

## CURRICULUM VITAE

### JOHN M. HOLBROOK

**Department of Geology  
Texas Christian University**

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#### Highlights

- *Won over three million dollars in external funding, mostly from competitive Federal Research Grants*
- *AAPG Distinguished Lecturer 2015-2016; AAPG Matson Award for Best Paper at Annual Meeting 2019*
- *Served in a high proportion of the leadership posts for professional organizations dedicated to Sedimentology/Stratigraphy, including: GCSSEPM President, GSA Council, SEPM Council, and Chair of GSA Publications Committee*
- *Served on multiple funding panels for NSF, PRF (Geology), and USGS EDMAP*
- *Graduated 4 Ph.D and 37 M.S. students, currently advising 6 M.S. students*
- *Won the UTA College of Science and Technology Outstanding Undergraduate Teacher award*
- *Teaching national and international AAPG short courses in “Fluvial Stratigraphy” and “Sequence Stratigraphy”*
- *Led NSF community effort in exploring potential for geothermal energy from sedimentary basins*
- *Awarded Swanson Endowment for research*
- *Experienced Expert Witness in Environmental Litigation*

#### EDUCATION AND CREDENTIALS

- **1995 – Present, P.G., Registered Professional Geologist**, State of Missouri
- **1992 - Ph.D., Geology (Minor: Geophysics), Indiana University**, advisor Donald Hattin, G.P.A. 4.0/4.0
- **1988 - M.S., Geology, University of New Mexico**, advisor Robyn Wright Dunbar, G.P.A. 3.7/4.0
- **1985 - B.S., Geology, University of Kentucky**, G.P.A. 3.6/4.0 (major), G.P.A. 3.6/4.0 (overall)

#### EXPERIENCE

- **2011-Present, Professor, Texas Christian University**, Department of Geology
  - **2018-2019, Visiting Professor, The Hebrew University of Jerusalem**, Jerusalem, Israel, Institute of Earth Sciences
- **2003 - 2011, Professor, University of Texas, Arlington**, Department of Earth and Environmental Sciences
  - **2005- 2011, Adjunct Professor, University of Texas, Dallas**, Department of Geosciences
  - **2008-2010, Visiting Professor, St. Petersburg State University**, St Petersburg, Russia, Department of Geology
- **1992 - 2003, Faculty, Southeast Missouri State University**
  - **2000 - 2003, Professor**, Department of Geosciences and Faculty of Environmental Sciences
  - **1998, Visiting Professor**, Department of Geology and Mining, Enugu State University, Nigeria.
  - **1996 - 1999, Associate Professor**, Department of Geosciences
  - **1992 - 1995, Assistant Professor**, Department of Geosciences
- **1989 - 1992, Associate Instructor**, Indiana University, Structural Geology lab in the Fall semesters; Sedimentation and Stratigraphy lab in the Spring semesters
- **1991, Sedimentary Consultant/Field Researcher** (field mapping and reconnaissance sedimentology), Indiana University Tectonics and Earthquake Prediction Project in Tajikistan
- **1988, Geological Assistant**, Peabody Ventures (an independent petroleum company), Santa Fe, New Mexico
- **1986 - 1988, Teaching Assistant**, University of New Mexico Department of Geology and Meteoritics

## CURRENT RESEARCH INTERESTS

- Fluvial-deltaic sedimentary processes in modern and ancient environments; emphasis on quantitative and qualitative constraint of internal vs. external controls and rates for fluvial processes, patterns and controls on reservoir/aquifer architecture, neotectonic processes from facies proxy data, and fluvial applications to environmental mitigation and sustainability
- Mechanics of sequence deposition; emphasis on discontinuity development

## TEACHING INTERESTS AND COURSES TAUGHT DURING LAST FOUR YEARS

### *Teaching Interests*

- Teaching interests are broad, but focus on a wide range of subjects related to modern sediment-producing environments, Quaternary geology, stratigraphy, and physical and biological development of the sedimentary rock record.
- Courses taught recently include: Sedimentology/Stratigraphy, Sequence Stratigraphy, Geomorphology and Quaternary Geology, Fluvial Stratigraphy, Technical Writing for the Geosciences, Predictive Stratigraphy, Depositional Environments, Geology Field Camp, Field Methods, Earth and Life Through Time, Historical Geology, Introduction to Research, Environmental Hazards, Physical Geology

### *Short Courses Taught in Past Four Years*

- **Getting Started in Fluvial Stratigraphy**, Survey course in fundamentals of stratigraphy of fluvial deposits aimed at industrial applications; Sessions Taught – Canadian Society of Petroleum Geologists Education Conference, Calgary ([2 day] 2013); AAPG Education Series ([1 day] 2013, 2014); YPF in Buenos Aries ([1.5 days] 2013); AAPG Annual Meeting ([1 day] 2014); Whiting Oil, Midland ([1 day] 2014); Rocky Mountain Geologist ([2 day] 2014); Canadian Naturel Resources Ltd, Calgary ([2 day] 2015); CEPESA Petroleum, Bogota ([2 day] 2015); USGS, Reston ([3 day] 2015); AAPG South-Central Section, Abilene ([1 day] 2016); Woodside Petroleum ([2 day] 2016); Canadian Naturel Resources Ltd, Calgary ([3 day] 2017); AAPG Midwestern Section, Oklahoma City ([1 day] 2017), AAPG South American Educational Conference, Buenos Aries ([3 days] 2018), Woodside Petroleum, Perth Australia ([2 days] 2018), Hebrew University, Jerusalem ([3 days] 2018); AAPG online international ([3 days] 2020)
- **Fundamentals of Clastic Sequence Stratigraphy**, Survey course on theory and practical use of sequence stratigraphy; Sessions Taught –AAPG Education Series ([1 day] 2013, 2014, 2015); YPF in Buenos Aries ([1.5 days] 2013); CEPESA Petroleum, Bogota ([2 day] 2015); Hebrew University, Jerusalem ([3days] 2018)

## CONSULTING

- **2010-2018 Geological Consultant for EPA RI Report and Site Remediation Plan**, PolyOne Corporation, Westlake Chemical Plant, Paducah, Kentucky
- **2016-2018 Expert Witness**, On behalf of PolyOne Corporation, Westlake Chemical Plant, Paducah, Kentucky, Testifying twice in 2018
- **2010-present, Straight Creek Solutions**, Additional environmental consulting project through my IRS Sole Proprietorship
- **Petroleum On-site Consulting**, regular in-house consulting for several public and independent oil companies
- **Co-PI of the Fluvial Research Group**, a research consortia serving research needs of the petroleum industry administered at the University of Leeds, Leeds, UK

## ACADEMIC AWARDS AND HONORS

- **2020, AAPG Manson Award**, Best oral presentation at the 2019 AAPG Annual Conference and Exposition
- **2019, Best of AAPG**, Invited to GSA session titled “Best of AAPG” based on top 10 papers at the AAPG annual meeting.
- **2017, Dean’s Award**, College of Science and Technology, nominee for University award
- **2015, AAPG Distinguished Lecturer**, Appointed by AAPG and sent on lecture circuit presenting my research in sedimentology
- **2015, Appointed to Swanson Endowment**, A new donation of \$600k in permanent endowment was made specifically to support my research program at TCU at impetus of a former student based on my past research and to support future research
- **2012, GSA Fellow**, Appointed a “Fellow” of the Geological Society of America
- **2009, Outstanding Teacher Award**, College of Science and Mathematics, University of Texas at Arlington
- **2008, Who’s Who in America**
- **2006, Highlights in Science**, Science Magazine
- **2006-2008, Research Excellence Award**, University of Texas at Arlington
- **2006, Who’s Who among Sciences Higher Education**
- **2005, Who’s Who among American Teachers**
- **2002, Missouri Board of Geologist Registration**, One of seven-member board appointed by Governor.
- **2002, EDMAP proposal to USGS ranked second nationally** by USGS peer review committee among all proposals (63) submitted that year
- **1999-Present, Who’s Who in Science and Engineering, Who’s Who in Education**
- **1994, The Outstanding Researcher Award**, College of Science and Technology, Southeast Missouri State University

- **1993, Recognition of Outstanding Research Achievement**, One of three faculty granted \$500 in research allocations by Southeast Missouri State University College of Science and Technology in recognition of achievements as the most outstanding faculty in the college in the area of research
- **1992, SEPM Excellence in Oral Presentation Award**, Paper co-authored with Martin Lockley and Adrian Hunt awarded 'Best Paper' at the Society for Sedimentary Geology Mid-year Meeting
- **1991, Graduate School Alumni Association Award** for the graduate student ranked first overall, Department of Geological Sciences, Indiana University
- **1991, Outstanding Associate Instructor Award** for best teaching of upper-division courses in the Department of Geological Sciences, Indiana University
- **1991, Summer Research Fellowship**, College of Arts and Sciences, Indiana University
- **1988, Graduate School Fellow (Geology)**, One-year paid support without duties at Indiana University
- **1985, Purdell Award**, Outstanding graduating geology student, University of Kentucky
- **1985, Winner, position to attend the Grand National Karate Tournament** (first round of the Olympic Karate Trials)

## PROFESSIONAL SERVICE AND OFFICES HELD

- **2021, Nick Cestari Podcast**, Geothermal energy futures
- **2019, China University of Petroleum**, Qingdao, China, Invited keynote lecture and judge of student presentation competition for conference "Petroleum Energy for the Young Generation"
- **2019, Environmental Law Institute**, One of five-member panel of lawyers and expert witnesses presenting Webinar hosted on site in San Francisco, Translating Science to the Bench
- **2019, NSF AccelNet Review Panel**, Panelist for first offering of the NSF AccelNet program, a program funding international networks of research networks focused on extreme global issues
- **2019, PRF Panel**, Panelist for semi-annual grant evaluation for Geology
- **2019, PRF External Review Committee**, one of five members of the review committee evaluating procedures for the Petroleum Research Fund of the American Chemical Society. Reviews are approximately once every ten years
- **2019, STRATBO Review**, Paid field trip to test new NSF-funded community software for collecting and sharing stratigraphic field data
- **2018-2019, AAPG Grants-in Aid Review Committee**, Review student grants for AAPG annual competition
- **2018-2021, GSA Ethics Committee**, Judgement committee for professional malfeasance for Geological Society of America
- **2018-2021, Indiana University Alumni Advisory Committee**, Member of the advisory committee for Geology program at Indiana University
- **2018-2019, SEPM Nominations Committee**, Selection committee for slate of candidates for national SEPM organization
- **2018-2019, Donath Medal Committee**, Best young scientist award
- **2015-2017, GSA Academic and Applied Geoscience Relations Committee**, Member and 2017 Chair, Coordinates interaction between GSA and geology-related industries
- **2015-2017, GSA Publications Committee**, member and 2016-2017 Chair, GSA Editorial Board for all Journals (*Geology*, *GSA Bulletin*, *Geosphere*, *Lithosphere*, *Engineering and Environmental Geology*, *Special Publications*).
- **2015-2016, GSA Ad Hoc Nominations Committee**, Executive committee to review the nomination process
- **2015-2016, STEPPE Advisory Board**, Oversees the NSF STEPPE Program
- **2014-2016, Lead Guest Associate Editor, *Geosphere***, special issue on geothermal energy.
- **2014, NSF Panelist**, Marine Geology and Geophysics Panelist
- **2014-2016, Chair, GSA Audit Committee**, Oversees the yearly audit of GSA finances
- **2012-2017, NSF SedHeat RCN**, PI for NSF Research Coordination Network for geothermal energy in sedimentary basins
- **2013-2013, GSA Ad Hoc Committee on Hydrofracking**
- **2013-2013, AGI, Ad Hoc Committee on Program Classification**
- **2010-2016, Associate Editor, *Marine and Petroleum Geology***
- **2011-2015, Geological Society of America Council**, Elected position 4 of 8 voting Councilors approving decisions for GSA
- **2010, President GCSEPM**, Gulf Coast Society for Sedimentary Geology
- **2010-2016, PRF Advisory Committee**, Panel reviewing and recommend proposals for funding and general input to process for American Chemical Society Petroleum Research Fund.
- **2010-2011, GSA Leadership Meeting**, Participated in GSA annual strategic planning meeting, Boulder, Colorado
- **2010-2012, Academic Liaisons Committee**: AAPG Committee to review research proposals from industry fund to NSF for fundamental research.
- **2010, Chair, Organizing committee for AAPG/SEPM Annual Meeting**, AAPG Poster Chair, 2010 New Orleans
- **2009-2011, EDMAP Panel**, Appointed to review panel for USGS EDMAP grants
- **2009, President Elect GCSEPM**, Gulf Coast Society for Sedimentary Geology
- **2009, Student Assistant Coordinator**, South Central Section meeting, Geological Society of America
- **2009-2011, Chair, Sedimentary Geology Division of the Geological Society of America (GSA)**
- **2008-2010, SEPM Council**, Research Councilor for the Society for Sedimentary Geology
- **2006-2009, NSF Panel**, Sedimentary Geology and Paleontology, Arlington, VA
- **2006-2009, Chair and Organizer**, "Seds and Suds" forum on the future of Sedimentary Geology at GSA Annual Meeting
- **2006-2008, Second Chair/Chair Elect**, Sedimentary Geology Division of the Geological Society of America (GSA)

- **2006-2007, Chair, Organizing committee for AAPG/SEPM Annual Meeting**, Oral chair, 2008 San Antonio
- **2006-2007, Best Paper Committee**, Journal of Sedimentary Geology
- **2006-2007, Judge**, GSA Student Poster Competition, Sedimentary Geology Division
- **2005-2007, Joint Technical Program Committee representative for the Sedimentary Geology Division of GSA**, approve and arrange all sessions and abstracts for sedimentary geology for the GSA Annual Meeting
- **2004-Present, Co-director (with Chris Paola) of ForSed, an NSF-sponsored forum for national discussion of future research directions in Sedimentology and Stratigraphy**
- **2004-Present, SEPM Honorary Membership Committee**
- **2003-Present, NSF Steering Committee for Development of Future Research Directions**, Sedimentology and Paleontology
- **2003, Vice Chair and Chair Elect** of Missouri Board of Geologist Registration
- **2001, SEPM Nomination Committee**, One of 14 committee members that nominated and selected the 2002 slate of national SEPM executive candidates
- **1999 - 2000, AAPG Delegate**, representing the Association of Missouri Geologists
- **1999 - 2000, Secretary/Treasurer**, SEPM Mid-Continent Section
- **1998 - 1999, President**, SEPM Mid-Continent Section
- **1997 - 1998, Vice President and President Elect**, SEPM MidContinent Section
- **1997 - 2000, SEPM Research Concepts Committee**, Plan and approve research initiatives and meetings
- **1999, Organizing Committee AAPG/SEPM Annual Meeting**, Funding Coordinator, San Antonio, Texas
- **1998, Organizing Committee AAPG/SEPM Annual Meeting**, Funding Coordinator, Salt Lake City, Utah
- **1997 - 1999, Secretary**, Association of Missouri Geologists
- **1995 - 1997, SEPM Meetings Policy Committee**, Oversee meeting planning activities
- **1995 - 1998, SEPM K-12 Earth Science Education Committee**, Oversee K-12 education initiatives
- **1990 - 1999, Basin Leader** (Tucumcari and Dalhart basins of northeast New Mexico) for the WIK (Western Interior Cretaceous) project of the Global Sedimentary Geology Program
- **1993, North American Stratigraphic Commission (NASC)**, Presentation on codification of sequence-stratigraphic nomenclature as a visiting member of the NASC

#### INVITED COLLOQUIA PRESENTATIONS

- **2021, AAPG Pivoting #12**, New trends in drilling and reservoir modeling
- **2021, AAPG Academy**, Geothermal Energy Now
- **2021, AAPG Pivoting #8**, Geothermal Developments, Solar Energy Storage
- **2021, LSU**, Baton Rouge
- **2019, China Petroleum University**, Qingdao
- **2019, Western Australia University**, Perth
- **2019, Dallas Geological Society**, Dallas
- **2019, Woodside Petroleum**, Perth
- **2018, Woodside Petroleum**, Perth
- **2018, SIPES**, Ft Worth
- **2017, Hebrew University**, Jerusalem
- **2017, Shell**, Houston
- **2016, (AAPG Distinguished Lecture)**, Indiana Geological Society, Mt Vernon, Indiana
- **2016, (AAPG Distinguished Lecture)**, Wesleyan University, Middletown, Connecticut
- **2016, (AAPG Distinguished Lecture)**, University of Kentucky, Lexington, Kentucky
- **2016, (AAPG Distinguished Lecture)**, Indiana University of Pennsylvania, Indiana, Pennsylvania
- **2016, (AAPG Distinguished Lecture)**, Central Connecticut University, Hartford, Connecticut
- **2016, (AAPG Distinguished Lecture)**, McMaster University, Hamilton Ontario
- **2015, (AAPG Distinguished Lecture)**, Billings Geological Society, Montana
- **2015, (AAPG Distinguished Lecture)**, University of Utah, AAPG Student Chapter
- **2015, University of Calgary**, Geology Colloquia Series, Canada
- **2015, Suncor Energy**, Calgary, Canada
- **2015, CSPG Technical Luncheon**, Calgary
- **2015, Devon Energy**, Calgary
- **2014, BEG**, University of Texas at Austin
- **2013, (Invited Keynote), FORCE**, Stavanger, Norway
- **2013, NEXEN Petroleum**, Calgary, Canada
- **2013, University of Oklahoma**, Geology Colloquia Series, Norman
- **2013, Baylor University**, Geology Colloquia Series, Waco
- **2013, Fort Worth Geological Society**, Ft Worth
- **2013, FRG**, Sponsors meeting, Leeds, UK.
- **2012, Statoil**, Calgary, Exploration and Production
- **2012, University of Kentucky**, Rast-Holbrook Colloquia Series
- **2012, Abilene Geological Society**
- **2012, TCU**, Energy Club speaker series

- **2011, ConocoPhillips**, Houston, Upstream Clastics Research Group
- **2011, AAPG**, Webinar in Educational Series
- **2010, State Petersburg University**, Russia, Department of Sedimentary and Structural Geology
- **2010, Woodside Petroleum, Perth**, NW Shelf Production Group
- **2009, Menoufia University**, Egypt, Department of Geology
- **2009, University of Iowa**, Department of Geology
- **2009, University of Houston**, Department of Geology
- **2008, Kansas University**, Department of Geology
- **2008, University of Texas at Arlington**, EES Department
- **2007, ExxonMobil, Houston**, Upstream Research Company
- **2007, Chevron, Perth**, NW Shelf Production Group
- **2007, Woodside Petroleum, Perth**, NW Shelf Production Group
- **2007, Stanford University**, Department of Geology
- **2006, Woodside Petroleum, Perth**, NW Shelf Production Group
- **2006, Baylor University**, Department of Geology
- **2006, Southern Methodist University**, Department of Geological Sciences
- **2006, University of Nebraska, Lincoln**, Department of Geosciences
- **2005, University of Texas at Austin**, Department of Geological Sciences
- **2005, University of Texas El Paso**, Department of Geological Sciences
- **2004, University of Texas at Dallas**, Department of Geosciences
- **2004, Santos Oil Company**, Exploration Division
- **2003, University of Missouri, Rolla**, Department of Geology and Geophysics
- **2003, University of Texas, Arlington**, Department of Geology
- **2003, Iowa Geological Survey**, University of Iowa
- **2002, West Texas Geological Society**, Midland, Texas.
- **2001, University of Illinois-Chicago**, Department of Geology
- **2001, Tulane University**, Department of Geosciences
- **2000, University of Tulsa**, Department of Geology and Geophysics
- **1999, Southern Illinois University, Carbondale**, Department of Geology
- **1999, University of Missouri, Rolla**, Department of Geology and Geophysics
- **1998, University of Iowa**, Department of Geology
- **1996, Indiana University, Bloomington**, Department of Geological Sciences
- **1996, University of Missouri, Rolla**, Department of Geological Sciences
- **1995, Evansville, Indiana-Kentucky Geological Society**, at University of Southern Indiana, Evansville
- **1994, University of Illinois, Urbana**, Department of Geology
- **1994, Dyersburg Community College**, Community discussion on environmental issues
- **1993, Memphis State University**, Center for Earthquake Research and Information

