

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"

Advisor: Ernest Mancini

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"

Advisor: Allan Thompson

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

ACADEMIC POSITIONS

Chair, Department of Geology, Wichita State University, 2010 – present

Duties: see next page under ADMINISTRATIVE EXPERIENCE

Reporting to Deans (LAS): Drs. Bill Bischoff (2010-2012), Ron Matson (2012-2018), Andrew Hippisely (2018 – 2024), David Eichhorn (2024-present)

Director, Geology Field School (Field Camp), Department of Geology, Wichita State University, 2013 – present

Duties: see next page under ADMINISTRATIVE EXPERIENCE

Reporting to Deans (College of Liberal Arts and Sciences): Drs. Bill Bischoff (2010-2012), Ron Matson (2012-2018), Andrew Hippisely (2018 – 2024), David Eichhorn (2024-present)

Graduate Coordinator, Earth, Environment, and Physical Sciences (EEPS) MS

Program, Wichita State University, 2007 – 2010, 2024

Duties: see next page under ADMINISTRATIVE EXPERIENCE

Reporting to Chairs: Collette Burke (2007) and Wan Yang (2007-2010)

Associate Professor, Department of Geology, Wichita State University, 2007 – present

Research: Sedimentary basin analysis, sedimentology and stratigraphy, and visualizing conceptual uncertainty in geologic datasets

- Modern and ancient sedimentary record of the controls on climate and sea-level change through geologic time.
- Resource exploration in sedimentary basins
- Chemostratigraphy for correlation in sedimentary basins
- Geoscience computer simulations and serious game development for visualization and accessibility in education
- Machine-learning/soft computing approaches for decision making and quantification of the geological concepts. Fuzzy logic and neural networks

Reporting to Chairs: Collette Burke (2007) and Wan Yang (2007-2010)

Assistant Professor, Department of Geology, Wichita State University, 2001 – 2007

Research: as above

Reporting to Chairs: John Gries (2001-2004), Collette Burke (2004-2007)

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

OTHER POSITIONS

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

Geologist - Intern, BP Amoco, Western U.S. Gas Unit, Houston, TX, May – August 1999

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

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

Teaching: Structural Geology labs, Sedimentology/Stratigraphy labs, Field Camp assistant

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 – present)

Budget

- Manage yearly operating budget (OOE)
- 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

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 modify existing courses

Spokesperson

- Coordinate messaging of department activities and vision to various constituents, including university administration, alumni and donors, industry, students, and 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)
 - o <http://www.wichita.edu/geology>
 - o <https://www.facebook.com/wichita.geology>
 - o <https://www.instagram.com/wichitageology/>

Director, Geology Field School (2013 – present)

Budget

- Manage endowment funds and maintain/develop donor relations.
- Develop student fee structure with Accounts Receivable Office.
- 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 landowners, 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

- Meet with donors to move toward completely endowing field camp in perpetuity. As Department Chair and Camp Director, raise funds for an endowment to fully fund camp operations in perpetuity
- Expand the camp yearly to increase out-of-state student applicants. Since recruited numerous out-of-state student applicants.
 - o Camp has grown from zero outside students in 2013 to over 80 participants from thirty different schools over past decade
- Social media and online coordinator for department (oversee department Facebook accounts; design and implement program webpage)
 - o <http://www.wichita.edu/fieldcamp>
 - o <https://www.facebook.com/groups/Wichita.Geology.Field.School>

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

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 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)

TEACHING EXPERIENCE

Courses taught from 2001 to present:

GEOL 102: Earth Science and the Environment (all semesters from 2001-present)
GEOL 312: Historical Geology (fall 2023-present)
GEOL 301: Dinosaurs: Fantastic Beasts and Lost Worlds (fall 2024)
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 530: Critical Minerals (fall semester 2022-present)
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: Extreme Environments (2004)
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 numerous theses, independent studies, and undergraduate research projects.

