

Peter P. Flaig

Professional Summary

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Professional Preparation

Academic Background

Postdoctoral Fellow, The University of Texas at Austin, 2011
Ph.D. Geology, University of Alaska--Fairbanks, 2010
M.S. Geology, University of Wisconsin--Milwaukee, 2005
B.S. Geology, University of Wisconsin--Milwaukee, 2002

Professional Appointments

Present Position: Research Associate, Bureau of Economic Geology, The University of Texas at Austin (2011 - Present). Lead scientist on fluvial-deltaic studies, Quantitative Clastics Laboratory.

Research Scientist: Sedimentologist-stratigrapher, STARR (State of Texas Advanced Resource Recovery) (January 2019-July 2021)
Current Appointment

Instructor, GeoFORCE Alaska, The University of Texas at Austin and University of Alaska--Fairbanks (2010-2018)

Responsibilities: Lead instructor for 9th Grade Academy, Geology Field Trip: Alaska Fairbanks, Denali National Park, Anchorage, Matanuska Glacier

Instructor, The University of Texas at Austin (2013-2016)
Summer Field Geology Course #660

Instructor, GeoFORCE Texas, The University of Texas at Austin (2010-2014)

Responsibilities: Lead Instructor for 10th Grade Academy, Geology Field Trip: Southwestern United States and the Grand Canyon

Sedimentologist, National Science Foundation Office of Polar Programs project OPP/ANT 0944282 (2010-2011)

Project: Paleoenvironmental and paleoclimatic analysis of the Beacon Supergroup, Beardmore Glacier Area, Central Transantarctic Mountains, Antarctica.

Postdoctoral Fellow, Bureau of Economic Geology, The University of Texas at Austin (2009 - 2011). Project: Morphology and architecture of Cretaceous-age fluvial/alluvial/shallow-marine depositional systems of North America.

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.

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

Geologist (internship), FEX/Talisman Energy, Alaska (2008 - 2008). Project: Late Cretaceous to early Tertiary regional geology and reservoir potential of the Central North Slope, Alaska.

Graduate Teaching Assistant, Department of Geology and Geophysics, University of Alaska--Fairbanks (2005 - 2006). Responsible for implementing curriculum for undergraduate courses in Sedimentology and Introductory Geology.

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

Theses

Changing Fluvial Style across the Permian-Triassic Boundary, Beardmore Glacier Region, Central Transantarctic Mountains, Antarctica, 2002, 288 p.

Dissertations

Depositional Environments of the Late Cretaceous (Maastrichtian) Dinosaur-Bearing Prince Creek Formation: Colville River Region, North Slope, Alaska, 311 p.

Areas of Expertise

Areas of Expertise

Clastic sedimentology

Fluvial sedimentology

Paleoenvironmental reconstruction of continental to shallow-marine systems using sedimentology, stratigraphy, architecture, and ichnology in outcrop studies

Paleopedology

Photography and high-resolution imagery (e.g. lidar, GigaPan) of clastic systems

Remote logistics

Publications

Peer Reviewed Journal Articles

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, Eastern Shelf of the Permian Basin, Texas, USA: *Geosciences*, v. 14, no. 12, article no. 339, 28 p., <http://doi.org/10.3390/geosciences14120339>.

Speed, C. M., Sylvester, Z., Durkin, P. R., and Flaig, P. P., 2024, Three-dimensional anatomy of a Cretaceous river avulsion: *Geology*, v. 52, no. 12, p. 885-890, <http://doi.org/10.1130/G52254.1>.

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*, Special Issue: Reconstructing past Arctic environments: climate, ecosystems, and depositional systems, v. 13, no. 9, article no. 273, 15 p., <http://doi.org/10.3390/geosciences13090273>.

Calle, A. Z., Horton, B. K., García, 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 Sciences*, v.

125, no. 104286, 19 p., <http://doi.org/10.1016/j.jsames.2023.104286>.

Sharman, G. R., Covault, J. A., Flaig, P. P., Dunn, R., Fussee-Durham, P., Larson, T. E., Shanahan, T. M., Dubois, K., Shaw, J. B., Crowley, J. L., and Shaulis, B., 2023, Coastal response to global warming during the Paleocene-Eocene Thermal Maximum: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 625, no. 111664, 15 p., <http://doi.org/10.1016/j.palaeo.2023.111664>.

Buntin, R. C. C., Hasiotis, S. T., and Flaig, P. P., 2022, Evaluating the ichnofossil *Teredolites* as an indicator of salinity and paleoenvironment: *Palaios*, v. 37, no. 3, p. 53-72, <http://doi.org/10.2110/palo.2020.074>.

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, no. 1, p. 5-14, <http://doi.org/10.2110/sedred.2022.1.2>.

Burnham, B. S., Flaig, P. P., Brice, R. R., Spagnolo, M., and Young, M. H., 2022, Rapid sediment re-deposition may limit carbon release during catastrophic thermokarst lake drainage: *GSA Today*, v. 32, no. 5, p. 60-61, <http://doi.org/10.1130/GSATG529GW.1>.

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.

Ludvigson, G. A., Diefendorf, A. F., Suarez, M. B., González, L. A., Corcoran, M. C., Schlanser, K., Flaig, P. P., McCarthy, P. J., van der Kolk, D., Houseknecht, D., and Sanders, M., 2022, Stable isotope tracers of cretaceous arctic paleoprecipitation: *Geosciences*, v. 12, no. 143, 17 p., <http://doi.org/10.3390/geosciences12040143>.

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, Texas: *AAPG Bulletin*, v. 106, no. 8, p. 1679-1702, <http://doi.org/10.1306/02072221057>.

Bonelli, J. R., Jr., and Flaig, P. P., 2021, Quantitative biofacies analysis to identify relationships and refine controls on paleosol development, Prince Creek Formation, North Slope Alaska, USA: *Geosciences*, v. 11, no. 460, 21 p., <http://doi.org/10.3390/geosciences11110460>.

Senger, K., Betlem, P., Birchall, T., Buckley, S. J., Coakley, B., Eide, C. H., Flaig, P. P., Forien, M., Galland, O., Gonzaga, L., Jr., and 13 others, 2021, Using digital outcrops to make the high Arctic more accessible through the Svalbox database: *Journal of Geoscience Education*, v. 69, no. 2, p. 123-137, <http://doi.org/10.1080/10899995.2020.1813865>.

Zhang, J., Flaig, P. P., Wartes, M., Aschoff, J., and Shuster, M., 2021, Integrating stratigraphic modelling, inversion analysis, and shelf-margin records to guide provenance analysis: an example from the Cretaceous Colville Basin, Arctic Alaska: *Basin Research*, v. 33, no. 3, p. 1954-1966, <http://doi.org/10.1111/bre.12543>.

