

Stephen Craig. Ruppel

Professional Summary

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Professional Preparation

Academic Background

Ph.D. Geology, University of Tennessee, Knoxville, 1979

M.S. Geology, University of Florida, Gainesville, 1971

B.S. Geology, University of Illinois, Urbana, 1969

Professional Appointments

Present Position: Senior Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (2003 - Present). Principal Investigator of Mudrock Systems Research Laboratory. Director of carbonate reservoir studies team. Principal Investigator of carbonate reservoir characterization projects and Permian Basin geological synthesis project.

Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (June 1985 - 2003). Characterizing Paleozoic carbonate reservoirs in West Texas. Principal Investigator of University Lands reservoir characterization program.

Research Associate, Bureau of Economic Geology (June 1981 - December 1984). Coordinating and supervising basin analysis and host-rock analysis programs; analyzing Paleozoic depositional systems, High-Level Nuclear Waste Isolation Repository Siting Project.

Professional Research Associate, Department of Geological Sciences, McGill University, Montreal, PQ, Canada (September 1978 - May 1981). Analyzing sedimentology and depositional environments of Middle Ordovician carbonates in the northern Appalachians of Quebec; sedimentology teaching.

Graduate Teaching Assistant, Department of Geological Sciences, University of Tennessee, Knoxville (September 1974 - September 1978). Teaching of introductory and advanced courses; coordinating historical geological laboratories (1977).

Development Geologist, Chevron Oil Company, New Orleans, Louisiana (December 1971 - August 1974). Analyzing reservoirs in offshore Gulf of Mexico (Tertiary clastics and Cretaceous carbonates), onshore southeast United States (Mesozoic clastics and carbonates), and midcontinent of eastern United States (Paleozoic carbonates).

Teaching Assistant, Department of Geological Sciences, University of Florida, Gainesville (September 1969 - September 1971). Teaching of introductory and advanced undergraduate courses.

Field Geologist, Instituto Geográfico Nacional de Guatemala, Guatemala City (January 1971 - March 1971). Field mapping and interpretation of Paleozoic metamorphics and Tertiary and Quaternary volcanics along Motagua Fault Zone, central Guatemala.

Technical/Research Assistant, Illinois State Geological Survey, Urbana (September 1967 -

September 1969). Core study and mapping of coal deposits; conodont biostratigraphic (Paleozoic) studies.

Theses

Conodont biostratigraphy and correlation of the Fort Payne Chert and Tuscumbia Limestone (Mississippian) at selected sites in northwestern Alabama: Gainesville, Florida, University of Florida, M.S. thesis, 74 p., 1971

Dissertations

The stratigraphy, carbonate petrology, and depositional environments of the Middle Ordovician Chickamauga Group of northern East Tennessee: Knoxville, Tennessee, Ph.D. dissertation, 231 p., 1979

Areas of Expertise

Areas of Expertise

Carbonate reservoir characterization
Carbonate sedimentology and geochemistry
Paleozoic and Mesozoic mudrock systems
Paleozoic depositional systems and basin analysis

Awards

Awards and Honorary Societies

A. I. Levorsen Award as co-author of Best Paper presented at Gulf Coast Section, GCSSEPM/GCAGS Annual Meeting, "Preliminary Classification of Matrix Pores in Mudrocks", 2011

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

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

Honorary Life Member, Permian Basin Section, SEPM, 2010

Third Place, Gordon I. Atwater Best Poster Award for "Regional Lithostratigraphy of the Eagle Ford Shale", 2010

Jackson School of Geosciences Outstanding Research Award, 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

Levorsen Memorial Award for Best Paper (co-author), Southwest Section American Association of Petroleum Geologists, 2006

Luncheon Speaker Best Paper Award, Permian Basin Section SEPM (Society for Sedimentary Geology), 2003 - 2004

Dedicated Service Award, Permian Basin Section, SEPM, 2002 - 2003

Wallace E. Pratt Award for Excellence of Presentation, American Association of Petroleum Geologists Bulletin, 2002