SUPERVISED STUDENT PROJECTS AND SUBSEQUENT EMPLOYMENT

Mitch Baker, MS, current student

Project: "Imaging Microbialite Structures and Components in the Middle Jurassic Gypsum Spring Formation, Cody, WY with computed tomography (CT) scans"

Jack Dalton, MS, current student

Project: "Chemostratigraphic Framework and Dinosaur Faunal Assemblage of Jurassic Morrison Formation, WY"

Julia Schwartz, MS, 2024

Project: "Chemostratigraphy of Cretaceous Eagle Formation, WY"

Employment: Assistant Educator, Department of Geology, Wichita State University

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 INTERESTS

Stratigraphy and sedimentology, basin studies, including microbial carbonate reservoirs, petroleum reservoir characterization, Mesozoic paleoenvironments and paleogeography.

Managing and visualizing uncertainty in geologic decision making, drawing from stratigraphic modeling, multivalued logic, information science, philosophy, gaming, and history and philosophy of science.

PUBLISHED, PEER-REVIEWED JOURNAL ARTICLES, VOLUMES, AND CONFERENCE PROCEEDINGS

* student co-authors marked with asterisk

Schwartz, J.*, Dalton, J.*, and Parcell, W., 2024, Exploration for rare earth elements in coal seams with X-ray Fluorescence (XRF): A case study from the Cretaceous Eagle Formation, Elk Basin, Park County, Wyoming, USA. Wichita State University GRASP Symposium [CONFERENCE PROCEEDING]

Dalton, J.* and Parcell, W., 2024, First record of *Belosphys spinosus* (Cetacea – Odontoceti) from the Choptank Formation (Middle Miocene), Southern Maryland. Wichita State University GRASP Symposium [CONFERENCE PROCEEDING]

Parcell, W., 2023, The art of knowing the natural world: Analysis of complete translations of Athanasius Kircher's *Itinerarium Exstaticum I & II* (1656,7) and *Mundus Subterraneus* (1678). Geological Society of America Abstracts with Programs. Vol 55. No. 6. [CONFERENCE PROCEEDING]

Schwartz, J.* Dalton, J., and Parcell, W., 2023, Quantifying paleo-environments in the Eagle Formation, northern Bighorn Basin, using trace element concentrations. Geological Society of America Abstracts with Programs. Vol 55. No. 6. [CONFERENCE PROCEEDING]

Schwartz, J.* and Parcell, W., 2023, Quantifying paleo-environments in the Eagle Formation Using trace element concentrations. Wichita State University GRASP Symposium [**Third place award**] [CONFERENCE PROCEEDING]

Dalton, J., and Parcell, W., 2023, Stratigraphy of the Morrison Formation (Upper Jurassic) Bentonite Beds, Northeastern Bighorn Basin, Wyoming. Wichita State Undergraduate Research and Creative Activity Forum. [CONFERENCE

PROCEEDING]

Swindle A.L., Demissie Z., Parcell W.C., 2022, Shrink-swell clays in soils: A simple way to get middle school students interested in Geosciences: Geological Society of America Annual Conference Abstracts with programs. Vol 54. No. 6. [CONFERENCE PROCEEDING]

Demissie, Z., Parcell, W.C., Swindle, A., Fielding, E., Seyoum. W., Duta, A., Liang, X., 2021, An integrated time-series surface deformation analysis using INSAR, GNSS, and NLDAS data, Geological Society of America Abstracts with Programs. Vol 53. No. 6. [CONFERENCE PROCEEDING]

Parcell, W.C., and Parcell, A.S., 2020, A field camp experience with Minecraft: Gamifying field mapping, exploration, and discovery in the Bighorn Basin, Wyoming, Geological Society of America Abstracts with Programs. Vol 52. No. 6. [CONFERENCE PROCEEDING]

Ibarra, V.*, Burke, C., Demissie, Z., Doyle, K., Parcell, W.C., 2020, Analysis of sedimentary deposits on Dickman's Point Beach, southwest Florida: Natural and anthropogenic influences, Geological Society of America Abstracts with Programs. Vol 52. No. 6. [CONFERENCE PROCEEDING]

Parcell, W.C., 2019, Early geologic reconnaissance of the southwestern United States by the U.S. Army Corps of Topographical Engineers, Geological Society of America Annual Meeting Abstracts with Programs. Vol. 51, No. 5. [CONFERENCE PROCEEDING]