Ambrose, W. A., Flaig, P., Zhang, J., Olariu, M. I., Denison, C., Demchuk, T., and O'Keefe, J., 2020, The Midway to Carrizo succession in the southeastern Texas Gulf Coast: evolution of a tidally influenced coastline: *GCAGS Journal*, v. 9, p. 41-75.

Chiarenza, A.A., Fiorillo, A.R., Tykoski, R.S., McCarthy, P.J., Flaig, P. P., and Contreras, D.L., 2020, The first juvenile dromaeosaurid (Dinosauria: Theropoda) from Arctic Alaska: *PLoS ONE*, v. 15 (7), no. e0235078, 30 p., <http://doi.org/10.1371/journal.pone.0235078>.

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, no. 12, p. 1181-1206, <http://doi.org/10.2110/jsr.2019.63>.

Flaig, P. P., Hasiotis, S.T., and Fiorillo, A. R., 2017, A paleopolar dinosaur track site in the

Cretaceous (Maastrichtian) Prince Creek Formation of Arctic Alaska: track characteristics and probable trackmakers: *Ichnos*, v. 24, p. 1-13, <http://doi.org/10.1080/10420940.2017.1337011>.

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 Sege 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>.

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>.

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>.

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>.

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>.

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>.

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>.

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>.

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: *New Frontiers in Paleopedology and Terrestrial Paleoclimatology*, SEPM Special Publication No. 114, p. 179-230.

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: Bojar, A. V., Melinte-Dobrinescu, M. C., and Smit, J., eds., *Isotopic Studies in Cretaceous Research*, Geological Society of London, Special Publications 382, p. 185-202, <http://doi.org/10.1144/SP382.3>.

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.

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. DOI 10.2110/JSR.2011.31

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.

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.

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.

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, no. 1, p. 178-187.

Peer Reviewed Book Chapters

Sharman, G. R., Stockli, D. F., Flaig, 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): Boulder, Colo., Geological Society of America, Special Paper, v. 555, p. 293-311, [http://doi.org/10.1130/2021.2555\(11\)](http://doi.org/10.1130/2021.2555(11)).

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, no. 540, 24 p., [http://doi.org/10.1130/2018.2540\(24\)](http://doi.org/10.1130/2018.2540(24)).

Guidebooks

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

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

Wood, D. H., 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 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 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 Souther Colorado, U.S.A.: The

University of Texas at Austin, Bureau of Economic Geology, Quantitative Clastics Laboratory 78 p.

Conference Proceedings

Garcia, H., Flaig, P. P., Denison, C., Demchuk, T., Adatte, T., Spangenberg, J., Castelltort, S., and Moscardelli, L., 2023, A multidisciplinary study of the Paleocene-Eocene thermal maximum (PETM) at the Sabinetown-Carrizo transition near Bastrop, Texas, IMAGE.

Contract Reports

Flaig, P. P., van der Kolk, D. A., 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, 94 p..

Published Reports

Moscardelli, L., Ambrose, W. A., Young, M. H., Scanlon, B. R., Flaig, P. P., Olariu, M. I., Hattori, K., Ko, L., Loucks, R. G., Radjef, E., Maraggi, L., Schuba, N., Sivil, J. E., Peng, S., Zhang, T., Sun, X., Zeng, H., Ogiesoba, O. C., Fu, Q., Reed, R. M., Rogers, H., Duncan, I. J., Dommissie, R., Jensen, J., Hessler, A., DeJarnett, B. B., and Periwal, P., 2023, State of Texas Advanced Resource Recovery (STARR) 2020-2022 biennium report: The University of Texas at Austin, Bureau of Economic Geology 51 p.

Ambrose, W. A., Rogers, H., Smith, D. C., Scanlon, B. R., Paine, J. G., Nicot, J.-P., Young, M. H., Loucks, R. G., Hentz, T. F., Reed, R. M., Ogiesoba, O. C., Olariu, M. I., Fu, Q., Flaig, P. P., Zhang, J., Hattori, K., Roberts, A., Zeng, H., DeJarnett, B. B., Radjef, E., Periwal, P., Peng, S., Duncan, I. J., Ren, B., Jensen, J., Male, F., Dommissie, R., Eastwood, R., Carr, D. L., Zhang, T., Ko, L., Larson, T., Lawton, T., Covault, J., Sylvester, Z., Goodman, E., Calle, A., Smye, K. G., Pelletier, I., Dunlap, D. B., Lambert, J., and Sivil, J. E., 2021, State of Texas Advanced Resource Recovery (STARR) 2018-2020 biennium report: The University of Texas at Austin, Bureau of Economic Geology 44 p.

Flaig, P. P., and van der Kolk, Dolores 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 and Geophysical Surveys, Preliminary Interpretive Report, v. 2015, no. 4, 17 p.

Workshop Workbooks

Flaig, P. P., Hattori, K., Ambrose, W. A., Fu, Q., DeJarnett, B. B., Ko, L., Radjef, E., Carr, D. L., Hasiotis, S., Ogiesoba, O. C., and Moscardelli, L., 2021, Core Workshop: Mixed Carbonate-Siliciclastic Reservoir Systems of the Strawn Group: Focus - Upper Strawn, King and Stonewall Counties, Texas: STARR.

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, Tex.

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, Tex.

Flaig, P. P., Hasiotis, S. T., and Vallega, V., 2013, Facies, ichnology, and paleoenvironmental interpretation of the CB Long C-16 & Orsborn #7 Core, Eastern Shelf of the Permian-Midland Basin, Texas.

Published Abstracts

Flaig, P., Hasiotis, S., Ambrose, W. A., Hattori, K., and DeJarnett, B. B., 2021, The importance of integrating sedimentology and ichnology to accurately interpret the spatial-temporal relationship of mixed carbonate-clastic coastal-shelfal depositional systems, Pennsylvanian (Desmoinesian) Strawn Group, Texas (abs.): Geological Society of America Abstracts with

Programs, v. 53, no. 6, item no. 12-4, <http://doi.org/10.1130/abs/2021AM-371245>.

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 (abs.): 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 (abs.): Geological Society of America Annual Meeting, Indianapolis, Ind.

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 (abs.): 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 (abs.): 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 (abs.): American Association of Petroleum Geologists Annual Convention and Exhibition, Salt Lake City, Utah.

Buynevich, I. V., Hasiotis, S. T., Weist, L. A., and Flaig, P. P., 2017, Vanished with a trace: ichnological applications to extinction-recovery research (abs.): Geological Society of America Annual Meeting, Seattle, Wash.