#### **THEME SESSIONS, SYMPOSIA, WORKSHOPS, AND FIELD TRIPS ORGANIZED**

- **2020, Americas Wastelands**, Session and field trip on Permo-Triassic with co-convenor Neil Tabor, GSA SW Section, Ft Worth
- **2019, SIPES Field Trip**, Led field trip to Palo Duro Canyon for SIPES organization, Ft Worth
- **2017, International Conference on Fluvial Sedimentology**, Field Trip #9: Fluvial meander-belt deposits of the Dinosaur Park Formation, Dinosaur Provincial Park, Alberta, Canada, Leaders: John Holbrook (TCU), Paul Durkin (U. Manitoba), Steve Hubbard (U. Calgary), (18 Participants)
- **2017, International Conference on Fluvial Sedimentology**, Theme session: Reconstructing river channel migration: Next generation forensics for planform evolution pattern, Conveners: Paul Durkin (U. Manitoba), John Holbrook (TCU)
- **2017, SedHeat Workshop**, Geothermal Battery Energy Storage, San Francisco, California, Conveners: Sid Green (UU), John Holbrook (TCU), (12 participants)
- **2017, SedHeat Conference**, Unlocking the Energy Elephant, SedHeat conference on geothermal energy, Salt Lake City, Utah, Conveners: Will Pettitt (Itasca), John Holbrook (TCU), Sid Green (UU), (78 participants)
- **2016, ARMA/AAPG SedHeat Workshop**, Successful Engineering of Sedimentary Geothermal Systems, Conveners: Derek Elsworth (Penn State), John Holbrook (TCU), Charles Fairhurst (UM), Sid Green (UU), two day workshop affiliated with American Rock Mechanics Association Annual Meeting, Houston, Texas, (32 participants)
- **2016, AAPG Annual Meeting**, Theme 7: Oil Sands I: Facies, Conveners: John Holbrook (TCU), Rudy Strobl (NEXEN), Calgary Canada.
- **2016, GSA Annual Meeting**, Sedimentology, Clastics, Conveners: John Holbrook (TCU), Gary Weismann (UNM)
- **2013, Penrose Conference**: Predicting and Detecting Natural and Induced Flow Paths for Geothermal Fluids in Deep Sedimentary Basins: Park City, Utah, October 19-23, Conveners: John Holbrook (TCU); Rick Allis (Utah State Geological Survey); Derek Elsworth (Penn State); Sidney Green (Schlumberger); Joseph Moore (U Utah) (85 participants).

- **2011, NSF SEES Workshop, Tracking and Energy Elephant**, PI among three co-PI's organizing research priorities for the New NSF SEES (Science, Engineering, and Education for sustainability), Emphasis Geothermal Energy from Sedimentary Basins
- **2011, NSF SEES Workshop, Natural and Engineered Carbon Sequestration**, One of four co-PI's organizing research priorities for the New NSF SEES Program, Emphasis CO2 Sequestration.
- **2010, AAPG Student Poster Session Chair**, Chair for student poster session at AAPG Annual Meeting
- **2010, AAPG Oral Session Chair**, Reexamination of Fluvial Models
- **2009, Field Trip Leader**, Reconsidering sequence boundaries and reservoir architecture: A field and flume and source to sink look at emerging models for sequence development, Cretaceous Muddy/Dakota Group, Colorado, AAPG Annual Meeting in Denver
- **2009, Field Trip Co-leader**, Sedimentary Environments and Dinosaur tracks of the Woodbine Sandstone from Lake Grapvine, GSA South-Central Sectional Meeting, Dallas
- **2009, Co-Chair**, Siliciclastic Sedimentology and Sequence Analysis for Improved Reservoir Prediction, All-day session at AAPG Annual Meeting in Denver.
- **2009, Keynote Speaker and Discussion Moderator**, River-to-Rock SEPM Research Conference, Aberdeen, Scotland
- **2009, Chair**, Session on erosion and sediment delivery rates in tropical river systems, AAPG Hedberg Conference, Jakarta, Indonesia
- **2009, Chair**, Student poster presentations at AAPG Annual Meeting in Denver
- **2008, Field-trip Leader**, Reservoir Architecture in Modern and Ancient Fluvial Settings: Updip vs. Downdip Variability and Potential for Reservoir Connectivity, Mississippi River and Dakota Formation Outcrops, Educational trip for Woodside Petroleum, Perth
- **2008, Proposer and Co-chair of Pardee Keynote Symposia**, Perspectives on an Emerging Workforce Crisis in Geology: Assessing a Looming Irony, GSA Annual Meeting, Houston
- **2008, Convener and Organizer**, NCED, NSF, and SEPM sponsored forum, Data and model results: Opposing views of the same problem? GSA Annual Meeting, Houston
- **2008, Chair**, Recent Advances in Non-Marine, Shallow Marine and Shelf Siliciclastic Facies Models, AAPG Annual Convention, San Antonio
- **2008, Panelist**, Panel discussion on alternative energy issues for UTA Honors College
- **2008, Discussion Leader**, Presented and lead discussion on global warming issues for UTA "Great Discussions" series
- **2007, Co-leader LEBARG Research Consortium Field Trip**, Dry land river systems, Lake Eyre, Australia
- **2007, Convener and Organizer**, NCED, NSF, and SEPM sponsored forum, Geological Education: Are we properly preparing the next generation? GSA Annual Meeting, Denver
- **2006, Convener and Organizer**, NCED, NSF, and SEPM sponsored forum, Changing research funding levels, low geology graduation levels, and oil prices that just won't level: What will they mean for the future of Sedimentary Geology? GSA Annual Meeting, Philadelphia
- **2005, Convener and Organizer**, NSF-Sponsored Workshop on Environmental Stratigraphy, Invitation-only meeting at the U.M., Minneapolis NCED facility to discuss status and future research potential of Sedimentology and Stratigraphy in environmental applications
- **2005, Co-Convener**, 8<sup>th</sup> International Conference on Fluvial Sedimentology, Relative impact of tectonics, sea-level, and climate control on fluvial systems, Conveners – Ronald van Balen and [John Holbrook](#)
- **2004, Field Trip Leader**, GSA South Central Section, Neotectonic features of the New Madrid seismic zone: Leaders – [John Holbrook](#), Peggy Guccione, and David Hoffman.
- **2004, Symposia Co-Chair**, GSA South Central Section, New Madrid Zone: Seismicity, Tectonics, Paleoseismology and Tectonic Geomorphology, Conveners - [John Holbrook](#), Margaret Guccione, Buddy Schweig
- **2003, Symposia Co-Chair**, AAPG Annual Meeting, Salt Lake City, Allocyclic versus autocyclic processes in depositional systems, Conveners - Janok Bhattacharya, Brian Willis, [John Holbrook](#).
- **2002, Theme Session Chair**, GCS-SEPM Research Conference, Houston, Primary controls on sequence architecture: Appointed chairs - Grant Walch and [John Holbrook](#).
- **2001, Field Trip Leader**, 7<sup>th</sup> International Conference on Fluvial Sedimentology, Lincoln, Lower Mississippi Valley of Missouri, Kentucky, Tennessee, Arkansas, Mississippi, and Louisiana, and fluvial systems of the Texas Gulf coastal plain: Leaders - Mike Blum, Peggy Guccione, [John Holbrook](#), Andres Aslan, and Whitney Autin.
- **2001, Symposia Chair**, 7<sup>th</sup> International Conference on Fluvial Sedimentology, Lincoln, Alluvial and tectonic system interactions: Conveners - [John Holbrook](#), Anne Mather, and Martin Stokes.
- **1999, Theme Session Co-Chair**, GSA Annual Meeting, Reno, Geology and geophysics of the Lower Mississippi Valley: In memory of Roger Saucier: Conveners - Juan Lorenzo, Whitney Autin, [John Holbrook](#).
- **1996, Field Trip Leader**, GSA Annual Meeting, Denver, Sequence stratigraphy of the Dakota Group and equivalents from northcentral Colorado to northeastern New Mexico: Downdip variations in sequence anatomy: Leaders - [John Holbrook](#) and Frank Ethridge.
- **1995, Theme Session Chair**, GSA Annual Meeting, New Orleans, Recognizing the impact of subtle structures on the stratigraphic record: Conveners - [John Holbrook](#) and Pieter Berendsen.
- **1994, Field Trip Leader**, Science Teachers of Missouri Spring Conference, Cape Girardeau, Reconstructing the history of the world from the rocks in your hometown: Leader - [John Holbrook](#).

- **1992, Field Trip Leader, SEPM Mid-Year Meeting**, Ft. Collins, The Dinosaur Freeway: A preliminary report on the Cretaceous megatracksite, Dakota Group, Rocky Mountain Front Range, and High Plains, Colorado, Oklahoma, and New Mexico: Leaders - Martin Lockley, John Holbrook, and Adrian Hunt.
- **1992, Theme Session Co-chair, SEPM Mid-Year Meeting**, Ft. Collins, Biostratigraphy of Cretaceous rocks in the Western Interior: Conveners - Martin Lockley and John Holbrook.
- **1987, Field Trip Leader, New Mexico Geological Society Annual Field Conference**, Clayton, Stratigraphy of northeastern New Mexico: Leaders - S.G. Lucas, A.P. Hunt, B.S. Kues, B.S., and J.M. Holbrook.

## EDITORSHIPS AND REVIEWS

- **2008-2016-Associate Editor:** *Journal of Marine and Petroleum Geology*
- **2014-2016- Geosphere Guest Editor:** Geothermal Energy from Sedimentary Basins: Challenges, Potential, and Ways Forward: *Geosphere*, Special Issue, 70p
- I have reviewed multiple articles for journals and multiple articles for most journals I reviewed. Journals for which I did article reviews include: *Anthropocene*, *Journal of Geology*, *Tectonics*, *Journal of Sedimentary Research*, *Tectonophysics*, *Geology*, *Geomorphology*, *Sedimentology*, *SEPM Special Publications*, *Stratigraphy*, *Basin Research*, *QSR*, *Quaternary International*, *Sedimentary Geology*, *Canadian Journal of Petroleum Research*, *CSPG*, *Journal of Marine and Petroleum Geology*, *Geosphere*, *Gulf Coast SEPM Research Conference Proceedings*, *IAS Special Volume*, *Geophysical Letters*, *Proceedings of the 7<sup>th</sup> International Conference on Fluvial Sedimentology*, *Palaaios*, *Geologische Rundschau*, *GSA Bulletin*, and *Seismological Research Letters*, *Paleo*<sup>3</sup>
- I have served as a standing panel member for **NSF, PRF, and USGS** grant panels, in addition to numerous grant reviews for same.

## UNDERGRADUATE/GRADUATE STUDENT RESEARCH PROJECTS UNDER PRIMARY SUPERVISION SINCE 1993

- **Graduated 37 Masters students** (Yuzhi Cui, Jeremy Lawton, Stavena Akins, Alan Gunter, Chima Nzewunwah, Faith Amadi, Justin Bagley, Scott Stoner, April Moreno, Yaqoub Al-Refaei; Michele Kashouh, Daniel Carlin, Siavash Rastaghi, Gary Tomanka, Galen Huling, Sarah Allen, Michael Eldredge, Justin Anderson, Matt Palmer, Jonathan Ney, Alex Torres, Shea Atkins, Shelby Johnston, Rachel Gray, Robert J. Horner, Tyler Howe, Graham McGregor, Nicole Wilson, Ross Harrison, Cody Myers, Blake Warwick, Amanda Pechacek, Sean Horne, Grayson Lamb, Rodney Stieffel, Mary Grace Moran, Sam Walker) [**Presently Supervising** 8 active M.S. students]. Research expenses for all of my past and present graduate students have been funded from my endowment and external grants.
- **Graduated 4 Ph.D. students** (Ron Tingook, Neal Alexandrowicz, Mark Hull, and Yaqoub Alrefaei). Research expenses for all of my past and present graduate students have been funded from my external grants.
- **Most Graduate Students in Successful Careers Hinged upon M.S. Degree**, Students currently placed in several oil companies including: Chevron, Shell, ExxonMobil, Chesapeake, Black Mountain, Oxy, Pioneer, Apache, Finley, Denbury, and Concho; as well as university and community college faculty, government, environmental, and mining positions
- **International External Ph.D. Committee Membership**, Hebrew University, University of Oslo, Utrecht University
- **Supervised 69 undergraduates** for undergraduate research through NSF REU/USGS Missouri River Mapping Program and an additional 16 for other projects through other sources
- **Two undergraduate research projects featured on Discovery Channel** (Tammy Eifert and Philip Statler), First episode of *Discover Magazine*

### *Theses Supervised to completion*

Samuel Walker, 2020, Profiles and paleohydrology of supercritical rivers, the Triassic Dockum Group of West Texas: [M.S. Thesis] Texas Christian University, 82p.

Mary Grace Moran, 2020, Density flows and microsequences in the Nahal Darga delta, West Bank, Dead Sea: Anatomy of a lowstand wedge turned falling stage: [M.S. Thesis] Texas Christian University, 58p.

Rodney Stieffel, 2019, Evidence for an old Parana Delta and diachroneity in global highstands: [M.S. Thesis] Texas Christian University, 100p.

Grayson Lamb, 2019, An architectural analysis and depositional interpretation of the Dockum Group in the West Texas High Plains: [M.S. Thesis] Texas Christian University, 83p.

Ross Harrison, 2018, Depositional environments of Cretaceous-Paleogene coal beds and surrounding strata within the Raton Basin of Colorado and New Mexico, USA: [M.S. Thesis] Texas Christian University, 105p.

Sean Horne, 2018, Depositional modeling and interaction between lithofacies assemblages of Cretaceous-Paleogene strata of the Raton Basin: [M.S. Thesis] Texas Christian University, 89p.

Cody Myers, 2018, A source-to-sink approach to a frontier play: Application of the fulcrum method to Barents Sea feeder rivers in the Cretaceous Festningen Sandstone, Svalbard, Norway: [M.S. Thesis] Texas Christian University, 90p.

Amanda Pechacek, 2018, Sequence stratigraphy of middle to upper Pennsylvanian fill of the central Appalachian Basin: [M.S. Thesis] Texas Christian University, 121p.

Blake Warwick, 2018, Architectural and chronostratigraphic analysis of a modern point bar: Powder River, Montana, USA: [M.S. Thesis] Texas Christian University, 123p.

Nicole Wilson, 2018, Tuning bankfull flow to climate as a path to better estimates of source-to-sink mass flux: [M.S. Thesis] Texas Christian University, 182p.

Graham McGregor, 2017, Humid Terminal Splays as Sand-Sheet Reservoirs: A First Look at the Modern, Andean Foreland, and a New Look at the Ancient, Raton Basin: [M.S. Thesis] Texas Christian University, 108p.

Tyler Howe, 2017, The Evolution and Stratigraphic Architecture of Fluvio-Lacustrine Deltas: Reservoir Characteristics from the Red River Delta, Lake Texoma and the Denton Creek Delta, Grapevine Lake, Texas: [M.S. Thesis] Texas Christian University, 79p.

Yaqoub Alrefaei, 2016, Implications of Lithofacies Association and Architecture for Low and High-Accommodation System Tracts from the Barren Series of the Cretaceous-Paleocene Raton Formation, Trinidad, Colorado: [Ph.D. Dissertation] University of Texas at Arlington, 155p.

Shea Atkins, 2016, Fluvial Deposition in High Accommodation Floodplain Lakes, Pennsylvanian Appalachian Basin, Eastern Kentucky: [M.S. Thesis] Texas Christian University, 68p.

Rachel E. Gray, 2016, Marine Influence in the Depositional Environments of the Paluxy Formation (Carr Member), Eastern Talco Field, Franklin and Titus Counties, Texas [M.S. Thesis] Texas Christian University, 81p.

Robert J. Horner, 2016, Facies Characterization and Architectural Context of Terminal Splay Sandstone beds in the Cretaceous-Paleocene Raton Formation, Colorado: [M.S. Thesis] Texas Christian University, 110p.

Mark Hull, 2016, A Modern Reservoir Analog for a Poorly Drained "High-Accommodation" Fluvial System: Sedimentary Processes, Architecture, and Reservoir Connectivity of the Grijalva System, Tabasco State, Mexico: [Ph.D. Dissertation] University of Texas at Arlington, 138p.

Shelby Johnston, 2016, Toggling Between Expansion and Translation and the Generation of a Muddy-Normal Point Bar: [M.S. Thesis] Texas Christian University, 85p.

Alexander Torres, 2016, 3D Modeling of Accretionary Bodies on a Late Cretaceous Point Bar in Dinosaur Provincial Park, Alberta, Canada using Architectural-Element Analysis: [M.S. Thesis] Texas Christian University, 135p.

Neal Alexandrowicz, 2015, Predicting Variability of Basal Scour and Quantifying Vertical Connectivity for Channel-Belt Reservoirs using Observations from the Holocene Mississippi River and Channel-Belt: [Ph.D. Dissertation] University of Texas at Arlington, 90p.

Justin Anderson, 2015, History of the Missouri River Valley from the Late Pleistocene to Present: Climatic vs. Tectonic Forcing on Valley Architecture: [M.S. Thesis] Texas Christian University, 70p.

Jonathan Ney, 2015, Testing the Distributary Channel Model Against Predicted Changes in Fluvial Reservoir Geometry during Transitions from Low to High Accommodation Settings: Upper Pennsylvanian of the Central Appalachian Basin: [M.S. Thesis] Texas Christian University, 75p.

Matt Palmer, 2015, A High-Resolution 3-D Architecture of a Cretaceous Point Bar using Terrestrial Laser Scanning of Multiple Exposures: A Far more Complex Model of Bar Growth at the Scale of a Steam Chamber than Previously Thought: [M.S. Thesis] Texas Christian University, 84p.

Sarah Allen, 2014, Reverse Meanders, Pseudo Point Bars, and the Enigma of Meandering in Braided Rivers: M.S. Thesis, Texas Christian University, 28p.

Galen Huling, 2014, Evidence for Clustering of Delta-Lobe Reservoirs within Fluvio-Lacustrine Systems, Jurassic Kayenta Formation, Utah: M.S. Thesis, Texas Christian University, 75p.

Michael Eldredge, 2014, Oolitic Shoaling of the Salem Limestone in Ste. Genevieve County, Missouri: M.S. Thesis, Texas Christian University, 117p.