Distinguished Member Award, West Texas Geological Society, 2001

Honorable mention for excellence of presentation, SEPM annual meeting, Houston, Texas, 1995

Sigma Xi, 1976

Sigma Gamma Epsilon, Secretary, Gamma Gamma Chapter, 1970 - 1975

Sigma Gamma Epsilon, President Beta Psi Chapter, 1970 - 1971

Service

University Committees

Member, Appointments Committee, Jackson School of Geosciences, 2009-2011

Chairman, Promotions Advisory Committee, Bureau of Economic Geology, 2009-2010

Member, Promotions Advisory Committee, Bureau of Economic Geology, 2008-2010

Member, Endowments Committee, Jackson School of Geosciences, The University of Texas at Austin, 2005-2009

Chairman, Publications Board, Bureau of Economic Geology, Austin, Texas, 2004-2006

Member, Job Grade and Promotions Committee, Bureau of Economic Geology, 2005

Member, MIT Task Force, Bureau of Economic Geology, 2005

Chairman, Committee on Conferences, Bureau of Economic Geology, Austin, Texas, 2002-2003

External Committees Participation

Senior Associate Editor, AAPG Bulletin, 2011-Present

Chairman, Facilities Planning Committee, Bureau of Economic Geology, 2009 - present

Associate Editor, Bulletin, Geological Society of America, 2008 - present

Member, Permian Basin Section-SEPM (Society for Sedimentary Geology), 1997 - present

Chairman, Publications Committee, Austin Geological Society, Austin, Texas, 1992 - present

Member, West Texas Geological Society, 1990 - present

Member, Austin Geological Society, 1985 - present

Member, Pander Society, 1985 - present

Member, International Association of Sedimentologists, 1982 - present

Member, American Association of Petroleum Geologists, 1969 - present

Member, SEPM (Society for Sedimentary Geologists), 1969 - present

Chairman, Short Course Committee, 2012 Gulf Coast Association of Geological Societies Annual Convention October, 2012

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

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

Co-Leader, Field Trip, 2008 American Association of Petroleum Geologists Annual Convention, San Antonio, 2008

Chair, SEPM Field Trip and Short Course Committee, American Association of Petroleum Geologists Annual Convention, Houston, Texas, 2006 - 2008

Co-Editor, Gulf Coast Association of Geological Societies Transactions 52nd Annual Convention, Austin, Texas, October, 2002

Delegate, American Association of Petroleum Geologists, 1998 - 2001

Teaching and Advising

University Courses Taught

Geology 383R: presented to Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, September-December 2015.

Geology 391R: presented to Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, September-December 2015.

Geology 383R: presented to Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, September-December 2014.

Geology 391R: presented to Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, September-December 2014.

Geology 383R: presented to Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, September-December 2013.

Geology 391R: presented to Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, September-December 2013.

Geology 383R: presented to Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, September-December 2012.

Geology 383R: presented to Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, September-December 2011.

Geology 383R: presented to Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, September-December 2010.

Geology 383R: presented to Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, September-December 2009.

Geology 383R: presented to Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, September-December 2008.

Surprising lessons from multidisciplinary characterization of a Permian carbonate platform reservoir: presented at Bureau of Economic Geology Colloquium, Austin, Texas, April 2005.

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

Continuing Education Courses Taught

Geology of Mudrock Systems short course: presented to Mudrock Systems Research Laboratory consortium members, presented at Bureau of Economic Geology, Austin, Texas, April 2015.

Geology of Mudrock Systems short course: presented to Mudrock Systems Research Laboratory consortium members, presented at Bureau of Economic Geology, Austin, Texas, March 2014.

Short course on carbonate systems: presented to Pangaea Resources, Sydney, Australia, May 2011.

Introduction to mudrocks: short course presented (with Kitty Milliken) to the Mudrock Systems Research Laboratory, Austin, Texas, June 2010.

Introduction to mudrocks: aka shales: short course presented to Pangaea Resources, Sydney, Australia, March 2010.

