

Robert G. Loucks

Professional Summary

September 20, 2020

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Professional Preparation

Academic Background

Ph.D. Geology, The University of Texas at Austin, 1976
B.A. Geology, State University of New York at Binghamton, 1967
A.A. Math and Science, Onondaga Community College, 1964

Professional Appointments

Senior Research Scientist, Principal Investigator, RCRL, Bureau of Economic Geology, The University of Texas at Austin (July 2008-Present)

Senior Research Scientist, Principal Investigator, Deep Shelf Gas, Bureau of Economic Geology, The University of Texas at Austin (July 2006-July 2015)

Senior Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (July 2000-2008)

Principal Investigator, State Lands Project

Senior Research Advisor in Reservoir Characterization Group, ARCO Research and Development, Plano, Texas (October 1990 - July 2000). Technical specialist and project leader on a number of carbonate field-development projects worldwide.

Research Advisor in Exploration Technology Group, ARCO Research and Development, Plano, Texas (January 1990 - October 1990). Technical specialist and project leader on exploration technical service projects and research. Research projects included (1) developing principles of carbonate sequence stratigraphy and application to seismic data and (2) characterization of collapsed-paleocave exploration targets and developing exploration strategy for these reservoirs.

Director of Carbonate Depositional Systems and Diagenesis Analysis Group, ARCO Research and Development, Plano, Texas (January 1988 - January 1990). Managed a group of 10 geologists conducting research and technical services on carbonate systems, including work on sequence stratigraphy, exploration methods, and reservoir quality prediction.

Director of Basin Evaluation Group, ARCO Research and Development, Plano, Texas (March 1987 - January 1988). Managed a group of 15 geologists and statisticians conducting technical service projects on siliciclastic and carbonate regional studies, reservoir quality prediction, and risk analysis.

Senior Geologist with promotion to Research Advisor, ARCO Research and Development, Plano, Texas (August 1983 - March 1987). Conducted research and technical service projects on carbonate depositional systems and reservoir quality prediction.

Senior Research Geologist and Stratigraphy Research Group Manager, Cities Service Research

Lab, Tulsa, Oklahoma (April 1981 - August 1983). Research on modern and ancient carbonate and evaporite depositional systems and carbonate and clastic diagenesis.

Research Geologist, Mobil Research Lab, Tulsa, Oklahoma (July 1980 - April 1981). Conducted research on the origin and preservation of porosity in deeply buried sandstone strata.

Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (November 1975 - July 1980). Research included problems on carbonate and terrigenous depositional systems and diagenesis.

Teaching and Research Assistant, The University of Texas at Austin (January 1972 - November 1975). Teaching and Research Assistant.

Petroleum Geologist, Texaco, Inc., Midland, Texas (June 1968 - January 1972). Petroleum Geologist.

United States Marine Corps, First Lieutenant, 1970 - 1976; Honorable discharge.

Professional Registrations and Certificates

Texas Board of Professional Geoscientists #1143

Dissertations

Pearsall Formation, Lower Cretaceous, south Texas-Depositional facies and carbonate diagenesis and their relationship to porosity: Ph.D. dissertation, The University of Texas at Austin, Austin, TX, 1976, 362 p

Areas of Expertise

Areas of Expertise

Carbonate and siliciclastic diagenesis and pore networks

Carbonate and siliciclastic sedimentology/stratigraphy

Mudrock depositional systems, reservoir characterizations, diagenesis, and pore network

Reservoir characterization

Awards

Awards and Honorary Societies

GCAGS Journal President's Award, 2014-Present

Best Poster Award at the 2016 Houston Geological Society's Applied Geoscience Conference, "Integrated Approaches of Unconventional Reservoir Assessment and Optimization." Presentation title: "Tying Core Descriptions and Optical Petrography with XRF Geochemical Data for a Detailed Characterization of the Mississippian Barnett Formation in the Southern Fort Worth Basin of North-Central Texas." Coauthors Lauren Redmond and Harry Rowe.

Second Place, Thomas A. Philpott Excellence of Presentation Award for paper "Eagle Ford--A depositional setting and processes in southwest Texas: an example of deeper-water, below-storm-wave-base carbonate sedimentation on a drowned shelf" presented at the 2018 GCAGS Convention in Shreveport, La., 2019

Second Place, Thomas A. Philpott Excellence of Presentation Award for the paper "Regional variation in composition, diagenesis, and reservoir quality of onshore Jurassic Cotton Valley sandstones, northern Gulf of Mexico" presented at the 2017 GCAGS Convention in San Antonio, Tex., 2018

Best Poster Award HGS Mudrocks AGC: Comparison of Pore Evolution in the Barnett, Eagle Ford (Boquillas), and Woodford Shales with Regard to Thermal Maturation by Gold-Tube Pyrolysis, 2015

President's Award for Outstanding Paper in the GCAGS Journal (vol. 4): Factors controlling permeability variation in onshore, deep Paleogene Wilcox sandstones in the northern Gulf of Mexico basin: targeting high-quality reservoirs (co-authors Shirley P. Dutton and William A. Ambrose), 2015

AAPG Robert R. Berg Outstanding Research Award, 2014

First Place, President's Award for Outstanding Paper in 2013 GCAGS Journal (v. 3, p. 1-10). F. Jerry Lucia and Robert G. Loucks, Micropores in carbonate mud: early development and petrophysics., 2014

Loucks, R. G., and Reed, R. M., 2014, Scanning-electron-microscope petrographic evidence for distinguishing organic-matter pores associated with depositional organic matter versus migrated organic matter in mudrocks: First Place President's Award for Outstanding Paper published in Volume 3 of the GCAGS Journal, 2014

Loucks, R. G., Rowe, H. D., and Frébourg, G., 2014, Origin and analysis of the nano/micropore network in the upper Cretaceous Ozan and Annona Chalks in the Caddo/Pine Island field in Northwest Louisiana (abs.): Top Ten Oral Presentation, 2014 American Association of Petroleum Geologists Annual Convention and Exhibition, Houston, Texas, April 6-9, 2014

President's Award for Outstanding Paper in the GCAGS Journal: "Scanning-electron-microscope petrographic evidence for distinguishing organic-matter pores associated with depositional organic matter versus migrated organic matter in mudrock" (co-author Robert Reed), 2014

Scanning-electron-microscope petrographic evidence for distinguishing organic-matter pores associated with depositional organic matter versus migrated organic matter in mudrocks: First Place President's Award for Outstanding Paper published in Volume 3 of the GCAGS Journal, 2014

Karst Waters Institute 2014 KWI Karst Award, 2014

Top Ten Poster Presentation, AAPG Annual Convention, Long Beach, California, for "Origin and Distribution of Microrhombic Calcite and Associated Micropores in the Lower Cretaceous Stuart City Tight-Gas-Carbonate Play in South Texas", 2012

Award of Excellence "Top 10" Oral Presentation for presentation of "Spectrum of Pore Types in Siliceous Mudstones in Shale-Gas Systems," AAPG Annual Convention, Houston, April, 2011

President's Certificate for Excellence in Presentation (Best Oral Presentation), AAPG Energy Minerals Division (EMD), 2011

A. I. Levorsen Award for Best Paper presented at Gulf Coast Section, GCSSEPM/GCAGS Annual Meeting, "Preliminary Classification of Matrix Pores in Mudrocks", 2010

Grover E. Murray Best Published Paper Award for Third-Place Paper published in GCAGS Transactions, "Preliminary Classification of Matrix Pores in Mudrocks", 2010

Third Place, Thomas A. Philpott Excellence of Presentation Award, Gulf Coast Association of Geological Societies (GCAGS), 60th Annual Convention, San Antonio, Texas, 2010

Wallace E. Pratt Award for best AAPG Bulletin article published in calendar year 2009, 2010