Gary Tomanka, 2013, Morphology, Mechanisms, and Processes for the Formation of a Non-Bifurcating Fluvial-Deltaic

Channel Prograding into Grapevine Reservoir, Texas: M.S. University of Texas at Arlington

Ron Tingook, 2012, Numerical Simulation of the Base-Level Buffers and Buttresses Conceptual Model of Fluvial Systems: [Ph.D. Dissertation] University of Texas at Arlington, TX, 109p.

Michele Kashouh, 2012, A Late Holocene Meander-Braid Transition of the Lower Missouri River Valley: [Masters Thesis] University of Texas at Arlington, TX, 88p.

Carlin, Daniel E., 2011, Morphology of the lower Missouri River: the processes involving development of highly sinuous gooseneck loop cutoffs exposed in the surficial deposits of the river floodplain: [Masters Thesis] University of Texas at Arlington, TX, 163p.

Rastaghi, Siavash, 2011, The impact of buffer zone changes on architecture of the Paleozoic Lower Cutler Beds of Utah: [Masters Thesis] University of Texas at Arlington, TX, 48p.

Yaqoub, Al-Refaei, 2011, Correlation of sequence stratigraphic surfaces of the mid-Cretaceous Dakota Group from subsurface to outcrop, Southern Denver Basin, Colorado. [Masters Thesis] University of Texas at Arlington, TX, 57p.

April Moreno (2010) Leading the James: The morphological changes of the Missouri River and the subservient James River: [Masters Thesis] University of Texas at Arlington, Arlington, TX, 264p.

Scott Stoner (2010) Channel dimensions and reservoir architecture of the Triassic Mungaroo Fm of the Australian Northwest Shelf: [Masters Thesis] University of Texas at Arlington, Arlington, TX, 173p.

Justin Bagley, (2009), Sedimentology, Ichnology, Depositional Environment Interpretation, and Reservoir Characterization of the Cotton Valley Formation Sandstone: [Masters Thesis] University of Texas at Arlington, Arlington, TX, 131p.

Alan Gunter, (2004), Ichnofossil evidence of a Mowry Boreal/Tethyan connection across the Transcontinental Arch of the Western Interior seaway: [Masters Thesis] Southeast Missouri State University, Cape Girardeau, MO, 96p.

Faith Amadi (2004) Investigation of emerging patterns in Missouri Valley Holocene fill: [Masters Thesis] Southeast Missouri State University, Cape Girardeau, MO, 152p.

Tanksley, Nichole, (2004), Holocene development of the Missouri River in the Miami Station area: A first look: [Senior Thesis] Southeast Missouri State University, Cape Girardeau, MO.

Nzewunwah, Chima, (2003), A pilot study of the Quaternary alluvial fill of the Missouri River Valley between Kansas City and Miami Station Missouri: [Masters Thesis] Southeast Missouri State University, Cape Girardeau, MO.

Akins, Stavena, 2003, Chemofacies of the Dry Creek Canyon Formation: Evidence for a previously theorized Tethyan/Boreal connection: [Masters Thesis] Southeast Missouri State University, Cape Girardeau, MO.

Teeters, Sam, 2001, Sedimentary constraints on the epicentral location and degree of deformation for the New Madrid 12/16/1811 dawn earthquake, and the role of splays in tectonically driven floodplain aggradation: [Senior Thesis], Southeast Missouri State University, Cape Girardeau, MO., 25p.

Kirkwood, Susan, 1999, Relationship between soil stratigraphy and liquefaction potential: [Senior Thesis] Southeast Missouri State University, Cape Girardeau, MO., 16p.

Lawton, Jeremy, 1998, High-Resolution synthetic well-log correlation of the Mississippi Valley Holocene mud veneer: A new tool for assessing detailed floodplain history: [Masters Thesis] Southeast Missouri State University, Cape Girardeau, MO., 78p.

Stevenson, Eric, 1998, Development of reliable techniques for interpretation of LandSat images to aid in mapping of Holocene Mississippi River meander belts and related sediments: [Senior Thesis] Southeast Missouri State University, Cape Girardeau, 22p.

Cui, Yuzhi, 1997, Architectural-element analysis as a tool for modeling the Dakota Sandstone in central Kansas: [Masters Thesis] Southeast Missouri State University, Cape Girardeau, MO., 92p.

Eifert, Tammy, 1996, Some unusually large, complex, and well-preserved chertified burrow structures in Mississippian strata of Mammoth Cave National Park: The case for preservation of original burrow size: [Senior Thesis] Southeast Missouri State University, Cape Girardeau, MO., 23p.

White, David, 1994, Preserved perturbation of Albian channel sinuosity resulting from Sierra Grande basement uplift: [Senior Thesis] Southeast Missouri State University, Cape Girardeau, MO., 23p.

## LOCATIONS OF FIELD EXPERIENCE

### *Teaching Activities*

- **2019-Present, Western Australia**, Modern processes of dryland deltas
- **2010 St. Petersburg, Russia**, Sequence Stratigraphy of Ordovician strata
- **2005-2015, Central New Mexico**, Projects associated with Field Camp
- **2004-Present, Texas, Colorado, and Arkansas**, Field trips associated with graduate and undergraduate Sedimentology and Stratigraphy courses
- **1999-Present, Missouri and Mississippi River Valleys**, Field projects associated with Sedimentation and Stratigraphy courses and EDMAP and NSF REU
- **2007-Present, Southeastern Colorado**, Field teaching of stratigraphic concepts
- **2007-St Petersburg Russia**, Teaching one week graduate short course in Sequence Stratigraphy
- **1994-2004, Southwest Utah area**, Site of field camp (See Courses Taught section above)
- **1994-2004, Rocky Mt. Front Range and Central Kansas**, Structure and stratigraphy; Regional field trip and Field Camp
- **1992-2004, Southern Missouri Ozark area**, Petrology and mining geology, structural mapping, volcanic and intrusive rocks, stratigraphy and sedimentology; Regular part of various current classes
- **1992-2004, Eastern and central Kentucky**, Pennsylvanian through Ordovician sequence stratigraphy and depositional environments; Regular part of Sedimentation and Stratigraphy course
- **1992-2004, Mississippi embayment**, Field techniques in modern sedimentary environments and Quaternary; Regular part of several current courses, regional field trips
- **1992-2004, Southern Illinois**, Stratigraphy; Advanced stratigraphy course
- **1998, Southern Nigeria**, Structure and Sedimentology and Field Mapping courses during tenure as visiting professor
- **1998, Florida Keys**, Carbonate geology; Regional field trip
- **1994 - 1995, Gulf Shores and New Orleans**, Coastal processes and urban geology; Regional field trip
- **1993, Four Corners area**, Stratigraphy, structure, and volcanic processes; Regional field trip
- **1989 - 1990, Cumberland Gap**, Structural geology; Structural lab field trip
- **1988 - 1992, Southern Indiana**, Stratigraphy and Sedimentology course field area
- **1986 - 1988, Northern New Mexico and environs**, Stratigraphy and Sedimentology; Series of advanced sedimentary lab projects

### *Active Research*

- **Present (Since 2021) Spain**, Paleogene strata of the Pyrenes
- **Present (since 2019) Western Australia**, Dryland deltas of the western coast of Australia
- **Present (since 2018) West Texas**, Triassic Dockum Group of the West Texas High Plains
- **Present (since 2018) Dead Sea**, Delta development of the western shore of the Dead Sea
- **Present (since 2015) Svalbard Norway**, Fluvial architecture and source-to-sink study of Cretaceous fluvial section
- **Present (since 2015) Argentina**, Study of terminal splays of Andean foreland, Salta, and Parana Delta, La Plata area
- **Present (since 1996), Mississippi and Missouri river alluvial valleys**, Several projects related to the Mississippi and Missouri river sediments, their origin and controls, with particular emphasis placed on tectonic and climatic controls
- **Present (since 1986), U.S. Western Interior**, Several projects related to Cretaceous and Tertiary stratigraphy with emphasis on the Lower Cretaceous and Paleocene
- **2014-2016 Powder River**, Montana, Modern point bar processes
- **2009-2020 Dinosaur Proventil Park, Alberta**, Architecture of river point bars in Cretaceous section
- **2012-2-14 Kentucky**, Fluvial architecture and sequence stratigraphy of Pennsylvanian section
- **2004-2012 Australia**, Petroleum production from the northwest shelf offshore deposits of the Triassic; modern dry-land rivers of the Lake Eyre Outback region, Carpentaria bay Mitchel River
- **2008-2012 Mexico**, Modern rivers of Tabasco State
- **2012-2014, Utah**, Jurassic Kayenta Formation
- **2009-2012) Siberia**, Sequence Stratigraphy of the Siberian Suture
- **2009, Egypt**, Fluvial Stratigraphy of the Baharaya Oasis
- **2002-2006, Rhine/Maas delta, The Netherlands**, Project on Holocene surficial sedimentary processes addressing compaction-related and isostatic differential subsidence and its effects on Rhine and Maas distributary channel processes,
- **1998, Nigeria**, Upper Cretaceous rocks of the Anambra Basin, and alluvium of the Niger River
- **1994 - 1996, Southern Illinois**, Pennsylvanian strata of the Illinois Basin
- **1994 - 1996, Mammoth Cave National Park**, Unusually large Mississippian chertified burrows
- **1992 - 1981, Cave exploration and mapping** projects in eastern, central, and western Kentucky, New Mexico, and Indiana
- **1991, Tadjikistan**, Research Consultant, mapping structures and sediment distribution in the Tadjik Depression, and Tien Shan, Peter I, and Pamier mountains

- **1989, Northern Indiana**, Coastal processes in the Indiana Dunes area
- **1987, Yellowstone National Park area**, Assisted in mapping of volcanic deposits in the Absaroka Range

#### **ADMINISTRATIVE AND/OR MAJOR COMMITTEE ACTIVITIES**

- **Fall 2020, Sabbatical**
- **2018 - Present, Chair of Department Advisory Committee**, Dept. of Geological Sciences, Texas Christian University
- **2018, Hydrologist Search Committee**, Texas Christian University
- **2015-2018, GSA Academic and Applied Geoscience Relations Committee**, Member and 2017 Chair
- **2014-2017, GSA Publications Committee**, 2017 Chair, GSA Editorial Board for all Journals.
- **2015-2017, STEPPE Advisory Board**, Appointed as member of advisory body to STEPPE, a NSF network to promote and assist research into the sedimentary carpus
- **2015-2016, Hunter-Enis Chair**, search committee
- **2014-2015, GSA Ad Hoc Nominations Committee**, Executive committee to redesign nominations process
- **2014-2016, Chair, GSA Audit Committee**, Oversee the audit of the books for Geological Society of America
- **2013-2014, Sedimentology Search Committee**, TCU
- **2011-2015, Geological Society of America Council**, Elected by the full membership of GSA; Councilor to Divisions, Chair of Audit Committee
- **2010-2016, PRF Advisory Committee**, Panel reviewing and recommend proposals for funding and general input to process for American Chemical Society Petroleum Research Fund.
- **2010-2012, Chair, Academic Liaisons Committee**: AAPG Committee to Link academic issues with Petroleum Industry.
- **2012-2013, GSA, Ad Hoc Committee on Hydrofracking**, GSA Committee to review research official statement on Hydrofracking.
- **2012-2013, AGI, Ad Hoc Committee on Program Classification**, Representative from AAPG.
- **2011-2012-Co-Chair**, Ph.D. program proposal committee, TCU
- **2011-2012-Chair**, Search committee for Sedimentary Geology Position, TCU Geology Department
- **2008-2010-Mentor**, University Faculty Mentors program
- **2010-Co-Chair**, Search committee for Earth Systems position, EES Department
- **2008-Co-Chair**, Search committee for Earth Systems position, EES Department
- **2008-Co-Chair**, Search committee for Hydrogeology position, EES Department
- **2008-2010, Member**, UTA Graduate departmental review committee (Review of English Program)
- **2006-2009, Graduate Advisor**, Environmental and Earth Science Program, UTA
- **2006-2011, Graduate Advisor**, Geology Program, UTA
- **2007, Chair**, Search for Earth Systems History and Hydrology positions, UTA
- **2006-Present, Graduate Assembly**, UTA
- **2006, Search Committee**, Environmental Health, EES Department, UTA
- **2005, Tech Session Coordinator**, Prepared and managed the Tech Session for the Earth and Environmental Sciences Department for Fall 2005
- **2004-2005, Science Olympiad Committee**, Designed programs in association with the Science Olympiad
- **2003 - 2004, College Tenure and Promotion Committee**, Approve departmental Tenure and Promotion Plans, and review individual tenure and promotion documents
- **2002 - 2004, College Honors Committee**, Review and offer recommendations for faculty superlatives and other college-level honors and awards.
- **2002 - Present, Museum Design Committee**, Advise and aide in design of Earth-science component of the new regional Museum
- **2000 - Present, Department Curriculum Committee**, Oversee major adjustments to the department curricula and course rotation
- **2000 - Present, Department Tenure and Promotion Committee**, Revised departmental criteria and evaluated two sets of promotion materials, one for tenure and one for promotion to Full Professor
- **1999 - Present, Environmental Sciences Faculty**, Standing member of multi-departmental faculty for Environmental Sciences, with full faculty duties and privileges thereof
- **1999 - Present, College Beautification Committee**, Approve major modifications to college façade
- **1998 & Present, College Honors Committee**, Approve honors courses, and oversee other activities of the Honors Program; evaluate candidates for all college-level faculty awards and superlatives
- **1998, College Council**, Approved all major changes to curricular structure for all departments in the college
- **1998, College of Science and Technology Strategic Planning Committee**, Department representative for restructuring of College strategic plan
- **1997, Geophysicist Search Committee**, Reviewed candidates for the Departmental Geophysics position
- **1997, Present, Step Program Advisory Committee**, Participate in planning and execution of university orientation program
- **1996 & 1998, Geomorphologist Search Committee**, Reviewed candidates for the Departmental Geomorphology position

- **1996 - 2001, Scholarship Committee, College of Science and Technology**, Reviewed all student applications for college-level scholarships
- **1996, Department representative on College of Science and Technology Dean's Search Committee**, Reviewed candidates for the College Dean position
- **1996 - 1997, PM Taskforce Committee**, Participated in design of University evening class offerings
- **1996 - 1999, Member, College of Science and Technology Professional Development Committee**, Reviewed proposals for award of College-level travel funds for faculty presentations
- **1994 - 1995, Chairman, College of Science and Technology Professional Development Committee**, Led major reform of committee granting procedures
- **1994, University Grants Advisory Committee**, Advise the grants office of faculty needs
- **1993 - 1994, Chair, Department of Geosciences Colloquia Committee**, Solicited and arranged presentations by visiting speakers
- **1992 - 1994, Department of Geosciences Graduate Committee**, Coordinated graduate curricula to coincide with college guidelines and departmental resources, evaluated maximum number of graduate courses which could be offered by the Department of Geosciences based on available resources
- **1992 - 1994, College of Science and Technology Masters of Natural Science Development Committee**, Oversaw efforts to expand the college graduate program
- **1992 - Present, Faculty Advisor for the University Grotto Club**, Serve as faculty mentor to the university caving organization
- **1992 - 1994, Department of Geosciences Merit Committee**, Evaluated faculty proposals for merit-pay increases
- **1993 - 1998, Director of Early Research Apprenticeship Program (ERA)**, Developed and introduced the Early Research Apprenticeship (a program for promoting undergraduate research within the Department of Geosciences)
- **1993, Designed complete display layout for the Department of Geosciences**

## MAJOR EDUCATIONAL INITIATIVES

- **2019-Present, The Deltas of Western Australia**, Agreement with University of Western Australia for joint work on field research project involving undergraduate students in deltas along western Australian coastline
- **2012, TCU Ph.D. Proposal**, Wrote vision statement for Ph.D. in Energy and Environment at Texas Christian University and submitted to administration.
- **2010-Present, Write Club**, Initiated a technical writing course specifically designed to help M.S. and Ph.D. student complete the writing required for their degree. The course specifically teaches techniques for paper and proposal preparation, oral presentation, and literature review in the geosciences.
- **2009-Present, AAPG Shortcourses**, Developed two shortcourses (Fluvial Stratigraphy, and Fundamentals of Sequence Stratigraphy) for the AAPG Education Series and teach these for AAPG and other groups regularly
- **2007-2011, NSF REU Big Muddy Expedition**, Established funded field program to teach research concepts to students through a research mapping project in the northern lower Missouri River floodplain
- **2006, Distance learning** established for Sedimentology and Stratigraphy core undergraduate course between UTA and UTD Geology programs
- **2002-2004, University Museum**, Participating in the design for the planned new regional museum that will serve the university and southeast Missouri community, and will be built on the new River Campus. I am taking the lead role in advising and lobbying for the Earth-science component to insure geoscience educational outreach to the region. I also proposed the finalized theme for the museum, "The Crossroads," around which all geological, archeological, historical, and other cultural exhibits will be designed.
- **2000 - 2014, EDMAP**, Began integrating the USGS EDMAP Program as a funding source for undergraduate students conducting field research. Have funded four undergraduate and one graduate student to date.
- **1998 - 2004, Nigerian Student Feeder**, Established feeder program of Nigerian graduate students during tenure as visiting professor at Enugu State University. This involved establishing a selection process at two Nigerian schools, and discussions with the Visa Chief in person at the American Embassy in Lagos. The program has provided three graduate students to date.
- **1995 - 1996, Student Field Excursions**, Established cooperative outreach program with surrounding high schools to provide a series of local geology field trips for high school students interested in the Geosciences. Added four majors to department.
- **1993, Established Undergraduate Research Initiative**, Established the Early Research Apprenticeship (ERA) in the Department of Geosciences. This initiated our current emphasis on engaging students in voluntary undergraduate research. Where undergraduate research was previously rare in the department, now all students do some undergraduate research, and approximately 20% complete a Senior Thesis for Graduation with Distinction. The structure and early results of the program are published in Holbrook, et al., 1994.
- **1992 - 1994, Chairman, Department of Geosciences "Ad Hoc" Curricula Committee**, Led major reform to add substantial rigor and pertinence to the Geoscience undergraduate curriculum in order to better conform to the AGU and AIPG recommendations.

