

WILLIAM C. PARCELL

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EDUCATION

Ph.D. Geological Sciences, University of Alabama, Tuscaloosa, 2000.
Dissertation: "Controls on the Development and Distribution of Reefs and Carbonate Facies in the Late Jurassic of the Eastern Gulf Coast, U.S.A. and Eastern Paris Basin, France."

M.S. Geology, University of Delaware, Newark, 1997.
Thesis: "Depositional Facies and Stratigraphic Analysis of the Middle Jurassic Sawtooth and Piper Formations in Southwestern Montana and Northcentral Wyoming"

B.S. Geology, The University of the South, Sewanee, Tennessee, 1994.

APPOINTMENTS & POSITIONS

Chair, Department of Geology, Wichita State University, 2010 – 2025
Duties: manage department budget, liaison with the college dean and university officials, conduct faculty searches, and interact with department alumni, organize and complete program reviews, etc.

Associate Professor, Department of Geology, Wichita State University, 2007 – present
Research: My broad research areas encompass sedimentology and stratigraphy. Specializations include examination of ancient microbial reefs and associated sedimentary environments. Approaches to these studies emphasize integration of field measurements, computer modeling techniques, and uncertainty analysis.

Assistant Professor, Department of Geology, Wichita State University, 2001 – 2007
Research: as above

Post-Doctoral Fellow, University of Alabama, Center for Sedimentary Basin Studies, 2000 - 2001

Research: Basin analysis, sequence-stratigraphic analysis, petroleum-systems analysis, and reservoir characterization and modeling of Mesozoic and Cenozoic Gulf Coastal Plain strata in Alabama and Mississippi.

Geologist, BP Amoco, Western U.S. Gas Unit (Wyoming), Houston, TX, 1999

Duties: Construct depositional and diagenetic model of controls on carbonate reservoir quality in the Mississippian Mission Canyon Formation. Prepared and presented in-house reports.

Research Assistant, University of Alabama, Department of Geological Sciences, 1997 – 2000

Research: Basin analysis, sequence-stratigraphic analysis, petroleum-systems analysis, and reservoir characterization and modeling of Mesozoic and Cenozoic Gulf Coastal Plain strata in Alabama and Mississippi.

Depositional systems, sedimentology, and sequence stratigraphy of Jurassic strata in the Paris Basin, France, Portugal, and Spain.

Teaching Assistant, University of Delaware, Department of Geology, 1994 – 1996

Courses taught: Field Camp in the Western United States (Montana and Wyoming), Petrology of Igneous and Metamorphic Rocks, Structural Geology.

Research Assistant, Delaware Geological Survey, Newark, DE, 1994-1997

Duties: Mapping, recording, and locating seismic events, data entry of historic earthquakes in Delaware, water well testing, library research, and report preparation.

ADMINISTRATIVE EXPERIENCE & SKILLS

Geology Department Chair (2010 – 2025, 16 years)

Assessment/Review

- KBOR and college program reviews (2011, 2012, 2014, 2015, 2018, 2022)
- Accreditation review (2016-17)
- Graduate program reviews (2016, 2017, 2019)

Budget

- Manage yearly operating budget (OOE)
- Balance existing needs with reducing state budget
- Lobby funds from administration for lecturer and faculty overloads
- Build and maintain relations with potential and existing donors, collaborate with WSU Foundation staff. Successful fundraising campaigns while serving as Chair include:

Endowments

- Woolsey Fund for Petroleum Research (\$1million), supports petroleum and aligned geoscience research
- Woolsey Fund for Geology Field Camp (\$1million), underwrites student expenses to attend Wichita State's summer camp. Makes camp financially self-sufficient

Single-time donations

- Anderson Field Camp Fund; supports camp equipment and student expenses
- Gries-Willis Geology Fund; supports student-centered department initiatives
- Stoneburner Field Camp Fund; supports camp equipment and student expenses
- Wilhite Graduate Thesis Fund; supports graduate student thesis research projects

Personnel

- Coordinate department vision and goals with department faculty
- Lobby administration for tenure-track faculty searches; serve as search chair for all positions; work towards attracting a diverse applicant pool
 - o four successful faculty searches since 2010
- Faculty, instructor, and staff annual evaluations
 - o evaluate faculty and staff performance, establish goals, make recommendations for future achievement, reappointment, or termination
- Support and celebrate faculty achievements; assist and counsel faculty with goals and disappointments
- Stress a culture of collegial, inclusive, and respectful interactions between faculty, instructors, and staff
- Engage in disciplinary measures with faculty, instructors, and staff and implement terminations when necessary

Scheduling and Course Building

- Semester course scheduling and coordination between faculty and departments
- Assist faculty in developing new and modifying existing courses and UG and Grad programs

Spokesperson

- Coordinate messaging of department activities and vision to various constituents, including university administration, alumni and donors, industry, students, and the general public
- Media spokesperson for timely geoscience topics and department activities. Multiple media interviews over the years for local TV, radio, and newspapers
- Social media and online coordinator for department (oversee department

Facebook and Instagram accounts; design and implement department webpage)

- <http://www.wichita.edu/geology>
- <https://www.facebook.com/wichita.geology>
- <https://www.instagram.com/wichitageology/>

Director, Geology Field School (2013 – present; 12 years)

Budget

- Manage endowment funds and maintain/develop donor relations.
- Develop and maintain student fee structure for camp operation.
- Coordinate with staff in Finance Office and Purchasing Office to establish fund for non-traditional out-of-state operations and purchases

Logistics/Personnel

- Arrange lodging with Wyoming college facilities, and state and federal campgrounds
- Coordinate travel arrangements with department vehicles, rental vehicles, and individual student travel
- Arrange meals at Wyoming college facilities, and campground meals
- Arrange property access with private land owners, National Parks, Bureau of Land Management, and the U.S. Forest Service
- Serve multiple concurrent roles as teacher, counselor, mentor, administrator, truck driver, cook, and First Aid.
- Oversee camp and delegate responsibilities to three graduate teaching assistants

Spokesperson

- Successfully coordinated with donor to endow and underwrite the Field School (field camp) in perpetuity. As Department Chair and Camp Director, raise funds for an endowment to fund camp operations in perpetuity fully
- Expand the camp yearly to increase out-of-state student applicants. Since recruited numerous out-of-state student applicants.
 - Camp has grown from zero outside students in 2013 to over 70 participants from thirty different schools over past 8 years
- Social media and online coordinator for department (oversee department Facebook accounts; design and implement program webpage)
 - <http://www.wichita.edu/fieldcamp>
 - <https://www.facebook.com/groups/Wichita.Geology.Field.School>

Graduate Coordinator, Earth, Environmental, and Physical Science (EEPS) Graduate (MSc) Program (2007-2010; 2025-present)

Budget

- Manage and award scholarships to incoming and current graduate

- students
- Coordinate with department chair regarding funding elements of graduate program (department budget)

Personnel

- Coordinate graduate program vision and goals with department chair and faculty
- Support and celebrate graduate student achievements; assist and counsel students with goals and disappointments
- Evaluate applications to graduate program; admit or reject applications
- Evaluate applications for graduate teaching assistants (GTAs)

MENTORING & TEACHING

TEACHING EXPERIENCE

Courses taught from 2001 to present

GEOL 102: Earth Science and the Environment (all semesters 2001-present)

GEOL 320: Mineralogy (fall semesters 2002-2010)

GEOL 324: Petrology (spring semesters 2003-2011)