First Place, Thomas A. Philpott Excellence of Presentation Award, Gulf Coast Association of Geological Societies (GCAGS), 59th Annual Convention, Shreveport, Louisiana, 2009

EMD's President's Certificate for Excellence in Presentation, AAPG Annual Convention, for "Shell and Grain Layers in the Barnett Shale: Event Deposition or in-situ Accumulations?", 2008

Honorable Mention, Best Poster Paper Presented at the SEG 2007 Annual Meeting for paper titled "Linear Amplitude Patterns in Corpus Christi Bay Frio Subbasin, South Texas", 2008

Jackson School of Geosciences Outstanding Research Award, 2008

Co-Author, Second Place, Thomas A. Philpott Excellence of Presentation Award for "All Fill--No Spill: Slope-Fan Sand Bodies in Growth-Faulted Subbasins: Oligocene Frio Formation, South Texas Gulf Coast", 2007

EMD Best Poster Award (with Robert Reed) Annual Meeting of the American Association of Petroleum Geologists, 2007

Gordon Atwater Best Poster Award for "Seismic Sedimentological Expression of Higher-Order Lowstand Slope Fans and Prograding Deltas in the Frio Formation, Corpus Christi Bay, Texas," which was presented at the GCAGS/GCSSEPM Convention in Corpus Christi, 2007

Permian Basin Section of SEPM Honorary Life Member Award, 2007

A. I. Levorsen Memorial Award, Southwest Section, American Association of Petroleum Geologists, 2006

Third Place, GCAGS Gordon I. Atwater Best Poster Award for Isochronous Correlation of Sandstone Facies within and between Growth-Faulted Frio Intraslope Sub-Basins: Common Correlation Pitfalls, 2004

Second Place, Gordon I. Atwater Best Poster Award, Gulf Coast Association of Geological Societies, 2003

Third Place, Gordon I. Atwater Best Poster Award, Gulf Coast Association of Geological Societies, 2003

Honorary Research Fellow, School of Geological Science, Kingston University, Kingston upon Thames, Surrey, UK, 1997 - 2001

Second Place, Thomas A. Philpott Excellence in Presentation, Gulf Coast Association of Geological Societies, 2001

Wallace E. Pratt Memorial Award for Best Paper in the 1999 AAPG Bulletin at the 2001 Annual AAPG Convention, 2001

Wallace E. Pratt Memorial Award for Best Paper in the 1999 AAPG Bulletin at the 2001 Annual AAPG Convention, 2001

MidEast AAPG Dean A. McGee International Distinguished Lecturer, 1999

SEPM Excellence of Poster Presentation, Honorable Mention, AAPG/SEPM Annual Meeting, San Diego, 1996

SEPM Excellence of Poster Presentation Award, AAPG/SEPM Annual Meeting, Dallas, 1990 - 1991

SEPM Excellence of Poster Presentation, Honorable Mention, AAPG/SEPM Annual Meeting, Dallas, 1990 - 1991

ARCO representative to Academy of Sciences, USSR, 1990

SEPM Excellence of Presentation, Honorable Mention, AAPG/SEPM Annual Meeting, San Francisco, 1990

ARCO Technical Achievement Awards for Research in Carbonate Stratigraphic Trap and Predrill Reservoir Quality Prediction, 1984 - 1985

SEPM Excellence of Presentation Award, AAPG/SEPM Annual Meeting, Calgary, 1982

Phillips Petroleum Company Fellowship, 1974 - 1975

Outstanding Graduate Student Award, The University of Texas at Austin, presented by the Houston Geological Society, 1975

Service

External Committees Participation

Secretary, Foundation Committee, SEPM (Society for Sedimentary Geologists), 2001 - present

Member, Research Committee, SEPM (Society for Sedimentary Geologists), 1997 - present

Liaison, Research Committee, American Association of Petroleum Geologists, 1996 - present

Liaison, Research Committee, SEPM (Society for Sedimentary Geologists), 1996 - present

Member, Research Committee, American Association of Petroleum Geologists, 1993 - present

Member, Sandstone Diagenesis Subcommittee, SEPM (Society for Sedimentary Geologists), 1979 - present

Member, Carbonate Rock Subcommittee, SEPM (Society for Sedimentary Geologists), 1975 - present

Co-Chair, Oral Session: Mudrock Diagenesis, AAPG 2015 Annual Convention, Denver, CO, 2015

Session Chair, Pore Systems, Permeability and Flow in Carbonate Reservoirs, SEPM/AAPG Annual Convention and Exhibition, Houston, Texas, , Houston, Texas, April, 2014

Co-chair, New Technologies and their Application in Deep and Unconventional Hydrocarbons, Tatier Conference: International Symposium on Theoretical Advancement and Technology Innovation for Emerging Energy Resources, Beijing, ChinaApril, 2013

Co-Chair, Oral Session: Integrated Sequence Stratigraphic, Diagenetic, and Reservoir Architectural Analysis of Cretaceous Carbonates, Gulf of Mexico Basin, 2011 GCAGS Convention, San Antonio, 2011

Associate Editor, American Association of Petroleum Geologists, 2007 - 2011

Co-Chair, Oral Session: From Reservoir to Pores and Volumes I (EMD/AAPG), 2010 American Association of Petroleum Geologists Annual Convention, New OrleansApril 11,, 2010

Member, Karst from Recent Reservoirs Symposium Conference Committee, Karst Waters Institute, June, 2008

Co-Chair, Geology of Shale/Mudrock Reservoir Systems Poster Session, 2008 American Association of Petroleum Geologists Annual Convention, San Antonio, April, 2008

Chair, Building CRC 131 Space Allocation Committee, Bureau of Economic Geology, 2007

Member, Graduate Studies Committee, Jackson School of Geosciences, 2007

Co-Chair, Program Advisory Committee--Reservoir Characterization: Integrating Technology and Business Practices, 26th Annual GCSSEPM Foundation Bob F. Perkins Research Conference, 2006

Co-Chair, Session III--Integrated Characterization of Mature Fields, 26th Annual GCSSEPM Foundation Bob F. Perkins Research Conference, 2006

Co-Chair, technical session, Reservoir Characterization and Modeling: Modeling Karstified Reservoirs, American Association of Petroleum Geologists Annual Convention, Houston, Texas, 2006

Past-President, Gulf Coast Section, Society of Economic Paleontologists and Mineralogists, 2006

President, Gulf Coast Section, Society of Economic Paleontologists and Mineralogists, 2005

Co-Convenor, American Association of Petroleum Geologists Hedberg Conference, 2004

President-Elect, Gulf Coast Section-Society of Economic Paleontologists and Mineralogists, 2004

Chairman, Contribution Committee, Gulf Coast Association of Geological Societies 52nd Annual Convention, Austin, Texas, October, 2002

Session Co-Chairman, Reservoir quality in Gulf of Mexico siliciclastic and carbonate strata, Gulf Coast Association of Geological Societies 52nd Annual Convention, Austin, Texas, October, 2002

Member, Editorial Board, American Association of Petroleum Geologists Bulletin, 2002

Member, Promotions Advisory Committee, Bureau of Economic Geology, Austin, Texas, 2002

Session Co-Chairman, A new look at old fields: examples of reworked fields yielding significant new reserves, American Association of Petroleum Geologists Annual Convention, 2002

Alternate Delegate, representing Austin Geological Society, American Association of Petroleum Geologists, 2001

Organizer and Co-Chair, Classic and Carbonate Depositional Systems, Session, American Association of Petroleum Geologists/Society of Economic Paleontologists and Mineralogists Meeting, San Antonio, Texas, 1999

Initiator, organizer, and co-chair, Tertiary to Recent Larger Foraminifera: Their Depositional Environments and Importance as Petroleum Reservoirs, research conference and field trip, Kingston University, London and Tunisia, Spring, 1998