## PROFESSIONAL MEMBERSHIPS

- Society for Sedimentary Geology (SEPM), Geological Society of America (GSA); American Association of Petroleum Geologists (AAPG); American Geothermal Society
- Registered Professional Geologist, State of Missouri

#### GRANTS IN PAST NINETEEN YEARS

<u>Year</u>	<u>Granting Agency and Title</u>	<u>Amount Granted</u>
<b>2020-2023</b>	<b>Pioneer Petroleum</b> Graduate program improvement grant <b>John Holbrook (Lead Arbitrator)</b>	<b>\$150,000</b>
<b>2019</b>	<b>Fluvial Research Group</b> Consortia support as Principle in the Fluvial Research Group <b>John Holbrook</b>	<b>\$12,000</b>
<b>2018</b>	<b>Fluvial Research Group</b> Consortia support as Principle in the Fluvial Research Group <b>John Holbrook</b>	<b>\$12,000</b>
<b>2017</b>	<b>Fluvial Research Group</b> Consortia support as Principle in the Fluvial Research Group <b>John Holbrook</b>	<b>\$12,000</b>
<b>2017</b>	<b>Fluvial Research Group</b> Consortia support as Principle in the Fluvial Research Group <b>John Holbrook</b>	<b>\$10,000</b>
<b>2016</b>	<b>Fluvial Research Group</b> Consortia support as Principle in the Fluvial Research Group <b>John Holbrook</b>	<b>\$30,000</b>
<b>2016-2019</b>	<b>Pioneer Petroleum</b> Graduate program improvement grant <b>John Holbrook (Lead Arbitrator)</b>	<b>\$150,000</b>
<b>2015</b>	<b>Fluvial Research Group</b> Consortia support as Principle in the Fluvial Research Group <b>John Holbrook</b>	<b>\$30,000</b>
<b>2015-2018</b>	<b>Pioneer Petroleum</b> Origin of Thin Fluvial Sand Beds in the Raton Formation and Development of the Thin-Bed Fluvial Play <b>Author: John Holbrook</b>	<b>\$75,000</b>
<b>2015</b>	<b>Fluvial Research Group</b> Consortia support as Principle in the Fluvial Research Group <b>John Holbrook</b>	<b>\$30,000</b>
<b>2014</b>	<b>Fluvial Research Group</b> Consortia support as Principle in the Fluvial Research Group <b>John Holbrook</b>	<b>\$20,000</b>
<b>2013-2014</b>	<b>USGS EDMAP Program</b> Isolating the Platte and the Kansas: Tributary Impact on Pattern Changes and Downstream Coupling in the Holocene Missouri River in the Corning to Big Lake Reach <b>Author: John Holbrook</b>	<b>\$18,573</b>
<b>2012-2015</b>	<b>Woodside Petroleum</b> Connectivity in high-accommodation fluvial strata <b>Author: John Holbrook</b>	<b>\$80,000</b>
<b>2013</b>	<b>Fluvial Research Group</b> Consortia support as Principle in the Fluvial Research Group	<b>\$20,000</b>
<b>2012-2013</b>	<b>USGS EDMAP Program</b>	<b>\$30,975</b>

Isolating the Platte and the Kansas: Tributary Impact on Pattern Changes and Downstream Coupling in the Holocene Missouri River  
**Author: John Holbrook**

**2012**                      **National Science Foundation**                      **\$500,000**  
RCN: SedHeat - Building an Interdisciplinary Community to Meet the Science, Engineering, and Educational Challenges for Sustainable Geothermal Energy from Sedimentary Basins  
**Authors: John Holbrook, Walter Snyder, Joseph Moore, Derek Ellsworth, Herbert Einstein**

**2012**                      **Fluvial Research Group Consortia**                      **\$20,000**  
Constraining connectivity in high-accommodation Fluvial Strata  
**Author: John Holbrook (Share as principle of Research Consortia centered at Leeds England)**

**2011-2012**                      **USGS EDMAP Program**                      **\$30,975**  
Isolating the Platte and the Kansas: Tributary Impact on Pattern Changes and Downstream Coupling in the Holocene Missouri River  
**Author: John Holbrook**

**2011**                      **National Science Foundation**                      **\$150,800**  
Tracking an Energy Elephant: Science and Engineering Challenges for Unlocking the Geothermal Potential of Sedimentary Basins  
**Authors: John Holbrook, Walter Snyder, Joseph Moore, Charles Fairhurst, Herbert Einstein**

**2011-2012**                      **Texas Water Development Board**                      **\$100,000**  
Predictive Modeling of Brazos River downstream of Allens Creek  
**Authors: John Mcenery and John Holbrook**

**2011**                      **National Science Foundation**                      **\$70,000**  
Natural and Engineered Carbon Sequestration  
**Authors: Brad Sageman, Stephen Meyers, John Holbrook and Catherine Petters**

**2010-2013**                      **Woodside Petroleum**                      **\$135,000**  
Proposed Connectivity Potential between Reservoir Sandstone in High-Accommodation Fluvial Sections: a Test using Modern Analogs  
**Author: John Holbrook**

**2010-2011**                      **USGS EDMAP Program**                      **\$17,704**  
Rates, Processes, and Implications of Big Changes in the Pattern of the Missouri River: The Sioux City to Decatur leg  
**Author: John Holbrook**

**2010-2015**                      **National Science Foundation**                      **\$600,000**  
Advanced Undergraduate to Geo-environmental Master's for Engaged Needs-based Talented Students (AUGMENTS) Scholarships Program.  
**Authors: Andrew Hunt, John Wickham, John Holbrook, Phil Cohen, and Raymond Jackson**

**2009-2010**                      **USGS EDMAP Program**                      **\$14,293**  
Rates, Processes, and Implications of Big Changes in the Pattern of the Missouri River: A coordination of an EDMAP and an NSF-REU project  
**Author: John Holbrook**

**2009**                      **Woodside Petroleum**                      **\$30,000**  
Reservoir architecture of Triassic fluvial strata in the Rankin Trend, NW Self, Australia (Supplement)  
**Author: John Holbrook**

**2008-2009**                      **USGS EDMAP Program**                      **\$27,191**  
Rates, Processes, and Implications of Big Changes in the Pattern of the Missouri River  
**Author: John Holbrook**

**2007-2011**                      **National Science Foundation**                      **\$342,000**  
REU Site: Rates, processes, and implications of big changes in the shape and style of the Missouri River  
**Authors: John Holbrook and Ron Goble**

**2007-2008**                      **USGS EDMAP Program**                      **\$25,000**  
Comparing Bedrock vs. Alluvial Control on Holocene Missouri River Morphology  
**Author: John Holbrook**

**2006-2009**                      **Woodside Petroleum**                      **\$105,000**  
Reservoir architecture of Triassic fluvial strata in the Rankin Trend, NW Self, Australia

**Author: John Holbrook**

<b>2006</b>	<b>University of Texas Arlington and University of Texas at Dallas</b>	<b>\$17,455</b>
Toward forensic reconstruction of hydrology for recent rivers: Refining methodology for constraint of paleochannel dimensions		
<b>Authors: John Holbrook (UTA) and John Ferguson (UTD)</b>		
<b>2005</b>	<b>Goodman and Associates</b>	<b>\$2023</b>
Assessment of developing stream conditions and eventual stable slope for the stream transecting Warmington meadows		
<b>Author: John Holbrook</b>		
<b>2006-2007</b>	<b>USGS EDMAP Program</b>	<b>\$29,343</b>
Unraveling Holocene bedrock modification of alluvial channel morphology in the Lower Missouri River Valley		
<b>Author: John Holbrook</b>		
<b>2005-2006</b>	<b>USGS EDMAP Program</b>	<b>\$33,000</b>
Testing Preliminary Evidence for High Missouri-River Sensitivity to Late Holocene Climatic Shifts		
<b>Author: John Holbrook</b>		
<b>2003-2004</b>	<b>USGS EDMAP Program</b>	<b>\$32,500</b>
Investigation of Emerging Patterns in Missouri Valley Holocene Fill		
<b>Author: John Holbrook</b>		
<b>2002-2003</b>	<b>USGS EDMAP Program</b>	<b>\$15,163</b>
A pilot study of the Missouri Valley alluvial fill		
<b>Author: John Holbrook</b>		
<b>2002-2003</b>	<b>Southeast Grants and Research Funding Committee</b>	<b>\$4,830</b>
Compactive Control on fluvial architecture in the Rhine-Maas Delta: A LAB Model calibration		
<b>Author: John Holbrook</b>		
<b>2000-2003</b>	<b>National Science Foundation</b>	<b>\$166,000</b>
Collaborative Research: Did the Albion/Cenomanian Mowry transgressive/regressive cycle connect the Tethyan and Boreal seas?		
<b>Authors: John Holbrook (PD), Bob Scott (PI) Francisca Oboh (PI), Lisa Pratt (PI)</b>		
<b>2000-2001</b>	<b>USGS EDMAP Program</b>	<b>\$11,250</b>
Geologic mapping of the Caruthersville splay and environs: Investigation of a newly identified site of potentially high seismic risk		
<b>Author: John Holbrook</b>		
<b>1997-1998</b>	<b>American Chemical Society, (PRF)</b>	<b>\$5,000</b>
An investigation for evidence and criteria indicating impact on the sedimentary record by subtle tectonics: Examination of the Lake County uplift		
<b>Author: John Holbrook</b>		
<b>1997-1998</b>	<b>NASA</b>	<b>\$8,000</b>
Request for two LandSat images for research on the Missouri Bootheel region		
<b>Author: John Holbrook</b>		
<b>1998</b>	<b>Soil Conservation Service</b>	<b>\$25,000</b>
Acquisition of Gidding's probe truck for surficial mapping in the Missouri Bootheel region		
<b>Authors: John Holbrook and Michael Aide</b>		
<b>1997-1998</b>	<b>Southeast Grants and Research Funding Committee</b>	<b>\$5,000</b>
An investigation for evidence and criteria indicating impact on the sedimentary record by subtle tectonics		
<b>Author: John Holbrook</b>		
<b>1996-1997</b>	<b>Southeast Missouri State University (FFR)</b>	<b>\$3,852</b>
Fostering Geoscience education and awareness at the senior high level		
<b>Author: John Holbrook</b>		
<b>1996-1998</b>	<b>Petroleum Research Fund of the ACS</b>	<b>\$25,000</b>

An investigation for evidence and criteria indicating impact on the sedimentary record by subtle tectonics: Examination of the Lake County uplift

**Author: John Holbrook**

**1994-1995                      Kansas Geological Survey                      \$13,000**

Mathematical modeling and computer simulation of the Dakota aquifer in Hodgeman County Kansas: A high-resolution aquifer model based on fluvial architectural-element analysis and geometric principles

**Authors: John Holbrook and Tim Ray**

**1993-1994                      Southeast Grants and Research Funding Committee                      \$2,143**

Paleontology of uniquely preserved large burrow structures in Mammoth Cave National Park

**Author: John Holbrook**

**1992-1994                      Petroleum Research Fund of the American Chemical Society                      \$20,000**

Evaluative analysis of genetic interrelationships between sequence-boundary morphology and internal architecture of overlying fluvially dominated strata

**Author: John M. Holbrook**

**1992-1993                      Southeast Grants and Research Funding Committee                      \$2,630**

Depositional history and sequence-stratigraphic analysis of Lower Cretaceous strata in the southern High Plains region of the United States

**Author: John Holbrook**

## **PUBLICATIONS**

### ***Books and Monographs***

Holbrook, J., 2016, Recognizing sequence boundaries and other key sequence-stratigraphic surfaces in siliciclastic rocks, in Carpenter, M.B., Keane, C.M., and Canter, K., (eds.) The Geoscience Handbook 2016, AGI Data Sheets, Fifth Edition, p.138-144.

Holbrook, J.M., (2006), Sequence Boundaries and other sequence stratigraphic surfaces: AGI Geosciences Handbook, section 8.5.

Holbrook, J.M., Kliem, G., Nzewunwah, C., Jobe, Z., and Goble, R., (2006), Surficial alluvium and topography of the Overton Bottoms North Unit, Big Muddy National Fish and Wildlife Refuge in the Missouri River Valley and its potential influence on environmental management, *in*, Jacobson, R.B., ed., Science to Support Adaptive Habitat Management, Overton Bottoms North Unit, Big Muddy Fish and Wildlife Refuge, Missouri: U.S. Geological Survey Scientific Investigations Report 2006-5086, p. 19-29.

Schumm, S.A., Dumont, J.F., and Holbrook, J.M., (2000), Active Tectonics and Alluvial Rivers: Cambridge University Press, 276p.

### ***Articles and Papers in Refereed Journals and Other Refereed Publications***

Moran, M.G., Holbrook, J., Lensky, N.G., Ben Moshe, L., Mor, Z., Eyal, H., Enzel, Y., (in review) Century-scale sequences and density-flow deltas of the late Holocene and modern Dead Sea coast, Israel: Sedimentology

Walker, S. and Holbrook, J., (in revision) Architecture, vertical profiles, and paleohydrology of upper-flow-regime channels, the Triassic Dockum Group of the Palo Duro Canyon, Texas: Sedimentology.

Rubio Cisneros, I.I., Holbrook, J., 2021, Fluvial interpretation of stratigraphic surfaces across Upper Triassic to Lower-Middle Jurassic continental red beds northeastern Mexico: Journal of South American Earth Sciences, 103366.

Miall, A., Holbrook, J., Bhattacharya, J., 2021, The Stratigraphy Machine: Journal of Sedimentary Research, v.91, no.6, p.595-610.

Anderson, J., Holbrook, J., Goble, R.J., (Accepted in press) The ups and downs of the Missouri River from Pleistocene to present: Impact of climatic change and forebulge migration on river profiles, river course, and valley-fill complexity: Geological Society of America Bulletin, v.133, no.11-12, p.2661-2683.

Holbrook, J.M. and Allen, S.D., 2021, The case of the braided river that meandered: Bar assemblages as a mechanism for meandering along the pervasively braided Missouri River, USA: Geological Society of America Bulletin, v133, no.7-8, p.1505-1530.

Van Yperen, A., Holbrook, J., Poyatos-More, M., Myers, C., Midtkandal, I., 2021, Low-accommodation and backwater effects on sequence stratigraphic surfaces and depositional architecture of fluvio-deltaic settings (Cretaceous Mesa Rica Sandstone, Dakota Group, USA: Basin Research, v.33, no.1, 513-543.

Durkin, P., Hubbard, S.M., Holbrook, J.M., Weleschuk, Z., Nesbit, P., Hugenholtz, C., Lyons, T., Smith, D., 2020, Counter-point-bar deposit recognition: the product of concave-bank sedimentary processes in fluvial meander belts: *Sedimentology* v.67, p.2819–2849.

Van Yperen, Poyatos-More, M., Holbrook, J., Midtkandal, I., 2020, Internal Mouth bar variability and preservation of interflood beds in low-accommodation proximal deltaic settings (Cretaceous Dakota Group, New Mexico, USA: *The Depositional Record*, v.6, i.2, p.431-458.

Holbrook, J.M., Miall, A., 2020, Time in the rock: A field guide to preservation of time and process from siliciclastic stratigraphy: *Earth Science Reviews*, v.203, 103121.

Blowick, A., Houghton, P., Tyrrell, S., Holbrook, J., Chew, D., and Shannon, P., 2019, All mixed up: Pb isotopic constraints on the transit of sands through the Mississippi-Missouri drainage basin: *Geological Society of America Bulletin*, v.131, no.9-10, p.1501-1518.

Van Yperen, A.E., Holbrook, J., Poyatos-More, M., Midtkandal, I., 2019, Coalesced delta front sheet-like sandstone from highly avulsive distributary channels: The low-accommodation Mesa Rica Sandstone (Dakota Group, New Mexico, USA): *Journal of Sedimentary Research*, v.89, p.1-27.

Van Yperen, A.E., Line, L.H., Holbrook, J.M., Poyatos-More, M., Midtkandal, I., 2019, Revised Stratigraphic Relationships of the Dakota Group in the Tucumcari Basin, San Miguel County, New Mexico, USA, *New Mexico Geological Society Guidebook 70<sup>th</sup> Field Conference, Geology of the Raton-Clayton Area*, p.1-12.

Scott, R.W., Oboh-Ikuenobe, F.E., Benson, D.G., Jr., Holbrook, J., Alnahwi, A., 2018, Cenomanian-Turonian flooding Cycles: U.S. Gulf Coast and Western Interior: *Cretaceous Research*, v.89, p. 191-210.

Johnston, S.L. and Holbrook, J.M., 2018, Toggling between expansion and translation; The generation of a muddy normal point bar with a large earthquake imprint, *in* Ghinassi, M., Colombero, L., Mountney, N.P., and Reesink, A.J.H. (eds.) *Fluvial Meanders and their Sedimentary Products in the Rock Record: IAS Special Publication 48*, p.47-80.

Durkin, P.R., Hubbard, S.M., Holbrook, J.M., And Boyd, R., 2017, Evolution of fluvial meander-belt deposits and implications for the completeness of the stratigraphic record: *Geological Society of America, Bulletin*, v.130, no.5/6, p.721-739.

Bhattacharya, J.P., Copeland, P., Lawton, T.F., Holbrook, J., 2016, Estimation of source area, paleo-discharge, paleoslope, and sediment budgets of linked deep-time depositional systems and implications for hydrocarbon potential: *Earth Science Reviews*, v.153, p77-110.

Holbrook, J., Einstein, H., and Crowell, A., 2016, (Eds.) *Geothermal Energy from Sedimentary Basins: Challenges, Potential, and Ways Forward: Geosphere, Special Issue*, v.12, no.1, 70p.

Huling, G. and Holbrook, J., 2016, Clustering of elongate muddy delta lobes within fluvio-lacustrine systems, Jurassic Kayenta Formation, Utah, *in* Budd, D.A., Hajek, E.A., and Purkis, S.J. (eds.), *Autogenic Dynamics and Self-Organization in Sedimentary Systems: SEPM Special Publication 106*, 18p.

Holbrook, J.M., and Wanas, H., 2014, A Fulcrum Approach to Assessing Source-to-Sink Mass Balance using Channel Paleohydrologic Parameters Derivable from Common Fluvial Data Sets with and example from the Cretaceous of Egypt: *Journal of Sedimentary Research*, v. 84, p.349-372.

Holbrook, J.M., Moore, J.N., Elsworth, D., Block, K.A., Allis, R., Einstein, H., 2014, An Opportunity of Geothermal Proportions in Sedimentary Basins: *The Sedimentary Record*, v.12, no.1, p.4-9.

Holbrook, J.M., and Bhattacharya, J.P., (2012), Reappraisal of the sequence boundary in time and space: Case and considerations for an SU (subaerial unconformity) that is not a sediment bypass surface, a time barrier, or an unconformity: *Earth Science Reviews*, v.113, p.271-302.

Autin, W.P. and Holbrook, J.M., (2012), Is the Anthropocene an issue of stratigraphy or pop culture? *GSA Today*, v.22, no.7, p.61-62.

Holbrook, J.M., (2010) Valleys that never were: Time surfaces versus stratigraphic surfaces – Discussion: *Journal of Sedimentary Research* v.80. p. 2-3.

O. Catuneanu, J.P. Bhattacharya, M.D. Blum, R.W. Dalrymple, P.G. Eriksson, C.R. Fielding, W.L. Fisher, W.E. Galloway, P. Gianolla, M.R. Gibling, K.A. Giles, J.M. Holbrook, R. Jordan, C.G.St.C. Kendall, B. Macurda, O.J. Martinsen, A.D. Miall, D. Nummedal, H.W. Posamentier, B.R. Pratt, K.W. Shanley, R.J. Steel, A. Strasser and M.E. Tucker (2010) Sequence stratigraphy: common ground after three decades of development: *Fast Break* v.28, p.21-34.

O. Catuneanu, V. Abreu, J.P. Bhattacharya, M.D. Blum, R.W. Dalrymple, P.G. Eriksson, C.R. Fielding, W.L. Fisher, W.E. Galloway, M.R. Gibling, K.A. Giles, J.M. Holbrook, R. Jordan, C.G.St.C. Kendall, B. Macurda, O.J. Martinsen, A.D. Miall, J.E. Neal, D. Nummedal, L. Pomar, H.W. Posamentier, B.R. Pratt, J.F. Sarg, K.W. Shanley, R.J. Steel, A. Strasser, M.E. Tucker and C. Winker, (2009), Toward the Standardization of Sequence Stratigraphy: *Earth Science Reviews*, v.92, p.1-33.