GEOL 430: Field Studies in Geology (2004, 2008, 2010-2012, 2014, 2018)

GEOL 522: Sedimentology and Stratigraphy (fall semesters 2019-present)

GEOL 526: Sedimentary Geology (fall semesters 2010-2019)

GEOL 540: Field Mapping Methods (spring semesters 2013-present)

GEOL 544: Structural Geology (spring semesters 2018-present)

GEOL 552: Physical Stratigraphy (spring semesters 2013-2019)

GEOL 630: Field Studies in Geology (2004, 2008, 2010-2012, 2014, 2018)

GEOL 640: Field Geology (Field Camp) (summers 2013-present)

GEOL 690: Geology of England and Wales (2012)

GEOL 740: Basin Analysis (all spring semesters 2014-present)

GEOL 745: Advanced Stratigraphy (2009, 2011)

GEOL 750: History of Geology (2012, 2015)

GEOL 760: Exploration Geophysics (2002, 2008)

GEOL 810: Microbial Carbonate Reservoirs (2004)

EEPS 700: Technical Session (2013, 2014)

EEPS 701: Computer Methods in Science (2012)

EEPS 710: Great Discoveries and Controversies in Earth Science (2007, 2008)

In addition, I have supervised theses and undergraduate projects through GEOL 690, 698 and EEPS 800.

GRADUATE AND UG SENIOR THESES SUPERVISED

Makenna Roths, current MS student and former UG Honors thesis student
Project: Analysis of geoscience education techniques within the National Park Service

Jack Dalton, MS, 2025
Project: “Chemostratigraphy of Jurassic Morrison Formation, WY”

Mitch Baker, MS, 2025
Project: “Microbiolite deposits in the Jurassic Gypsum Spring Formation, WY”
Employment: Costal Carolina University, NC , PhD candidate

Johnathan Nichols, UG student thesis 2024
Project: The search for rare earth elements (REES) in lignite coal seams with X-ray diffraction (XRD): A case study from the Cretaceous Eagle Formation, Elk Basin, Park County, Wyoming, USA

Julia Schwartz, MS, 2024
Project: “Chemostratigraphy of Cretaceous Eagle Formation, WY”
Employment: Wichita State Geology Dept, Asst. Educator

Guadalupe Gonzalez, MS, 2022
Project: “Chemostratigraphy of Cretaceous Niobrara Formation, KS”
Employment: GSI Environmental, Wichita, KS

Wesley Moots, MS, 2020
Project: “Fracture Analysis in Sandstones in the Cody Formation, northern WY”
Employment: Colt Energy, Mission, KS

Grant Goodwin, MS, 2020
Employment: APAC – Kansas, Inc., Shears Div., Lincoln, KS

Logan Woods, MSc, 2018
Project: “Correlation of Triassic-Jurassic contact, northern WY and southern MT”
Employment: Greystone Environmental Services, Oklahoma City, OK

Robert Baker, MS, 2018
Project: “Correlation of Triassic-Jurassic contact, northern WY and southern MT”
Employment: self-employed

David Bruce, BS, 2017
Project: “Chemostratigraphy of Middle Jurassic Ellis Group, northern Wyoming and southern Montana”
Employment: Virginia Tech, Ph.D. candidate

Meghan Corwell (nee Curtis), MS, 2017
Project: “Reservoir characterization of the Johnson Zone within the Cherokee Group, KS”
Employment: Spirit Aerosystems, Wichita, KS

Melissa Worley, MS, 2016
Project: “Mapping Permian Wellington Formation of Sedgwick Co., KS”
Employment: City of Houston, TX, Environmental Investigator

Charles Lapeyre, MS, 2015
Project: “Chemostratigraphy of Middle Jurassic Ellis Group, northern Wyoming and southern Montana”

Employment: Carriere-Stumm, LLC, Vice President, LA
Jacob Sinclair, MS, 2015
Project: "Trace metal analysis of Little Arkansas River, Wichita, KS"
Employment: Environmental Scientist, Hundersville, NC

Peter Wheiland, MS, 2015
Project: "Characterization of microbial carbonate reservoirs, Little Cedar Creek Field, AL"
Employment: Chevron Corporation, Pittsburgh, PA

Kyle Day, MS, 2013
Project: "Characterization of microbial carbonate reservoirs, Little Cedar Creek Field, AL"
Employment: Murphy Oil Co., Houston, TX

Clark Gilbert, MS, 2012
Project: "Allostratigraphy of Middle Jurassic Ellis Group, northern Wyoming"
Employment: Colorado School of Mines, Ph.D. candidate

Chamandika Warusavitharana, MS, 2012
Project: "Characterization of microbial buildups in Ordovician Gasconade and Roubidoux formations, central Missouri"
Employment: Colorado School of Mines, Ph.D. candidate

Ganganath Koralegedara, MS, 2009
Project: "Characterization of microbial carbonate reservoirs, Appleton and Little Cedar Creek Fields, AL"
Employment: Berexco Oil Co., Wichita, KS

Jaclyn Venhaus, MS, 2006
Project: "Correlation of Middle Jurassic Sawtooth Formation, southern MT"
Employment: Devon Energy, Oklahoma City, OK

Manwika Ploynoi, MS, 2006
Project: "Microbial carbonate buildups in the Middle Jurassic Gypsum Spring Formation, northern Wyoming"

Andrew Haner, MS, 2006
Project: "Correlation of Middle Jurassic Sawtooth Formation, southern MT"

Monica Williams, MS, 2004
Project: "Lithostratigraphic correlation of the Middle Jurassic Gypsum Spring Formation, northern Wyoming"
Employment: ISI Environmental

RESEARCH & PUBLICATIONS

AREAS OF SCHOLARSHIP

Stratigraphic modeling: concepts and applications of stratigraphic modeling drawing from geology, information science, machine learning, philosophy, and AI

Basin studies applications: subsurface energy and mineral supply (geothermal, petroleum, and critical minerals)

History of the Earth Sciences, including philosophy, communication, history, and information sciences

REVIEWED JOURNAL ARTICLES, BOOKS, & MAPS

* student co-authors marked with an asterisk

ACCEPTED/IN PRESS.

Parcell, W., in press, *Athanasius Kircher's Mundus Subterraneus (1678). Abridged translation and commentary.* Geological Society of America Books.

Parcell, W., in press, A World of Analogy—Athanasius Kircher (1602-1680) and *Mundus Subterraneus (1665, 1678)* in the Development of the Earth Sciences, article in Parcell, W., *Athanasius Kircher's Mundus Subterraneus (1678). Abridged translation and commentary.* Geological Society of America Books.

2026.

Kircher, A., *Diatribes de prodigiosis crucibus [Diatribes on prodigious crosses]* (Parcell, W., transl., 2026) RoL Press, 103 p. (Original work published in 1661)
DOI: 10.17613/g27hg-bt145

Kircher, A., Schott, G., *Iter Exstaticum Coeleste [Ecstatic Journey into the Heavens]. Volume 1.* (Parcell, W., transl., 2026) RoL Press, 407 p. (Original work published in 1660)
DOI: 10.17613/bb2n0-hpb24

Kircher, A., Schott, G., *Iter Exstaticum Coeleste [Ecstatic Journey into the Heavens]. Volume 2.* (Parcell, W., transl., 2026) RoL Press, 423 p. (Original work published in 1660)
DOI: 10.17613/3gk0d-1jx71

Schott, G., *Anatomia Physico-Hydrostatica Fontium ac Fluminum [The Physico-Hydrostatic Anatomy of Springs and Rivers]. Volume 1.* (Parcell, W., transl., 2026) RoL Press, 408 p. (Original work published in 1663)
DOI: 10.17613/sevv3-jv463

Schott, G., *Anatomia Physico-Hydrostatica Fontium ac Fluminum [The Physico-Hydrostatic Anatomy of Springs and Rivers]. Volume 2.* (Parcell, W., transl., 2026) RoL Press, 178 p. (Original work published in 1663)
DOI: 10.17613/bnddb-5kt85

2025.