Gray, K., Xiangyang X., Parcell, W.C., McKay, M.P., 2018, Structure and Stratigraphy of the Mid-Continent Region: Mountain Building and Related Sedimentation, Geological Society of America South-Central Meeting, Vol, 50, No. 1. [CONFERENCE PROCEEDING]

Bruce., D.*, Parcell, W.C., 2017, Elemental and mineral stratigraphy of mixed carbonate-clastic system: Middle Jurassic Gypsum Spring Formation, Bighorn Basin, Wyoming, Geological Society of America South-Central Meeting Abstracts with Programs. Vol. 49, No. 1. [CONFERENCE PROCEEDING]

Bruce., D.*, Parcell, W.C., 2017, Chemostratigraphy of a mixed carbonate-evaporite-clastic system: elemental and mineralogical patterns in the Middle Jurassic Gypsum Spring Formation, Bighorn Basin, Wyoming, Geological Society of America Annual Meeting Abstracts with Programs. Vol. 49, No. 6. [CONFERENCE PROCEEDING]

Mann, A.N.*, Parcell, W.C., 2017, Disassociating Earth from morality: Rene Descartes' understanding of Earth's Interior, Geological Society of America Annual Meeting Abstracts with Programs. Vol. 49, No. 6. [CONFERENCE PROCEEDING]

Parcell, W., Lapeyre, C.*, Gilbert, C.*, Day, K.*, 2016, Elemental chemostratigraphic zones in the Middle Jurassic Gypsum Spring Formation, northern Bighorn Basin, Wyoming, Geological Society of America Annual Meeting Abstracts with Program, Denver, CO. [CONFERENCE PROCEEDING]

Curtis, M.*, Morrison, E., Mourning, R., Bischoff, W., Parcell, W., 2015, Reservoir characterization of the Johnson Zone within the Cherokee Group: Hubert Field Complex, Logan County, KS, Geological Society of America Annual Meeting Abstracts with Programs. Vol. 47, No. 7, p. 84. [CONFERENCE PROCEEDING]

Curtis, M.*, Morrison, E., Mourning, R., Parcell, W., Bischoff, W., 2015, Reservoir characterization of the Johnson Zone within the Cherokee Group in the Owen Field Complex in Logan County, west central Kansas, American Association of Petroleum Geologists Student Expo, Tulsa, OK. [CONFERENCE PROCEEDING]

Sinclair, J.*, Parcell, W.C., 2014, Trace Metal Analysis of Little Arkansas River as Urbanization Increases Nearing Wichita, KS. in Proceedings: 10th Annual Symposium on Graduate Research and Scholarly Projects (GRASP). Wichita, KS: Wichita State University, p. 155 **[First place award]** [CONFERENCE ARTICLE]

Day, K.*, Parcell, W.C., 2013, Development of Upper Jurassic microbialite buildups in the Little Cedar Creek and Brooklyn fields and possible embayment wide microbialite buildups in southwest Alabama, Geological Society of America Annual Meeting Abstracts with Programs, Vol. 45, No. 7, p.106. [CONFERENCE PROCEEDING]

Day, K.*, Parcell, W.C., 2013, Upper Jurassic Smackover stratal relationships of the Little Cedar Creek and Brooklyn Fields and possible embayment wide microbialite buildups, AAPG Midcontinent Section Meeting Abstracts with Programs. [CONFERENCE PROCEEDING]

Mancini, E.A., Morgan, W., Harris, P., Parcell, W.C., 2013, Introduction: AAPG Hedberg Research Conference on Microbial Carbonate Reservoir Characterization—Conference summary and selected papers, AAPG Bulletin, v. 97, no. 11, p. 1835–1847. [JOURNAL ARTICLE]

Warusavitharana*, C., Parcell, W., 2013, Sedimentary features, occurrence and cyclicity of microbialite facies in the Roubidoux and Jefferson City Formations of Missouri and Kansas, AAPG Bulletin, v. 97, no. 11, p. 1849–1870. [JOURNAL ARTICLE]