Cale, 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 (abs.): Geological Society of America Annual Meeting, Seattle, Wash.

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 (abs.): 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 (abs.): American Association of Petroleum Geologists Annual Convention and Exhibition, Houston, Tex.

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 (abs.): 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 (abs.): Geological Society of America Annual Meeting, Seattle, Wash.

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 (abs.): American Association of Petroleum Geologists Annual Convention and Exhibition, Houston, Tex.

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 (abs.): 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 (abs.): 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 (abs.): 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 (abs.): 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 (abs.): Geological Society of America Annual Meeting, Denver, Colo.

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 (abs.): Geological Society of America Annual Meeting, Denver, Colo.

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 (abs.): American Association of Petroleum Geologists International Convention and Exhibition, Barcelona, Spain.

Jones, R. H., Flaig, P. P., and Hasiotis, S. T., 2016, Importance of ichnology in defining paleoenvironments along an ancient complex coastline: the Anchor Mine Tongue and Upper Sege Equivalent of Rangely, Colorado (abs.): Geological Society of America Annual Meeting, Denver, Colo.

McCarthy, P. J., Fiorillo, A. R., Tomsich, C. S., Flaig, P. P., Salazar-Jaramillo, S., Wright, T. C., Kobayashi, Y., Fowell, S. J., and Benowitz, J., 2016, A regional high-latitude paleoclimatic and paleoecological transect: comparison of Late Cretaceous lower Cantwell (Denali National Park) and Prince Creek (North Slope) Formations, Alaska, USA (abs.): Centennial Science and Stewardship Symposium, National Park Service, Alaska Region, Fairbanks, Alaska.

Murphy, A. V., and Flaig, P. P., 2016, An integrated, high-resolution sedimentologic, ichnologic, and geocellular modelling study of the Sege-Neslen Transition, Book Cliffs, Utah (abs.): Geological Society of America Annual Meeting, Denver, Colo.

Prather, T., Flaig, P. P., and Hasiotis, S. T., 2016, The potential temporal significance of a high-abundance, high-diversity ichnologic assemblage in an otherwise apparently river dominated deltaic succession: the Cretaceous Loyd Delta, Rangely, Colorado (abs.): American Association of Petroleum Geologists Annual Convention and Exhibition, Calgary, Alberta, Canada.

van der Kolk, D. A., Flaig, P. P., and Hasiotis, S. T., 2016, Stratigraphic architecture, sedimentology, and ichnology of Late Cretaceous storm-flood, river dominated deltas vs. storm

dominated deltas (abs.): American Association of Petroleum Geologists Annual Convention and Exhibition, Calgary, Alberta, Canada.

van der Kolk, D. A., Flaig, P. P., and Hasiotis, S. T., 2016, Stratigraphic evolution of a paleopolar topset-clinoform system: Upper Cretaceous Schrader Bluff - Prince Creek Formations, Arctic Alaska, USA (abs.): American Association of Petroleum Geologists International Convention and Exhibition, Barcelona, Spain.

Woolf, K. S., Wood, L. J., and Flaig, P. P., 2016, Facies analysis and depositional systems of the Cenomanian-Turonian Lower Tuscaloosa Formation, Gulf of Mexico (abs.): 36th Annual GCSSEPM Foundation Perkins-Rosen Research Conference, Houston, Tex.

Flaig, P. P., Hasiotis, S. T., and Jackson, A. M., 2015, An Early Permian, post-glacial, river-dominated, paleopolar delta: hyperpycnites and shelf channels at the Mackellar-Fairchild Transition, Turnabout Ridge, Central Transantarctic Mountains, Antarctica (abs.): American Association of Petroleum Geologists International Convention and Exhibition, Melbourne, Australia.

Flaig, P. P., Hasiotis, S. T., Prather, T., and Jackson, A. M., 2015, A tale of two deltas: comparative analysis of ancient "river-dominated" deltaic systems from outcrops of the Permian in Antarctica and the Cretaceous of Colorado (abs.): Geological Society of America Annual Meeting, Baltimore, Md.

Flaig, P. P., van der Kolk, D. A., and Hasiotis, S. T., 2015, Heterogeneities in strata of the Cretaceous Prince Creek Formation driven by paleoenvironmental conditions on the Coastal Plain of Arctic Alaska: effects on reservoir quality and geometries (abs.): Geological Society of America Cordilleran Section - 111th Annual Meeting, Anchorage, Alaska.

Hasiotis, S. T., and Flaig, P. P., 2015, Latitudinal controls on the distribution of trace fossils and resultant textures in continental deposystems: a comparison of Triassic continental deposits from the Chinle Formation (Colorado Plateau, USA) and the Fremouw Formation (Beardmore Glacier Area, Antarctica) (abs.): First International Congress on Continental Ichnology, El Jadida, Morocco.

Hasiotis, S. T., Flaig, P. P., and Jackson, A. M., 2015, Marine and continental ichnology of Permian-Triassic high-latitude depositional systems during greenhouse conditions: Victoria Group (Beacon Supergroup), Central Transantarctic Mountains, Antarctica (abs.): American Association of Petroleum Geologists International Convention and Exhibition, Melbourne, Australia.

Hasiotis, S. T., Gingras, M. K., Halfan, A. H., Jackson, A. M., Flaig, P. P., and van der Kolk, D. A., 2015, Latitudinal distribution of trace fossils in continental and marine depositional systems: controls, trends, and caveats (abs.): American Association of Petroleum Geologists Annual Convention and Exhibition, Denver, Colo.

Hasiotis, S. T., van der Kolk, D. A., and Flaig, P. P., 2015, Ichnology of the Schrader Bluff-Prince Creek Formations at Shivugak Bluffs, North Slope of Alaska (abs.): Geological Society of America Cordilleran Section - 111th Annual Meeting, Anchorage, Alaska.

Jones, R. H., Flaig, P. P., and Hasiotis, S. T., 2015, Paleoenvironments of Anchor Mine Tongue and Upper Seago equivalent strata in the Rangely area of Colorado: tidally influenced deposits and variable ichnology along a complex coastline (abs.): Geological Society of America Annual Meeting, Baltimore, Md.

McCarthy, P. J., Fiorillo, A. R., Tomsich, C. S., Flaig, P. P., Salazar-Jaramillo, S., Wright, T. C., Kobayashi, Y., Fowell, S. J., and Benowitz, J., 2015, A regional north-south high-latitude paleoclimatic and paleoecological transect: comparison of the Late Cretaceous (Maastrichtian) Prince Creek and Lower Cantwell Formations, Alaska, USA (abs.): Geological Society of America Cordilleran Section - 111th Annual Meeting, Anchorage, Alaska.