Kircher, A., *Iter Exstaticum II [Ecstatic Journey II]*. (Parcell, W. transl., 2025) RoL Press, 343 p. (Original work published in 1657)
DOI: 10.17613/39bqa-xgq82

Kircher, A., *Itinerarium Exstaticum [Ecstatic Journey] Volume 1*. (Parcell, W., transl., 2025) RoL Press. 407 p. (Original work published in 1657)
DOI: 10.17613/x80gk-wfw82

Kircher, A., *Itinerarium Exstaticum [Ecstatic Journey] Volume 2*. (Parcell, W., transl., 2025) RoL Press. 257 p. (Original work published in 1656)
DOI: 10.17613/anc3a-nzy05

Kircher, A., *Historia Eustachio Mariana [Eustachian-Marian History]*. (Parcell, W., transl., 2025) RoL Press. 401 p. (Original work published in 1665)
DOI: 10.17613/h6k8j-gwr20

2019.

Parcell, W.C., Baker, R. *, Woods, R. *, Post, S.D. *, Dunham, J.W., 2019, *Preliminary surficial geology of the Goddard quadrangle, Sedgwick County, Kansas*. 1 sheet, scale 1:24,000.
https://www.kgs.ku.edu/Publications/OFR/GeoMaps/OFR_2019-11_Goddard_SG.pdf

Parcell, W.C., Baker, R. *, Woods, R. *, Post, S.D. *, Dunham, J.W., 2019, *Preliminary surficial geology of the Wichita West quadrangle, Sedgwick County, Kansas*. 1 sheet, scale 1:24,000.
https://www.kgs.ku.edu/Publications/OFR/GeoMaps/OFR_2019-12_Wichita_West_SG.pdf

2018.

Parcell, W.C., Baker, R. *, Woods, R. *, Post, S.D. *, Dunham, J.W., 2018, *Preliminary surficial geology of the Andover quadrangle, Sedgwick County, Kansas*. 1 sheet, scale 1:24,000.
https://www.kgs.ku.edu/Publications/OFR/GeoMaps/KsGS_OFR_2018-10_Andover.pdf

Parcell, W.C., Baker, R. *, Woods, R. *, Post, S.D. *, Dunham, J.W., in prep, *Preliminary surficial geology of the Wichita East quadrangle, Sedgwick County, Kansas*. 1 sheet, scale 1:24,000.
https://www.kgs.ku.edu/Publications/OFR/GeoMaps/KsGS_OFR_2018-11_Wichita_East.pdf

2017.

Parcell, W.C.; Dinkel, G.L. *; Post, S.D. *; Dunham, J.W., 2017, *Preliminary surficial geology of the Sedgwick County portion of the Whitewater quadrangle, Kansas*. Kansas Geological Survey, Open-file Report no. 2017-29, 1 sheet, scale 1:24,000. https://www.kgs.ku.edu/Publications/OFR/GeoMaps/KsGS_OFR_2017-29_Whitewater.pdf

Parcell, W.C.; Dinkel, G.L. *; Post, S.D. *; Dunham, J.W., 2017, *Preliminary surficial geology of the Sedgwick County portion of the Sedgwick NE quadrangle, Kansas*. Kansas Geological Survey, Open-file Report no. 2017-28, 1 sheet, scale 1:24,000. https://www.kgs.ku.edu/Publications/OFR/GeoMaps/KsGS_OFR_2017-28_Sedgwick_NE.pdf

Parcell, W.C.; Dinkel, G.L. *; Post, S.D. *; Dunham, J.W., 2017, *Preliminary surficial geology of the Sedgwick County portion of the Sedgwick quadrangle, Kansas*. Kansas Geological Survey, Open-file Report no. 2017-27, 1 sheet, scale 1:24,000. https://www.kgs.ku.edu/Publications/OFR/GeoMaps/KsGS_OFR_2017-27_Sedgwick.pdf

Parcell, W.C.; Dinkel, G.L. *; Post, S.D. *; Dunham, J.W., 2017, *Preliminary surficial geology of the Sedgwick County portions of the Mount Hope and Patterson quadrangles, Kansas*. Kansas Geological Survey, Open-file Report no. 2017-26, 1 sheet, scale 1:24,000. https://www.kgs.ku.edu/Publications/OFR/GeoMaps/KsGS_OFR_2017-26_Mount_Hope_Patterson.pdf

Parcell, W.C.; Dinkel, G.L. *; Post, S.D. *; Dunham, J.W., 2017, *Preliminary surficial geology of the Sedgwick County portion of the Bentley quadrangle, Kansas*. Kansas Geological Survey, Open-file Report no. 2017-25, 1 sheet, scale 1:24,000. https://www.kgs.ku.edu/Publications/OFR/GeoMaps/KsGS_OFR_2017-25_Bentley.pdf

2016.

Parcell, W.C.; Dinkel, G.L. *; Curtis, M.D. *, 2016, *Preliminary surficial geology of the Maize quadrangle, Sedgwick County, Kansas*. Kansas Geological Survey, Open-file Report no. 2016-18, 1 sheet, scale 1:24,000. https://www.kgs.ku.edu/Publications/OFR/GeoMaps/KsGS_OFR2016-18_Maize.pdf

Parcell, W.C.; Dinkel, G.L. *; Curtis, M.D. *, 2016, *Preliminary surficial geology of the Colwich quadrangle, Sedgwick County, Kansas*. Kansas Geological Survey, Open-file Report no. 2016-17, 1 sheet, scale 1:24,000. https://www.kgs.ku.edu/Publications/OFR/GeoMaps/KsGS_OFR2016-17_Colwich.pdf

2015.

Parcell, W.C.; Sinclair, J.T. *; Lahey, M.L. *, 2015, *Preliminary surficial geology of the Valley Center quadrangle, Sedgwick County, Kansas*. Kansas Geological Survey, Open-file Report no. 2015-14, 1 sheet, scale 1:24,000.
https://www.kgs.ku.edu/Publications/OFR/GeoMaps/KsGS_OFR2015-14_ValleyCenter.pdf

Parcell, W.C.; Sinclair, J.T. *; Lahey, M.L. *, 2015, *Preliminary surficial geology of the Sedgwick County portion of the Greenwich quadrangle, Kansas*. Kansas Geological Survey, Open-file Report no. 2015-13, 1 sheet, scale 1:24,000.
https://www.kgs.ku.edu/Publications/OFR/GeoMaps/KsGS_OFR2015-13_Greenwich.pdf

2013.

Mancini, E.A., Morgan, W., Harris, P., Parcell, W.C., 2013, Introduction: AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS Hedberg Research Conference on Microbial Carbonate Reservoir Characterization—Conference summary and selected papers. *American Association of Petroleum Geologists Bulletin*, v. 97, no. 11, p. 1835–1847.
DOI:10.1306/intro070913

Warusavitharana*, C., Parcell, W., 2013, Sedimentary features, occurrence and cyclicity of microbialite facies in the Roubidoux and Jefferson City Formations of Missouri and Kansas. *American Association of Petroleum Geologists Bulletin*, v. 97, no. 11, p. 1849–1870.
DOI: 10.1306/06261312174

2010.