Member, Nomination Committee, SEPM (Society for Sedimentary Geologists), 1997

Member, Policy Committee, SEPM (Society for Sedimentary Geologists), 1995 - 1997

Session Chair, Carbonate Reservoir of the World, American Association of Petroleum Geologists Hedberg Conference, Pau, France, Fall, 1996

Organizer, Petroleum Systems, AAPG/AMGP Joint International Research Conference, Mexico, September, 1994

Member, New Programs Committee, SEPM (Society for Sedimentary Geologists), 1991 - 1993

Organizer and Co-Chair, Deep-burial diagenetic microfabrics, Carbonate Microfabrics Symposium and Workshop, Texas A&M, 1990

Liaison, Research Committee, American Association of Petroleum Geologists, 1987 - 1990

Liaison, Research Committee, SEPM (Society for Sedimentary Geologists), 1987 - 1990

Member, Research Committee, American Association of Petroleum Geologists, 1987 - 1990

Member, Research Committee, SEPM (Society for Sedimentary Geologists), 1986 - 1990

Treasurer, Mid-Continent Section, SEPM (Society for Sedimentary Geologists), 1987 - 1989

Member, Gulf Coast Section, Grant Review Board, SEPM (Society for Sedimentary Geologists), 1984 - 1987

Chairman, Carbonate Rock Slide-Set Committee, SEPM (Society for Sedimentary Geologists), 1981 - 1985

Member, Ad Hoc Committee, Founding Committee of the Mid-Continent Section, SEPM (Society for Sedimentary Geologists), 1982 - 1983

Chairman, Carbonate Rock Sub-Committee, SEPM (Society for Sedimentary Geologists), 1981

Co-Chair, Carbonate Rock Sub-Committee, SEPM (Society for Sedimentary Geologists), 1980

Treasurer, Austin Geological Society, 1979 - 1980

Secretary, Austin Geological Society, 1978 - 1979

Proposal Review Panels Participation

American Association of Petroleum Geologists (Article), 2007
Journal of Sedimentary Research (Article), 2007
American Association of Petroleum Geologists (Article), 2006
Journal of Sedimentary Research (Article), 2006
American Association of Petroleum Geologists (Article), 2005
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Journal of Sedimentary Research (Article), 1991
American Association of Petroleum Geologists (Article), 1990
Journal of Sedimentary Research (Article), 1990

Teaching and Advising

University Courses Taught

Mudrocks (GEO 391): presented at Department of Geological Sciences, The University of Texas at Austin, August-December 2015.

Mudrocks (GEO 391): presented at Department of Geological Sciences, The University of Texas at Austin, August-December 2014.

Geology 391: Advanced Reservoir Geology: Clastics: Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, February 2005.

Geology 383: Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, October 2003.

Origin of Ordovician brecciated and fractured reservoirs: paleocave, thermobaric, tectonic, or all the above?: presented at BEG Colloquium, Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas, September 2003.

Geology 391: Advanced Reservoir Geology: Clastics: Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, February 2003.

Carbonate depositional systems graduate course: The University of Texas at Austin, 1980.

Continuing Education Courses Taught

Using sequence stratigraphic wireline-log analysis to develop stratigraphic architecture in growth-faulted basins: practical application to the South Texas offshore Frio section: presented at Gulf Coast Association of Geological Societies Annual Convention, GCSSEPM Short Course #4 (with Frank Brown), San Antonio, Texas, October 10, 2004.

Paleocave reservoirs: origins, burial-depth modifications, spatial complexity, and reservoir implications: Southwest Section of AAPG annual full-day seminar, 2002.

Presenter, One-Day Short Course, Exploration of Paleocave Reservoirs: Permian Basin Graduate Center, 1996.

Organizer and co-teacher, Course on carbonate geology for engineers: ARCO, 1995.

Organizer and co-teacher, Course on carbonate geology for engineers: ARCO, 1993.

Carbonate seismic sequence stratigraphy short course: Society of Economic Geophysicists Annual Meeting, 1992.

Organizer and co-teacher, Course on carbonate geology for engineers: ARCO, 1991.

Organizer and co-teacher, Course on Reservoir Quality Prediction in Sandstones and Carbonates: ARCO, 1990.

Organizer and co-teacher, Course on carbonate sequence stratigraphy: ARCO, 1989.

Organizer and co-teacher, Course on Reservoir Quality Prediction in Sandstones and Carbonates: ARCO, 1989.

Organizer and co-teacher, Course on carbonate sequence stratigraphy: ARCO, 1988.

Organizer and co-teacher, Course on Reservoir Quality Prediction in Sandstones and Carbonates: ARCO, 1988.

Organizer and co-teacher, Course on carbonate sequence stratigraphy: ARCO, 1987.

Organizer and co-teacher, Course on Reservoir Quality Prediction in Sandstones and Carbonates: ARCO, 1987.

Organizer and co-teacher, Course on Carbonate Exploration and Production: ARCO, 1986.

Organizer and co-teacher, Course on Reservoir Quality Prediction in Sandstones and Carbonates: ARCO, 1986.

AAPG Carbonate Exploration School. Served as an instructor: 1985.

Organizer and co-teacher, Course on Carbonate Exploration and Production: ARCO, 1985.

Organizer and co-teacher, Course on Reservoir Quality Prediction in Sandstones and Carbonates: ARCO, 1985.

AAPG Carbonate Exploration School. Served as an instructor: 1984.

Organizer and co-teacher, Course on Carbonate Exploration and Production: ARCO, 1984.

AAPG Carbonate Exploration School. Served as an instructor: 1983.

AAPG Carbonate Exploration School. Served as an instructor: 1982.

AAPG Carbonate Exploration School. Served as an instructor: 1981.

AAPG Carbonate Exploration School. Served as an instructor: 1980.

AAPG Carbonate Exploration School. Served as an instructor: 1979.

Field Trips Leadership

Leader, Fractures, faults, and karst caverns: architecture of the non-matrix reservoir elements, Longhorn Caverns, Texas, Mountjoy Carbonate Research Conference, Marble Falls, Texas, June 27, 2017.

Field trip leader, Evaporite paleokarst; karst models for evaporite dissolution without clastic input, Lower Cretaceous Edwards Group, Junction, Texas, Austin Geological Society, Junction, Texas, December 13, 2014.

Field-Trip Leader, Controls on rock heterogeneity in quarries in the Marble Falls/Burnet area: Texas Section Summer Meeting of the Association of Environmental and Engineering Geologists, Marble Falls, Texas, July 18, 2009.

Co-Leader, Paleozoic reservoir systems: Texas Hill Country--stratigraphy to petrophysics: sponsored by ConocoPhillips and Core Laboratories, Austin, Texas, June 2007.

Co-Leader, Paleozoic reservoir systems: Texas Hill Country--stratigraphy to petrophysics: sponsored by SPWLA, Austin, Texas, June 2007.

Co-Leader, Outcrop analogs for Paleozoic reservoir systems: examples from the Texas Hill Country: Annual Meeting of the Permian Basin Geological Synthesis, Austin, Texas, April 2007.

Co-Leader, Decision Makers Field Trip: Gulf Coast, Texas, September 2006.

Co-Leader, 2-week field trip through Texas: Geologist Association of London, September 1999.

Developed and taught modern field seminar in the Turks and Caicos: Permian Basin Section of SEPM, 1998.

Organizer and Leader, Field Trip: Architecture of Paleocave Reservoirs in Central Texas: AAPG/SEPM Annual Meeting, March 1997.

Organizer and Leader, Field Trip: Architecture of Paleocave Reservoirs in Central Texas: Permian Basin Section of SEPM, September 1995.

Organizer and co-teacher, Field trip on modern paleocaves and their application to paleocave reservoirs: ARCO, 1993.

Organizer and co-teacher, Field trip on modern paleocaves and their application to paleocave reservoirs: ARCO, 1992.