Scott, R.W., Oboh-Ikuenobe, F.E., Benson, D.G., Jr. and Holbrook, J.M. (2009) Numerical Age Calibration of the Albian/Cenomanian Boundary: *Stratigraphy*, v. 6, p. 17-32.

Oboh-Ikuenobe, F., Holbrook, J.M., Scott, R., Akins, S., Evetts, M., Benson, D., and Pratt, L., 2008, Anatomy of Epicontinental Flooding: Middle Cretaceous of the Southern U.S. Western Interior: *Canadian Geological Society Special Paper* 48, p.201-227.

Oboh-Ikuenobe, F.E., Benson, D.G., Scott, R.W., Holbrook, J.M., Evetts, M.J., and Erbacher, J., 2007, Re-evaluation of the Albian-Cenomanian boundary in the U.S. Western Interior based on dinoflagellate cysts: *Review of Palaeobotany and Palynology*, v.144, p.77-97.

Tornqvist, T.E., Paola, C., Parker, G., Liu, K., Mohring, D., Holbrook, J.M., Twilley, R.R., (2007) Comment on "Wetland sedimentation from hurricanes Katrina and Rita:" *Science*, v.316, p.201b

Holbrook, J.M., Autin, W.J., Rittenour, T.M., Marshak, S., Goble, R.J., 2006, Stratigraphic evidence for millennial-scale temporal clustering of earthquakes on a continental-interior fault: Holocene Mississippi River floodplain deposits, New Madrid seismic zone, USA: *Tectonophysics*, v.420, p. 431-454.

Holbrook, J.M., Scott, R.W., and Oboh-Ikuenobe, F.E., 2006, Base-level buffers and buttresses: a model for upstream verses downstream control on preservation of fluvial geometry and architecture within sequences: *Journal of Sedimentary Research*, v.76, no. 1-2, p.162-174.

Lockley, M., Holbrook, J., Kukiwara, R., and Matsukawa, M., 2006, An Ankylosaur-dominated dinosaur tracksite in the Cretaceous Dakota Group of Colorado: Paleoenvironmental and sequence stratigraphic context in Lucas, S.G. and Sullivan, R.M., eds., *Late Cretaceous vertebrates from the Western Interior: New Mexico Museum of Natural History and Science Bulletin* 35, p. 95-104.

Scott, R., Holbrook, J.M., Evetts, M.J., and Oboh-Ikuenobe, 2004, A revised Lower Cretaceous stratigraphy for northeastern New Mexico and environs: *The Mountain Geologist*, v.41, p.33-61.

Holbrook, J.M. and Oboh-Ikuenobe, F., 2002, Bounding-Surface Hierarchies and related sources of heterogeneity in seemingly uniform fluvial sandstone sheets: *Research Conference Proceedings of the Gulf Coast Section, SEPM*, p217-230.

Molenaar, C.M., Cobban, W.A., Pillmore, C.L., Wolfe, D.G., Holbrook, J.M., and Merewether, E.A., 2002, Regional stratigraphic cross section of Cretaceous rocks from east-central Arizona to the Oklahoma panhandle: *USGS Miscellaneous Field Studies Map MF-2382*, 3 Sheets.

Holbrook, J.M., 2001, Origin, genetic interrelationships, and stratigraphy over the continuum of fluvial channel-form bounding surfaces: An illustration from middle Cretaceous strata, southeastern Colorado: *Sedimentary Geology*, v.124, p.202-246.

Scott, R.W., Holbrook, J.M., Evetts, M.J., and Oboh-Ikuenobe, F.E., 2001, Albian-Cenomanian depositional cycles transgressed from Chihuahua Trough to Western Interior: *NMGS Guidebook* 52, p.221-228.

Ray, T., Holbrook, J.M., Sodergren, C., and Cui, Y., 1999, Stochastic modeling of the Terra Cotta member of the Dakota Sandstone in central Kansas using architectural element analysis in Harbaugh, J., Watney, L., Rankey, G., Slingerland, R., Goldstein, B., and Franseen, E., eds., *Numerical Experiments in Stratigraphy: Recent Advances in Stratigraphic and Sedimentologic Computer Simulations: SEPM Special Publication* 62, p. 279-294.

Holbrook, J.M. and Schumm, S.A., 1999, Geomorphic and sedimentary response of rivers to tectonic deformation: A brief review and critique of a tool for recognizing subtle epeirogenic deformation in modern and ancient settings: *Special issue on Tectonics of Continental Interiors: Tectonophysics*, v.305, p.287-306.

Holbrook, J. M. and White, D.C., 1998, Evidence for subtle uplift from lithofacies distribution and sequence architecture by lowrelief intraplate uplift: Examples from the Lower Cretaceous of northeastern New Mexico, in Shanley, K. W. and McCabe, P. J., eds., *Relative Role of Eustasy, Climate, and Tectonism in Continental Rocks: SEPM Special Publication* 59, p.123-132.

Holbrook, J.M., 1997, Career potential in the sciences, geology in the high school, and why would anyone major in geology anyway? *Palaos*, v.12, p.503-504. [Republished as attached reprint to latter issue. First of two ever such attachments for *Palaos*.]

Holbrook, J.M. and Ethridge, F.G., 1996, Sequence stratigraphy of the Dakota Group and equivalents from northcentral Colorado to northeastern New Mexico: Downip variations in sequence anatomy: Geologic Excursions to the Rocky Mountains and Beyond, 1996 GSA Guidebook, Colorado Geological Survey Special Publication 44.

Holbrook, J.M., 1996, Structural noise in seemingly undeformed intraplate regions: Implications from welts raised in a shattered Aptian/Albian U.S. Western Interior: Contributions to Advanced Studies in Geology, v.1, p.8793.

Holbrook, J.M., 1996, Complex fluvial response to low gradients at maximum regression: A genetic link between smooth sequenceboundary morphology and architecture of overlying sheet sandstone: Journal of Sedimentary Research, v.66, no.4, p.713722.

Holbrook, J.M., Tibbs, N. H., Lowell, G.R., and Snowden, J.O., 1994, Facilitating voluntary undergraduate research with a group-oriented Early Research Apprenticeship Program: Journal of Geological Education, v.43, p.404-407.

Holbrook, J.M. and Wright Dunbar, R., 1992, Depositional history of Lower Cretaceous strata in northeastern New Mexico: Implications for regional tectonics and depositional sequences: Geological Society of America Bulletin, v.104, no.7, p 802-813.

Lockley, M., Holbrook, J.M., Hunt, A., Matsukawa, M., and Meyer, C., 1992, The Dinosaur Freeway: A preliminary report on the Cretaceous megatracksite, Dakota Group, Rocky Mountain Front Range, and High Plains, Colorado, Oklahoma, and New Mexico: Mid-year Meeting, Society of Sedimentary Geology, Guidebook, p 39-54.

Fraser, G.S., Thompson, T.A., Kvale, E.P., Carlson, C.P. Fishbaugh, D.A., Gruver, B.L., Holbrook, J.M., Kairo, S., Kohler, C.S., Malone, A.E., Moore, C.H., Rachmanto, B., Rhodes, L., 1991, Sediments and sedimentary structures of a barred, nontidal coastline, southern shore of Lake Michigan: Journal of Coastal Research, v.7, no.4, p.1113-1124.

Holbrook, J.M., Wright, R., and Kietzke, K., 1987, Stratigraphic relationships at the Jurassic-Cretaceous boundary in east-central New Mexico: New Mexico Geological Society, Guidebook, 38th, p. 161-166.

Lucas, S.G., Holbrook, J.M., Sullivan, R.M., and Hayden, S.N., 1987, Dinosaur footprints from the Cretaceous Pajarito Formation, Harding County, New Mexico: New Mexico Geological Society, Guidebook, 38th, p. 31-32.

### ***Maps and folios***

Holbrook, J.M., and students, (initiated 2011), Geologic Maps of Surficial Materials, Missouri River Floodplain: Funded by the USGS EDMAP Program and NSF REU Program, and published by the University of South Dakota Press by the Missouri River Institute:

[A compendium of 60 individual 7.5' Quadrangle maps of the Missouri River floodplain surficial deposits from Yankton, South Dakota to Columbia, Missouri, first authored by the student mappers individually and co-authored by Holbrook, J.M. Published by the University of South Dakota Press and representing the past 12 years of mapping efforts with undergraduate and graduate students. Edited and Reviewed by the Missouri River Institute and also available at <http://www.usd.edu/missouri-river-institute/paleochannel-research.cfm>]

### ***Maps included in University of South Dakota compendium:***

Brooklyn Gose and David Baylor, 2013, Surficial Material Geologic Map of the Hamburg 7.5' Quadrangle Missouri and Nebraska, USA: OFM 2012-01

Megan DuBose, Ashley Adams, Daniel Woodworth, John Holbrook, 2014, Surficial Material Geologic Map of the Craig 7.5' Quadrangle Missouri and Nebraska, USA: Published by the University of South Dakota Press, OFM 2013-02

Megan DuBose, Daniel Woodworth, Ashley Adams, John Holbrook, 2014, Surficial Material Geologic Map of the Corning 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2013-01

Daniel Woodworth, Ashley Adams, Megan DuBose, John Holbrook, 2014, Surficial Material Geologic Map of the Big Lake 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2013-03

Sarah Allen, Brooke Long, John Holbrook, 2013, Surficial Material Geologic Map of the Nemaha 7.5' Quadrangle Nebraska, USA: Published by the University of South Dakota Press, OFM 2012-08

David Baylor, Brooklyn Goose, John Holbrook, 2013, Surficial Material Geologic Map of the Julian 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2012-02

David Baylor, Brooklyn Goose, John Holbrook, 2013, Surficial Material Geologic Map of the Julian 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2012-02

Brooke Long, Sarah Allen, John Holbrook, 2013, Surficial Material Geologic Map of the Langdon 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-07

Rebecca Rienstra, Daniel Shelley, John Holbrook, 2013, Surficial Material Geologic Map of the Preu 7.5' Quadrangle Nebraska, USA: Published by the University of South Dakota Press, OFM 2012-06

Daniel Shelly, Rebecca Rienstra, John Holbrook, 2013, Surficial Material Geologic Map of the Rockport 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-05

Charles Wagner, Michael Cloos, John Holbrook, 2013, Surficial Material Geologic Map of the Sydney 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2012-03

Neal Alexandrowicz, April Moreno, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Gayville 7.5' Quadrangle South Dakota, USA: Published by the University of South Dakota Press, OFM 2011-24

Faith Amadi, Steve Pagan, Larry Macklin, John Dolde, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Carrollton East 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-05

Justin Anderson, Chris Hendrix, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Little Sioux 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2011-46

Justin Anderson, Chris Hendrix, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Onawa Sioux 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2011-42

Boris Avdeev, Joshua Caster, Zane Jobe, Derek Main, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Hardin 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-10

Kacie Baak, Lance Howell, Michele Kashouh, Daniel Carlin, John Holbrook, 2011, Surficial Material Geologic Map of the Albaton 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2011-38

Tirrell Brown, Sara Figuerero, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Elk Point 7.5' Quadrangle South Dakota, USA: Published by the University of South Dakota Press, OFM 2011-31

Cynthia Burt, Edwin Lindamood, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Macy 7.5' Quadrangle Iowa and Nebraska, USA: Published by the University of South Dakota Press, OFM 2011-39

Daniel Carlin, Michele Kashouh, John Holbrook 2011, Surficial Material Geologic Map of the Mondamin NE 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2011-48

Jeff Carritt, Taryn Smith, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Onawa SW 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2011-41

Joshua Caster, Boris Avdeev, Zane Jobe, Derek Main, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Lexington East 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-11

Anthony Cordova, Daniel Noah, Angela Kennedy, Manoj Ghimire, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Boonville 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-03

Anthony Cordova, Daniel Noah, Angela Kennedy, Manoj Ghimire, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Franklin 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-08

Anthony Cordova, Daniel Noah, Angela Kennedy, Manoj Ghimire, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the New Franklin 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-16

John Dolde, Larry Macklin, Faith Amadi, Steven Pagan, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Carrollton West 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-06

Vince Egyed, Diana Flores, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Blencoe 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2011-44

Steven Emenhiser, Graham Calvert, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Burbank 7.5' Quadrangle South Dakota, USA: Published by the University of South Dakota Press, OFM 2011-30

Steven Emenhiser, Graham Calvert, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Vermillion SE 7.5' Quadrangle South Dakota, USA: Published by the University of South Dakota Press, OFM 2011-49

Colin Farley, Ashley Finley, Daniel Carlin, Michele Kashouh, John Holbrook 2011, Surficial Material Geologic Map of the Sloan 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2011-40

Jordan Garrett, Neal Alexandrowicz, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the St Helena 7.5' Quadrangle South Dakota, USA: Published by the University of South Dakota Press, OFM 2011-25

Manoj Ghimire, Angela Kennedy, Anthony Cordova, Daniel Noah, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Arrow Rock 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-01

Jordan Hildebrant, Mike Owinyo, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Homer 7.5' Quadrangle Nebraska, USA: Published by the University of South Dakota Press, OFM 2011-36

Zane Jobe, Derek Main, Joshua Caster, Boris Avdeev, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Dover 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-07

Angela Kennedy, Manoj Ghimire, Anthony Cordova, Daniel Noah, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Saline City 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-20

Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Pilot Grove 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-18

Gregory Kliem, Bianca Leddy, Anthony Rios, James Blankenship, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Buckner 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-04

Tatiana Kilem, Matt Wessale, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Jefferson 7.5' Quadrangle South Dakota, USA: Published by the University of South Dakota Press, OFM 2011-44

Bianca Leddy, Greg Kliem, Anthony Rios, James Blankenship, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Missouri City 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-15

Larry Macklin, John Dolde, Faith Amadi, Steve Pagan, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Waverly 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-21

Angela Markson, Monica Barbary, Daniel Carlin, Michele Kashouh, John Holbrook 2011, Surficial Material Geologic Map of the Salix 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2011-37

Jill Meyers, Josh Arten, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Elk Point NE 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2011-33

April Moreno, Dustin Ward, Jordan Garrett, Neal Alexandrowicz, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Gayville NE 7.5' Quadrangle South Dakota, USA: Published by the University of South Dakota Press, OFM 2011-26

April Moreno, Dustin Ward, Jordan Garrett, Neal Alexandrowicz, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Meckling 7.5' Quadrangle South Dakota, USA: Published by the University of South Dakota Press, OFM 2011-27

April Moreno, Eli Erikson, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Menominee NE 7.5' Quadrangle South Dakota, USA: Published by the University of South Dakota Press, OFM 2011-23

April Moreno, Eli Erikson, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Mission Hill 7.5' Quadrangle South Dakota, USA: Published by the University of South Dakota Press, OFM 2011-22

Jenna Newman, John Patten, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Blencoe 7.5' Quadrangle Nebraska, USA: Published by the University of South Dakota Press, OFM 2011-47

Daniel Noah, Anthony Cordova, Angela Kennedy, Manoj Ghimire, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Billingsville 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-02

Derek Main, Zane Jobe, Joshua Caster, Boris Avdeev, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Norborne 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-17

Chima Nzewunwah, Nicholette Tanksley, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Malta Bend 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-13

Chima Nzewunwah, Andy Burkemper, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Rocheport 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-19

Mike Owinyo, Jordan Hildebrandt, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the South Sioux City 7.5' Quadrangle Nebraska, USA: Published by the University of South Dakota Press, OFM 2011-35

Steve Pagan, Faith Amadi, John Dolde, Larry Macklin, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Grand Pass 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-09

Shane Peterson, David Grasman, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Tekamah 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2011-45

Amy Radakovich, Arron Soultiere, Michele Kashouh, Daniel Carlin, John Holbrook, 2011, Surficial Material Geologic Map of the Maskell 7.5' Quadrangle South Dakota, USA: Published by the University of South Dakota Press, OFM 2011-29

Amy Radakovich, Arron Soultiere, Michele Kashouh, Daniel Carlin, John Holbrook, 2011, Surficial Material Geologic Map of the Vermillion 7.5' Quadrangle South Dakota, USA: Published by the University of South Dakota Press, OFM 2011-28

Timothy Reed, Katherine Miller, Michele Kashouh, Daniel Carlin, John Holbrook, 2011, Surficial Material Geologic Map of the Ponca 7.5' Quadrangle South Dakota, USA: Published by the University of South Dakota Press, OFM 2011-32

Anthony Rios, James Blankenship, Greg Kleim, Bianca Leddy, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Carrollton West 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-12

Nicolette Tanksley, Chima Nzewunwah, Angela Kennedy, Steven Troyer, John Holbrook, 2011, Surficial Material Geologic Map of the Miami Station 7.5' Quadrangle Missouri, USA: Published by the University of South Dakota Press, OFM 2012-14

Adam Trimble, Rachel Patterson, Michele Kashouh, Daniel Carlin, John Holbrook 2011, Surficial Material Geologic Map of the Tekamah NW 7.5' Quadrangle Iowa, USA: Published by the University of South Dakota Press, OFM 2011-43

*Additional Missouri River and Mississippi River maps published elsewhere:*

Amadi, F., Pagan, S., Macklin, L., Dolde, J., and Holbrook, J.M., 2005, Surficial material geologic map of the Carrollton East 7.5' Quadrangle, Carroll County, Missouri: Missouri Division of Geology and Land Survey, Open-File Report, Scale 1:24000.

Pagan, S., Amadi, F., Dolde, J., Macklin, L., and Holbrook, J.M., 2005, Surficial material geologic map of the Grand Pass 7.5' Quadrangle, Saline County, Missouri: Missouri Division of Geology and Land Survey, Open-File Report, Scale 1:24000.

Dolde, J., Macklin, L., Amadi, F., Pagan, S., and Holbrook, J.M., 2005, Surficial material geologic map of the Carrollton West 7.5' Quadrangle, Carroll County, Missouri: Missouri Division of Geology and Land Survey, Open-File Report, Scale 1:24000.

Macklin, L., Dolde, J., Amadi, F., Pagan, J., and Holbrook, J.M., 2005, Surficial material geologic map of the Waverly 7.5' Quadrangle, Lafayette County, Missouri: Missouri Division of Geology and Land Survey, Open-File Report, Scale 1:24000.

Nzewunwah, C., Tanksley, N., Holbrook, J.M., (2004), Surficial material map of the Malta Bends 7.5' Quadrangle, Saline County, Missouri: Missouri Division of Geology and Land Survey, Open-File Report, Scale 1:24000.

Tanksley, N., Nzewunwah, C., and Holbrook, J.M., (2004), Surficial material map of the Miami Station 7.5' Quadrangle, Carroll County, Missouri: Missouri Division of Geology and Land Survey, Open-File Report, Scale 1:24000.

Cox, C., Teeters, S., Perez, J., Holbrook, J.M., 2003, Surficial material map of the Steele 7.5' Quadrangle, Pemiscott County, Missouri: Missouri Division of Geology and Land Survey, Open-File OFM-03-471-GS, Scale 1:24,000.