Using integrated technologies for successful targeting of remaining oil resources on University Lands: successes and opportunities: PBS-SEPM Short Course: The Impact of Integrated Sedimentology and Stratigraphy on Reservoir Characterization and Field Management Strategies, Midland, Texas, August 2000.

Modern approaches to reservoir characterization of Permian platform carbonates in the Permian Basin: short course presented (with Mark Holtz) to the Permian Basin Graduate Center, April 1998.

Modern approaches to the characterization of carbonate reservoirs: short course presented to Ecopetrol, Colombia, August 1997.

Geological and petrophysical approaches to characterization of restricted platform carbonate reservoirs: examples from the Leonardian of the Permian Basin: short course presented (with Mark Holtz) to the Permian Basin Graduate Center, January 1995.

Depositional and diagenetic controls on reservoir development in Upper Ordovician--Lower Devonian rocks in the Permian Basin: short course presented to the Permian Basin Graduate Center, January 1994.

Characterization of Silurian and Devonian reservoirs on University Lands with an example from Three Bar Field: short course presented in the continuing education seminar "Strategies for Advanced Oil Recovery in the Permian Basin: Targeting the Remaining Resources", 1992.

High-frequency sequence and cycle stratigraphy for description of Clear Fork, San Andres, and Grayburg carbonate reservoirs: short course presented (with Charles Kerans) to the Permian Basin Graduate Center, 1992.

Patterns of facies and reservoir development in Silurian and Devonian rocks in the Permian Basin: short course presented to the Permian Basin Graduate Center, November 1991.

Field Trips Leadership

Co-leader, Guide to field exposures of the Eagle Ford-equivalent Boquillas Formation and related Upper Cretaceous units in southwest Texas: a field trip prepared for the Mudrocks Systems Research Laboratory, Bureau of Economic Geology, The University of Texas at Austin, March 8-10, 2012.

Co-Leader, Facies, facies-stacking, and architecture of the Pennsylvanian and Lower Permian, Hueco Mountains, Texas: 1-D and 2-D analogs for subsurface reservoir successions: Permian Basin Geological Synthesis Project, Hueco Mountains, Texas, 2010.

Co-leader, Barnett, Woodford, and related mudrock successions in Texas cores and outcrops: a field trip prepared for the AAPG/SEPM Annual Convention, San Antonio, Texas, April 19-20, 2008.

Co-leader, Classic Permian geology of West Texas and southeastern New Mexico, 75 years of Permian Basin oil and gas exploration and development: Southwest Section, American Association of Petroleum Geologists, March 2000.

Annual RCRL Meeting, Cycle stratigraphy and petrophysics of Clear Fork reservoir-equivalent Leonardian outcrops in the Sierra Diablo: October 1996.

First Symposium on Studies related to Continental Margins, "Carbonate buildups and associated facies, Llano Uplift": hosted by Bureau of Economic Geology, co-sponsored by Minerals Management Service and Continental Margins Committee of Association of American State Geologists, November 1987.

Midyear meeting, "Carbonate buildups and associated facies, Llano Uplift": Society of Economic Paleontologists and Mineralogists, Austin, Texas, August 1987.

Austin Geological Society Field Trip, "Carbonate buildups and associated facies, Llano Uplift", Central Texas: April 1987.

Student Committee Supervision

Co-supervisor, M.S. Thesis Committee, J. D. Pierce, U-Pb Geochronology of the Late Cretaceous Eagle Ford Shale, Texas; Defining Chronostratigraphic Boundaries and Volcanic

Ash Source, The University of Texas at Austin, Austin, Texas, 2012-2014, 2014

Co-Supervisor, M.S. Thesis Committee, Michael Fairbanks, The University of Texas at Austin, 2010-2012, 2012

Co-Supervisor, M.S. Thesis Committee, Stephanie Wood, The University of Texas at Austin, in progress, 2012

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

Co-Supervisor, Ph.D. Dissertation Committee, Lucy Ko, The University of Texas at Austin, ongoing, 2011