McCarthy, P. J., Fiorillo, A. R., Tomsich, C. S., Flaig, P. P., Salazar-Jaramillo, S., Wright, T. C.,

Kobayashi, Y., Fowell, S. J., and Benowitz, J., 2015, Regional variability across a Late Cretaceous (Maastrichtian) Arctic greenhouse critical zone: a comparative assessment of the Prince Creek and Lower Cantwell Formations, Alaska, USA (abs.): Geological Society of America Annual Meeting, Baltimore, Md.

Moore, S., Paine, J. G., Caudle, T., Costley, R., Flaig, P. P., Frébourg, G., and Scanlon, B. R., 2015, The approach and success of the GeoFORCE program at the Jackson School of Geosciences for closing the diversity gap in geosciences (abs.): Geological Society of America Abstracts with Programs, v. 47, no. 7, p. 108.

Prather, T., Flaig, P. P., and Hasiotis, S. T., 2015, Should a "typical" river-dominated delta with a high-diversity trace fossil assemblage be classified as river-dominated? A combined stratigraphic, architectural, and ichnologic analysis of the Loyd Sandstone (Late Cretaceous) near Rangely, Colorado (abs.): American Association of Petroleum Geologists Annual Convention and Exhibition, Denver, Colo.

van der Kolk, D. A., Flaig, P. P., and Hasiotis, S. T., 2015, Clastic sedimentology, stratal architecture, and preliminary sequence stratigraphic framework of Upper Cretaceous shelf, shoreface, and fluvio-deltaic deposits, Shivugak Bluffs, North Slope of Alaska (abs.): Geological Society of America Cordilleran Section - 111th Annual Meeting, Anchorage, Alaska.

van der Kolk, D. A., Flaig, P. P., and Hasiotis, S. T., 2015, The Schrader Bluff-Prince Creek Formation transition at Shivugak Bluffs: a paleoenvironmental reconstruction of a muddy, polar deltaic system from Late Cretaceous Arctic Alaska (abs.): Geological Society of America Cordilleran Section - 111th Annual Meeting, Anchorage, Alaska.

White, J. G., Hasiotis, S. T., Vallega, V., and Flaig, P. P., 2015, Reconstruction of paleoenvironments through integrative sedimentology and ichnology from core and formation micro-imager (FMI) logs in the Kinder Morgan Katz Field Unit, North-Central Texas (abs.): American Association of Petroleum Geologists Annual Convention and Exhibition, Denver, Colo.

Dunlap, D., Flaig, P. P., Burton, D., Prather, T., and Wood, L. J., 2014, Integration of remote sensing outcrop data and subsurface information to define high-resolution lithologic facies variability within interbedded sandstones of the Upper Cretaceous Mancos Shale of Western Colorado (abs.): American Association of Petroleum Geologists Hedberg Conference on Visualization Techniques, Houston, Tex.

Fiorillo, A. R., McCarthy, P. J., and Flaig, P. P., 2014, Niche partitioning between the two Dinosaurian megaherbivores *Edmontosaurus* and *Pachyrhinosaurus* in the Cretaceous Arctic North Slope, Alaska (Prince Creek Formation: Early Maastrichtian) (abs.): Society of Vertebrate Paleontologists Annual Meeting, Berlin, Germany.

Flaig, P. P., Burton, D., Wood, L. J., 2014, Identifying the nature and extent of the Loyd Sandstone member of the Mancos Shale in outcrop and subsurface data in the Rangely area of Colorado (poster presentation) (abs.): AAPG Annual Convention and Exhibition, Houston, April 2014.

Flaig, P. P., McCarthy, P. J., Fiorillo, A. R., van der Kolk, D. A., and Salazar-Jaramillo, S., 2014, A high-latitude signature evidenced by distinctive, recurring facies and sedimentary-pedogenic structures in the Late Cretaceous Prince Creek Formation, North Slope of Alaska, USA (abs.): AAPG/SEPM Hedberg Research Conference: Latitudinal Controls on Stratigraphic Models and Sedimentary Concepts, Banff, Alberta, Canada.

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marine and continental deposits in Permian-Triassic strata of the Beacon Supergroup, Beardmore Glacier Area, central Transantarctic Mountains, Antarctica (poster presentation) (abs.): AAPG Annual Convention and Exhibition, Houston, April 2014.

Hudock, J. W., Flaig, P. P., Wood, L. J., 2014, Complex Cretaceous shorelines existed during deposition of the McMurray Formation of Alberta, Canada as evidenced by bedrock-controlled estuaries and associated flood tidal deltas in the Upper McMurray (poster presentation) (abs.): AAPG Annual Convention and Exhibition, Houston, April 2014.

van der Kolk, D. A., Flaig, P. P., and Hasiotis, S. T., 2014, In pursuit of a high-latitude signature during the Late Cretaceous greenhouse: a comparison between shallow marine storm deposits in the Schrader Bluff Formation, Alaska and the Kenilworth and Grassy Members of the Blackhawk Formation, Utah (abs.): AAPG/SEPM Hedberg Research Conference: Latitudinal Controls on Stratigraphic Models and Sedimentary Concepts, Banff, Alberta, Canada.

White, J. G., Flaig, P. P., Hasiotis, S. T., and Over, D. J., 2014, Reconstruction of paleoenvironments through integrative sedimentology and ichnology of the Pennsylvanian Strawn Formation in the Katz Field, North-Central Texas (abs.): Southwest Section of the American Association of Petroleum Geologists Annual Meeting, Midland, Tex.

White, J. G., Vallega, V., Flaig, P. P., and Hasiotis, S. T., 2014, Preliminary lithofacies interpretation from formation micro-imager (FMI) logs in the Kinder Morgan Katz Field Unit, North-Central Texas, (abs.): West Texas Geological Society Annual Fall Symposium, Midland, Tex.

Flaig, P. P., Hasiotis, S. T., Isbell, J. L., and Jackson, A., 2013, River-dominated deltas of the Mackellar Formation at Turnabout Ridge, Central Transantarctic Mountains, Antarctica: Hyperpycnal flows and highly-stressed conditions (oral presentation), 10th International Conference on Fluvial sedimentology, Leeds, UK

Flaig, P. P., Hasiotis, S. T., Isbell, J. L., and Sieger, D. N., 2013, Sedimentology and Ichnology of Permo-Triassic Strata at Lamping Peak, Central Transantarctic Mountains, Paleopolar Forests Lakes and Braided Rivers in a Greenhouse World (oral presentation), Geological Society of America Annual Meeting, Minneapolis, MN.