Teeters, S., Cox, C., Perez, J., Holbrook, J.M., 2003, Surficial material map of the Cottonwood Point 7.5' Quadrangle, Pemiscott County, Missouri: Missouri Division of Geology and Land Survey, Open-File OFM-03-469-GS, Scale 1:24,000.

Teeters, S., Perez, J., Cox, C., Holbrook, J.M., 2003, Surficial material map of the Caruthersville 7.5' Quadrangle, Pemiscott County, Missouri: Missouri Division of Geology and Land Survey, Open-File OFM-03-468-GS, Scale 1:24000.

Teeters, S., Cox, C., Perez, J., Holbrook, J.M., 2003, Surficial material geologic map of the Hayti Heights 7.5' Quadrangle, Pemiscott County, Missouri: Missouri Division of Geology and Land Survey, Open-File OFM-03-470-GS, Scale 1:24000.

### ***Additional Publications***

Rutford, R.H. and Carter, J.L., 2013, Zumberges's Laboratory Manual for Physical Geology, Sixteenth Edition: McGraw Hill (I am an official contributor under contract and the only additional contributor. Rewrote Section II and provided new exercises.)

Holbrook, J.M., Blackwell, D., Moore, J., Snyder, W., Einstein, H., Fairhurst, C., Adam, L., van Wijk, K., Glen, J., Block, K., 2013, Tracking an Energy Elephant: Science and Engineering Challenges for Unlocking the Geothermal Potential of Sedimentary Basins: NSF-SEES Workshop Report, TCU Press, 31p

### ***Abstracts***

Holbrook, J., Anderson, J., and Goble, R., 2021, The saga of the Missouri River from LGM to today, and what the valley fill tell of a river's response to ice, rain, and GIA: Geological Society of America Annual Meeting, Portland, OR.

Holbrook, J., 2021, What does the rock record really record, and why does stratigraphic interpretation seem to work at all? Congreso Latinoamericano de Sedimentología, Santa Fe, Argentina (Invited Keynote)

Lang, S., Paumard, V., O'Leary, M., Goodwin, I., Cousins, V., Lebrech, U., Jian, A., Holbrook, J., Smith III, P., Hasiotis, S., Vakarelov, B. & Krapf, C., 2021. Dryland Coastal Deltas of Western Australia – Reservoir Analogues for Mixed-influenced Fluvial-deltaic Depositional Systems: Australian Earth Science Convention (AESCC) 2021 Hobart, Tasmania, Australia, 9-12 Feb 2021

van Yperen, A., Poyatos-Moré, M., Holbrook, J. and Midtkandal, I., 2021, April. Internal mouth-bar variability and differential preservation of coastal-process indicators in low-accommodation deltaic setting: EGU General Assembly Conference Abstracts (pp. EGU21-2895).

van Yperen, A., Holbrook, J., Poyatos-Moré, M., and Midtkandal, I., 2021, Sheet-like delta-front sandstone bodies in a river-dominated low-accommodation setting (Dakota Group, USA): International Association of Sedimentologists, Vienna, Austria.

Holbrook, J.M., van Yperen, A., Bhattacharya, J., Miall, A., 2020, The Diachronous Sequence: AAPG Virtual Annual Meeting

Skaleski, A., Walker, S., Holbrook, J.M., 2020, Understanding the Triassic Dockum Group of West Texas and Northeastern New Mexico in Context with the Megamonsoon Hypothesis: A Paleogeographic and Hydrologic Analysis: GSA Southcentral Sectional Meeting, Fort Worth Texas

Holbrook, J.M., Smith, P.III, Lang, S.C., Hasiotis, S., Paumard, V., Cousins, V., O'Leary, M.O., Goodwin, I., 2020, The imprint of cyclones and wind on the surface expression of dryland deltas: SEPM International Congress, Flagstaff Arizona

Walker, S., Skaleski, A., Holbrook, J.M., 2020, Quantifying the hydrological setting of upper flow regime channels of the Triassic Dockum Group of West Texas: SEPM International Congress, Flagstaff Arizona

Skaleski, A., Walker, S., Holbrook, J.M., 2020, Understanding the Triassic 'Megamonsoon' climate hypothesis through a paleogeographic reconstruction of the Triassic Dockum Group, West Texas: SEPM International Congress, Flagstaff Arizona

Midtkandal, I., Holbrook, J.M., Faleide, J.I., Meyers, C., van Yperen, A.E., Shephard G.E., Nystuen, J.P., 2020, Testing arctic tectonic plate models with Cretaceous sediment source to sink budgets: Nortic Wither Conference, Oslo, Norway.

Van Yperen, A.E., Holbrook, J.M., Poyatos-More, M., Meyers, C., Midtkandal, I., 2020, From river to delta: Amalgamated sheet sandstones and the dispersive nature of subaerial unconformities (Dakota Group, USA): Nortic Wither Conference, Oslo, Norway.

Durkin, P.R., Hubbard, S.M., Holbrook, J., 2020, Recognizing the product of concave-bank sedimentary processes in fluvial meander belts: SEPM International Congress, Flagstaff Arizona

Holbrook, J. and Howe, T., 2019, The rarity of bifurcation in shallow lake deltas: Implications for reservoirs and overall delta processes: Invited paper for "Best of AAPG" session, Geological Society of America Annual Meeting, Phoenix, Arizona

Holbrook, J.M., Allen, S., 2019, Is distinguishing braided vs. meandering rivers a valid exercise? International Association of Sedimentologists International Meeting of Sedimentology, Rome, Italy

Holbrook, J.M., 2019, Building a geothermal future on a sedimentary foundation: SEPM Research Symposia, AAPG Annual Meeting, San Antonio, Texas

Stieffél, R., Holbrook, J.M., Krohling, D., Roldan, J., 2019, Evidence for an old Parana Delta and diachroneity in global highstands: AAPG Annual Meeting, San Antonio, Texas

Holbrook, J.M., Allen, S., 2019, Is braided vs. meandering a valid distinction? AAPG Annual Meeting, San Antonio, Texas

Van Yperen, A., Poyatos-More, M., Holbrook, J., Midtkandal, I., 2019, Internal mouth-bar variability and preservation of interflood beds in a low-accommodation setting (Cretaceous Dakota Group, USA): International Association of Sedimentologists International Meeting of Sedimentology, Rome, Italy

Anderson, J., and Holbrook, J., 2018, The relative impact of Laurentide discharge and forebulge migration on the ups and downs of the Missouri River profile: Geological Society of America Annual Meeting, Indianapolis, Indiana

Holbrook, J., 2018, Five Years of SedHeat: What have we learned about geothermal energy from sedimentary basins? ARMS 10 International Workshop on Geothermal Energy, Singapore

Holbrook, J. and Howe, T., 2018, The rarity of bifurcation in shallow lake deltas: Implications for reservoirs and overall delta processes: American Association of Petroleum Geologists Annual Meeting, Salt Lake City, Utah

Horne, S.C., Harrison, R.I., Holbrook, J., and Hartley, A., 2018, New ideas in old places: Raton Basin depositional model as a distributive fluvial system: American Association of Petroleum Geologists Annual Meeting, Salt Lake City, Utah

Horner, R., McGregor, G., Holbrook, J., 2018, What's that you splay- a depositional model for the humid terminal splay? A comparative analysis of the modern Rio Seco, Argentina and the Cretaceous-Paleocene Raton Formation, Colorado: American Association of Petroleum Geologists Annual Meeting, Salt Lake City, Utah

Midtkandal, I., Holbrook, J.M., Faleide, J.I., Myers, C., van Yperen, A.E., Shephard, G.E., Nystuen, J.P., 2018, Early Cretaceous Arctic Palaeotopography as Constrained by Barents Sea Sediment Budget, AGU Fall Meeting, San Francisco, abstract #T43I-0525

Myers, C. and Holbrook, J., 2018, A potential source for the Early Cretaceous Barents Sea sink through discharge estimations of the fluvial Festningen Sandstone in Svalbard, Norway: American Association of Petroleum Geologists Annual Meeting, Salt Lake City, Utah

Pechacek, A. and Holbrook, J., 2018, A twist on the sequence stratigraphic model: Climate induced incision with a sea level assist: Geological Society of America Annual Meeting, Indianapolis, Indiana

Van Yperen, A., Midtkandal, I., Holbrook, J., Poyatos-More, M., 2018, Allogenic and autogenic controls on low-accommodation deltaic systems: the Cretaceous Mesa Rica Sandstone (New Mexico, USA): Nederlands Asrdwetenschappelijk Congress, Amsterdam

Van Yperen, A., Poyatos-More, M., Holbrook, J., Hedvig, L., Midtkandal, I., 2018, The “filtering” effect and internal delta-lobe variability in low-accommodation fluvial-marine transition zones: the Cretaceous Mesa Rica Sandstone (New Mexico, USA): British Sedimentology Research Group, Glasgow.

Warwick, B., Torres, A., Holbrook, J., and Moody, J., 2018, Chronostratigraphic and architectural analysis of a modern point bar, Powder River, Montana: American Association of Petroleum Geologists Annual Meeting, Salt Lake City, Utah

Wilson, N. and Holbrook, J., 2018, Improving paleohydrologic source-to-sink estimates by merging big data and the fulcrum approach: American Association of Petroleum Geologists Annual Meeting, Salt Lake City, Utah

Wilson, N. and Holbrook, J., 2018, Improving source-to-sink sediment transport estimates by merging big data and the fulcrum approach to better understand fluvial processes: Geological Society of America Annual Meeting, Indianapolis, Indiana

Durkin, P.R., Holbrook, J., Hubbard, S., 2017, Paleochannel migration reconstruction of an ancient meander-belt deposit informs paleoenvironmental interpretations, Cretaceous McMurray Formation, Alberta, Canada: 11<sup>th</sup> International Conference on Fluvial Sedimentology, Calgary, Canada

Durkin, P.R., Holbrook, J., Hubbard, S., 2017, Quantifying preservation of fluvial meander-belt deposits; documenting the “survivability” curve: 11<sup>th</sup> International Conference on Fluvial Sedimentology, Calgary, Canada

Holbrook, J., 2017, Expansion to contraction, translation to retreat, osculation or toggle, and degree of wobble, and the many ways a meander may move: 11<sup>th</sup> International Conference on Fluvial Sedimentology, Calgary, Canada

Holbrook, J., 2017, 40 years of changing views on the sequence-stratigraphic paradigm: Geological Society of America Annual Meeting, Salt Lake City, Utah

Holbrook, J., 2017, Fluvio-lacustrine vs. fluvio-marine and the rarity of the classic delta in the modern lake: Geological Society of America Rocky Mountain Section Annual Meeting, Calgary, Canada

Horner, R.J., McGregor, G., Holbrook, J., 2017, Facies association of humid terminal splays in the distal DFS model and implications for reservoir connectivity: a case study of the Raton Formation: American Association of Petroleum Geologists Annual Meeting, Houston, Texas

Howe, T and Holbrook, J., 2017, The default delta is not a delta: 11<sup>th</sup> International Conference on Fluvial Sedimentology, Calgary, Canada

Howe, T. and Holbrook, J., 2017, The architecture and connective potential of blowout wings in fluvio-deltaic environments: American Association of Petroleum Geologists Annual Meeting, Houston, Texas

McGregor, G and Holbrook, J., 2017, Humid terminal splays in the modern and ancient: 11<sup>th</sup> International Conference on Fluvial Sedimentology, Calgary, Canada

McGregor, G, Horner, R.J., Holbrook, J., 2017, Humid terminal splays as sand-sheet reservoirs: A first look at the modern, Andean foreland, and a new look at the ancient, Raton Basin: American Association of Petroleum Geologists Annual Meeting, Houston, Texas

Warwick, B.M., Torres, A., Holbrook, J., Moody, J., 2017, Architectural and chronostratigraphic analysis of a modern point bar; Powder River, Montana: 11<sup>th</sup> International Conference on Fluvial Sedimentology, Calgary, Canada

Wilson, N.O. and Holbrook, J., 2017, Improving bankfull sediment discharge estimates for stratigraphic channels to attain source-to-sink mass flux using database driven analysis: 11<sup>th</sup> International Conference on Fluvial Sedimentology, Calgary, Canada

Blowick, A., Houghton, P., Tyrrell, S., Holbrook, J., Daly, S., and Shannon, P., 2016, The Provenance of Sands in Transcontinental Rivers: What Can Detrital K-Feldspar Tell Us? AAPG Annual Meeting, Calgary, Alberta

Durkin, P., Holbrook, J., Hubbard, S.M., and Boyd, R., 2016, Evolution of Fluvial Meander Belt Deposits With Implications for the Completeness of the Stratigraphic Record: AAPG Annual Meeting, Calgary, Alberta

Durkin, P., Hubbard, S.M., Boyd, R.L., Holbrook, J., 2016, Reconstruction of meander-belt evolution improves stratigraphic and paleoenvironmental interpretations, Cretaceous McMurray Formation, Alberta: William C. Gussow Conference, CSPG, Banff, Alberta.

Holbrook, J. and Wilson, N., 2016, Estimating sediment flux from ancient fluvial systems for source-to-sink calibrations; challenges and ways forward: GSA Annual Meeting, Denver, Colorado.

Holbrook, J., Torres, A., and Johnston, S., 2016, There's more than one way to build a point bar: Multiple growth processes in river-channel point bars: 35<sup>th</sup> International Geological Congress, Cape Town, South Africa.

Horner, R.J. and Holbrook, J., 2016, Wet Avulsion Sequences in the Cretaceous-Paleogene Raton Formation, Colorado: AAPG Annual Meeting, Calgary, Alberta

Horner, R.J., Pfeiffer, K., McGregor, G., Holbrook, J., 2016, Facies characterization of the Cretaceous-Paleogene Raton Formation from core analysis, Colorado: GSA Annual Meeting, Denver, Colorado

Howe, T. and Holbrook, J., 2016, Evolution of Prograding Channels and Relation to Splay Deltas: Geomorphology and Reservoir Characteristics from the Red River Delta in Lake Texoma: AAPG Annual Meeting, Calgary, Alberta.

Johnston, S.L., Holbrook, J., Warwick, B., 2016, Controlling Factors and Mechanisms in the Formation of a Muddy-Normal Point Bar: A 3-D Architectural-Element Analysis of a Heterolithic Point Bar in Dinosaur Provincial Park, Alberta, Canada: AAPG Annual Meeting, Calgary, Alberta

Johnston, S.L., Torres, A., Palmer, M., Holbrook, J., 2016, Alternative models for the common point bar: Origin and stratigraphy of the fragmentary and muddy-normal point bar: GSA Annual Meeting, Denver, Colorado

Torres, A., Palmer, M., Holbrook, J., Durkin, P., and Hubbard, S.M., 2016 Origin and Scaling of Surfaces and Heterogeneity in a Fragmentary Point Bar From 3-D Architectural-Element Analysis, Late Cretaceous Dinosaur Park Formation Within Dinosaur Provincial Park, Alberta, Canada: AAPG Annual Meeting, Calgary, Alberta

Holbrook, J., 2015, Rethinking Time and Bypass and Meaning of the Classic Sequence Boundary: AAPG Siliclastic Reservoirs of the Middle East, Kuwait City, Kuwait

Holbrook, J., 2015, Accreting Complexity onto the simple point bar: The Legacy of Derald Smith: CSPG Annual Meeting, Calgary

Holbrook, J., Palmer, M., Torres, A., 2015, Preservational complexity and completeness in Channel Point Bars and the Heterogeneity of Heterogeneity in their Reservoir Models: AAPG Annual Meeting, Denver

Ney, J, Atkins, S., and Holbrook, J., 2015, Testing the Distributary Channel Model against Predicted Changes in Fluvial Reservoir Geometry Transitions from Low to High Accommodation Settings: Upper Pennsylvanian of the Appalachian Basin: AAPG Annual Meeting, Denver

Palmer, M., Torres, A., and Holbrook, J., 2015, A High-Resolution 3-D Architecture of a Cretaceous Point Bar using Terrestrial Laser Scanning of Multiple Exposures: A far more Complex Model of Bar Growth at the Scale of a Steam Chamber than Previously Thought: AAPG Denver

Anderson, J.B. and Holbrook, J., 2015, Valley Fill Architecture of the Missouri River Valley: Preferential Preservation Creating Classic Sequence Stratigraphic Architecture: AAPG Annual Meeting, Denver

Durkin, P., Hubbard, S.M., Weleschuk, Z., Smith, D.G., Palmer, M., Torres, A., and Holbrook, J., 2015, Spatial and Temporal Evolution of an Ancient Fluvial Meanderbelt (Upper Cretaceous Dinosaur Park Formation, Southeastern Alberta, Canada) with Emphasis on Characterization of Counter Point Bar Deposits: AAPG Annual Meeting, Denver

Al-Rafaei, Y., and Holbrook, J., 2014, Six Degrees of Separation Across the Low-to-High Accommodation Continuum in Fluvial Systems: AAPG Annual Meeting, Houston.

Holbrook, J. and Wanas, H., 2014, A Fulcrum Approach for Assessing Sediment Source-to-Sink Mass Balance Using Fluvial Paleohydrologic Data Extractable from Cores: An Assessment of Potential and Limitations Using the Cenomanian Bahariya Formation, Egypt: AAPG Annual Meeting, Houston

Holbrook, J., 2014, Connectivity within and between Channel-belt Reservoirs: A Mississippi River Analog for the McMurray Oil Sands: AAPG/CSPG Conference "Oil Sands and Heavy Oil Symposium: Calgary, Alberta.

Huling, G., and Holbrook, J., 2014, Evidence for Clustering of Delta-Lobe Reservoirs within Fluvo-Lacustrine Systems, the Jurassic Kayenta Formation, Utah: AAGP Annual Meeting, Houston.

Huling, G., and Holbrook, J., 2014, Evidence for Clustering of Delta-Lobe Reservoirs within Fluvo-Lacustrine Systems, the Jurassic Kayenta Formation, Utah: SEPM Research Conference Autogenic Dynamics of Sedimentary Systems, Grand Junction, Colorado.

Adams, A.L., Woodworth, D., DuBose, M., and Holbrook, J., 2013, Apparent non-coincident coupling of the Missouri River trunk system to mid-continent climate change: GSA Annual Meeting, Denver

Allen, S.D., and Holbrook, J., 2013, An alternative meander mechanism for braided rivers: GSA Annual Meeting, Denver.

Holbrook, J., 2013, Basin-filling processes and its impact on geothermal fluid flow: What we know, what we think we know, what we wish we knew: GSA Penrose Conference Predicting and Detecting Natural and Induced Flow Paths for Geothermal Fluids in Deep Sedimentary Basins: Park City, Utah.

Holbrook, J., 2013, New focus on sedimentary basins with SEDHEAT: SMU Geothermal Conference, Dallas, Texas

Holbrook, J., 2013, Six Degrees of Separation: A Relay of Processes across the Low-to-High-Accommodation Continuum in Fluvial Systems: International Conference on Fluvial Sedimentology, Leeds, UK.

Holbrook, J., and Bhattacharya, J., 2013, Introductions for a Familiar Stranger: Rethinking Sequence Boundaries, Bypass, and Time in the Rock: International Conference on Fluvial Sedimentology, Leeds, UK.

Holbrook, J., 2013, Funny things meanders do: A summary of the diversity of meander processes and morphology and implications for reservoir geometry and quality within channel belts: AAPG Annual Meeting, Pittsburgh, PA.