Developed and taught modern field seminar in the Turks and Caicos: ARCO, 1991.

Organizer and co-teacher, Field trip on modern paleocaves and their application to paleocave reservoirs: ARCO, 1991.

Developed and taught modern field seminar in the Turks and Caicos: ARCO, 1990.

Organizer and co-teacher, Field trip on modern paleocaves and their application to paleocave reservoirs: ARCO, 1990.

Developed and taught modern field seminar in the Turks and Caicos: ARCO, 1989.

Developed and taught modern field seminar in the Turks and Caicos: ARCO, 1988.

Developed and taught modern field seminar in Bahamas, Belize, and Cancun: ARCO, 1987.

Developed and taught modern field seminar in Bahamas, Belize, and Cancun: AAPG, 1986.

Taught modern field seminar in Cancun, Mexico: ARCO, 1984.

Taught modern field seminar in Bahamas and Belize: Cities Service Corp., 1983.

Taught modern field seminar in Bahamas and Belize: Cities Service Corp., 1982.

Developed and taught modern field seminars in Bahamas, Barbados, and Belize: Cities Service Corp., 1981.

Student Committee Supervision

Supervisor, MS thesis, Chris Hendricks, Chemolithostratigraphy of the Upper Cretaceous Buda Formation and Austin Chalk Group, central and south Texas: lithofacies constraints from geochemical data integration, The University of Texas at Austin, 2017

Supervisor, MS thesis, Peter Soto-Kerans, Lower Cretaceous Albian Platform mixed carbonate/siliciclastic strata of the Upper Glen Rose D Member in the East Texas Houston Trough intrashelf basin: regional setting, depositional systems, and lithofacies, The University of Texas at Austin, 2017

Supervisor, PhD dissertation, Lucy Ko, The University of Texas at Austin, 2017

MS thesis, Chris Liu, 2016

MS thesis, Christ Hendricks, 2016

MS thesis, Kyle McKenzie, 2016

MS thesis, Ningjie Hu, 2016

Supervisor, MS Thesis, Lauren Redmond, 2016

Co-Supervisor, M.S., Thesis, Chris Liu, The University of Texas at Austin, 2015

Co-Supervisor, M.S., Thesis, Katy Fry, The University of Texas at Austin, 2015

Co-Supervisor, M.S., Thesis, Xufeng Liu, The University of Texas at Austin, 2014

Co-Supervisor, M.S., Thesis, Stephanie Wood, The University of Texas at Austin, 2013

Co-Supervisor, M.S. Thesis Committee, David Hull, The University of Texas at Austin, completed, 2011

Co-Supervisor, M.S. Thesis Committee, Enzo Aconcha, Integrating core, well logs and seismic interpretation to improve our understanding of Albian patch reefs, Maverick Basin, SW Texas: The University of Texas at Austin, 2007

Co-Chairman, M.S. Thesis Committee, Luis Crespo, The University of Texas at Austin, Austin, Texas, completed, 2006

Co-Chairman, M.S. Thesis Committee, Brian Moore, The University of Texas at Austin, Austin, Texas, completed, 2005

Co-Chairman, M.S. Thesis Committee, Deanna Combs, The University of Texas at Austin, Austin, Texas, -2003, 2002

Co-Chairman, M.S. Thesis Committee, Songul Yildiz, The University of Texas at Austin, Austin, Texas, completed, 2002

Co-Supervisor, Ph.D. Dissertation Committee, Xiupeng Li, Seismic sedimentology in Maverick Basin, South Texas: China University of PetroleumQingdao, China, 2007, completed, 2009

Student Committee Participation

Member, M.S., Thesis, Jeff Sitgreaves, The University of Texas at Austin, 2015

Member, M.S., Thesis, Toyly Abdullayev, The University of Texas at the Permian Basin, 2012

Member, M.S. Thesis Committee, Rachel Rasher, The University of Texas at Austin, completed, 2011

Member, Ph.D. Dissertation Committee, Ryan Phelps, The University of Texas at Austin, Completed, 2011

Member, M.S., Thesis, Hames Hoelke, The University of Texas at Arlington, 2010

Member, Ph.D. Dissertation Committee, Carolina Gomez, The University of Texas at Austin, Austin, Texas, 2010

Member, Ph.D. Dissertation Committee, Jerome Bellian, The University of Texas at Austin, Austin, Texas, 2010

Member, M.S. Thesis Committee, Chris Edwards, The University of Texas at Austin, Austin, Texas, completed, 2002

Member, Ph.D. Dissertation Committee, Jong Han, The University of Texas at Austin, Austin, Texas, completed, 1981

Member, Ph.D. Dissertation Committee, James Anderson, The University of Texas at Austin, Austin, Texas, completed, 1979

Presentations

Invited Presentations

How Depositional Environment, Diagenesis, and Thermal Maturity Affect the Evolution and Significance of Organic and Mineral Pore Systems in Unconventional Oil and Gas Reservoirs: Current Understanding and Future Research: presented at AAPG Hedberg Conference, Houston, Texas, March 4-May 6, 2019.

Origin and Characterization of the Lithofacies and Dual Micropore/Macropore Network in Pennsylvanian (Early Desmoinesian) Caddo Shelf-Buildup Complexes, Stephens County, North-Central Texas: presented to Abilene Geological Society, Abilene, Tex., March 21, 2019.

How Modern Karst Studies Lead to Understanding the Development and Burial Evolution of Paleokarst Reservoirs: presented to Underground Texas Grotto Chapter, presented at National Speleological Society, Austin, Texas, May 18, 2016.

How Modern Karst Studies Lead to Understanding the Development and Burial Evolution of Paleokarst Reservoirs: presented to The University of Texas at Austin Grotto Society, presented at The University of Texas at Austin, May 2016.

How Modern Karst Studies Lead to Understanding the Development and Burial Evolution of Paleokarst Hydrocarbon Reservoirs: presented to Karst Waters Institute, Houston, Texas, March 1, 2014.

Presentations

Revisiting the Sligo/Pettet Formation of East Texas: development of a stratigraphic framework to aid in searching for missed opportunities: presented to Bureau of Economic Geology, presented at RCRL Annual Meeting, Austin, Texas, October 7, 2019.

New model for halokinetically controlled patch reef systems: a case study from the Fairway field, a major Aptian reservoir in the East Texas Basin: presented at AAPG Annual Convention, San Antonio, Texas, May 20, 2019.

Characterization, origin, and significance of carbonate pulverulite: a weathering product of microporous strata: presented at GCAGS conference, Shreveport, La., September 30-December 2, 2018.

Facies heterogeneity in a shoaling reef complex of the Lower Cretaceous Aptian James limestone from Henderson County, Texas (Core Workshop): presented to Bureau of Economic Geology, presented at RCRL Annual Meeting, Austin, Texas, October 21, 2018.

Application of Instantaneous Frequency Attributes and Gamma-Ray Wireline Logs in the Delineation of Lithology in Serbin Field, Southeast Texas: A Case Study: presented to Society of Exploration Geophysicists, presented at 88th SEG International Exposition and Annual Meeting, Anaheim, California, USA, October 15, 2018.

Eagle Ford-A depositional setting and processes in southwestern Texas: an example of deeper-water, below-storm-wave-base carbonate sedimentation on a drowned shelf: presented at GCAGS conference, Shreveport, La., September 30-October 2, 2018.

Lower Cretaceous (early Aptian) reef and reef-associated lithofacies of the James limestone, Henderson County, Texas (Core Workshop): presented to Bureau of Economic Geology, presented at RCRL Annual Meeting, Austin, Texas, September 17, 2017.

Sedimentology and sedimentary dynamics of the Desmoinesian Cherokee Group, Deep Anadarko Basin, Texas Panhandle: presented at 2015 AGU Fall Meeting, San Francisco, CA, December 14, 2015.