Flaig, P. P., Hasiotis, S. T., Jackson, A., and Isbell, J. L., 2013, Lower Permian Antarctic marine deltas of the Mackellar Formation: Turnabout Ridge, Beardmore Glacier Region, Central Transantarctic Mountains, Antarctica (abs.): in American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, Pennsylvania, May 19-22, abstracts, CD-ROM.

Flaig, P. P., Hasiotis, S. T., Jackson, A., and Isbell, J. L., 2013, Lower Permian Antarctic Marine Deltas of the Mackellar Formation: Turnabout ridge, Beardmore Glacier Region, Central Transantarctic Mountains, Antarctica (oral presentation), American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, PA

Hasiotis, S. T., and Flaig, P. P., 2013, Trace fossil and lithofacies associations, Lower Triassic Fremouw Formation, Beardmore Glacier, Central Transantarctic Mountains, Antarctica (abs.): in American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, Pennsylvania, May 19-22, abstracts, CD-ROM.

Hasiotis, S. T., Flaig, P. P., Isbell, J. L., Gulbranson, E. L., and Sieger, D. N., 2013, Ichnofossils as Proxies for Polar Ecosystems and Climates: An Example of a Hydroclimate Shift in Permian-Triassic Continental Deposits of the Beardmore Glacier Region of Antarctica (oral presentation), Geological Society of America Annual Meeting, Minneapolis, MN.

Hudock, J., Wood, L. J., and Flaig, P. P., 2013, Characterizing Cretaceous Estuarine Deposits of the McMurray Formation in Alberta, Canada: Washover Fans vs. Flood Tidal Deltas (oral presentation), American Association of Petroleum Geologists International Convention and Exhibition, Cartagena, Columbia

Jackson, A., Hasiotis, S. T., and Flaig, P. P., 2013, Ichnology and Sedimentology of the Lower

Permian Mackellar Formation at Turnabout Ridge and Buckley Island, Beardmore Glacier, Central Transantarctic Mountains (CTAM) Antarctica: A Shallow Marine Deltaic Environment (poster presentation), American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, PA

Jackson, A., Hasiotis, S. T., Flaig, P. P., and Isbell, J. L., 2013, Ichnology and sedimentology of the Lower Permian Mackellar Formation at Turnabout Ridge and Buckley Island, Beardmore Glacier, Central Transantarctic Mountains (CTAM), Antarctica: A shallow deltaic marine environment (abs.): in American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, Pennsylvania, May 19-22, abstracts, CD-ROM.

Ludvigson, G., Gonzalez, L. A., Suarez, C., Fiorillo, A. R., McCarthy, P. J., and Flaig, P. P., 2013, Exploring the Role of the Hydrologic Cycle in Arctic Amplification During the Greenhouse Worlds of the Cretaceous and Paleocene (oral presentation), Geological Society of America Annual Meeting, Denver, CO.

van der Kolk, D. A., Flaig, P. P., Hasiotis, S. T., and Wood, L. J., 2013, Applying GigaPan Robotic Photo-Panorama technology to Enhance Facies and Architectural analyses of the Upper Cretaceous Schrader Bluff and Prince Creek Formations at Shivugak Bluffs, North Slope of Alaska, USA (poster presentation), American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, PA

van der Kolk, D. A., Flaig, P. P., Hasiotis, S. T., and Wood, L. J., 2013, Applying GigaPan Robotic photo-panorama technology to enhance facies and architectural analyses of the Upper Cretaceous Schrader Bluff and Prince Creek Fms at Shivugak Bluffs, North Slope of Alaska, USA (abs.): in American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, Pennsylvania, May 19-22, abstracts, CD-ROM.

Hasiotis, S. T., and Flaig, P. P., 2012, Continental trace fossils of the Lower Triassic Fremouw Formation, Beardmore Glacier Area, Central Transantarctic Mountains, Antarctica: implications for Pangean ichnodiversity and paleogeography (abs.), in 34th International Geological Congress, Brisbane, Australia.

Hasiotis, S. T., and Flaig, P. P., 2012, Horseshoe crabs lived in Antarctic freshwater rivers and lakes: trace fossil evidence from the Buckley and Fremouw Formations, Beardmore Glacier Area, Central Transantarctic Mountains (CTAM) Antarctica (abs.), in Geological Society of America Annual Meeting and Convention, Charlotte, NC.

Hasiotis, S. T., Flaig, P. P., Jackson, A., 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 (abs.), in 34th International Geological Congress, Brisbane, Australia.

Jackson, A., Hasiotis, S. T., and Flaig, P. P., 2012, Preliminary report of trace fossils and sedimentology indicating a shallow marine deltaic environment for the Lower Permian Mackellar Formation at Turnabout Ridge and Buckley Island, Beardmore Glacier, Central Transantarctic Mountains (CTAM) Antarctica (abs.), in Geological Society of America Annual Meeting and Convention, Charlotte, NC.

Flaig, P. P., 2011, Accommodation as a control on coastal-plain architecture observations and analyses of the Cretaceous versus Paleocene Prince Creek Formation, North Slope, Alaska (abs.): American Association of Petroleum Geologists Annual Convention & Exhibition Abstracts Volume, v. 20, p. 60.

Flaig, P. P., Hasiotis, S. T., van der Kolk, D. A., and Fiorillo, A. R., 2011, Light aircraft, trenching tools, and inflatables--old tools used for new frontiers in trace fossil research (abs.), in Geological Society of America Northeastern and North-Central Joint Meeting, Pittsburgh, Pennsylvania.

Flaig, P. P., Isbell, J. L., and Hasiotis, S. T., 2011, Tectonically driven facies and architectural

change across the Permian-Triassic boundary: Beardmore Glacier Region, Central Transantarctic Mountains, Antarctica (abs.), in Geological Society of America Annual Meeting, Minneapolis, MN.

Flaig, P. P., van der Kolk, D. A., and Garrard, R., 2011, Regional geology and reservoir potential of the Schrader Bluff, Prince Creek, and Sagwon Member of the Sagavanirktok formation, (Late Cretaceous-Early Tertiary), North Slope, Alaska (abs.) in American Association of Petroleum Geologists Pacific Section Meeting, Anchorage, Alaska.

Flaig, P. P., van der Kolk, D. A., Burton, D., Garrard, D., and Wood, L. J., 2011, Lidar-enhanced facies, architectural, and statistical analyses of a potential Paleocene reservoir: the Prince Creek Formation at Sagwon Bluffs, North Slope, Alaska (abs.), in Geological Society of America Annual Meeting, Minneapolis, MN.