Mancini, E.A., Ahr, W.M., Parcell, W.C., Morgan, W.A., 2010, *Microbial Carbonate Reservoirs*. AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS Getting Started Series No. 19, CD-ROM/Adobe PDF
ISBN: 1588612937

2009.

Parcell, W.C., 2009, Signs and symbols in Athanasius Kircher's *Mundus Subterraneus*, in Rosenberg, G., ed., *The Revolution in Geology from the Renaissance to the Enlightenment*, GSA Memoir 203, p. 63-74.
DOI: 10.1130/2009.1203(04)

Parcell, W.C., Parcell, L.M., 2009, Evaluating and communicating geologic reasoning with semiotics and certainty estimation. *Journal of Geoscience Education*, v. 57, p. 380-390.

DOI: 10.5408/1.3544288

2008.

Mancini, E.A., Obid, J., Badali, M., Liu, K., Parcell, W.C., Sequence stratigraphic analysis of Jurassic and Cretaceous strata and petroleum exploration in the central and eastern Gulf coastal plain, United States. *American Association of Petroleum Geologists Bulletin*, v. 92, p. 1655-1686.

DOI:10.1306/08130808046

Mancini, E.A., Parcell, W.C., Ahr, W.M., Ramirez, V.O., Llinas, J.C., Cameron, M., Upper Jurassic updip stratigraphic trap and associated Smackover Microbial and nearshore carbonate facies, eastern Gulf Coastal Plain, USA. *American Association of Petroleum Geologists Bulletin*, v. 92, p. 417-442.

DOI:10.1306/11140707076

2006.

Parcell, W.C., 2006, Review: Exploring Geovisualization. *Photogrammetric Engineering and Remote Sensing*, Elsevier, p. 111.

Mancini, E.A., Parcell, W.C., Ahr, W.M., 2006, Upper Jurassic Smackover thrombolite buildups and associated nearshore facies, Southwest Alabama. *Gulf Coast Association of Geological Societies Transactions*, v. 56, p. 551-563.

2005.

Parcell, W.C., 2005, Maximum flooding or maximum starvation? Exploring the development of the maximum flooding surface in carbonate systems with multi-valued logic. *Stratigraphy*, v. 3, n. 1.

DOI: 10.29041/strat.02.4.05

Parcell, W.C., Williams, M.K.*, 2005, Mixed-sediment deposition in a retro-arc foreland basin: Lower Ellis Group (M. Jurassic), Wyoming and Montana, U.S.A. *Sedimentary Geology*, v. 177, p. 175-194.

DOI: 10.1016/j.sedgeo.2005.02.007

Parcell, W.C., Williams, M.K.*, Haner, A.L.*, Ploynoi, M.*, Mancini, E.A., 2005, T-R cycle characterization of the Jurassic Ellis Group, Wyoming and Montana: Evaluation of method for improving hydrocarbon detection in northern Gulf Coast salt basins. *Gulf Coast Association of Geological Societies Transactions*, v. 55, p. 655-667.

Parcell, W.C., 2005, Review: Fuzzy logic in geology. *International Journal of General Systems*, v. 34, p. 91.

2004.

Mancini, E.A., Llinas, J.C., Parcell, W.C., Aurell, M., Badenas, B., Leinfelder, R.R., Benson, D.J., 2004, Upper Jurassic thrombolite reservoir play, northeastern Gulf of Mexico. *American Association of Petroleum Geologists Bulletin*, v. 88, n. 11, p. 1573-1602.

2003.

Parcell, W.C., 2003, Modeling the controls on Upper Jurassic Smackover microbial reefs with fuzzy logic computer modeling. *Journal of Sedimentary Research*, v. 73, p. 498-515.

Parcell, W.C., 2003, Examining the definition and significance of the maximum flooding surface through fuzzy logic modeling. *Gulf Coast Association of Geological Societies Transactions*, v. 53, p. 351-360.

Mancini, E.A., Parcell, W.C., Puckett, T.M., Benson, D.J., 2003, Basin analysis of the Mississippi Interior Salt Basin and petroleum system modeling of the Jurassic Smackover Formation, eastern Gulf Coastal Plain. *Carbonates and Evaporites*, v. 18, p. 125-150.

Mancini, E.A., Parcell, W.C., Puckett, T.M. et al., 2003, Upper Jurassic (Oxfordian) Smackover carbonate petroleum system characterization and modeling, Mississippi Interior Salt Basin area, northeastern Gulf of Mexico, USA. *Carbonates Evaporites* 18, 125-150 (2003).

<https://doi.org/10.1007/BF03176234>

2002.

Parcell, W.C., 2002, Sequence stratigraphic controls on the development of microbial fabrics and growth forms – implications for reservoir quality distribution in the Upper Jurassic (Oxfordian) Smackover Formation, Eastern Gulf Coast, U.S.A.: *Carbonates and Evaporites*, v. 17, p. 166-181.

DOI: 10.1007/BF03176483

2001.

Mancini, E.A., Badali, M., Puckett, T.M., Parcell, W.C., Llinas, J.C., 2001, Mesozoic carbonate petroleum systems in the northeastern Gulf of Mexico: Petroleum Systems of Deep-Water Basins: Global and Gulf of Mexico Experience, *Proceedings of the 21st Annual Research Conference, Gulf Coast Section, SEPM Foundation*, p. 423-451.

Mancini, E.A., Parcell, W.C., 2001, Outcrop analogs for reservoir characterization and modeling of Smackover microbial reefs in the northeastern Gulf of Mexico area: *Gulf Coast Association of Geological Societies Transactions*, v. 51, p. 207-228.

2000.

Parcell, W.C., 2000, 3D computer simulation of carbonate depositional facies distribution and productivity rates using continuous set theory to mimic geologists' reasoning: *Gulf Coast Association of Geological Societies Transactions*, v. 50, p. 439-450.

Mancini, E.A., Benson, D.J., Hart, B.S., Balch, R.S., Parcell, W.C., Panetta, B.J., 2000, Appleton field case study (eastern Gulf Coastal Plain): Field development model for Upper Jurassic microbial reef reservoirs associated with paleotopographic basement structures: *American Association of Petroleum Geologists Bulletin*, v. 84, p. 1699-1717.

1999.

Parcell, W.C., 1999, Stratigraphic architecture of Upper Jurassic (Oxfordian) reefs in the northeastern Gulf Coast, U.S. and the eastern Paris Basin, France: *Gulf Coast Association of Geological Societies Transactions*, v. 49, p. 411-416.

Mancini, E.A., Benson, D.J., Hart, R.S., Chen, H., Balch, R.S., Parcell, W.C., Wang, W.T., Panetta, B.J., 1999, Integrated geological, geophysical and computer modeling approach for predicting reef lithofacies and reservoirs: Upper Jurassic Smackover Formation, Appleton Field, Alabama: *Advanced Reservoir Characterization for the Twenty-First Century, Proceedings of the 19th Annual Research Conference, Gulf Coast Section, SEPM Foundation*, p. 235-247.

Mancini, E.A., Parcell, W.C., Puckett, T.M., 1999, Analysis of rift basins for optimum development: Mississippi Interior Salt Basin: *Proceedings of the U.S. Department of Energy 1999 Oil & Gas Conference*, 23 p.