Pore evolution in the Barnett, Eagle Ford (Boquillas), and Woodford mudrocks based on gold-tube pyrolysis thermal maturation, AAPG/SEPM student poster presentation: presented at AAPG 2015 Annual Conference and Exhibition, Denver, Colorado, May 31-June 3, 2015.

Stratigraphic architecture, depositional systems, lithofacies, and reservoir quality of a deepwater, hybrid mudrock system: Middle Pennsylvanian (early Desmoinesian) Cherokee group, Anadarko Basin, northeast Texas panhandle: presented at Southwest Section AAPG Annual Convention, Wichita Falls, Texas, April 13, 2015.

Analysis of pore networks and reservoir quality of the Upper Cretaceous Woodbine Sandstone in the high-recovery-efficiency, giant East Texas field: presented at GCAGS Transactions, Houston, Texas, 2015.

Comparison of pore evolution in the Barnett, Eagle Ford (Boquillas), and Woodford Shales with regard to thermal maturation by gold-tube pyrolysis: presented at Houston Geological Society Annual Mudrock Conference, Houston, Texas, 2015.

Distinguishing organic matter pores associated with depositional organic matter versus migrated organic matter in mudrocks: presented at AAPG Annual Convention, Denver, CO, 2015.

Facies variability and reservoir quality of lowstand incised-valley fill and highstand shallow-marine systems in the Upper Cretaceous (Cenomanian) Tuscaloosa Formation, Louisiana U.S.A.: presented at GCAGS Transactions, Houston, Texas, 2015.

Low-thermal-maturity (<0.7% VR) mudrock pore systems: Mississippian Barnett Shale, southern Fort Worth Basin: presented at GCAGS Transactions, Houston, Texas, 2015.

Nanopore and fracture dual pore network in the Upper Cretaceous Buda Formation, Dimmit Co., Texas: presented at AAPG Annual Convention, Denver, CO, 2015.

Origin and characterization of the nanopore/microspores network in the Leonardian Clear Fork reservoirs in the Goldsmith Field in Ector Co., Texas: presented at AAPG Annual Convention, Denver, CO, 2015.

Invited talk: Distinguishing organic matter pores associated with in-place organic matter versus migrated organic matter in mudrocks: EMD/AAPG Unconventional Research Group Meeting, Houston, Texas, April 8, 2014.

How modern karst studies lead to understanding the development and burial evolution of paleokarst reservoirs: Karst Water Institute Award Banquet, Houston, Texas, March 1, 2014.

Paragenesis of Lower Ordovician Ellenburger Group paleokarst breccias and fractures in Central and West Texas: invited talk presented at Permian Basin Section-SEPM Core Workshop: Central Texas Ellenburger, Midland, Texas, April 17, 2012.

Pore types and pore networks in mudstones in shale-gas systems: presented at continuing education discussion and private reception hosted by Pioneer Natural Resources, Irving, Texas, May 5, 2011.

Pore types and pore networks in mudstones in shale-gas systems: presented at Unconventional Gas Technical Forum, Ministry of Energy and Mines, Victoria, British Columbia, April 5, 2011.

Pore types and pore networks in mudstones in shale-gas systems: presented at Unconventional Workshop sponsored by UT AAPG Student Chapter, Houston, Texas, April 10-13, 2011.

Lower Cretaceous Core Workshop and Field Trip: presented at RCRL Meeting, Austin, Texas, October 17, 2010.

Shale pore structure: presented at the Marathon Oil Company Shale Development Workshop, Houston, Texas, October 19, 2009.

Shale sedimentation: presented at the Marathon Oil Company Shale Development Workshop, Houston, Texas, October 19, 2009.

Mineralogy and diagenetic history of the Upper Cretaceous Woodbine Sandstone in the giant East Texas field: presented at the Gulf Coast Geological Societies Annual Convention, Shreveport, Louisiana, September 28, 2009.

Geology of the Mississippian Barnett Shale-Gas play in Texas: regional setting, sedimentology, and pore networks: presentation of Bureau Centennial Lecture, Houston, Texas, August 20, 2009.

Ancient geologic controls on rock heterogeneity in quarries in the Marble Falls/Burnet, Texas area: presented at Texas Section Summer Meeting of the Association of Environmental and Engineering Geologists, Marble Falls, Texas, July 18, 2009.

Applications of Cores to Permian Basin Reservoir Characterization: presented at Southwest Section, American Association of Petroleum Geologists, Annual Meeting, Midland, Texas, April 25, 2009.

Origins of reservoir heterogeneity in paleokarst reservoirs; key to understanding production: presented at China University of Petroleum, Beijing, China, April 20, 2009.

Origins of reservoir heterogeneity in paleokarst reservoirs; key to understanding production: presented at BGP of PetroChina, Beijing, China, April 17, 2009.

Reservoir heterogeneity within a carbonate patch reef and association seismic expression: core workshop presented at SEG Development and Production Forum: Core examples of reservoir heterogeneity, Austin, Texas, July 27-31, 2008.

Mississippian Barnett Shale in the northern Fort Worth Basin: lithofacies, depositional setting, and pore network of a deepwater mudstone succession (co-authors Steve Ruppel and Rob Reed): presented at BP, Houston, Texas, July 9, 2008.

A close look at the Barnett pore network and questions that need answering: invited talk presented at AAPG Unconventional Gas Research Committee Meeting, San Antonio, Texas, April 2008.

Shell and grain layers in the Barnett Shale: event deposition or in situ accumulations?: presented at the AAPG Annual Convention, San Antonio, Texas, April 2008.

The Barnett Shale of the southern Fort Worth Basin: comparison of depositional setting, lithofacies, and mineralogy with equivalent deposits in the northern basin: presented at the AAPG Annual Convention, San Antonio, Texas, April 2008.

Pilot study of East Texas field: geology, engineering, and potential exploitation workshop: BEG-PTTC Workshop No. SW0017, Kilgore, Texas, October 30, 2007.

Ancient geologic controls on rock heterogeneity in quarries in the Marble Falls/Burnet, Texas area: invited talk presented at Annual Meeting of the Texas Mining and Reclamation Association, Marble Falls, Texas, October 9, 2007.

Depositional setting, lithofacies, and pore network of the Mississippian Barnett Shale in the northern Fort Worth Basin: presented at SIPES Meeting, Fort Worth, Texas, October 2007.

Core introduction (with Wayne Wright): presented to Society of Petrophysicists and Well Log Analysts, Austin, Texas, June 3, 2007.

Introduction to Barnett Shale Symposium: presented to Society of Petrophysicists and Well Log Analysts, Austin, Texas, June 3, 2007.

Lithofacies, depositional setting, and pore network of the Barnett Formation: presented to Society of Petrophysicists and Well Log Analysts, Austin, Texas, June 3, 2007.

Deep Shelf Gas Workshop: presented to industry members of the consortium, Houston, Texas, April 2007.

Deep Shelf Gas Workshop: presented to industry members of consortium, Houston, Texas, April 2007.

Megascale architecture and regional distribution patterns of coalesced, collapsed paleocave systems: invited talk presented at Time in Karst Meeting, Postojna, Slovenia, March 14-18, 2007.

Permian Basin West Texas Workshop: presented to industry members of the consortium, Austin, Texas, February 2007.

Permian Basin West Texas Workshop: presented to industry members of consortium, Houston, Texas, February 2007.

Reservoir quality approach developed by the Deep Shelf Gas Project: presented to Maersk Oil America Inc., Houston, Texas, 2007.

Barnett matrix pore-network analysis: presented at STARR/PTTC Seminar, Houston, Texas, November 14, 2006.

Barnett Shale-Gas Play of the Fort Worth Basin: presented at STARR/PTTC Seminar, Houston, Texas, November 14, 2006.