Co-Supervisor, M.S. Thesis Committee, Dana Helbert, The University of Texas at Austin, completed, 2010

Co-supervisor, M.S. Thesis Committee, Eduardo Ariza, High-resolution sequence stratigraphy of the Leonardian Lower Clear Fork Group in the Permian Basin, West Texas: The University of Texas at Austin, completed, 1998

Student Committee Participation

M.S. Thesis Committee, David Maldonado, The University of Texas at Arlington, in progress, 2012

Member, M.S. Thesis Committee, Jak Kearns, The University of Texas at Austin, 2010-2012, 2012

Member, Ph.D. Dissertation Committee, Sharif Morshed, The University of Texas at Austin, in progress, 2012

Member, M.S. Thesis Committee, Saya Ali Ahmed, The University of Texas at Austin, completed, 2011

Member, M.S. Thesis Committee, Margaret Jason, The University of Texas at Arlington, Arlington, Texas, 2007-, 2010

Member, M.S. Thesis Committee, Na Shan, The University of Texas at Austin, completed, 2010

Member, M.S. Thesis Committee, Nicki Hughes, The University of Texas at Austin, completed, 2010

Member, Ph.D. Dissertation Committee, Charles Blumentritt, The University of Houston, Houston, Texas, 2006-, 2008

Member, M.S. Thesis Committee, Deanna Combs, The University of Texas at Austin, Austin, Texas, 2002

Member, Ph.D. Dissertation Committee, Suk-Joo Choh, The University of Texas at Austin, Austin, Texas, completed, 2002

Member, M.S. Thesis Committee, Michael Starcher, The University of Texas at Austin, 1995-, 1996

Member, Ph.D. Dissertation Committee, Ronald A. Johns, Paleocology and depositional environments of Ordovician sponge communities in central and eastern Nevada: The University of Texas at Austin, completed, 1993

Member, Ph.D. Dissertation Committee, Susan D. Hovorka, Sedimentary processes controlling halite deposition, Permian Basin: The University of Texas at Austin, completed, 1990

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.

Presentations

Mudrocks: depositional processes, environments, and facies: presented at Unconventional Workshop sponsored by UT AAPG Student Chapter, Houston, Texas, April 10-13, 2011.

Models for attribute distribution in mudrock depositional systems: presented at AAPG Convention Short Course, Assessment of Unconventional Shale Resource Plays Using Geochemistry, New Orleans, Louisiana, April 2010.

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

Understanding black shale successions: lessons and questions from the Barnett Shale and other Paleozoic mudrock systems: presentation of Bureau Centennial Lecture, Houston, Texas, 2009.

Understanding black shale successions: lessons and questions from the Barnett Shale and other Paleozoic mudrock systems: presentation of Bureau Centennial Lecture, Oklahoma City, Oklahoma, 2009.

Understanding black shale successions: lessons and questions from the Barnett Shale and other Paleozoic mudrock systems: presentation of Bureau Centennial Lecture, Reston, Virginia, 2009.

Understanding black shale successions: lessons and questions from the Barnett Shale and other Paleozoic mudrock systems: presentation of Bureau Centennial Lecture, Socorro, New Mexico, 2009.

Geological approaches to carbonate reservoir model construction: presented at the Reservoir Studies Group of the Society of Petroleum Engineers Luncheon, Midland, Texas, September 2008.

Reservoir heterogeneity within the Barnett Shale and associated seismic expression: core workshop co-presented with Angela McDonnell at SEG Development and Production Forum: Core Examples of Reservoir Heterogeneity, Austin, Texas, July 27-31 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.

Geological complexities in shale gas systems, in Coalbed methane and shale gas exploration strategies: Workshop for sorbed gas reservoir systems: presented as AAPG Course #15, AAPG Annual Convention, Houston, Texas, April 2008.

The Devonian Woodford Fm of the Permian Basin: complex depositional and temporal variations across from Anaerobic marine basin: presented at the AAPG Annual Convention, San Antonio, Texas, April 2008.