Mancini, E.A., Parcell, W.C., Puckett, T.M., 1999, Modeling of the burial and thermal histories of strata in the Mississippi Interior Salt Basin: *Gulf Coast Association of Geological Societies Transactions*, v. 49, p. 332-341.

1998.

Mancini, E.A., Parcell, W.C., Benson, D.J., Chen, H., Yang, W., 1998, Geologic and computer modeling of carbonate Upper Jurassic Smackover reef and carbonate shoal lithofacies, *Eastern Gulf Coast: Gulf Coast Association of Geological Societies Transactions*, v. 48, p. 225-234.

REVIEWED CONFERENCE ABSTRACTS AND PROCEEDINGS

* student co-authors marked with asterisk

2025.

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Parcell, W.C.; Dinkel, G.L. *; Post, S.D. *; Dunham, J.W., 2017, Preliminary surficial geology of the Sedgwick County portion of the Whitewater quadrangle, Kansas. *Kansas Geological Survey, Open-file Report* no. 2017-29, 1 sheet, scale 1:24,000 (peer-reviewed)

Parcell, W.C.; Dinkel, G.L. *; Post, S.D. *; Dunham, J.W., 2017, Preliminary surficial geology of the Sedgwick County portion of the Sedgwick NE quadrangle, Kansas. *Kansas Geological Survey, Open-file Report* no. 2017-28, 1 sheet, scale 1:24,000

(peer-reviewed)

Parcell, W.C.; Dinkel, G.L. *; Post, S.D. *; Dunham, J.W., 2017, Preliminary surficial geology of the Sedgwick County portion of the Sedgwick quadrangle, Kansas. *Kansas Geological Survey, Open-file Report no. 2017-27*, 1 sheet, scale 1:24,000 (peer-reviewed)

Parcell, W.C.; Dinkel, G.L. *; Post, S.D. *; Dunham, J.W., 2017, Preliminary surficial geology of the Sedgwick County portions of the Mount Hope and Patterson quadrangles, Kansas. *Kansas Geological Survey, Open-file Report no. 2017-26*, 1 sheet, scale 1:24,000 (peer-reviewed)

Parcell, W.C.; Dinkel, G.L. *; Post, S.D. *; Dunham, J.W., 2017, Preliminary surficial geology of the Sedgwick County portion of the Bentley quadrangle, Kansas. *Kansas Geological Survey, Open-file Report no. 2017-25*, 1 sheet, scale 1:24,000 (peer-reviewed)

Parcell, W.C.; Dinkel, G.L. *; Curtis, M.D. *, 2016, Preliminary surficial geology of the Maize quadrangle, Sedgwick County, Kansas. *Kansas Geological Survey, Open-file Report no. 2016-18*, 1 sheet, scale 1:24,000 (peer-reviewed)

Parcell, W.C.; Dinkel, G.L. *; Curtis, M.D. *, 2016, Preliminary surficial geology of the Colwich quadrangle, Sedgwick County, Kansas. *Kansas Geological Survey, Open-file Report no. 2016-17*, 1 sheet, scale 1:24,000 (peer-reviewed)

Parcell, W.C.; Sinclair, J.T. *; Lahey, M.L. *, 2015, Preliminary surficial geology of the Valley Center quadrangle, Sedgwick County, Kansas. *Kansas Geological Survey, Open-file Report no. 2015-14*, 1 sheet, scale 1:24,000 (peer-reviewed)

Parcell, W.C.; Sinclair, J.T. *; Lahey, M.L. *, 2015, Preliminary surficial geology of the Sedgwick County portion of the Greenwich quadrangle, Kansas, *Kansas Geological Survey, Open-file Report no. 2015-13*, 1 sheet, scale 1:24,000 (peer-reviewed)

Mancini, E.A., Morgan, W.A., Ahr, W., Parcell, W.C., Dias-Brito, D., Harris, P., 2012, Microbial Carbonate Reservoir Characterization, *AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS Hedberg Research Conference*, Houston, TX.

Parcell, W.C., 2008, Multivalued Logic Modeling of Jurassic Microbial Reef Development. *Petroleum Technology Transfer Council -Eastern Gulf Section, Workshop Notes*, Jackson, MS.

Parcell, W.C., 2006, Topical Report Year 3, T-R Cycle Characterization and Imaging: Advanced Diagnostic Methodology for Petroleum Reservoir and Trap Detection and Delineation: *U.S. Department of Energy, Annual Progress Report for Year 3*.

Parcell, W.C., and Vanderburgh, W., 2005, Fuzzy Geology - Using Many-Valued Logic

to Represent Uncertainty in Stratigraphic Data Sets: Multidisciplinary University Research/Creative Projects Award, Final Report, 3 p.

Parcell, W.C., 2005, Topical Report Years 1-2, T-R Cycle Characterization and Imaging: Advanced Diagnostic Methodology for Petroleum Reservoir and Trap Detection and Delineation: *U.S. Department of Energy, Annual Progress Report for Years 1 and 2*, 21 p.

Parcell, W.C., 2005, Instructional and Safety Material for Field Geology in Montana and Wyoming, 238 p.

Mancini, E.A., Parcell, W.C., and Hart, B., 2005, Topical Report Year 2, T-R Cycle Characterization and Imaging: Advanced Diagnostic Methodology for Petroleum Reservoir and Trap Detection and Delineation: *U.S. Department of Energy, Annual Progress Report for Year 2*, DE FC26 03NT15409, 99 p.

Mancini, E., Puckett, M., Parcell, W., Llinas, J., Kopaska-Merkel, D., Townsend, R., Weyland, V., and Tower, W., 2005, Topical reports 5--8—Smackover petroleum system (source, reservoir, seal and trap) and underdeveloped Smackover reservoirs in the Mississippi Interior Salt Basin. *U.S. Department of Energy, Final Report*

Mancini, E.A., Benson, J., Blasingame, T., Ahr, W., Archer, R., Hart, B., Llinas, J.C., Parcell, W.C., Panetta, B.J., Morgan, D., Tebo, J., Chapman, R., Schneeflock, R., and Strahan, R., 2004, Integrated Geologic-Engineering Model for Reef and Carbonate Shoal Reservoirs Associated with Paleohighs: *Upper Jurassic Smackover Formation, Northeastern Gulf of Mexico, U.S. Department of Energy, Final Report*, 430 p.

Mancini, E.A., Parcell, W.C., and Hart, B., 2004, Topical Report Year 1, T-R Cycle Characterization and Imaging: Advanced Diagnostic Methodology for Petroleum Reservoir and Trap Detection and Delineation: *U.S. Department of Energy, Annual Progress Report for Year 1*, DE FC26 03NT15409, 38 p.

Parcell, W.C., 2003, Geologic Map of the Indian Pass Quadrangle (1:24,000-scale), Cody, Wyoming, U.S. Dept. of Interior, *USGS Mapping Grant Final Report (Map)*, 1 map.

Parcell, W.C., 2003, Instructional and Safety Material for Field Geology in Montana and Wyoming, 189 p.

Parcell, W.C., 2002, Modeling the Controls on the Decline of Coral Reefs in the Shelf Lagoon of Belize with Artificial Intelligence Techniques (4D Fuzzy Logic Modeling), *University Research/Creative Projects Award, Final Report*, 5 p.

Parcell, W.C., 2002, Instructional and Safety Material for Field Geology in Montana and Wyoming, 117 p.