(Invited Keynote) Holbrook, J., and Miall, A.D., 2013, Time in the rock: A fluvial prospective on the preservation of time and process in the stratigraphic record: International Conference on Fluvial Sedimentology, Leeds, UK.

Woodworth, D., DuBose, M., Adams, A.L., and Holbrook, J., 2013, Morphology of the Holocene Missouri River in northwestern Missouri: GSA Annual Meeting, Denver.

Ershova, V., Holbrook, J., Khudoley, A, Prokopiev, A, 2012, Priverkhoyansk foreland basin (eastern Siberia): Interaction between fold-thrust belt tectonics and sedimentary supply: GSA Annual Meeting, Charlotte, Abstracts with Programs.

Hull, M., Holbrook, J., Al-Rafaei, Y, Tomanka, G., 2012, The gun-barrel hypothesis for default delta formation: GSA Annual Meeting, Charlotte, Abstracts with Programs

Rienstra, R., Long, B., Cloos, M., Allen, S., Gose, B., Baylor, D., Shelley, D., Wagner, C., Holbrook, J., 2012, Pattern changes on the Holocene Missouri River: GSA Annual Meeting, Charlotte, Abstracts with Programs

Holbrook, J., Miall, A., 2012, Linkage between stratigraphic hierarchy, sediment accommodation, and process time scales: A fluvial view: GSA Annual Meeting, Charlotte, Abstracts with Programs

Allen, S., Long, B., Holbrook, J., 2012, Reverse meanders: An alternative method to the creation of meander loops by a braided river: GSA Annual Meeting, Charlotte, Abstracts with Programs

Holbrook, J., Snyder, W., Moore, J., Fairhurst, C., Einstein, H., Block, K., and Adam, M., 2012, Sedheat: Addressing the science and engineering challenges for unlocking the geothermal potential of sedimentary basins: AAPG Annual Convention, Long Beach, Abstracts with Programs.

Holbrook, J., Bhattacharya, J., 2012, What happened to my marine reservoir? Implication of falling stage and lowstand fluvial sediment storage during "sequence-boundary" scour for sand starvation of coastal marine reservoirs: AAPG Annual Convention, Long Beach, Abstracts with Programs.

Bhattacharya, J., Holbrook, J., Campbell, 2012 Stepped forced regressive valleys and sequence diachroneity: AAPG Annual Convention, Long Beach, Abstracts with Programs.

Tingook, R., Holbrook, J., 2012, Numerical simulation of the base-level buffers and buttresses model of fluvial systems: AAPG Annual Convention, Long Beach, Abstracts with Programs.

Rastaghi, S., Holbrook, J., 2012, The impact of buffers on changes in architecture of the Paleozoic Lower Cutler Beds of Utah: AAPG Annual Convention, Long Beach, Abstracts with Programs.

Holbrook, J., Payenberg, T., and Hampson, G., 2011 Session Chair: Facies Models of Fluvial Systems: 50 Years on: [Abstract] AAPG Annual Meeting, Houston Texas.

Holbrook, J. and Alexandrowicz, N., 2011, Rethinking the classic oxbow filling model: Some hope for improved reservoir connectivity: [Abstract] AAPG Annual Meeting, Houston Texas.

Bagley, J., Henk, B., Holbrook, J., 2011, Sedimentology, ichnology, depositional environment interpretation, and reservoir characterization of the Cotton Valley Sandstone in the Amoco Grace Lowry#1, Harrison County, Texas: [Abstract] AAPG Annual Meeting, Houston, Texas

Kashouh, M.V., Carlin, D., Holbrook, J., and Goble, R.J., 2011, Using OSL Dating to constrain up-dip to down-dip coupling rates of a meandering-braided transition: The last natural change in river pattern of the Lower Missouri River: [Abstract] GSA Annual Meeting, Minneapolis, MN.

Carlin, D., Kashouh, M.V., and Holbrook, J., 2011, Mapping the mighty Missouri River: Developing an integrated map data set from surficial allostratigraphic maps of a reach of the Missouri River Valley floor from Yankton, SD to Mondamin, IA: [Abstract] GSA Annual Meeting, Minneapolis, MN.

Ershova, V.B., Holbrook, J., Khudoley, A.K., Prokopiev, A.V., 2010, Sequence Stratigraphy of the Lower Cretaceous Deposits of the Chekurovka Area (NE Siberia, Lena R.)—Preliminary Results// EAGE, Saint-Petersburg, Russia

Ershova, V.B., Holbrook, J., Khudoley, A.K., Prokopiev, A.V., 2010, Depositional Environments and Sequence Stratigraphy of Lower Cretaceous fluvial deposits in the NE Siberia (Lena River, Chekurovka area): GeoCanada, Clagary, Canada.

Ershova, V.B., Holbrook, J., Khudoley, A.K., Prokopiev, A.V., 2010, Tectonic influence on the Early Cretaceous fluvial deposition in the northern part of Priverkhoyansk foreland basin. In: Abstracts Volume, 18th International Sedimentological Congress (Eds. E. Schwarz, S. Georgieff, E. Piovano and D. Ariztegui), p. 327 Mendoza, Argentina.

Patten, J., Newman, J., Egyed, V., Anderson, J., Albertson, R., Flores, D., Hendrix, C., Patterson, S., Grasman, D., Trimble, A., Holbrook, J., 2010, Quaternary scour and fill of the Missouri River Valley from field mapping and OSL dates: a buffer vs. denudation valley origin for a continental-scale river: GSA Annual Meeting, Denver, Geological Society of America Abstracts with Programs, Vol. 42, No. 5, p. 242.

Trimble, A., Anderson, J., Holbrook, J., 2010, Coupling rates from OSL for pattern changes triggered by climate change in the trunk Missouri River belt during the Holocene: A counter-intuitive up-dip migration in response: GSA Annual Meeting, Denver, Geological Society of America Abstracts with Programs, Vol. 42, No. 5, p. 242.

Holbrook, J., 2010, How the Ox-bow filled: Co-authored by Big Muddy and Old Man River: PAGES/Past Global Changes, International Floodplain Lakes Workshop, Fayetteville, Arkansas

Stoner, S. and Holbrook, J., 2010, Geometric trends for floodplain lakes in High-Accommodation floodplains and architecture of floodplain lake partitioning crevasse channels and splay deltas: AAPG Student Expo, Houston, Texas.

Holbrook, J. and Strong, N., 2009, Alternative views for common assumptions: Reassessing the origin and significance of sequence boundaries using field and flume: AAPG Annual Meeting, Denver, Co.

Holbrook, J., 2009, Generating sequence boundaries, architecture, and sediment storage in high vs. low accommodation phases of coastal tropical rivers: Invited paper, AAPG Hedberg Conference, Jakarta, Indonesia

Holbrook, J., 2009, A persisting preference for progressive piling: Rock vs. river biases in the medium-term processes and architectural complexity of channel-belt stacking: Keynote, SEPM Research Conference, From River to Rock Record, Aberdeen, Scotland

Alexandrowicz, N. and Holbrook, J., 2009, Turning barriers into baffles: Fluvial migration processes within a belt and the potential for amalgamation of fluvial deposits: Rock vs. river biases in the medium-term processes and architectural complexity of channel-belt stacking: SEPM Research Conference, From River to Rock Record, Aberdeen, Scotland

Graham, C.S., Holbrook, J., Goble, R.J., Emenhiser, S., Meyers, J.C., Freed, T., Wessale, M., Soultair, A., Arten, J., Radakovich, A., Miller, K., Figueroa, S., 2009, Evidence for Preservation of Pleistocene outwash within the Missouri River Valley fill: Missouri River Natural Research Conference, Poster Abstracts, p.2

Freed, T.W., Holbrook, J., Miller, K., Emenhiser, S.W., Calvert, G.S., Jack, J.C., Arten, J., Soultair, A., Radakovich, A., Wessale, M., Kliem, T., Figueroa, S., Brown, T., 2009, 2008 Results from the NSF-REU/USGS-EDMAP Big Muddy Mapping Expedition, Vermillion, SD to Sioux City, IA: Missouri River Natural Research Conference, Poster Abstracts, p.4.

Freed, T.W., Holbrook, J., Emenhiser, S.W., Calvert, G.S., Arten, J., Jack, J.C., Miller, K., Radakovich, A., Wessale, M., Kliem, T., Figueroa, S., Brown, T.D., 2009, Counter point bar deposition along the Missouri River Valley wall: Missouri River Natural Research Conference, Poster Abstracts, p.5.

Meyers, J.C., Arten, J., Holbrook, J., Goble, R.J., Calvert, G.S., Freed, T.W., Wessale, M., Emenhiser, S., Soultair, A., Radakovich, A., Figueroa, S., 2009, Evolution of the Missouri River Valley at Elk Point, South Dakota in response to changes in the drainage basin: Missouri River Natural Research Conference, Poster Abstracts, p.10.

Freed, T.W., Miller, K., Wessale, M., Emenhiser, S., Soultair, A., Jack, J., Radakovich, A., Arten, J., Figueroa, S., Calvert, G., and Holbrook, J., 2009, Mapping Surficial Features in the Missouri River Valley: Geological Society of America North-Central Section Meeting, Abstracts with Programs.

Markson, A. and Holbrook, J., 2009, Your community college: A rich reservoir of potential geosciences students: GSA Annual Meeting, Portland, OR

Lundstrom, S., Cowman, T., Holbrook, J., Paces, J.B., Hanson, P.D., Sweeney, M.R., Jacobson, R.D., Heise, B., and Abraham, J.D., 2009, Geologic mapping and research along the Missouri National Recreational River, Nebraska and South Dakota: Integration of results and significance to hydrological and ecological issues: GSA Annual Meeting, Portland, OR

Carritt, J., Hildebrandt, J., Baak, K., Burt, C., Farley, C., Finley, A., Howell, L., Lindamood, E., Owinyo, M. Smith, T., Holbrook, J., 2009, The way it all became the Braidy Bunch: Climate clues in Missouri Valley Allostrata: GSA Annual Meeting, Portland, OR

Farley, C., Lindamood, E., Howell, L., Baak, K., Smith, T., Hildebrandt, J., Owinyo, M., Markson, A., and Holbrook, J., 2009, Mapping the Missouri River floodplain subsurface: A Holocene history of climate change: GSA Annual Meeting, Portland, OR

Holbrook, J. and Lowell, G., 2008, Anatomy of a department closure: When workforce needs and administrative priorities meet the worst case scenario: Geological Society of America Annual Meeting, Houston, TX, Abstracts with Programs.

Oboh-Ikuenobe, Holbrook, J., Scott, R.W., Evetts, M.J. Benson, D.G., Akins, S.L., and Pratt, L.M. (2008) Late Albian-Early Cenomanian flooding history: Southern U.S. Western Interior: Geological Society of America Annual Meeting, Houston, TX, Abstracts with Programs.

Alexandrowicz, N. and Holbrook, J., 2008, Variability in channel-belt basal scour surface and implications for connectivity between channel-belt reservoirs: AAPG Annual Meeting, San Antonio, TX, Abstracts with Programs, p.4

Clayton, C., Boyd, G., Holbrook, J., Lang, S., Marshall, N., and Wadsworth, J., 2008, Pre-rift reservoir architecture of a fluvial-deltaic succession, New insights from the Pluto gas field, Late Triassic, Carnarvon Basin, Western Australia: AAPG International Conference and Exhibition, Cape Town, South Africa.

Kliem, G., Holbrook, J., Blankenship, J., Leddy, B., and Rios, T., 2008, The impact of valley confinement from growth processes and magnitude of point-bar type reservoirs, Missouri River: AAPG Annual Meeting, San Antonio, TX, Abstracts with Programs, p.110

Stoner, S. and Holbrook, J., 2008, Geometric trends for floodplain lakes in high accommodation floodplains: AAPG Annual Meeting, San Antonio, TX, Abstracts with Programs, p.195

Ward, D.E., Moreno, A.D., Alexandrowicz, N., Garrett, J., and Holbrook, J., 2008, Counter-intuitive braid deposits from an Active Channel Belt: AAPG Annual Meeting, San Antonio, TX, Abstracts with Programs, p.211

Holbrook, J., 2007, A detailed look inside a complex channel belt: Processes, rates, and architecture for an 8K-duration Mississippi River meander belt: AAPG Annual Meeting, Long Beach, CA.

Holbrook, J., 2007, Base-level buffers and buttresses: A model for upstream vs. downstream control on fluvial architecture and sequences: Chevron Research Symposia, Houston, TX

Lundstrom, S. Paces, J., Hanson, P., Cowman, T., Holbrook, J., Jacobson, R., Dillon, J., Joeckel, M., Osterkamp, W.R., Mahan, S., Werkmeister, W., 2007, New geologic mapping and geochronology of the corridor area of the Missouri National Recreational River, Nebraska and South Dakota: GSA Annual Meeting, Denver, CO.

Holbrook, J. and Goble, R., 2006, Sensitivity and Response Rates to Active Faulting for a Large Meandering Alluvial River: Insights from the Mississippi River in the New Madrid Seismic Zone, USA: International Association of Sedimentologists International Congress, Fukuoka Japan, Abstracts with Programs.

Holbrook, J., 2006, Discerning Relative Impact of Sea Level, Climate, and Local Tectonics on Sequence Architecture from Inland to the Sea: Cretaceous Dakota Group, USA: International Association of Sedimentologists International Congress, Fukuoka Japan, Abstracts with Programs.

Holbrook, J., Goble, R., Autin, W., and Rittenour, T., 2006, High-resolution mapping, dating, and sequencing of Holocene meander loops in the Mississippi and Missouri river valleys: Geoarchaeological implications of lessons learned: GSA Annual Meeting, Philadelphia, PA, Abstracts with Programs.

Lundstrom, S.C., Werkmeister, W., Wilson, S., Cowman, T., Iles, D., Holbrook, J., Jacobson, R., Joeckel, R.M., Hanson, P., and Rukstales, L., 2006, New geologic mapping along the Missouri National Recreational River: GSA Annual Meeting, Philadelphia, PA, Abstracts with Programs.

Amadi, F.O., and Holbrook, J., 2005, Morphological changes in an alluvial reach of the Missouri River Valley: 8<sup>th</sup> International Conference on Fluvial Sedimentology, Delft, The Netherlands, Abstracts with Programs.

Holbrook, J., Goble, R., Amadi, F., Nzewunwah, C., and Main, D., 2005, An integrated record for late Holocene climate in the northern U.S. Western Interior from strata of the lower Missouri River: Evidence for a regional climate shift at 3500 b.p.: GSA Annual Meeting, Salt Lake City, Utah, Abstracts with Programs.

Holbrook, J., Scott, R.W., and Oboh-Ikuenobe, F., 2005, Base-level buffers and buttresses: A model for fluvial preservation: 8<sup>th</sup> International Conference on Fluvial Sedimentology, Delft, The Netherlands, Abstracts with Programs.

Holbrook, J., Teeters, S., and Goble, R., 2005, River response as a potential paleoseismic tool: A New Madrid test: 8<sup>th</sup> International Conference on Fluvial Sedimentology, Delft, The Netherlands, Abstracts with Programs.

Holbrook, J., Lockley, M. G. and Kukihiro, R., 2005, Ankylosaur tracks from the Dakota Group (Cretaceous) Baca County, Colorado. Geological Society of America 57<sup>th</sup> Annual Meeting Rocky Mountain Section Abstracts with Programs, Vol. 37, No. 6, p. 36.

Jobe, Z., Kleim, G., Holbrook, J., Harrison, C.A., Smith M., Kani, M., Goswami, A., Blankenship, J., Gu, L. and Metzler, S., 2005, Using fluvial sedimentology to guide vegetation and shallow water habitat rehabilitation in the Big Muddy National Fish and Wildlife Refuge, Missouri: GSA Sectional Meeting, San Antonio, TX, Abstracts with Programs.

Kukihiro, R. Lockley, M. G., Holbrook, J., Schumacher, B., 2005, Abundant dinosaur tracksites from the mid Cretaceous Dakota Group provide a regional ichnofacies database in a high-resolution stratigraphic framework: Journal of Vertebrate Paleontology, 25: 81A.

Kukihara, R., Lockley, M. G., and Holbrook, J., 2005, A new look at the Cretaceous Dinosaur Freeway: evolving insights into paleoecology: International Symposium on dinosaurs and other vertebrates Paleoichnology, Fumanya-St. Corneliu (Cercs, Barcelona), Oct 4-8<sup>th</sup> 2005 p.56-57.

Main, D., Holbrook, J., Jobe, Z., Avdeev, B., and Caster, J., 2005, First record of late Pleistocene deposits from the Missouri River Valley, Norborne Quadrangle, MO: GSA Sectional Meeting, San Antonio, TX, Abstracts with Programs.

Scott, R.W., Benson, Jr. D.G., Evetts M.J., Oboh-Ikuenobe, F., and Holbrook, J., 2005, Age of the Albion-Cenomanian boundary: a dilemma. 7th International Symposium on the Cretaceous, Neuchâtel, Switzerland, Abstracts with Programs.

Stouthamer, E., Holbrook, J., Ten Broeke, E., Van Asch T., Kruse, G., and Berendsen, H.J.A., 2005, Reconstruction of Holocene compaction rates and its effects on alluvial architecture in the Rhine-Meuse Delta, The Netherlands: 8<sup>th</sup> International Conference on Fluvial Sedimentology, Delft, The Netherlands, Abstracts with Programs.

Amadi, F., Macklin, L., Holbrook, J., Pagan, S., and Dolde, J., 2004, Factors influencing morphological changes in an alluvial reach of the Missouri River Valley during the late Holocene: implications for river sensitivity to climate change: GSA South-Central Meeting, St Louis, Missouri.

Blevins, D., Finn, C., Jacobson, R., Kelly, B., Spooner, J., and Holbrook, J., 2004, Integrated investigations of ecological responses to rehabilitation at Overton Bottoms Missouri: Annual Missouri River Conference, Columbia Missouri.

Holbrook, J., 2004, Is climate the real "rainmaker" in fluvial lowstand deposition? A look at the concept of base-level buffers and buttresses and the comparative role of sea level and climate in architecturally complex "lowstand" fluvial sandstone: AAPG Annual Meeting, Dallas, TX.

Holbrook, J., 2004, An overview of tectonic effects on the Mississippi River by primary New Madrid faults: GSA South-Central Meeting, St Louis, Missouri

Holbrook, J., 2004, Detailed Surficial Geological Mapping of the Missouri River Valley: River Management Implications: Annual Missouri River Conference, Columbia, Missouri.

Holbrook, J., Autin, W.J., Marshak, S., and Rittenour, T., 2004, The enigma of long-term tectonic control on deposition yet low cumulative strain: Insights from Holocene fluvial strata in the active New Madrid seismic zone: AAPG Annual Meeting, Dallas, TX.

Macklin, L., Holbrook, J., Amadi, F., Dolde, J., and Pagan, S., 2004, A record of dynamic changes in morphology for the late Holocene Missouri River and habitat implications: GSA North-Central Meeting, St. Louis, Missouri.

Oboh-Ikuenobe, F.E., Evetts, M.J., Holbrook, J., Scott, R.W., Benson, D.G., Jr., 2004, Lateral biofacies changes in Mid-Cretaceous high-resolution sequences in the U.S. Western Interior (Abst.): American Association of Stratigraphic Palynologists, 2004 Annual Meeting.