Mississippian Barnett Shale in the Fort Worth Basin: lithofacies and depositional setting of a deep-water gas-shale succession: presented at STARR/PTTC Seminar, Houston, Texas, November 14, 2006.

Barnett matrix pore-network analysis: presented at STARR/PTTC Seminar, Midland, Texas, November 8, 2006.

Barnett Shale-Gas Play of the Fort Worth Basin: presented at STARR/PTTC Seminar, Midland, Texas, November 8, 2006.

Mississippian Barnett Shale in the Fort Worth Basin: lithofacies and depositional setting of a deep-water gas-shale succession: presented at STARR/PTTC Seminar, Midland, Texas, November 8, 2006.

Deep Shelf Gas Workshop: presented to industry members of consortium, Houston, Texas, October 2006.

Deep Shelf Gas Workshop: presented to industry members of the consortium, Houston, Texas, October 2006.

BEG Project STARR: Impact on the search for oil and gas on Texas State Lands and Waters: presented at Decision Maker Field Trip, Austin, Texas, September 29, 2006.

Depositional setting, lithofacies, and pore networks of the Mississippian Deepwater Barnett Shale facies in the Fort Worth Basin: presented at Southwest Section AAPG Annual Meeting, Midland, Texas, May 22-, 2006.

Revisiting the importance of secondary dissolution pores in Tertiary sandstones along the Texas Gulf Coast: invited talk presented to Corpus Christi Geological Society & Coastal Bend Geophysical Society, Corpus Christi, Texas, October 19, 2005.

A multiple origin approach to understanding the development of breccias and fractures in Ordovician carbonate reservoirs: invited talk presented at the Texas A&M ConocoPhillips Lecture Series, College Station, Texas, October 6, 2005.

Understanding the origin and sequence stratigraphy of growth-faulted, intraslope subbasins: examples from the South Texas Oligocene Frio Formation: invited talk presented at the Texas A&M ConocoPhillips Lecture Series, College Station, Texas, October 6, 2005.

Three-dimensional architecture of a coalesced, collapsed paleocave system in the lower Ordovician Ellenburger Group, Central Texas: luncheon talk presented to Dallas Geological Society, Dallas, Texas, January 11, 2005.

Approaches to reservoir quality prediction: presented to Veritas DGS, Houston, Texas, October 29, 2004.

Regional controls on reservoir quality in shallow buried lower Tertiary sandstones along the Texas Gulf Coast: presented to Veritas DGS, Houston, Texas, October 29, 2004.

Approaches to reservoir quality prediction: presented to Pioneer Oil Company, Dallas, Texas, October 19, 2004.

Regional controls on reservoir quality in shallow buried lower Tertiary sandstones along the Texas Gulf Coast: presented to Pioneer Oil Company, Dallas, Texas, October 19, 2004.

Understanding growth-faulted, intraslope subbasins and associated reservoir targets by applying sequence stratigraphic principles: examples from the South Texas Oligocene Frio Formation: presented to the Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, October 18, 2004.

A multiple origin approach to understanding the development of breccias and fractures in Ordovician carbonate reservoirs: presented at South Texas Geological Society meeting, San Antonio, Texas, October 7, 2004.

Project STARR: presented at the Houston Geological Society North American Explorations dinner meeting, Houston, Texas, September 27, 2004.

Understanding growth-faulted, intraslope subbasins and associated reservoir targets by applying sequence stratigraphic principles: examples from the South Texas Oligocene Frio Formation: presented at the Houston Geological Society North American Explorations dinner meeting, Houston, Texas, September 27, 2004.

Project STARR: presented to the San Antonio SIPES Chapter, San Antonio, Texas, September 17, 2004.

Understanding the origin and sequence stratigraphy of growth-faulted, intraslope subbasins: examples from the South Texas Oligocene Frio Formation: presented to San Antonio SIPES

Chapter, San Antonio, Texas, September 17, 2004.

Approaches to reservoir quality prediction: presented at Brigham Oil and Gas Luncheon Seminar, Austin, Texas, September 2004.

Regional controls on reservoir quality in shallow-buried, lower Tertiary sandstones along the Texas Gulf Coast: presented at Brigham Oil and Gas Luncheon Seminar, Austin, Texas, September 2004.

Large scale fracturing and breccia development associated with paleocave systems and associated suprastratal deformation: poster presented at AAPG Hedberg Conference, Austin, Texas, February 9, 2004.

Origin of growth-faulted subbasins in South Texas and sequence stratigraphic analysis of associated sediment fill: presented at University of Oklahoma's Shell Oil Colloquium series, Norman, Oklahoma, November 13, 2003.

Overview of breccia- and fracture-forming processes in Ordovician carbonates: presented at University of Oklahoma's Shell Oil Colloquium series, Norman, Oklahoma, November 13, 2003.

Underexplored deep-gas potential in the Gulf of Mexico: presented at Meeting of the Texas PTTC Producers Advisory Group (PAG) and State of Texas Policy Makers, Austin, Texas, May 22, 2003.

Origin of Lower Ordovician Ellenburger Group brecciated and fractured reservoirs in West Texas: Paleocave, thermobaric, tectonic, or all the above?: invited lecture: presented at the University of Mississippi, Oxford, Mississippi, April 23, 2003.

Paleocave reservoirs: invited lecture: presented at the University of Mississippi, Oxford, Mississippi, April 23, 2003.

Project Starr: State of Texas Advance Resource Recovery Program: presented to Deck and Derrick Club, Austin, Texas, 2002.

Project Starr: State of Texas Advance Resource Recovery Program: presented to Texas Alliance of Energy Producers, Wichita Falls, Texas, 2002.

Characterizing the three-dimensional architecture of a coalesced, collapsed-paleocave system in the Lower Ordovician, Ellenburger Group, by integrating ground-penetrating radar, shallow-core, and outcrop data: presented to the Bureau of Economic Geology, Austin, Texas, 2001.

Depositional and diagenetic framework of larger foraminiferal nummulite deposits: presented at University of Nevada at Reno, Reno, Nevada, 2001.

Paleocave systems: origins, burial-depth modifications, and spatial complexity, and reservoir implications: presented to Nevada Petroleum Society, Reno, Nevada, 2001.

Paleocave systems: origins, burial-depth modifications, and spatial complexity: presented to Edwards Aquifer Authority Technical Advisory Group, Austin, Texas, 2001.

Paleocave systems: origins, burial-depth modifications, and spatial complexity: presented at The University of Texas at Austin, Austin, Texas, 2000.

Depositional and diagenetic framework for exploration in larger foraminiferal nummulite deposits, lower Eocene Metlaoui Group, offshore Tunisia: Kingston University, London, 1998.

Paleocave carbonate reservoirs: origins, burial-depth modifications, spatial complexity, and reservoir implications: Dallas Geological Society, 1998.

Paleocave carbonate reservoirs: origins, burial-depth modifications, spatial complexity, and reservoir implications: The University of Texas at Dallas, 1998.

Activities of a Professional Nature

Professional Societies

American Association of Petroleum Geologists
American Geological Institute
Austin Geologic Society
Gulf Coast Section-Society of Economic Paleontologists and Mineralogists
International Association of Sedimentologists
Permian Basin Section-SEPM (Society for Sedimentary Geology)
Society of Economic Paleontologists and Mineralogists
West Texas Geological Society

Activities of a Professional Nature

Session Chair: Microporosity in Conventional and Unconventional Carbonate Reservoirs, SEPM Mountjoy Carbonate Research Conference, Bureau of Economic Geology, University of Texas at Austin (June 29, 2017)

Chairman, session on Advances in Carbonate Diagenesis, AAPG 2016 Annual Convention & Exhibition, Calgary, Alberta, Canada (June 2016)

Associate Editor, AAPG, 1998-present

Business Representative, Gulf Coast Section, SEPM, 1977-1980

Co-founder, SEPM Core Workshop

Editor, SEPM section, GCAGS Transactions, Corpus Christi, Texas, 1981

Ellenburger paleocave reservoirs: origins, burial-depth modifications, spatial complexity, and reservoir implications: half-day seminar presented to the Roswell Geological Society, September 2003

Research Advisor, ARCO, 1986

Senior Research Advisor, ARCO, 1998

Served on two Ph.D. and two Master committees at The University of Texas at Austin, one Ph.D. committee at University of Texas at Dallas, and one Ph.D. committee at City College, New York

Publications

Peer Reviewed Authored Books

Ambrose, W. A., Loucks, R. G., and Dutton, S. P., 2013, Depositional systems and controls on reservoir quality (determined from core data) in deeply buried Tertiary strata in the Texas-Louisiana Gulf of Mexico: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 278, 80 p.