Mancini, E.A., Puckett, T.M., Parcell, W.C., Llinas, J.C., Kopaska-Merkel, D.C., and Townsend, R.N., 2002, Basin analysis of the Mississippi Interior Salt Basin and petroleum system modeling of the Jurassic Smackover Formation, eastern Gulf Coastal Plain: *U.S. Department of Energy, Final Report, DE-FG22-96BC14946*, 487p.

Mancini, E.A., Parcell, W.C., Puckett, T.M., and Llinas, J.C., 2001, Topical Report 4, Basin and Petroleum Migration Modeling of the Mississippi Interior Salt Basin: *U.S. Department of Energy Report*, 50 p.

Mancini, E.A., Puckett, T.M., Parcell, W.C., and Llinas, J.C., 2001, Topical Reports 5-8, Smackover petroleum system (source, reservoir, seal and trap) and underdeveloped smackover reservoirs in the Mississippi Interior Salt Basin: *U.S. Department of Energy Report*, 442 p.

Mancini, E.A., Puckett, T.M., and Parcell, W.C. (eds.), 2000, Carbonate Reservoir Characterization and Modeling for Enhanced Hydrocarbon Discovery and Recovery, *AAPG/EAGE Joint International Research Conference Programs and Abstracts Volume*, 68 p.

Mancini, E.A., Puckett, T.M., Parcell, W.C., and Panetta, B.J., 1999, Topical Reports 1 and 2, Basin Analysis of the Mississippi Interior Salt Basin and Petroleum System Modeling of the Jurassic Smackover Formation, eastern Gulf Coastal Plain: *U.S. Department of Energy Report*, 425 p.

Parcell, W.C., 1998, Smackover burial and thermal history, in Smackover Carbonates of Southwest Alabama: *Eastern Gulf Petroleum Technology Transfer Council Workshop, Tuscaloosa, AL*, 22 p.

Parcell, W.C., Panetta, B., and Yang, W., 1998, Smackover carbonate facies and reservoir modeling, in Appleton Field Reef and Carbonate Shoal Reservoir Case Study: An Integrated Geoscientific and Engineering Approach: *Eastern Gulf Petroleum Technology Transfer Council Workshop, Tuscaloosa, AL*, 32 p.

Mancini, E.A., Parcell, W.C., Benson, D.J., Chen, H., and Yang, W., 1998, Geologic and computer modeling of carbonate Upper Jurassic Smackover reef and carbonate shoal lithofacies, Eastern Gulf Coast, in Smackover Carbonate Reservoir Characterization and Modeling: An Integrated Approach: *Petroleum Technology Transfer Council Workshop, Jackson, MS*, 38 p.

Mancini, E.A., Puckett, T.M., Parcell, W.C., Crow, C.J., and Smith, C.C., 1998, Sequence stratigraphy and biostratigraphy of Upper Cretaceous strata of the Alabama coastal plain: *Alabama Geological Society Field Trip Guidebook*, 41 p.

FELLOWSHIPS, GRANTS, CONTRACTS

2026 - (in prep) Humanities Research Centers on Artificial Intelligence (NEH); member of campus-wide research group

2026 - Mellon Fellowship, Affiliate Faculty, *The Printed Earth: Tracing Methods of Discovery and Geological Thought in Kircher's Original Works*, Department of History of Science, Technology, and Medicine, University of Oklahoma, Norman, OK

2019-20. KU-USGS STATEMAP Mapping Subcontract with Kansas Geological Survey, KU, "*Bedrock Map of Sedgwick Co., KS*" AWARDED \$7,000

2018-19. KU-USGS STATEMAP Mapping Subcontract with Kansas Geological Survey, KU, "*Bedrock Map of Sedgwick Co., KS*" AWARDED \$15,000

2017-18. KU-USGS STATEMAP Mapping Subcontract with Kansas Geological Survey, KU, "*Bedrock Map of Sedgwick Co., KS*" AWARDED \$15,000

2016-17. KU-USGS STATEMAP Mapping Subcontract with Kansas Geological Survey, KU, "*Bedrock Map of Sedgwick Co., KS*" AWARDED \$15,000

2015-16. KU-USGS STATEMAP Mapping Subcontract with Kansas Geological Survey, KU, "*Bedrock Map of Sedgwick Co., KS*" AWARDED \$30,000

2014-15. KU-USGS STATEMAP Mapping Subcontract with Kansas Geological Survey, KU, "*Bedrock Map of Sedgwick Co., KS*" AWARDED \$30,000

2011-12. WSU URCA. *Stratigraphy of marine vs. non-marine evaporite basins on ancient cratons: Reevaluation of the origin of the Middle Jurassic Gypsum Spring Formation, Wyoming and Montana*. Sole PI. AWARDED \$4,500

2009. NSF-MRI. *Acquisition of Cryogenic Transmission Electron Microscope*. Collaboration between WSU departments of Chemistry and Geology. Co-PI. Requested \$780,000. UNFUNDED

2008, 2011, 2014, 2017, 2019, 2020, 2021. *SMT Kingdom Suite+ software grant*. Seismic Micro-technology, The Kingdom Company. AWARDED \$1 million per year

2007. Department of the Interior, Geological Survey Educational Mapping Grant (EDMAP). *Geologic Bedrock Map of the Red Pryor Mountain Quadrangle (1:24,000-scale), Carbon County, Montana*. Sole PI. Requested \$26,552. UNFUNDED

2007. NSF CISE RI. *Distributed Immersive Visualization for the Natural, Physical, and Life Sciences: Acquisition of a CAVE-Based Immersive Display Facility Augmented by Distributed GeoWalls*. Collaboration with Kansas Geological Survey (Carr, Nelson),

WSU-NIAR, WSU departments of Geology, Chemistry, Electrical Engineering, and KU departments of Computer Science and Geography. Co-PI. Requested \$366,947. UNFUNDED

2004-2005. Multidisciplinary Research Project Award (MURPA), Wichita State University. *Fuzzy Geology: Using Many-Valued Logic to Represent Uncertainty in Stratigraphic Data Sets*. With W. Vanderburgh, WSU, Philosophy, Co-PI. AWARDED \$4,500

2004. NSF CISE RI Competition. *div4NPL: Distributed Immersive Visualization for the Natural, Physical, and Life Sciences*. Collaboration with Kansas Geological Survey (Carr, Nelson), WSU-NIAR, WSU departments of Geology, Chemistry, Electrical Engineering, and KU Department of Geography. Requested \$855,769. UNFUNDED

2003-2006. U.S. Department of Energy. *T-R cycle characterization and imaging: Advanced diagnostic methodology for petroleum reservoir detection and delineation*. with University of Alabama and McGill University, Co-PI. AWARDED \$90,000

2003-2004. U.S. Department of the Interior, Geological Survey Educational Mapping Grant (EDMAP). *Geologic bedrock map of the Indian Pass Quadrangle (1:24,000 scale), Cody, WY*. Sole PI. AWARDED \$16,450

2002. Landmark (Halliburton Co.) University Software Grant. *Landmark Suite (Solaris UNIX) geologic and geophysical interpretation package*. AWARDED \$984,599

2002. Petroleum Research Fund, American Chemical Society (PRF-ACS), *Stratigraphic distribution of the J-2 unconformity within Middle Jurassic marine and peritidal units (Bajocian to Callovian), Bighorn Basin, northern Wyoming, U.S.A.*, UNFUNDED

2002. NSF-CAREER. *Permian, Triassic and Jurassic units in the northern Great Plains, U.S.A. and Canada: Determining the potential influence of a major confining unit on the development of the Great Plains aquifer system*. Requested \$984,973. UNFUNDED

2001. University Research/Creative Projects Award (URCA), Wichita State University. *Modeling the Controls on the Decline of Coral Reefs in the Shelf Lagoon of Belize with Artificial Intelligence Techniques (4D Fuzzy Logic Modeling)*. Sole PI. AWARDED \$4,000

2001. Seismic Micro-technology Inc. University Grant, *The Kingdom Suite geologic and geophysical interpretation package*. AWARDED \$47,495

2000-2001. Geological Society of America Research Grant. Sole PI. AWARDED \$1,500

2000-2001. Gulf Coast Association of Geological Societies (GCAGS) Research Grant.