Flaig, P. P., van der Kolk, D. A., Burton, D., Garrard, D., and Wood, L. J., 2011, LiDAR-enhanced facies, architectural, and statistical analyses of a potential Paleocene reservoir: The Prince Creek formation at Sagwon Bluffs, North Slope, Alaska (oral presentation), Geological society of America Annual Meeting, Minneapolis, MN

Flaig, P. P., van der Kolk, D. A., Garrard, D., Burton, D., and Wood, L. J., 2011, Integrated facies analysis, lidar-enhanced architectural analysis, and petrography of a potential Paleocene reservoir: the Prince Creek Formation at Sagwon Bluffs, North Slope, Alaska (abs.) in American Association of Petroleum Geologists Pacific Section Meeting, Anchorage, Alaska.

Hasiotis, S. T., van der Kolk, D. A., Flaig, P. P., and Wood, L. J., 2011, Preliminary report on the trace fossils in a shoreface to coastal-plain transition: the Schrader Bluff and Prince Creek Formations at Shivugak Bluff, North Slope, Alaska (abs.), in American Association of Petroleum Geologists Pacific Section Meeting, Anchorage, Alaska.

McCarthy, P. J., Flaig, P. P., and Fiorillo, A. R., 2011, Paleoenvironmental reconstruction of a high-latitude coastal-plain: The Upper Cretaceous (Maastrichtian) Prince Creek Formation, North slope, Alaska (abs.), in International Conference on Arctic Margins, Fairbanks, Alaska.

Sieger, D. N., Isbell, J. L., Koch, Z. J., and Flaig, P. P., 2011, Reexamination of fluvial stacking pattern across the Permian-Triassic boundary in the Central Transantarctic Mountains, Antarctica (abs.), in Geological Society of America Annual Meeting, Minneapolis, MN.

Suarez, C., Ludvigson, G., Gonzalez, L. A., Fiorillo, A. R., McCarthy, P. J., Lollar, J. C., and Flaig, P. P., 2011, Investigations of Late Cretaceous Arctic paleohydrology by integration of terrestrial stable isotope proxies (abs.), in Geological society of America Annual Meeting, Minneapolis, MN.

van der Kolk, D. A., Flaig, P. P., Hasiotis, S. T., and Wood, L. J., 2011, High-latitude shoreface to coastal-plain transitions: The Schrader Bluff and Prince Creek Formations at Shivugak Bluff, North Slope, Alaska (abs.), in American Association of Petroleum Geologists Pacific Section Meeting, Anchorage, Alaska.

Flaig, P. P., and McCarthy, P. J., 2010, A snapshot of a warm Cretaceous Arctic: the Prince Creek Formation, North Slope, Alaska (abs.), in Reconstructing Arctic and Beringian Ecosystems and Environments as Proxies for Understanding Recent High-Latitude Climate Change, International Arctic Research Center International Meeting, Fairbanks, Alaska.

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. (abs.), in SEPM-NSF Research Conference and Workshop: Paleosols and Surface Systems Analogues, Petrified Forest National Park, Holbrook, Arizona.

Flaig, P. P., McCarthy, P. J., and Fiorillo, A. R., 2010, Integrated paleopedology and palynology of the Late Cretaceous (Maastrichtian) Prince Creek Formation, North Slope Alaska, U.S.A. (abs.), in American Geophysical Union National Conference and Exhibition, San Francisco,

California.

Flaig, P. P., McCarthy, P. J., and Fiorillo, A. R., 2010, Tidally-influenced sedimentation on a high-latitude Cretaceous coastal-plain: the Prince Creek Formation, North Slope, Alaska (abs.), in American Association of Petroleum Geologists International Conference and Exhibition, Calgary, Alberta, Canada.

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 (abs.), in Geological Society of America National Conference and Exhibition, Denver, Colorado.

Flaig, P. P., McCarthy, P. J., and Fiorillo, A. R., 2008, Alluvial architecture and fluvial facies of tidally-influenced alluvial/delta plain deposits of the Late Cretaceous Prince Creek Formation: Colville Basin, North Slope, Alaska (abs.), in River to Rock Record, International Conference, Aberdeen, Scotland.

Flaig, P. P., McCarthy, P. J., and Fiorillo, A. R., 2008, Tidally-influenced, high-latitude alluvial/deltaic deposits of the dinosaur-bearing Late Cretaceous Prince Creek Formation: North Slope, Alaska (abs.), in Geological Society of America National Meeting, Houston, Texas.

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 (abs.), in 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 (abs.), in Ceratopsian Symposium, Royal Tyrrell Museum, Drumheller, Alberta, Canada.

McCarthy, P. J., Brandlen, E., Flaig, P. P., and Fiorillo, A. R., 2007, Late Cretaceous, high latitude paleoenvironments at the Kikak-Tegoseak Dinosaur Site, Prince Creek Formation, North Slope Alaska (abs.), in Geological Society of America National Meeting, Denver, Colorado.

McCarthy, P. J., Brandlen, E., Flaig, P. P., and Fiorillo, A. R., 2007, Late Cretaceous, high latitude paleoenvironments at the Kikak-Tegoseak Dinosaur Site, Prince Creek Formation, North Slope Alaska (abs.), in Joint North-Central and South-Central Geological Society of America Meeting, University of Kansas, Lawrence, Kansas.

Flaig, P. P., and Isbell, J. L., 2005, Changes in fluvial architecture across the Permian-Triassic boundary, Beardmore Glacier Region, Central Transantarctic Mountains, Antarctica (abs.), in Geological Society of America National Meeting, Salt Lake City, Utah.

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? (abs), in 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? (abs.) 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.

Flaig, P. P., Knepprath, N. E., Borosund, M. N., Isbell, J. L., and Miller, M. F., 2003, Composition and tectonic setting of the Lower Permian Weller Coal Measures, Southern Victoria Land, Antarctica (abs.): Geological Society of America, North Central Meeting, Kansas City, Kans.

Service

University Committees

Member, Grants, Appointments, and Awards Committee (GAAC), Jackson School of Geosciences, Bureau of Economic Geology, The University of Texas at Austin, January 1, 2018-Present

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

External Committees Participation

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

Published Interviews

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, Tex.

Outreach Activities

Instructor/Geologist: GeoFORCE Texas 10th Grade Academy, Geoscience Field Trip, Southwestern United States and Grand Canyon: 2010-2018.

Instructor/Geologist: GeoFORCE Alaska 11th Grade Academy, Geoscience Field Trip, Rocky Mountains: July 2015-Present.

Instructor/Geologist: GeoFORCE Alaska 9th Grade Academy, Geoscience Field Trip, Alaska - Fairbanks, Denali National Park,

Anchorage, Turnagain Arm, Matanuska Glacier: June 2012-Present.