Warusavitharana, C.*, Parcell, W., Franseen, E., Outcrop and subsurface characterization of microbialite facies in the Ordovician Arbuckle Group of Missouri and Kansas, AAPG Hedberg Conference: Microbial Carbonate Reservoir Characterization Abstracts. [CONFERENCE PROCEEDING]

Mancini, E.A., Ahr, W., Parcell, W.C., Ridgway, G., Characteristics of Upper Jurassic Smackover microbial facies and reservoirs in the northeastern Gulf of Mexico, AAPG Hedberg Conference: Microbial Carbonate Reservoir Characterization Abstracts. [CONFERENCE PROCEEDING]

Ahr, W., Mancini, E., Parcell, W., 2011, Pore characteristics in microbial carbonate reservoirs. AAPG Annual Meeting Abstracts with Program. [CONFERENCE PROCEEDING]

Gilbert, J.C.*, Parcell, W., 2011, Depositional patterns and stratigraphic relationships in a sag basin: Middle Jurassic Gypsum Spring and Sundance Formations, NW Wyoming/SW Montana. AAPG Annual Meeting Abstracts with Program. [CONFERENCE PROCEEDING]

Warusavitharana, C.*, Parcell, W., 2011, A multi-scale analysis and stratigraphy of microbialites of the Lower Ordovician of Kansas and central Missouri, AAPG Annual Meeting Abstracts with Program. [CONFERENCE PROCEEDING]

Mancini, E.A., Ahr, W.M., Parcell, W.C., Morgan, W.A., 2010, Microbial Carbonate Reservoirs, AAPG Getting Started Series No. 19. [EDITED VOLUME AND ARTICLE]

Parcell, W.C., 2010, Evolution of Creation: Athanasius Kircher's (1602-1680) recognition of a changing Earth through time, Geological Society of America Abstracts with Programs, Vol. 42, No. 5, p. 402. [CONFERENCE PROCEEDING]

Parcell, W.C., Warusavitharana, C.*, 2010, Stromatolite-thrombolite associations in the Lower Ordovician Cotter Dolomite at Hollister, Missouri, U.S.A., Geological Society of America Southcentral Section Abstracts with Programs, Vol. 42, No. 2, p. 85. [CONFERENCE PROCEEDING]

Warusavitharana, C.*, Parcell, W., 2010, A multi-scale analysis and stratigraphy of microbialites of the Lower Ordovician of Kansas and central Missouri, Geological Society of America Abstracts with Programs, Vol. 42, No. 5, p. 107. [CONFERENCE PROCEEDING]

Mancini, E.A., Ahr, W., Parcell, W.C. 2010, Development of geologic models to facilitate the exploration for microbial carbonate buildups and potential reservoir facies in Mixed Depositional Systems, AAPG Annual Meeting Abstracts with Program. [CONFERENCE PROCEEDING]

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. [MEMOIR ARTICLE]

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. [JOURNAL ARTICLE]

Parcell, W.C., 2009, Outcrops from central Missouri as analogs for microbialite facies in the Cambro-Ordovician Arbuckle Group of Kansas: American Association of Petroleum Geologists Annual Meeting Abstract with Program. [CONFERENCE PROCEEDING]

Mancini, E.A., Parcell, W.C., 2009, Outcrop analogs from western Europe for reservoir characterization and modeling of Upper Jurassic microbialite and associated higher energy lithofacies in the Eastern Gulf Coastal Plain, USA: American Association of Petroleum Geologists Rocky Mountain Section Meeting Abstract with Program. [CONFERENCE PROCEEDING]

Mancini, E.A., Obid, J., Badali, M., Liu, K., Parcell, W.C., 2008, 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. [JOURNAL ARTICLE]

Mancini, E.A., Parcell, W.C., Ahr, W.M., Ramirez, V.O., Llinas, J.C., Cameron, M., 2008, 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. [JOURNAL ARTICLE]

Parcell, W.C., 2008, Visualizing uncertainty in carbonate reservoir models with semiotics and information systems: examples from outcrop and core studies, American Association of Petroleum Geologists Annual Meeting Abstracts Volume. [CONFERENCE PROCEEDING]