Oboh-Ikuenobe, F.E., Scott, R.W., Holbrook, J., Evetts, M.J., Akins, S.L., and Benson, D.G., 2004, Models of epeiric seaway connections: Middle Cretaceous of the U.S. Western Interior: Geological Society of America, Abstracts with Programs, v.36 (3), p. 14.

Scott, R.W., Benson, D.G. Jr., Evetts, M.J., Oboh-Ikuenobe, F.E., and Holbrook, J., 2004, Age of the Albion-Cenomanian boundary: a dilemma: Abstracts of the 32nd International Geological Congress, Florence, Italy, p.338-339 (on C.D. Rom).

Holbrook, J. Oboh-Ikuenobe, F.E., 2003, Base-level buffers and buttresses as a proposed control on fluvial valley-fill geometry and facies: AAPG Annual Meeting, Salt Lake City, Utah.

Holbrook, J., Willis, B.J., and Bhattacharya, J., 2003, The evolution of allocyclic and autocyclic sedimentary concepts: AAPG Annual Meeting, Salt Lake City, Utah.

Scott, R.W., Holbrook, J., Oboh-Ikuenobe, F.E., Evetts, M.J., Benson, D.G., 2003, Cyclicity in paralic deposits, Mid-Cretaceous, U.S. Western Interior: AAPG Annual Meeting, Salt Lake City, Utah.

Holbrook, J., Autin, W., and Rittenour, T.M., Marshak, S., 2002, A Mississippi River record of millennial-scale punctuated displacement in the New Madrid seismic zone; implications for apparently placid faults: GSA Annual Meeting, Denver, Colorado.

Holbrook, J., 2002, The Hierarchy of Fluvial Scour Surfaces and the Many Potential Scales of Compartmentalization in Fluvial Reservoirs: Gulf Coast Section SEPM Research Conference, Dallas, Texas.

Holbrook, J., Scott, R.W.\*, Oboh-Ikuenobe, F., Evetts, M.J. and Akins, S., 2002, Sequence Stratigraphic and Paleoecologic Lowstand Model of Ephemeral Connections in Epeiric Seaways, U.S. Western Interior Cretaceous: AAPG Annual Meeting, Dallas, Texas.

Oboh-Ikuenobe, F.E., Evetts, M.J., Holbrook, J., Scott, R.W., and Benson, D.G. Jr., 2002, Lateral biofacies changes in Mid-Cretaceous high-resolution sequences in the U.S. Western Interior: Joint Meeting of the American Association of Stratigraphic Palynologists – British Micropalaeontological Society – North American Micropalaeontological Section of the SEPM, London, England.

Holbrook, J., 2001, Aspects of the relationship between sequence stratigraphy and allostratigraphy: A fluvial perspective: Sequence Stratigraphic and Allostratigraphic Principles and Concepts: AAPG Hedberg Research Conference, Dallas, Texas.

Holbrook, J., Autin, W., Teeters, S., Cox, C., Sneed, C., Perez, J., and Stevenson, E., 2001, Fluvial Sedimentology as a vehicle for assessing earthquake hazards: An overview of tectonic controls on Holocene fluvial sedimentation from the Mississippi River in the New Madrid Seismic Zone: 7<sup>th</sup> International Conference on Fluvial Sedimentology, Lincoln, Nebraska.

Holbrook, J., 2001, Sequence stratigraphy, allostratigraphy, and architectural-element analysis as a genetic continuum: An illustration from the Albian Muddy Sandstone, southeastern Colorado: AAPG Annual Meeting, Denver, Colorado.

Oboh-Ikuenobe, F.E., Holbrook, J., Evetts, M.J., and Scott, R.W., 2001, Palynofacies model of marine transgressions: Mid-Cretaceous flooding, Western Interior Seaway: American Association of Stratigraphic Palynologists Annual Meeting, San Antonio, Texas.

Teeters, S.R., Holbrook, J., Cox, C.A., Perez, J.A., 2001, Sedimentary constraints on the epicentral location and degree of deformation for the New Madrid 12/16/1811 dawn earthquake, and the role of splays in tectonically driven floodplain aggradation: AAPG Annual Meeting, Denver, Colorado.

Holbrook, J. and Autin, W.J., 2000, A chronology of middle and late Holocene tectonic control on the Mississippi River in the New Madrid seismic zone; sedimentary evidence for pre-2700 b.p. deformation and earthquakes on the Reelfoot fault and short-term tectonically driven cyclicity: GSA Annual Meeting, New Orleans, Louisiana.

Cox, C.A., and Holbrook, J., 2000, Testing the relationship between channel-fill type, sinuosity, and active tectonics in Mississippi River Holocene strata, New Madrid seismic zone: AAPG Annual Meeting, New Orleans, Louisiana.

Obi, G.C. and Holbrook, J., 2000, Campanian – Maastrichtian sequence Stratigraphy of the Anambra Basin, southern Nigeria: AAPG Annual Meeting, New Orleans, Louisiana.

El-Hussain, I., Holbrook, J., Sneed, C.L., 2000, Integrating geophysical and geological methods to delineate buried paleochannels in the New Madrid seismic zone of southeastern Missouri: SAGEEP Annual Meeting, Arlington, Virginia.

Holbrook, J. and Autin, W., 1999, Preliminary report for a newly identified and anomalously deformed site near Caruthersville, Missouri: A potential cite of recent deformation related to slip on the Cottonwood Grove fault: Seismological Society of America Eastern Section Annual Meeting, Memphis, Tennessee.

Holbrook, J., 1999, Intravalley cut-and-fill structures in Lower Cretaceous fluvial strata of Colorado and Kansas: A cause for compartmentalization in fluvial reservoirs: AAPG Mid-Continent Section Meeting, Wichita, Kansas.

Holbrook, J. and Cui, Y., 1999, Up-dip dispersion as a fluvial expression of landward evolution of sequence-bounding unconformities: [abst] AAPG Annual Meeting, San Antonio, Texas.

Kirkwood, S. and Holbrook, J., 1999, Significance of soil stratigraphy on liquefaction potential: Missouri Academy of Sciences Annual Meeting, Cape Girardeau.

Sneed, C.L., Holbrook, J., Cwick, G.J., and Autin, W.J., 1999, Lake County uplift: Tectonically induced meander shifts on the Mississippi River: Missouri Academy of Sciences Annual Meeting, Cape Girardeau, Missouri.

Holbrook, J., Odein, R., and Scott, R.W., 1998, Did the Albian/Cenomanian Mowry transgressive/regressive cycle connect the Tethyan and Boreal seas? AAPG Annual Meeting, Salt Lake City, Utah.

Holbrook, J., 1998, A previously missed possible connection between the Tethyan and Boreal seas of the U.S. Western Interior during Albian time: Missouri Academy of Sciences Annual Meeting, Springfield, Missouri.

Holbrook, J., Weichert, J., and Champlain, M.B., 1998, The importance of high school outreach and education in determining career choices among the physical and life sciences: GSA Annual Meeting, Toronto, Ontario.

- Stevenson, E. and Holbrook, J., 1998, Development of reliable techniques for interpretation of Landsat images to aid in mapping of Holocene Mississippi River meander belts and related sediments: Missouri Academy of Sciences Annual Meeting, St Joseph, Missouri. [Won second place in student competition]
- Tibbs, N.H., Buck, B.J., Holbrook, J., Lowell, G.R., 1998, Designing geoscience curricula to meet multiple needs: Missouri Academy of Science Annual Meeting.
- Holbrook, J., 1997, Fluvial valley filling during a transgression through multiple and sequential valley scale cut-and-fill events: Can compound valley-fills be generated independent of sea level fluctuations? AAPG Annual Meeting, Dallas, Texas.
- Holbrook, J., 1997, Recognizing the effects of subtle tectonics on the stratigraphic record: GSA Penrose Conference, Tectonics of Continental Interiors, Brian Head, Utah.
- Holbrook, J., 1997, Geology of the Missouri Bootheel region: Poplar Council Annual Meeting, Paducah, Kentucky.
- Weichert, J. and Holbrook, J., 1997, Depositional environment of an enigmatic valley-fill unit: Missouri Academy of Sciences Annual Meeting.
- Cui, Y., Holbrook, J., Ray, T., and Raghunath, M.D., 1996, Architectural-element analysis as a tool for modeling of upper Dakota Sandstone in central Kansas: Missouri Academy of Sciences Annual Meeting, Springfield, Missouri.
- Ellerbusch, M.R. and Holbrook, J., 1996, Geometric techniques for simulation of the Pennsylvanian Caseyville Formation, southern Illinois: Missouri Academy of Sciences Annual Meeting, Springfield, Missouri.
- Harszy, D. and Holbrook, J., 1996, The Thebes Sandstone of southeastern Missouri: A possible western source area: Missouri Academy of Sciences Annual Meeting, Springfield, Missouri.
- Holbrook, J., 1996, The case for preservation of intravalley-fill sequence boundaries: An example from the Muddy Sandstone of southeastern Colorado: Geological Society of America Annual Meeting, Denver, Colorado.
- Holbrook, J., 1996, Recognition of a sequence boundary within valley-fill strata of the Muddy Sandstone in southeastern Colorado: Missouri Academy of Sciences Annual Meeting, Springfield, Missouri.
- Holbrook, J. and Lawton, J., 1996, Recognizing the influence of subtle basement reactivation on the stratigraphic record: Lessons learned from the Cretaceous United States Western Interior: Geological Society of America Annual Meeting, Denver, Colorado.
- Holbrook, J., Ray, T., Cui, Y., Raghunath, M.D., 1996, Stochastic modeling of Dakota Sandstone (Rocktown Channel Member) in central Kansas using architectural-element analysis: American Association of Petroleum Geologists Annual Meeting, San Diego, California.
- Macfarlane, A.P., Doveton, J.H., Olea, R., Feldman, H., Holbrook, J., Ray, T., 1996, A multifaceted approach to the analysis of aquifer/aquitard unit distribution in the Dakota aquifer of Kansas: American Association of Petroleum Geologists Annual Meeting, San Diego, California.
- Ray, T., Holbrook, J., Cui, Y., and Raghunath, M.D., 1996, Stochastic modeling of Dakota Sandstone (Rocktown Channel Member) in central Kansas using architectural-element analysis: Numerical Experiments in Stratigraphy, An International Workshop, Lawrence, Kansas.
- Statler, P.N., Eifert, T.L., Holbrook, J., 1996, A possible new genus of Paleozoic large burrow trace in Mammoth Cave National Park: Evidence for Paleozoic large-burrow diversity: Geological Society of America Annual Meeting, Denver, Colorado.
- Valek, E.J. and Holbrook, J., 1996, Channel-fill types and their arrangement within valley-fill strata, Lower Cretaceous Muddy Sandstone of southeastern Colorado: Geological Society of America Annual Meeting, Denver, Colorado.
- Holbrook, J., 1995, You can't keep a good structure down: Recurrent subtle uplift of Sierra Grande basement structure in northeastern New Mexico: Geological Society of America Annual Meeting, New Orleans, Louisiana.
- Eifert, T.L., Statler, P.N., and Holbrook, J., 1995, Unusually large Mississippian burrow structures in mammoth Cave National Park: Enlargement by chertification or preservation of original size? Geological Society of America Annual Meeting, New Orleans, Louisiana.

- Eifert, T.L. and Holbrook, J., 1995, Evidence for unusually large burrow structures in Mammoth Cave National Park: Mammoth Cave National Parks Fourth Science Conference.
- Eifert, T. L., Warren, M. R., Holbrook, J., 1994, Evidence for unusually large burrow structures in Mammoth Cave National Park: Missouri Academy of Sciences, Annual Meeting in Cape Girardeau, Missouri.
- Holbrook, J., Tibbs, N.H., Lowell, G.R., Snowden, J.O., 1994, The Early Research Apprenticeship (ERA) at Southeast Missouri State University: A program for stimulating undergraduate research participation: Geological Society of America Annual Meeting, Seattle, Washington.
- Holbrook, J., 1994, Regional correlation and unified depositional model for Lower Cretaceous (Albian) strata throughout the southern High Plains of southeastern Colorado and northeastern/east-central New Mexico: Water and energy resources of the Dakota Aquifer: Workshop and clinic, Great Bend, Kansas.
- Holbrook, J. and White, D.W., 1994, Effects of low-amplitude intraplate welt structures on Early Cretaceous deposition in the southern United States Western Interior: Analogies with the modern: Missouri Academy of Sciences Annual Meeting, Cape Girardeau, Missouri, Geology/Geophysics section, p. 7.
- Holbrook, J. and White, D.W., 1994, Controls on Lower Cretaceous lithofacies distribution and sequence architecture by intraplate uplift on the Sierra Grande basement structure in northeastern New Mexico: American Association of Petroleum Geologists Annual Meeting, Denver, Colorado.
- Holbrook, J., 1994, Low-amplitude welts raised throughout the Aptian/Albian U.S. Western Interior as the dispersed deformational response of a shattered plate to regionally consistent intraplate stress: 11th International Conference on Basement Tectonics, Potsdam, Germany.
- White, D.C. and Holbrook, J., 1994, Preserved perturbation of Albian channel sinuosity resulting from Sierra Grande basement uplift: Missouri Academy of Sciences Annual Meeting, Cape Girardeau, Missouri, Geology/Geophysics section.
- Holbrook, J., 1993, Evidence for and potential tectonic origin of regional intraplate deformation throughout the Early Cretaceous United States Western Interior: Geological Society of America Annual Meeting, Boston, Massachusetts.
- Holbrook, J., 1993, Influence of Early Cretaceous intraplate uplift on distribution of Lower Cretaceous valley-fill sandstone and regional sequence-boundary morphology in southeastern Colorado: Annual Meeting, American Association of Petroleum Geologists Abstracts with Programs.
- Holbrook, J., 1992, Fluvial architecture of Mesa Rica Sandstone in northeastern New Mexico: Implications for smooth sequence-boundary morphology, and evidence for stable base-level conditions: Annual Theme Meeting, Society for Sedimentary Geology, Ft Collins, Colorado.
- Lockley, M., Hunt, A., Holbrook, J., 1992, Measuring time and distance on the Dinosaur Freeway: Sequence stratigraphy and biostratigraphy of the Cretaceous Dakota Group, Colorado, New Mexico, and Oklahoma: Annual Theme Meeting, Society of Sedimentary Geology, Ft Collins, Colorado.
- Holbrook, J., 1991, Sequence-stratigraphic interrelationship of Lower Cretaceous Dakota and Purgatoire formations in northeastern New Mexico/southeastern Colorado and correlative strata (Muddy, Skull Creek, Plainview) of the Denver Basin: Annual Meeting, American Association of Petroleum Geologists.
- Molenaar, C.M., Cobban, W.A., Franczyk, K.J., Pillmore, C.L., Zech, R.S., Kauffman, E.G., Holbrook, J., and Wolfe, D.G., 1991, Regional stratigraphic relationships across the southern segment of the Western Interior Basin: Annual Meeting, American Association of Petroleum Geologists.
- Pavlis, T.L., Myers, R.D., Pavlis, G.L., Holbrook, J., Hamburger, M.W., Lukk, A.A., and Yunga, S.L., 1991, Transpressional tectonics in the Peter the First Range, Soviet Tajikistan: Fall Meeting, American Geophysical Union.
- Holbrook, J., 1990, The development of fluvial sheet sandstones in response to downstream widening of paleovalleys in the Dakota Sandstone of northeast New Mexico and southeast Colorado: Annual Meeting, Geological Society of America.

Wright-Dunbar, R., Lucas, S.G., Holbrook, J., 1990, Reference sections and sequence stratigraphic model: Albian to Turonian strata of northeastern New Mexico and Oklahoma panhandle: Rocky Mountain Section Meeting, American Association of Petroleum Geologists.

Holbrook, J., and Wright, R., 1987, New observations concerning the Jurassic-Cretaceous boundary in east-central New Mexico: Annual Spring Meeting, New Mexico Geological Society.

Wright, R., Kisucky, M.J., and Holbrook, J., 1987, Albian transgression in east-central New Mexico: Sedimentary response to eustasy and local tectonism: Annual Meeting, Geological Society of America.

***Non-refereed Publications and unpublished reports***

Holbrook, J., 2018, Expert Report of Site Geology Westlake Chemical Facility, Calvert City, Kentucky, Jams No.: 1100087719, 258p.

Holbrook, J., 2012, The Future of Geothermal Energy from Sedimentary Basins: NSF Report for internal and public dissemination, June 2012.

Holbrook, J. and Hull, M., 2012, Modern high-accommodation fluvial research, Grijalva Delta: Expert report of research finding for Woodside Petroleum, Perth, Australia

Holbrook, J., 2011, GSA Sedimentary Geology Spring Newsletter: SEPM Sedimentary Record, March, 2011

Holbrook, J., 2011, GSA Sedimentary Geology Fall Newsletter: SEPM Sedimentary Record, August, 2011

Holbrook, J., 2010, Expert environmental report.

Holbrook, J., 2010, Belt Dimensions and Connectivity, Ft Union Formation, WY, Noble Energy, Denver Office

Holbrook, J., 2009, Expert environmental report

Holbrook, J., 2009, Final Report of results on Mungaroo reservoir heterogeneity project, Woodside Petroleum

Holbrook, J., 2008, Expert testimony for City Council of Flower Mound regarding stability of streams and actions to mitigate erosion

Holbrook, J. and Stoner, S., 2007, Some general observations from cores Pluto 2 and Pluto 3: Consulting report for Woodside Petroleum, Perth, 46p.

Holbrook, J., Bondy, A., Ghumire, M., 2006, Report on Findings for Streams at Mesquite Property: Consulting report for Goodman and Associates

Holbrook, J., and Paola, C., 2005, Addressing future directions in sedimentary geology: A word about ForSed: The Sedimentary Record, v.3, no.4, p.10.

Holbrook, J., and Kliem, G., 2005, Assessment of developing stream conditions and eventual stable slope for the stream transecting Warmington meadows: Consulting report for Goodman and Associates

Holbrook, J., 2004, Predicting permeability distribution in fluvial sandstone reservoirs: Offshore, v.64, no.9, p.117-121.

Postma, G. and Holbrook, J., 2003, Fluvial Sequence stratigraphy: Does it work? Shell Oil internal publication.

Holbrook, J., 1999, SEPM Mid-Continent Section Newsletter, editor.

Holbrook, J., 1997, Jobs in the sciences: SEPMnews, v.19, no.3, p.2.

Holbrook, J., 1991, Large fossil burrows in Mammoth Cave National Park: Cave Research Foundation Newsletter, volume 19, number 2, p 5.

Lucas, S.G., Hunt, A.P., Kues, B.S., and Holbrook, J., 1987, First-day road log, from Clayton to Seneca, Moses, Mexhoma, Kenton, Wedding Cake Butte, Travesser Park and back to Clayton: New Mexico Geological Society, Guidebook, 38th, p. 1-22.

Lucas, S.G., Hunt, A.P., Kues, B.S., Trauger, F.D., and Holbrook, J., 1987, Second-day road log, from Clayton to Miera, Bueyerous, Mosquero, Roy, Yates, and back to Clayton: New Mexico Geological Society, Guidebook, 38th, p. 23-40.