Proposal Review Panels Participation

Geology, Sedimentology, Journal of Sedimentary Research, Geosphere (Article), 2018

Sedimentology, Sedimentary Geology, Geosphere (Article), 2017

American Chemical Society Petroleum Research Fund (New Directions Research Grants), 2016

Interpretation, SEPM Special Publication, Geology (Article), 2016

Journal of Sedimentary Research, United States Geological Society Report (Article), 2015

Sedimentology, Journal of Sedimentary Research, Marine and Petroleum Geology (Article), 2014

Journal of Sedimentary Research, Journal of the Geological Society of London (Article), 2013

Bureau of Economic Geology, The University of Texas at Austin Report of Investigations (Article), 2012

Geology, Journal of Sedimentary Research (Article), 2012

Journal of Sedimentary Research (Article), 2011

Society for Sedimentary Geology (Conference Volume: 29th Annual Gulf Coast SEPM Perkins Conference), 2010

2013, Article: Journal of the Geological Society.

Teaching and Advising

University Courses Taught

GEO 660: Field Geology: Utah, Wyoming; Jackson School of Geosciences, The University of Texas at Austin, June 1, 2013-July 1, 2016.

Field Trips Leadership

Co-Leader, Fluvial and Coastal Clastic Sedimentology and Ichnology in Modern Environments and Core (SEPM), AAPG, Galveston, Tex., April 1-2, 2017.

Co-Leader, Wave, Tide, and River-Dominated Systems of the Cretaceous Western Interior Seaway: The Kenilworth and Grassy Members of the Blackhawk, the Segó, 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.

Student Committee Supervision

Committee Co-Supervisor, PhD Committee, Cole Speed, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, 2020

Committee Co-Supervisor, MS Thesis, Keri Belcher, Sedimentology, Ichnology, Architecture, and Subsurface Correlation of a Detached Shelf Sand: The Blair Sandstone (Cretaceous), Rock Springs Uplift, Wyoming, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, 2018

Committee Co-Supervisor, MS Thesis, Ashlyn Murphy, Paleoenvironmental Reconstruction of a Heterogeneous, Tidally Influenced Reservoir Analogue: The Neslen Formation near Harley Dome, Utah, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, 2017

Committee Co-Supervisor, MS Thesis, Rebecca Jones, Comparative Paleoenvironmental and Architectural Analyses of the Anchor Mine Tongue to Upper Segó Interval Along the Book Cliffs of Utah and the Rangley Anticline of Colorado, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, 2016

Committee Co-Supervisor, MS Thesis, Timothy Prather, Identifying the Nature and Extent of the Loyd Sandstone Member of the Mancos Shale in the Rangley Area of Colorado, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, 2016

Committee Co-Supervisor, MS Thesis, Jessica Huddock, 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, Jackson School of Geosciences, The University of Texas at Austin, Austin, Tex., 2013

Student Committee Participation

Member, PhD Committee, Thomas Capaldi, Cenezoic provenance, paleodrainage, and foreland basin evolution during a shift to flat-slab subduction in the Southern Andes, Argentina, Jackson School of Geosciences, The University of Texas at Austin, Austin, Tex., 2019

Committee Member, MS Thesis, Emily Beckham, CO₂ storage in deltaic environments of deposition: integration of three-dimensional modeling, outcrop analysis, and subsurface

application, Jackson School of Geosciences, The University of Texas at Austin, Austin, Tex., 2018

Member, PhD Dissertation Committee, Amanda Calle, Andean and Pre-Andean Basin Evolution Along the South American Convergent Margin: Insights from the Central Andes of Bolivia (19.5-22 Degrees South), Jackson School of Geosciences, The University of Texas at Austin, Austin, Tex., 2017

Member, PhD Dissertation, Migdalys Salazar, The Impact of Shelf Margin Geometry and Tectonics on Shelf-to-Sink Sediment Dynamics and Resultant Basin Fill Architectures, The University of Texas at Austin, 2014

Presentations

Presentations

Hidden diversity of high-latitude landscapes and seascapes--integrated ichnologic and sedimentologic research in the Beacon Supergroup, Central Transantarctic Mountains, Antarctica: presented to Transantarctic Mountain Science: Antarctic Deep Field Planning Meeting, Loveland, Colo., 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: presented to Scientific Committee on Antarctic Research Meeting, Auckland, New Zealand, 2014.

The Mackellar Inland Sea: ichnology of a stressed, river-dominated deltaic shallow marine environment, Lower Permian Mackellar Formation Central Transantarctic Mountains Antarctica: presented to Scientific Committee on Antarctic Research Meeting, Auckland, New Zealand, 2014.

Trace fossils as proxies for continental life and physiochemical factors that record a hydroclimate shift across the Permian-Triassic boundary, Beardmore Glacier Region, Central Transantarctic Mountains, Antarctica: presented to 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: presented at Southern Methodist University Colloquium Series, Dallas, Texas, April 2013.

The Late Cretaceous coastal plain of Arctic Alaska: Sandy-splays, swamps, soils, and savagely surging streams: invited talk presented at the University of Wisconsin-Milwaukee Colloquium series, Milwaukee, Wisconsin, March 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: invited talk presented at the Alaska Geological Society February Meeting, Anchorage, Alaska, 2012.

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

Alluvial architecture of a low net: gross heavy oil reservoir analogue: the Prince Creek Formation, North Slope-Alaska: presented at the Quantitative Clastics Laboratory Industrial Associates Annual Meeting, Bureau of Economic Geology, Austin, Texas, 2011.

Investigations of Late Cretaceous Arctic paleohydrology by integration of terrestrial stable isotope proxies: presented at Geological Society of America Annual Meeting, Minneapolis,

Minnesota, 2011.

Lidar-enhanced facies, architectural, and statistical analyses of a potential Paleocene reservoir: presented at Geological Society of America Annual Meeting, Minneapolis, Minnesota, 2011.

Reexamination of fluvial stacking pattern across the Permian-Triassic boundary in the Central Transantarctic Mountains, Antarctica: poster presented at Geological Society of America Annual Meeting, Minneapolis, Minnesota, 2011.

Tectonically driven facies and architectural change across the Permian-Triassic boundary: Beardmore Glacier Region, Central Transantarctic Mountains, Antarctica: poster presented at Geological Society of America Annual Meeting, Minneapolis, Minnesota, 2011.

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

Cretaceous geology on the North Slope of Alaska: invited talk presented at the 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: invited talk presented at the Alaska Geological Society Annual Meeting, University of Alaska--Fairbanks, Fairbanks, Alaska, 2009.