Depositional history and sedimentology of the Barnett Shale in the Ft. Worth Basin: presented at STARR/PTTC Seminar, Houston, Texas, November 14, 2006.

Depositional history and sedimentology of the Barnett Shale in the Ft. Worth Basin: presented at STARR/PTTC Seminar, Midland, Texas, November 8, 2006.

Key issues and questions in Paleozoic carbonate reservoir plays of the Permian Basin: presented at Permian Basin Section SEPM lunch, Midland, Texas, February 2005.

Geophysical imaging of facies and porosity in areas of poor well control: Fullerton Clear Fork field: presented to ExxonMobil, Houston, Texas, November 2004.

Reservoir facies, sequence stratigraphy, and reservoir architecture: Fullerton Clear Fork field: presented to ExxonMobil, Houston, Texas, November 2004.

Integrated synthesis of Permian Basin depositional history and stratigraphic architecture: data and models for recovering existing and undiscovered oil resources: presented at center for Energy and Economic Diversification, Midland, Texas, January 2004.

Leonardian cycle stratigraphy: definition and application: presented at joint West Texas Geological Society, Society of Petroleum Engineers, and Permian Basin Section--SEPM Workshop: Improving Oil and Gas Recoveries in the Clear Fork, Glorieta, and Wichita Formations, Midland, Texas, May 2001.

Sequence and cycle scale stratigraphy of the Leonardian lessons from outcrops and the subsurface: presented at PBS-SEPM Luncheon, Midland, Texas, March 2001.

Conodont-based strontium isotope chemostratigraphy of the Paleozoic: pushing the relative age-dating envelope: presented at Department of Geological Sciences, The University of Tennessee, Knoxville, Tennessee, October 2000.

Integrating outcrop and subsurface data for development of sequence stratigraphic models in carbonate successions: presented at Department of Geological Sciences, University of Tennessee, Knoxville, Tennessee, October 2000.

Characterization of proximal and distal Thirtyone chert reservoirs: Three Bar and University Waddell fields: West Texas Geological Society and Society of Petroleum Engineers Workshop, Midland, Texas, May 2000.

Borehole imaging logs for improved characterization of carbonate reservoirs: Petroleum Technology Transfer Council Workshop: Technology Updates for the Permian Basin, Midland, Texas, April 2000.

Use of borehole imaging logs for high resolution characterization of facies, cyclicity, and reservoir architecture: Block 9 and Fuhrman-Macho fields: Petroleum Technology Transfer Council Workshop: Reservoir Characterization Technologies for the Next Millennium: Virtual Reality, Multicomponent Seismic, Fracture Modeling, and Borehole Imaging, Midland, Texas, January 2000.

Application of borehole image logs to carbonate reservoir characterization: presented at Bureau of Economic Geology Colloquium, November 1999.

Unconformity-related porosity development in the San Andres Formation: Fuhrman-Mascho San Andres-Grayburg field: University Lands Advanced Recovery Initiative, Workshop No. 2, Application of Modern Concepts of Reservoir Characterization to Defining Remaining Resource Potential in University Lands Fields: Midland, TX, June 1998.

Current directions in carbonate reservoir characterization: presented at Midland College: Midland, TX, April 1998.

Depositional and diagenetic controls on reservoir heterogeneity in the Clear Fork Group, Central Basin Platform: presented during the introduction of the University Lands Advanced Recovery Initiative, Midland, Texas, November 1996.

Styles of reservoir development in Devonian and Silurian reservoirs, West Texas: presented during the introduction to the University Lands Advanced Recovery Initiative, Midland, Texas, November 1996.

Cycle stratigraphy of Clear Fork reservoir succession at South Wasson field: presented at the Carbonate RCRL annual meeting, Austin, October 1996.

Destruction of depositional controls on reservoir heterogeneity in a shallow water carbonate

reservoir: Grayburg Formation, South Cowden field: presented at Bureau of Economic Geology Colloquium, October 1996.