Parcell, W.C., 2008, Multi-valued logic modeling to visualize conceptual uncertainty in a mixed carbonate-siliciclastic system, Geological Soc. of America Annual Meeting Abstracts with Programs, Vol. 40, No. 6, p. 94. [CONFERENCE PROCEEDING]

Parcell, W.C., 2008, Multivalued logic modeling of Jurassic microbial reef development, Petroleum Technology Transfer Council - Eastern Gulf Section Workshop Notes, Jackson, MS. [CONFERENCE PROCEEDING]

Koralegedara, G.*, Parcell, W.C., 2008, Depositional fabrics and dolomitization In microbial reef reservoirs at Little Cedar Creek Field, Conecuh County, Alabama. Geological Society of America Abstracts with Programs, Vol. 40, No. 6, p. 413. [CONFERENCE PROCEEDING]

Koralegadara, G.*, Parcell, W.C., 2008, Reservoir characterization of microbial reef reservoirs at Little Cedar Creek Field, Conecuh County, Alabama. In Proceedings: 4th Annual Symposium: Graduate Research and Scholarly Projects. Wichita, KS: Wichita State University, p.57-58. [CONFERENCE PROCEEDING]

Mancini, E.M., Parcell, W.C., Ahr, W.M., Ramirez, V.O., Llinás, J.C., Cameron, M., 2008, Carbonate reservoir characterization for identification of stratigraphic traps: Eastern Gulf Coastal Plain, American Association of Petroleum Geologists Annual Meeting Abstracts Volume. [CONFERENCE PROCEEDING]

Parcell, W.C., 2008, Outcrops from central Missouri as analogs for microbialite facies in the Cambro-Ordovician Arbuckle Group of Kansas, American Association of Petroleum Geologists Annual Meeting Abstracts Volume. [CONFERENCE PROCEEDING]

Mancini, E.A., Parcell, W.C., 2008, Outcrop analogs from western Europe for reservoir characterization and modeling of Upper Jurassic microbialite and associated higher energy lithofacies in the Eastern Gulf Coastal Plain, USA, American Association of Petroleum Geologists Annual Meeting Abstracts Volume. [CONFERENCE PROCEEDING]

Parcell, W.C., 2007, The influence of Athanasius Kircher's hermetic and neo-platonic worldview on Mundus Subterraneus, Geological Society of America Abstracts with Programs, Vol. 39, No. 6, p. 414. [CONFERENCE PROCEEDING]

Parcell, W.C., 2007, MUNDUS: digital archive of historical earth inquiry, Geological Society of America Abstracts with Programs, Vol. 39, No. 6, p. 155. [CONFERENCE PROCEEDING]

Koralegedara, G.*, Moody, W.H.*, Warusavitharana, C.J.*, Parcell, W.C., 2007, Relationships between depositional fabric and reservoir quality distribution in microbial reef reservoirs, Little Cedar Creek Field, Conecuh County, Alabama, Geological Society of America Abstracts with Programs, Vol. 39, No. 6, p. 147. [CONFERENCE PROCEEDING]

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. [JOURNAL ARTICLE]

Mancini, E.A., Parcell, W.C., 2006, Outcrop analogs for reservoir characterization of Jurassic microbial buildups, Gulf of Mexico, Geological Society of America Abstracts with Programs, Vol. 38, No. 7, p. 131. [CONFERENCE PROCEEDING]

Mancini, E.A., Parcell, W.C., Ahr, W.M., Llinas, J.C., Bearden, B.L., Tew, B.H., 2006, New stratigraphic trap oil play associated with the Upper Jurassic Smackover microbial reef trend, onshore Eastern Gulf Coastal Plain: American Association of Petroleum Geologists Annual Meeting Abstracts Volume. [CONFERENCE PROCEEDING]

Parcell, W.C., 2006, Maximum flooding or maximum starvation? Exploring the development of the maximum flooding surface in carbonate systems with multi-

valued logic: *Stratigraphy*, v. 2, n. 4., p. 355-368. [JOURNAL ARTICLE]

Parcell, W.C., 2006, Viewing the history of geologic thought through lens of semiotics, *Geological Society of America Abstracts with Programs*, Vol. 38, No. 7, p. 37. [CONFERENCE PROCEEDING]