Sedimentology, alluvial architecture, and lidar (light detection and ranging): Paleocene Prince Creek and Sagavanirktok Formations Sagwon Bluffs, North Slope, Alaska: presented at the Quantitative Clastics Laboratory Industrial Associates Annual Meeting, Bureau of Economic Geology, Austin, Texas, 2009.

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

Alluvial architecture of the Late Cretaceous Prince Creek Formation, North Slope, Alaska: poster presented at AAPG/SEPM National Meeting, San Antonio, Texas, 2008.

Regional geology and reservoir potential of the Schrader Alluvial architecture and fluvial facies of tidally-influenced alluvial/delta plain deposits of the Late Cretaceous Prince Creek Formation: Colville Basin, North Slope, Alaska: presented at River to Rock Record International Conference, Aberdeen, Scotland, 2008.

Tidally-influenced, high-latitude alluvial/deltaic deposits of the dinosaur-bearing Late Cretaceous Prince Creek Formation: North Slope, Alaska: presented at Geological Society of America National Meeting, Houston, Texas, 2008.

A Late Cretaceous, alluvial paleoenvironment: the Prince Creek Formation, North Slope of the Brooks Range, Alaska: poster presented at the Joint North-Central and South-Central Geological Society of America Meeting, University of Kansas, Lawrence, Kansas, 2007.

Alluvial deposits from low energy streams and associated floodplain sedimentation: the Upper Cretaceous Prince Creek Formation, North Slope of the Brooks Range, Alaska: poster presented at the Alaska Geological Society Meeting, Fairbanks, Alaska, 2007.

Alluvial facies and facies associations within the Upper Cretaceous Prince Creek Formation, North Slope, Alaska: poster presented at the Geological Society of America Meeting, Denver, Colorado, 2007.

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...": invited talk presented to the Denali Foundation, Denali Education Center, McKinley Village, Alaska, 2007.

Late Cretaceous, high latitude paleoenvironments at the Kikak-Tegoseak Dinosaur Site, Prince Creek Formation, North Slope Alaska: presented at the Geological Society of America National Meeting, Denver, Colorado, 2007.

Late Cretaceous, high latitude paleoenvironments at the Kikak-Tegoseak Dinosaur Site, Prince Creek Formation, North Slope Alaska: presented at the Joint North-Central and South-Central Geological Society of America Meeting, University of Kansas, Lawrence, Kansas, 2007.

Low energy alluvial deposits from the Upper Cretaceous Prince Creek Formation, National Petroleum Reserve, North Slope, Alaska: poster presented at AAPG National Meeting, Long Beach, California, 2007.

Paleontology, sedimentology, paleopedology, and palynology of the Kikak-Tegoseak Dinosaur Quarry, (Prince Creek Formation: Late Cretaceous), northern Alaska: presented at Ceratopsian Symposium, Royal Tyrrell Museum, Drumheller, Alberta, Alaska, 2007.

Depositional environments of the Upper Cretaceous Prince Creek Formation, Kikak-Tegoseak Dinosaur Site, North Slope, Alaska: poster presented at the Combined GSA Cordilleran Section, AAPG Pacific Section, and Western Regional SPE Meeting, Anchorage, Alaska, 2006.

Sedimentology and depositional environments of the Upper Cretaceous Prince Creek Formation, North Slope, Alaska: poster presented at the Geological Society of America National Meeting, Philadelphia, Pennsylvania, 2006.

Changes in fluvial architecture across the Permian-Triassic boundary, Beardmore Glacier Region, Central Transantarctic Mountains, Antarctica: presented at the Geological Society of America National Meeting, Salt Lake City, Utah, 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?: invited talk presented at Earth System Processes 2, Calgary, Alberta, Canada, 2005.

Sandstone composition and tectonic setting of the Lower Permian Weller Coal Measures, Southern Victoria Land, Antarctica: poster presented at the North-Central GSA, Kansas City, Missouri, 2003.

Activities of a Professional Nature

Professional Societies

Alaska Geological Society

American Association of Petroleum Geologists

Geological Society of America

SEPM (Society for Sedimentary Geology)

Major Field Campaigns

2006-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

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

2010-2011: Paleoenvironmental and paleoclimatic analysis of the Beacon Supergroup, Beardmore Glacier Area, Central Transantarctic Mountains, Antarctica

2010-2012: Principal Investigator: A high-latitude shoreface to coastal-plain transition: the Schrader Bluff and Prince Creek Formations at Shivugak and Uluksrak Bluffs and Ocean Point, Colville River, North Slope, Alaska

2017: Facies, ichnology, architecture and stacking of depositional systems of mid-Cretaceous to Paleocene strata of the Chubut Group, Paso del Sapo Formation and Lefipán Formations, Patagonia

Activities of a Professional Nature

Poster Session Chair: Combining Sedimentology, Ichnology, and Paleontology to Refine Spatial, (Paleo)Environmental Interpretations and Clarify Salinity-Discharge Fluctuations along Modern and Ancient Complex Coastlines (September 25-28, 2016)

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

Gulf Coast Association of Geological Societies Annual Meeting Poster Chair (October 21-24, 2012)

Funding

Research Support

Co-Principal Investigator: Alaska, North Slope Synthesis: Assessment of Stratigraphy, Reservoirs, and Petroleum Systems, ENI Petroleum (April 1, 2018-March 31, 2019; \$75,000).

Co-Principal Investigator: QCLIA, various sponsors (3 companies) (January 1-December 31, 2018; \$47,250).

Co-Principal Investigator: QCLIA, various sponsors (3 companies) (January 1-December 31, 2017; \$43,200).

Co-Principal Investigator: QCLIA, various sponsors (5 companies) (January 1-December 31, 2016; \$112,500).

Principal Investigator: QCLIA, various sponsors (8 companies) (January 1-December 31, 2015; \$360,000).

Co-Principal Investigator: QCLIA, various sponsors (17 companies) (January 1, 2014-January 1, 2015; \$191,000).

Co-Principal Investigator: QCLIA, Various Sponsors (11 companies) (January 1-December 31, 2013; \$124,000).

Principal Investigator: A Potential Washover Fan in the McMurray Formation, Alberta, Canada, Marathon Oil Research Grant (2013; \$48,000).

Co-Principal Investigator: QCLIA, Various Sponsors (10 companies) (January 1-December 31, 2012; \$67,500).

Co-Principal Investigator: QCLIA, various sponsors (9 companies) (January 1-December 31, 2011; \$40,500).

Principal Investigator: Nature, Evolution, and Ichnology of Fluvial-Deltaic and Shallow-Marine Reservoir Analogues in Campanian-Maastrichtian Clastic Wedges of Arctic Alaska, BP Research Grant (2011; \$75,000).

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