Sole PI. AWARDED \$1,500

2000. Gulf Coast Association of Geological Societies (GCAGS) Travel Grant.
AWARDED \$500

CONFERENCE PRESENTATIONS & HOST

TECHNICAL SESSIONS HOSTED

Mancini, E.A., Morgan, W.A., Ahr, W., Parcell, W.C., Dias-Brito, D., Harris, P., 2012, Microbial Carbonate Reservoir Characterization, AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS Hedberg Research Conference, Houston, TX.

Mancini, E.A., Parcell, W.C., Ahr, W., 2009, Theme IV: Microbial Buildups, Reservoirs and Production Characteristics, American Association of Petroleum Geologists Annual Meeting, Denver, CO.

Parcell, W.C., and Rosenberg, G., 2006, Session T63: From the Scientific Revolution to the Enlightenment: Emergence of Modern Geology and Evolutionary Thought from the 16th–18th Century: Geological Society of America Annual Meeting, Philadelphia, PA.

Mancini, E.A., Blankenship, J., and Parcell, W.C., 2006, Session T143: Outcrop Studies: Fundamental to Lithofacies and Reservoir Characterization: Geological Society of America Annual Meeting, Philadelphia, PA.

Mancini, E.A., Parcell, W.C., and Ahr, W., 2006, Upper Jurassic Smackover Thrombolite Facies and Reservoirs, Vocation, Appleton, and Little Cedar Creek Fields, Southwest Alabama - Core Workshop: Eastern Gulf Region - Petroleum Technology Transfer Council (PTTC) Workshop, Tuscaloosa, AL.

Parcell, W.C., 2003, Session T129: Jurassic System of North America: Tectonics, Stratigraphy, and Depositional History: Geological Society of America Annual Meeting, Seattle, WA.

Parcell, W.C., 2001, Smackover Microbial Reef Detection and Characterization: Eastern Gulf Region - Petroleum Technology Transfer Council (PTTC) Workshop, Tuscaloosa, AL.

Mancini, E.A., Parcell, W.C., and Badali, M., 2000, Session T33: Carbonate Allostratigraphy and Sequence Stratigraphy, in Geophysics, Structure, Tectonics, and Stratigraphy Topical Sessions: Geological Society of America Annual Meeting, Reno, NV.

Mancini, E.A., Puckett, T.M., and Parcell, W.C., 2000, Carbonate Reservoir Characterization and Modeling for Enhanced Hydrocarbon Discovery and Recovery, AAPG/EAGE Joint International Research Conference, El Paso, TX.

Parcell, W.C., 1998, Petroleum Systems Modeling in BasinMod®: Application to the Mississippi Interior Salt Basin: Petroleum Technology Transfer Council (PTTC) Workshop, Tuscaloosa, AL.

PROFESSIONAL PRESENTATIONS

- 2025. Geological Society of America Annual Meeting, San Antonio, TX
- 2024. Geological Society of America Annual Meeting, Anaheim, CA
- 2023. Geological Society of America Annual Meeting, Pittsburgh, PA
- 2022 Geological Society of America Annual Meeting, Denver, CO
- 2021. Geological Society of America Annual Meeting, Portland, OR
- 2020. Geological Society of America Annual Meeting, Montreal, CANADA (virtual due to COVID)
- 2019. Geological Society of America Annual Meeting, Phoenix, AZ
- 2017. Geological Society of America Annual Meeting, Seattle, WA
- 2017. Geological Society of America SouthCentral Section Meeting, San Antonio, TX
- 2016. Geological Society of America Annual Meeting, Denver, CO
- Geological Society of America Annual Meeting, Denver, CO
- 2013. American Association of Petroleum Geologists Midcontinent Meeting, Wichita, KS
- 2012. AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS Hedberg Research Conference, Microbial Carbonate Reservoir Characterization, Houston, TX
- 2011. Geological Society of America Annual Meeting. Portland, OR
- 2010. Geological Society of America Annual Meeting. Houston, TX
- 2009. American Association of Petroleum Geologists Annual Meeting, Denver, CO
- 2008 Geological Society of America Annual Meeting. Houston, TX
- 2008. Petroleum Technology Transfer Council (PTTC) Workshop, Jackson, MS
- 2008. American Association of Petroleum Geologists Annual Meeting, San Antonio, TX
- 2007. Geological Society of America Annual Meeting. Denver, CO
- 2007. American Association of Petroleum Geologists South Central Section Meeting, Wichita, KS
- 2006. Geological Society of America Annual Meeting, Philadelphia, PA
- 2006. American Association of Petroleum Geologists Rocky Mountain Sctn. Meeting, Billings, MT
- 2006. Eastern Gulf Region - Petroleum Technology Transfer Council Workshop, Tuscaloosa, AL
- 2005. Geological Society of America Annual Meeting, Salt Lake City, CO
- 2005. Ball State Univ., Dept. of Geology, Technical Presentation, Muncie, IN
- 2005. Kansas Geological Society Technical Session Presentation, Wichita, KS
- 2004. Geological Society of America Annual Meeting, Denver, CO

2004. American Association of Petroleum Geologists Annual Meeting, Dallas, TX
2004. McGill Univ., Department of Earth and Space Sciences, Conference du GEOTOP, Montreal, Quebec, Canada
2004. Kansas Geological Society Technical Session Presentation, Wichita, KS
2003 Geological Society of America Annual Meeting, Seattle, WA
2003. American Association of Petroleum Geologists Annual Intl. Meeting, Barcelona, Spain
2003. Gulf Coast Association of Geological Societies Annual Meeting, Baton Rouge, LA
2003. American Association of Petroleum Geologists Annual Meeting, Salt Lake City, UT
2003 Univ. of Tulsa Technical Presentation, Tulsa, OK
2002. Geological Society of America Annual Meeting, Denver, CO
2002. Gulf Coast Association of Geological Societies Annual Meeting, Austin, TX
2002. American Association of Petroleum Geologists Annual Meeting, Houston, TX
2001 Geological Society of America Annual Meeting, Boston, MA
2001. International Hedberg Research Conference, Sequence Stratigraphic and Allostratigraphic Principles and Concepts, Dallas, TX
2001 American Association of Petroleum Geologists Annual Meeting, Denver, CO
2001. Eastern Gulf Region - Petroleum Technology Transfer Council Workshop, Tuscaloosa, AL
2000. Geological Society of America Annual Meeting, Reno, NV
2000. Gulf Coast Association of Geological Societies Annual Meeting, Houston, TX
AAPG/EAGE Joint International Research Conference, Carbonate Reservoir 2000. Characterization and Modeling for Enhanced Hydrocarbon Discovery and Recovery, El Paso, TX
2000 American Association of Petroleum Geologists Annual Meeting, New Orleans, LA
1999. Geological Society of America Annual Meeting, Denver, CO
1999 Gulf Coast Association of Geological Societies Annual Meeting, Lafayette, LA
1999. International Hedberg Research Conference, Multi-Dimensional Basin Modeling, Colorado Springs, CO
1999. American Association of Petroleum Geologists Annual Meeting, San Antonio, TX
1998. Geological Society of America Annual Meeting, Toronto, Ontario, Canada
1998. Eastern Gulf Region - Petroleum Technology Transfer Council Workshop, Tuscaloosa, AL
1997. Geological Society of America Annual Meeting, Salt Lake City, UT
1996. Geological Society of America Rocky Mountain Section Meeting, Rapid City, SD