Brown, L. F., Jr., and Loucks, R. G., 2009, Chronostratigraphy of Cenozoic depositional sequences and systems tracts: a Wheeler chart of the northwest margin of the Gulf of Mexico basin: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 273, 28 p.

Peer Reviewed Journal Articles

Alnahwi, A., Kosanke, T., Loucks, R. G., Greene, J., Liu, X., and Linton, P., 2020, High-resolution hyperspectral-based continuous mineralogical and total organic carbon analysis of the Eagle Ford Group and associated formations in south Texas: AAPG Bulletin, v. 104, no. 7, p. 1439-1462, <http://doi.org/10.1306/02262018156>.

Loucks, R. G., Lambert, J. R., Patty, K., Larson, T. E., Reed, R. M., and Zahm, C. K., 2020, Regional overview and significance of the mineralogy of the Upper Cretaceous Austin Chalk Group, onshore Gulf of Mexico: *GCAGS Journal*, v. 9, p. 1-16.

Reed, R. M., Loucks, R. G., and Ko, L. T., 2020, Scanning electron microscope petrographic differentiation among different types of pores associated with organic matter in mudrocks: *GCAGS Journal*, v. 9, p. 17-27.

Alnahwi, A., and Loucks, R. G., 2019, Mineralogical composition and total organic carbon quantification using X-ray fluorescence data from the Upper Cretaceous Eagle Ford Group in southern Texas: *AAPG Bulletin*, v. 103, no. 12, p. 2891-2907, <http://doi.org/10.1306/04151918090>, [Supervised graduate student paper].

Ambrose, W. A., and Loucks, R. G., 2019, Transition from paleosols in the Cenomanian Woodbine Group to carbonates in the Coniacian lower Austin Chalk in East Texas Field: an example of compressed transgressive succession from subaerial processes to deepwater deposition: *GCAGS Journal*, v. 8, p. 1-21.

Hattori, K. E., Loucks, R. G., and Kerans, C., 2019, Stratal architecture of a halokinetically controlled patch reef complex and implications for reservoir quality: a case study from the Aptian James Limestone in the Fairway Field, East Texas Basin: *Sedimentary Geology*, v. 387, p. 87-103, <http://doi.org/10.1016/j.sedgeo.2019.04.009>.

Loucks, R. G., 2019, Pore networks and reservoir-quality trends in Lower Cretaceous carbonates of the northern rim of the Gulf of Mexico: substantiating reservoir-quality risk factors: *GCAGS Journal*, v. 8, p. 35-56.

Loucks, R. G., and Dutton, S. P., 2019, Insights into deep, onshore Gulf of Mexico Wilcox sandstone pore networks and reservoir quality through the integration of petrographic, porosity and permeability, and mercury injection capillary pressure analyses: *AAPG Bulletin*, v. 103, no. 3, p. 745-765, <http://doi.org/10.1306/09181817366>.

Loucks, R. G., Gates, B. G., and Zahm, C. K., 2019, Depositional systems, lithofacies, nanopore to micropore matrix network, and reservoir quality of the Upper Cretaceous (Cenomanian) Buda Limestone in Dimmit County, southwestern Texas: *GCAGS Journal*, v. 8, p. 281-300.

Ogiesoba, O. C., Ambrose, W. A., and Loucks, R. G., 2019, Investigation of seismic attributes, depositional environments, and hydrocarbon sweet-spot distribution in the Serbin field, Taylor Formation, Southeast Texas: *Interpretation*, v. 7, no. 1, p. T49-T66, <http://doi.org/10.1190/INT-2018-0041.1>.

Zahm, C. K., Loucks, R. G., and Gates, B. G., 2019, High-resolution rock strength and the implications for reservoir geomechanics in the Cenomanian-age Buda Formation, Dimmit County, Texas: *GCAGS Journal*, v. 8, p. 268-280.

Alnahwi, A., Loucks, R. G., Ruppel, S. C., Scott, R. W., and Tribovillard, N., 2018, Dip-related changes in stratigraphic architecture and associated sedimentological and geochemical variability in the Upper Cretaceous Eagle Ford Group in south Texas: *AAPG Bulletin*, v. 102, no. 12, p. 2537-2568, <http://doi.org/10.1306/05111817310>.

Dutton, S. P., Hutton, M. E., Ambrose, W. A., Childers, A. T., and Loucks, R. G., 2018, Preservation of reservoir quality by chlorite coats in deep Tuscaloosa sandstones, Central Louisiana, U.S.A.: *GCAGS Journal*, v. 7, p. 46-58.

Garcia-Fresca, B., Pinkston, D., Loucks, R. G., and LeFever, R., 2018, The Three Forks playa lake depositional model: implications for characterization and development of an unconventional carbonate play: *AAPG Bulletin*, v. 102, no. 8, p. 1455-1488, <http://doi.org/10.1306/12081716510>.

Ko, L., Ruppel, S. C., Loucks, R. G., Hackley, P. C., Zhang, T., and Shao, D., 2018, Pore-types and pore-network evolution in Upper Devonian-Lower Mississippian Woodford and

Mississippian Barnett mudstones: insights from laboratory thermal maturation and organic petrology: *International Journal of Coal Geology*, v. 190, p. 3-28, <http://doi.org/10.1016/j.coal.2017.10.001>.

Loucks, R. G., 2018, Domal, thrombolitic, microbialite biostromes and associated lithofacies in the Upper Albian Devils River Trend along the northern, high-energy margin of the Maverick Basin: *Sedimentary Geology*, v. 371, p. 75-88, <http://doi.org/10.1016/j.sedgeo.2018.04.010>.

Loucks, R. G., 2018, Eagle Ford--A depositional setting and processes in southwestern Texas: an example of deeper-water, below-storm-wave-base carbonate sedimentation on a drowned shelf: *GCAGS Journal*, v. 7, p. 59-78.

Loucks, R. G., Poros, Z., and Machel, H. G., 2018, Characterization, origin, and significance of carbonate pulverulite: a weathering product of microporous strata: *GCAGS Journal*, v. 7, p. 79-92.

Mauck, J. V., Loucks, R. G., and Entzminger, D. J., 2018, Stratigraphic architecture, depositional systems, and lithofacies of the Mississippian upper Barnett Two Finger Sand Interval, Midland Basin, Texas: *GCAGS Journal*, v. 7, p. 21-45.

Ogiesoba, O. C., Ambrose, W. A., and Loucks, R. G., 2018, Application of instantaneous-frequency attribute and gamma-ray wireline logs in the delineation of lithology in Serbin field, Southeast Texas: a case study: *Interpretation*, v. 6, no. 4, p. T1023-T1043, <http://doi.org/10.1190/INT-2018-0067.1>.

Ambrose, W. A., Dutton, S. P., and Loucks, R. G., 2017, Depositional systems, facies variability, and their relationship to reservoir quality in the Jurassic Cotton Valley Group, Texas, Louisiana, and Mississippi onshore Texas Gulf Coast: *GCAGS Journal*, v. 6, p. 21-46.