Parcell, W.C., Venhaus, J.C.*, 2006, 3-D sequence stratigraphic framework for the Middle Jurassic Ellis Group, Wyoming and Montana through correlation of outcrop descriptions, gamma ray profiles, and well logs: *American Association of Petroleum Geologists Rocky Mountain Section Meeting Abstract Volume*. [CONFERENCE PROCEEDING]

Haner, A.*, Parcell, W.C., 2005, Stratigraphic relationships within the Lower Ellis Group, southern margin of Belt Island, southern Montana: *Geological Society of America Abstracts with Programs*, Vol. 37, No. 7, p. 141. [CONFERENCE PROCEEDING]

Mancini, E.A., Parcell, W.C., Llinas, J.C., 2005, Upper Jurassic thrombolite and coral-thrombolite buildup development in shelf and ramp settings in the northern Tethyan Realm: *American Association of Petroleum Geologists Annual Meeting Abstracts Volume*. [CONFERENCE PROCEEDING]

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. [JOURNAL ARTICLE]

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. [JOURNAL ARTICLE]

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

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TECHNICAL SESSIONS HOSTED

Mancini, E.A., Morgan, W.A., Ahr, W., Parcell, W.C., Dias-Brito, D., Harris, P., 2012, Microbial Carbonate Reservoir Characterization, AAPG 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

GRANTS AND CONTRACTS

2021. Kansas NASA EPSCoR Program (KNEP) Seed Research Initiation (SRI) Grant. Assessing Strain Localization and distribution in the Southcentral Kansas using geodetic and seismic observations. Collaboration between WSU and Kansas Geological Survey. Co-PI, Requested \$152,642. IN REVIEW

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 interpretaton 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

PROFESSIONAL PRESENTATIONS

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, Quebec, Canada

2019. Geological Society of America Annual Meeting, Phoenix, AZ

2017. Geological Society of America Annual Meeting, Seattle, WA

2017. Geological Society of America South Central Section Meeting, San Antonio, TX
2016. Geological Society of America Annual Meeting, Denver, CO
2013. Geological Society of America Annual Meeting, Denver, CO
2013. American Association of Petroleum Geologists, MidContinent Meeting, Wichita, KS
2012. 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 Section 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 International 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
2000. AAPG/EAGE Joint International Research Conference, Carbonate Reservoir 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

PROFESSIONAL SOCIETY MEMBERSHIP

1993 - present. American Association of Petroleum Geologists
1992 - present. Geological Society of America
2015 - 2022. The Geological Society (London)
2002 - 2012. 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 AND RECOGNITION

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 *AAPG Bulletin* Editor position
2012-2014. Member. Kansas Geological Mapping Advisory Committee (KGMAC)
2012. *Alabama Museum of Natural History Bulletin* Manuscript Reviewer
2012. Conference convener, AAPG Hedberg Research Conference, Houston, TX
2006. Geological Society of America Annual Meeting Technical Session Chair (T63,

T143)

2004 - 2006. *American Association of Petroleum Geologists (AAPG) 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. 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. *Journal of Sedimentary Research (JSR)* Manuscript Reviewer

UNIVERSITY AND COLLEGE SERVICE

2010 – present. Chair. Department of Geology, Wichita State University

2001 to present. Thesis committee member 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

2010 - present. Chair. Department of Geology, Wichita State University

2012 - present. Faculty advisor. AAPG Student Chapter

2003 - present. Faculty advisor. Sigma Gamma Epsilon geology society

2002 - present. Advisor. Graduate students, thesis chair, and thesis committee member

2002 - present. Department website content creator and designer

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

2002 - present. Faculty oversight. Department rock sample preparation equipment.

2002 - present. Member. Department curriculum committee

2007-2010. Graduate Coordinator. Earth, Environment, and Physical Sciences MSc Program (EEPS)
2007. Convener. Department Chair Review and Election
2005, 2012, 2013, 2014, 2016, 2018. Faculty search committee chair, Department of Geology, Wichita State University
2004. Convener. Department Chair Review and Election
2001 - 2010. Member. Departmental Program Assessment Committee
2001. Member. Masters of Environmental Science (MES) Program Committee

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”