SERVICE

PROFESSIONAL SOCIETY MEMBERSHIP

2020 – present. History of Earth Sciences Society
2015 – present. The Geological Society [of London, UK]
1993 - present. American Association of Petroleum Geologists
1992 - present. Geological Society of America
2002 - 2010. Kansas Geological Society
2000 - 2010. American Geophysical Union
1996 - 2010. Society for Sedimentary Geology (SEPM)
2000 - 2002. Houston Geological Society (Basin Modeling Group)

PROFESSIONAL SERVICE

2024 - present. Webmaster. *History, Philosophy, and Geoheritage Section*, Geological Society of America
2021. *Geoscience Communication* Manuscript Reviewer
2019. *Palaios* Manuscript Reviewer
2019. *Gulf Coast Association of Geological Societies (GCAGS) Journal* Manuscript Reviewer
2018. *Sedimentology* Journal Manuscript Reviewer.
2018 - present. NAGT Field Camp Directors Working Group
2017. *Journal of Sedimentary Research (JSR)* Manuscript Reviewer
2017. *GeoFluids* Journal Reviewer
2016. *Journal of Sedimentary Research (JSR)* Manuscript Reviewer
2016. *Gulf Coast Association of Geological Societies (GCAGS) Journal* Manuscript Reviewer
2015. Nominated for *American Association of Petroleum Geologists Bulletin* Editor position
2012-2014. Member. *Kansas Geological Mapping Advisory Committee (KGMAC)*
2012. *Alabama Museum of Natural History Bulletin* Manuscript Reviewer
2012. Conference convener, *American Association of Petroleum Geologists Hedberg Research Conference*, Houston, TX
2006. *Geological Society of America* Annual Meeting Technical Session Chair (T63, 31 T143)
2004 - 2006. *American Association of Petroleum Geologists Bulletin* Associate Editor. Reviewed approx. 10 manuscripts
2002 - 2005. *American Association of Petroleum Geologists* Research Committee Member
2006. *Kansas Academy of Sciences Transactions* Manuscript Reviewer
2004. Technical talk to *Kansas Geological Society*
2003. Technical talk to *Tulsa Geological Society*
2004. *National Science Foundation (NSF)* Grant Reviewer
2003. *Geological Society of America* Annual Meeting Technical Session Chair (T129)
2003. *Geological Society of America Bulletin* Manuscript Reviewer
2003. *Sedimentology* Manuscript Reviewer
2002. Technical talk to *Kansas Geological Society*
2002. *Journal of Sedimentary Research (JSR)* Manuscript Reviewer

UNIVERSITY AND COLLEGE SERVICE

2025 - present. Faculty Development Council Subcommittee on Faculty Advancement and Leadership Development, Academic Affairs.
2021 - present. Faculty Senate Chair Policy Task Force committee member.
2001 to present. Thesis committee members to departments including Geology, Physics, Chemistry, Anthropology, Education, and Communication
2003 - present. Member. KSDE Teacher Licensing Standards and Program Assessment for Earth and Space Science (grades 8-12)
2003 - present. Member. KSDE Teacher Licensing Standards and Program Assessment for Sciences Committee (grades 6-9)
2020. Member. Convergent Science Building Committee
2019-21. Member. Certificate program for GIS development committee
2019-21. Member. Certificate program for Environment and Sustainability development committee
2016 – 2018. Member. Fairmount LAS Tenure and Promotion committee
2011 – 2014. Member. LAS College curriculum committee, Wichita State University
2011. Member. Kansas Academy of Science Annual Meeting Committee
2007-2010. Graduate Coordinator. Earth, Environment, and Physical Sciences Program MSc (EEPS)
2006. Member. Oversight committee for LAS Bachelor of General Studies (BGS).
2003 - 2005. Member. Multidisciplinary Earth, Environmental, and Physical Sciences (MEEPS) Program Development Committee
2002 - present. Coordinator. Watkins Visiting Professorship Lecture Series

DEPARTMENT SERVICE

2025 - present. Graduate coordinator, EEPS program
2010 - 2025. Chair, Department of Geology, Wichita State University (see above for duties)
2024. Faculty search committee chair, Department of Geology, Wichita State University (successful; hired two faculty members)
2016. Faculty search committee chair, Department of Geology, Wichita State University (successful; hired one faculty member)
2014. Faculty search committee chair, Department of Geology, Wichita State University (successful; hired two faculty members)
2010. Faculty search committee chair, Department of Geology, Wichita State University (unsuccessful)
2008. Faculty search committee chair, Department of Geology, Wichita State University (successful search)
2021 – present. Geology Club faculty advisor.
2012 – present. American Association of Petroleum Geologists Student Chapter faculty advisor.
2003 - present. Sigma Gamma Epsilon geology society. Role: Advisor.
2002 - present. Graduate student advisor, thesis chair, and thesis committee

member.

2002 - present. Department website. Role: Advisor.

2001 - present. Organize department field trips. Role: Trip leader or co-leader. (trips include England, Wales, Oklahoma, Texas, Arkansas, Tennessee, North Carolina, New Mexico, Colorado, Wyoming, Montana, Nebraska)

2002 - 2010. Department faculty meeting note-taker.

2005. Guest instructor for GEOL 540: Field Mapping Methods.

2004. Department Chair Election: Role: Convener.

2004. Graduate Faculty Reappointment Committee. Role: Chair.

2004. Computer room equipment advisor. Role: Advisor to department chair.

2003 - 2004. Department field trips to Colorado and New Mexico. Role: Guide.

2002 - 2003. Department rocksaw equipment. Role: Advisor.

2002. Curriculum Committee. Role: Member.

2001 - 2002. Departmental Review Committee. Role: Chair.

2001 - 2002. Departmental Assessment Committee. Role: Member.

2001. Masters of Environmental Science (MES) Program Committee. Role: Member.

2001 - present. Department field trips. Role: Trip leader.

2001. Contingency Funds Committee. Role: Member.

COMMUNITY SERVICE

2010 to present. Media interviews (TV, radio, newspaper) for geology related topics: e.g. local earthquakes, oil/gas drilling, and water issues

2016 – present. Science Olympiad coach, Robinson Middle School and East High School, Wichita, KS

2010 - present. Local school visits to promote careers in Earth Sciences

2015-present. Senseney community band, member (French Horn)

2011-2015. Friends University Orchestra, member (French Horn)

2011. City of Derby community band, member (French Horn)

2005 - 2006. Exploration Place/WSU Community Engagement Committee.

2006. Introduced community pre-school class to geologic topics.

2004. The Westminster Schools (Atlanta, GA). Role: Geoscience Advisor

2004. Technical Talk to Kansas Geological Society.

2003. Technical Talk to Tulsa Geological Society.

2001. Non-credit Wichita State University community course on “Evolution”