Destruction of depositional controls on reservoir heterogeneity in a shallow water carbonate reservoir: Grayburg Formation, South Cowden field: presented at Bureau of Economic Geology Colloquium, October 1996.

High Resolution $^{87}\text{Sr}/^{86}\text{Sr}$ Chemostratigraphy Using Conodonts: Implications for Dating of Depositional and Diagenetic Events in the Paleozoic: at the Department of Earth and Planetary Sciences, University of New Mexico, Albuquerque, November 1995.

Recent Improvements in the Record of Seawater $^{87}\text{Sr}/^{86}\text{Sr}$ for the Paleozoic: Implications for Dating of Depositional and Diagenetic Events: presented at Department of Geological Sciences, University of Texas at Dallas, May 1995.

Implications of geological characterization of the Monahans Clear Fork Reservoir to improved recovery in Leonardian carbonate reservoirs, Central Basin Platform: presented at Bureau of Economic Geology Colloquium, May 1994.

Depositional and diagenetic character of Hunton equivalent rocks in the Permian Basin of West Texas: presented at Oklahoma Geological Survey Hunton Group Core Workshop, Norman, Oklahoma, November 1993.

Effects of sea-level fall on porosity and permeability development in shallow-water platform carbonates, West Texas: presented at West Texas Geological Society Luncheon, Midland, Texas, August 1993.

Geological characterization of a complex restricted platform carbonate reservoir, Monahans Field, West Texas: presented at "New Oil and Gas Recovery Technologies Targeted for East Texas Hydrocarbon Reservoirs," a technology transfer seminar sponsored by the West Texas Geological Society and the Bureau of Economic Geology, Midland, Texas, August 1993.

Controls on reservoir development in Silurian and Devonian carbonates in West Texas with an example from the Three Bar field: presented to the University Lands Seminar, Midland, Texas, 1992.

Geological Analysis of the Monahans Clear Fork Reservoir: Directions and Goals: presented to the Center for Parallel Computation, Rice University, Houston, Texas, October 1990.

The Silurian and Devonian of West Texas: Facies, Depositional Setting, and Reservoir Development: presented to the University of Houston, Houston, Texas, October 1990.

Stratigraphic Framework and Facies Geometry: Monahans Clear Fork Reservoir, West Texas: presented to the Texas State Higher Education Coordinating Board, Austin, Texas, August 1990.

The Silurian and Devonian of the Permian Basin: Regional Patterns of Deposition and Diagenesis: presented to the Roswell Geological Society, Roswell, New Mexico, March 1990.

Patterns of Depositional and Diagenetic Facies Development in the Silurian and Devonian of West Texas: presented to Phillips Petroleum Company, Midland, Texas, February 1990.

Siluro-Devonian Carbonates in West Texas: Regional Patterns of Facies and Diagenesis: presented to West Texas Geological Society luncheon, Midland, Texas, January 1990.

Funding

Research Support

Principal Investigator: Permian Basin Geological Synthesis Program, Multiple industry sponsors (2004 - 2010, \$570,000).

Principal Investigator: Stratigraphy and petrophysics of the Yates and Seven Rivers Formations in Andrews and Gaines County, Texas, Lynx Producing Company (2006 - 2008, \$200,000).

Principal Investigator: Integrated Synthesis of the Permian Basin: Data and Models for Recovering Existing and Undiscovered Oil Resources from the Largest Oil-Bearing Basin in the U.S., U.S. Department of Energy (2004 - 2008, \$800,000).

Principal Investigator: Permian Basin Geological Synthesis Project, various industry sponsors (2005, \$171,000).

Co-Principal Investigator: Geological Characterization and Modeling of the North Dollarhide Field, West Texas, Occidental Corporation (2004 - 2005, \$50,000).

Co-Principal Investigator: Pennsylvanian Bituminous Coal, North Central Texas: Potential for Coalbed Methane Resource Development, U.S. Geological Survey (2001 - 2005, \$50,000).

Principal Investigator: Integrated Geological and Engineering Characterization of Fullerton Clear Fork Field in Andrews County, Texas, ExxonMobil Corporation (2002 - 2004, \$863,819).

