado, September 25-28, 2016).

Chair: General Session, Clastic Sediments (oral) (November 4, 2015).

Chair, Annual Meeting Poster Committee, Gulf Coast Association of Geological Societies August, 2012.

University Committees

Member-Chair, Grants, Appointments, and Awards Committee (GAAC), Jackson School of Geosciences, Bureau of Economic Geology, The University of Texas at Austin, 2018-2020, Chair 2019-2020.

Member, Jackson School of Geosciences Library Committee, The University of Texas at Austin, library functions and updates, January 2017-Present.

Awards and Honors

Smithsonian Magazine 2020: Top ten dinosaur discoveries of 2020 - The first juvenile dromaeosaurid (Dinosauria, Theropoda) from Arctic Alaska: *PLoS ONE*,

AAPG Annual Meeting, San Antonio, 2008: Best Poster Award, SEPM Student Session
University of Alaska-Fairbanks, 2008: Graduate School Fellowship

Student funding from granting agencies including Geological Society of America, American Association of Petroleum Geology, SEPM, Evolving Earth Foundation, University of Alaska, University of Wisconsin, BP-Alaska, Wisconsin Geological Society, and the Alaska Geological society.
University of Wisconsin-Milwaukee, College of Letters and Science, Tutoring and Academic Resource Center, 2005: Directors Appreciation Award and Outstanding Tutor Award.

Lehigh University Field Camp, 2002: Future Performance Award, Best Geologist, Nomination for Geological Society of America Internship.

Professional Society Membership

SEPM (Society for Sedimentary Geology) – Council Member (Research Councilor) 2020-2023
Geological Society of America
Geological Society of America
American Association of Petroleum Geologists
Alaska Geological Society

Outreach

Article written as part of the National Science Foundation-funded GeoEngage Program (2119446) 2024-
Interview and images for Palo Alto College, San Antonio published Wilcox article
<https://pacpulse.com/2024/05/13/hidden-treasure-beneath-our-feet-exploring-the-wilcox-group/>

Rock Week 2024 – Discussion on the rock cycle and rock types: Carpenter Hill Elementary School, Buda, TX

Research Advisor, *Introduction to AP Research*, Escuela Internacional Sampedrana, 500 Mtrs Arriba Hospital Mario Rivas, San Pedro Sula, Honduras, 2020.

"History Preserved", Interview and Photographs for Alcade Magazine- the University of Texas at Austin Alumni Magazine, Austin, Texas, 2011.

“Scott’s Hut” and *“Hidden World”*, Interview and Photographs for audio slideshows of Antarctic Research, Jackson School of Geosciences and the University of Texas at Austin KNOW websites, Austin, Texas, 2011.

“Peter Flaig Photography”, Photo Blog, Antarctica and Arctic Alaska Field Photos and Comments, 2007-2011.

“Experiencing Antarctica as a Geologist”, Remote Communication with the 2nd and 5th Grades of General Mitchell Elementary School, Milwaukee, WI from CTAM Base Camp, Antarctica, December 2010.

What do Geologists do? Discussion with the 2nd and 3rd grades at Jefferson Elementary School, Milwaukee, WI and 4th, 5th, and 6th grades at General Mitchell Elementary School, Cudahy, WI (June 2010).

Interview for and contribution to *“Sedimental Journey”* College of Natural Sciences and Mathematics bi-annual newsletter, University of Alaska-Fairbanks, 2008.

Donation - Photography for *“Paleontology in Antarctica”* Burke Museum of Natural History & Culture University of Washington, Seattle, Washington, 2008.

Volunteer- *“Science Potpourri, Elementary Science for Kids”*: University of Alaska-Fairbanks Geology, Biology, Chemistry, & Physics Departments, 2005-2008.

“Ask a Geologist”: Remote Communication with the 4th and 5th Grades of West Ridge Elementary School from McMurdo Station and Beardmore Base Camp, Antarctica, 2004-2005.

“What is Antarctica and What Does a Geologist Do?” Grade School Presentations, West Ridge Elementary School, Racine, WI; Cooper Elementary School, Milwaukee, WI, 2005.

“Two Months on Ice: The Adventures of UWM Geologists in Antarctica”: American Geographical Society Library’s Academic Adventurers Series, University of Wisconsin-Milwaukee, Milwaukee, WI, 2005.