Dutton, S. P., Ambrose, W. A., Horodecky, B. B., and Loucks, R. G., 2017, Regional trends in diagenesis and reservoir quality of Jurassic Cotton Valley sandstones, northern Gulf of Mexico Basin: *GCAGS Journal*, v. 6, p. 47-62.

Ko, L. T., Loucks, R. G., Ruppel, S. C., Zhang, T., and Peng, S., 2017, Origin and characterization of Eagle Ford pore networks in the south Texas Upper Cretaceous shelf: *AAPG Bulletin*, v. 101, no. 3, p. 387-418, <http://doi.org/10.1306/08051616035>.

Ko, L., Loucks, R. G., Milliken, K., Liang, Q., Zhang, T., Sun, X., Hackley, P. C., Ruppel, S. C., and Peng, S., 2017, Controls on pore types and pore-size distribution in the Upper Triassic Yanchang Formation, Ordos Basin, China: implications for pore-evolution models of lacustrine mudrocks: *Interpretation*, v. 5, no. 2, p. SF127-SF148, <http://doi.org/10.1190/INT-2016-0115.1>.

Lambert, J., Loucks, R. G., and McDaid, G., 2017, Three-dimensional characterization of cave networks using photogrammetry: example from Longhorn Cavern, Central Texas: *GCAGS Journal*, v. 6, p. 63-72.

Loucks, R. G., and Patty, K., 2017, Vadose diagenetic dissolution textures, cementation patterns, and aragonite and Mg-calcite alteration in the Holocene Isla Cancún Eolianite aragonitic ooids: modern analog for ancient ooid-grainstone pore networks: *GCAGS Journal*, v. 6, p. 1-20.

Loucks, R. G., Frébourg, G., and Rowe, H. D., 2017, Upper Cretaceous (Campanian) Ozan and Annona Chalks in Caddo-Pine Island Field, northwestern Louisiana: depositional setting, lithofacies, and nanopore/micropore network: *GCAGS Journal*, v. 6, p. 73-91.

Loucks, R. G., Kerans, C., Zeng, H., and Sullivan, P. A., 2017, Documentation and characterization of the Lower Cretaceous (Valanginian) Calvin and Winn carbonate shelves and shelf margins, onshore northcentral Gulf of Mexico: *AAPG Bulletin*, v. 101, no. 1, p. 119-142, <http://doi.org/10.1306/06281615248>.

Loucks, R. G., Ruppel, S. C., Wang, X., Ko, L., Peng, S., Zhang, T., Rowe, H. D., and Smith, P. L., 2017, Pore types, pore-network analysis, and pore quantification of the lacustrine

shale-hydrocarbon system in the Late Triassic Yanchang Formation in the southeastern Ordos Basin, China: Interpretation, v. 5, no. 2, p. SF63-SF79, <http://doi.org/10.1190/INT-2016-0094.1>.

Peng, S., Zhang, T., Loucks, R. G., and Shultz, J., 2017, Application of mercury injection capillary pressure to mudrocks: conformance and compression corrections: Marine and Petroleum Geology, v. 88, p. 30-40, <http://doi.org/10.1016/j.marpetgeo.2017.08.006>.

Phelps, R., Kerans, C., and Loucks, R. G., 2017, Reply to the discussion by Rose of Phelps et al. (2014) "Oceanographic and eustatic control of carbonate platform evolution and sequence stratigraphy on the Cretaceous (Valanginian-Campanian) passive margin, northern Gulf of Mexico," Sedimentology, 61, 461-496: Sedimentology, v. 64, p. 858-870, <http://doi.org/10.1111/sed.12324>.

Rowe, H. D., Wang, X., Fa, B., Zhang, T., Ruppel, S. C., Milliken, K., Loucks, R. G., Shen, Y., Zhang, J., Liang, Q., and Sivil, J. E., 2017, Chemostratigraphic insights into fluvio-lacustrine deposition, Yanchang Formation, Upper Triassic, Ordos Basin, China: Interpretation, v. 5, no. 2, p. SF149-FS165, <http://doi.org/10.1190/INT-2016-0121.1>.

Zhang, T., Wang, X., Zeng, H., Fishman, N., Katz, B. J., Milliken, K., Wei, M., Loucks, R. G., and Ghanizadeh, A., 2017, Introduction to special section: Lacustrine shale characterization and shale resource potential in Ordos Basin, China: Interpretation, v. 5, no. 2, p. SFi-SFii, <http://doi.org/10.1190/INT-2017-0314-SPSEINTRO.1>.

Ambrose, W. A., Dutton, S. P., and Loucks, R. G., 2016, Depositional systems, facies variability, and reservoir quality in shallow-marine reservoirs in the Eocene Upper Wilcox Group in Fandango Field, Zapata County, Texas: GCAGS Journal, v. 5, p. 73-94.

Dutton, S. P., Ambrose, W. A., and Loucks, R. G., 2016, Diagenetic controls on reservoir quality in deep upper Wilcox sandstones of the Rio Grande delta system, South Texas: GCAGS Journal, v. 5, p. 95-110.

Frébourg, G., Ruppel, S. C., Loucks, R. G., and Lambert, J., 2016, Depositional controls on sediment body architecture in the Eagle Ford/Boquillas system: Insights from outcrops in west Texas, United States: AAPG Bulletin, v. 100, no. 4, p. 657-682, <http://doi.org/10.1306/12091515101>.

Ko, L., Loucks, R. G., Zhang, T., Ruppel, S. C., and Shao, D., 2016, Pore and pore network evolution of Upper Cretaceous Boquillas (Eagle Ford-equivalent) mudrocks: Results from gold tube pyrolysis experiments: AAPG Bulletin, v. 100, no. 11, p. 1693-1722, <http://doi.org/10.1306/04151615092>.

Loucks, R. G., and Fu, Q., 2016, Origin and characterization of the lithofacies and dual micropore/macropore network in Pennsylvanian (early Desmoinesian) Caddo shelf-buildup complexes, Stephens County, north-central Texas: GCAGS Journal, v. 5, p. 1-24.

Loucks, R. G., and Fu, Q., 2016, Origin and characterization of the lithofacies and dual micropore/macropore network in Pennsylvanian (early Desmoinesian) Caddo shelf-buildup complexes, Stephens County, North-Central Texas: GCAGS Journal, v. 5, p. 1-24.

Loucks, R. G., and Reed, R. M., 2016, Natural microfractures in unconventional shale-oil and shale-gas systems: real, hypothetical, or wrongly defined?: GCAGS Journal, v. 5, p. 64-72.

Peng, S., and Loucks, R. G., 2016, Permeability measurements in mudrocks using gas-expansion methods on plug and crushed-rock samples: Marine and Petroleum Geology, v. 73, p. 299-310, <http://doi.org/10.1016/j.marpetgeo.2016.02.025>.

Peng, S., Hassan, A., and Loucks, R. G., 2016, Permeability estimation based on thin-section image analysis and 2D flow modeling in grain-dominated carbonates: Marine and Petroleum Geology, v. 77, p. 763-775, <http://doi.org/10.1016/j.marpetgeo.2016.07.024>.

Ambrose, W. A., Loucks, R. G., and Dutton, S. P., 2015, Sequence-stratigraphic and depositional controls on reservoir quality in lowstand incised-valley-fill and highstand

shallow-marine systems in the Upper Cretaceous (Cenomanian) Tuscaloosa Formation, Louisiana, U.S.A.: *GCAGS Journal*, v. 4, p. 43-66.

Dutton, S. P., Loucks, R. G., and Ambrose, W. A., 2015, Factors controlling permeability variation in onshore, deep Paleogene Wilcox sandstones in the northern Gulf of Mexico basin: targeting high-quality reservoirs: *GCAGS Journal*, v. 4, p. 1-14.

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