Principal Investigator: Reviving Abandoned Reservoirs with High-Pressure Air Injection: Application in a Fractured and Karsted Dolomite Reservoir, U.S. Department of Energy (2002 - 2004, \$1,091,805).

Principal Investigator: Multidisciplinary Imaging of Rock Properties in Carbonate Reservoirs for Flow-Unit Targeting, U.S. Department of Energy (2001 - 2004, \$499,601).

Principal Investigator: Evaluation of Oil and Gas Resources on University Lands, The University of Texas System (1996 - 2003, \$85,649).

Principal Investigator: University Lands Advanced Recovery Initiative, The University of Texas System (1996 - 2003, \$1,269,041).

Co-Principal Investigator: Deep-Basin Local (Lignite) in Wilcox Group, Sabine Uplift, East Texas: Potential for Unconventional Coal Gas Resource Development, U.S. Geological Survey (2000 - 2001, \$20,000).

Principal Investigator: Refining the Geologic Time Scale: Integrated Biostratigraphy, Chemostratigraphy, and Sequence Stratigraphy, Texas Higher Education Coordinating Board Advanced Research Project (1999 - 2001, \$92,633).

Principal Investigator: Strontium Isotopic Signatures of Subsurface Brines: Key to Identifying Interreservoir Hydraulic Connectivity, Texas Higher Education Coordinating Board Advanced Research Project (1993 - 1995, \$146,739).

Principal Investigator: Conodont Chemostratigraphy: Improvements in the Geologic Time Scale through Strontium and Uranium-Lead Isotopic Dating, Texas Higher Education Coordinating Board Advanced Research Project (1992 - 1994, \$87,647).

Principal Scientist: Energy Research in Applications Program: Maximization of Petroleum Recovery Efficiency in West Texas, State of Texas (1989 - 1993, \$354,145).

Principal Investigator: Mudrock Systems Research Laboratory Industrial Associates Consortium (2009-Present; \$7,955,000).

Principal Investigator: Stratigraphy and Petrophysics of the Yates and Seven Rivers Formations in Andrews and Gaines County, Texas, Lynx Petroleum Co. (2006, 2006-continuing, \$158,303).

Publications

Peer Reviewed Authored Books

Ruppel, S. C., 2012, Anatomy of a giant carbonate reservoir: Fullerton Clear Fork field, Permian Basin, Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 276, 167 p.

Peer Reviewed Journal Articles

Loucks, R. G., Larson, T. E., Zheng, C. Y. C., Zahm, C. K., Ko, L. T., Sivil, J. E., Peng, S.,

Ruppel, S. C., and Ambrose, W. A., 2020, Geologic characterization of the type cored section for the Upper Cretaceous Austin Chalk Group in southern Texas: a combination fractured and unconventional reservoir: AAPG Bulletin, v. 104, no. 10, p. 2209-2245, <http://doi.org/10.1306/04222019197>.

Reed, R. M., Sivil, J. E., Sun, X., and Ruppel, S. C., 2019, Heterogeneity of microscale lithology and pore systems in an Upper Cretaceous Eagle Ford Group horizontal core, South Texas, U.S.A.: GCAGS Journal, v. 8, p. 22-34.

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>.

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>.

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>.

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>.

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., Sun, X., Milliken, K., Ruppel, S. C., and Enriquez, D., 2017, Empirical relationship between gas composition and thermal maturity in Eagle Ford Shale, south Texas: AAPG Bulletin, v. 101, no. 8, p. 1277-1307, <http://doi.org/10.1306/09221615209>.

Zhang, T., Wang, X., Zhang, J., Sun, X., Milliken, K., Ruppel, S. C., and Enriquez, D., 2017, Geochemical evidence for oil and gas expulsion in Triassic lacustrine organic-rich mudstone, Ordos Basin, China: Interpretation, v. 5, no. 2, p. SF41-SF61, <http://doi.org/10.1190/INT-2016-0104.1>.

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