

William A. Ambrose

Professional Summary

August 23, 2025

Business address: The University of Texas at Austin
Bureau of Economic Geology
10100 Burnet Rd., Bldg. 130
Austin, TX 78758
Telephone: (512) 471-0258
E-mail address: william.ambrose@beg.utexas.edu

Professional Preparation

Academic Background

M.A. Geology, The University of Texas at Austin, 1983

B.S. Geology, The University of Texas at Austin, 1979

Professional Appointments

Present Position: Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (January 1987 - present). Reserve-growth analysis of oil and gas fields in Texas, New Mexico, Venezuela, Mexico, and Australia. Subsurface analysis of depositional systems, sedimentary modeling, and production trend analysis of major Texas oil and gas plays. Evaluation of geologic factors controlling occurrence and producibility of coalbed methane in the Western United States. Evaluation of geologic controls on saline aquifers for CO₂ sequestration.

Research Geologist, Research Planning Institute of Texas (September 1984 - October 1986). Subsurface analysis of major Gulf Coast stratigraphic units (Vicksburg, Yegua, and Wilcox) through correlation of electric logs, seismic interpretation, depositional facies mapping, and detailed facies descriptions from cores and outcrops. Prepared written summaries of Gulf Coast exploration models for a variety of oil and gas companies.

Theses

Aggraded fluvial and tide-dominated deltaic deposits of the Spoon Formation (Pennsylvanian) in the Southern Illinois Basin, a shallow embayment: The University of Texas at Austin, Master's thesis, 106 p., August 1983

Continuing Education Courses Taken

Effective media communication skills: management short course presented by Ken Haizely (The Ammerman Experience) to AAPG officers and committee members, Galveston, Texas, February 2006

Getting things done: management short course presented by Hermann Eben (TrimTab Solutions) to AAPG Officers and Committee Members, Houston, Texas, November 2005

Quantitative geologic modeling of siliciclastic rock sequences and their seismic expression: Bureau of Economic Geology, Austin, TX, August 1989

Electric Log Correlation in Growth-Faulted Areas: American Association of Petroleum Geologists Short Course, 1985

Modern Clastic Depositional Environments: American Association of Petroleum Geologists Field Seminar, 1985

Areas of Expertise

Areas of Expertise

Coalbed methane
Oil and gas production analysis
Sedimentology
Subsurface mapping of clastic depositional systems

Awards

Awards and Honorary Societies

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

Southwest Section AAPG, A. I. Levorsen Memorial Award, 2016

AAPG Division of Environmental Geosciences Certificate of Merit, 2015

EMD (Energy Minerals Division of AAPG) Honorary Membership, presented at 2014 Annual AAPG Convention, Houston, Texas, April 9, 2014

EMD (Energy Minerals Division of AAPG) President's Certificate for Excellence in Poster Presentation for "Optimal Locations for Lunar Settlements and Industrial Facilities," presented at 2014 Annual AAPG Convention, Houston, Texas, April 9, 2014

2012 BEG Publication Award: BEG Report of Investigations No. 275, 2012

Outstanding Research Award, Jackson School of Geosciences, STARR Project, Co-Principal Investigator, 2010

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

EMD Distinguished Service Award, Energy Minerals Division of the American Association of Petroleum Geologists, awarded June 10, 2009

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

Past President's Award, Energy Minerals Division of the American Association of Petroleum Geologists, 2008

President's Certificate for Excellence in Presentation (Second-Best Oral Presentation), Energy Minerals Division, American Association of Petroleum Geologists, for "Near to Mid-Term Energy Mineral Sources: Bridging the Future to Alternative Energy", 2007

Best Presentation, Houston Geological Society International Series, "Upper Miocene and Pliocene Gas and Oil Plays in the Macuspana Basin, Southeastern Mexico", 2004

First Place Best Paper and A. I. Levorsen Memorial Awards, Gulf Coast Association of Geological Societies, "Miocene valley-fill, slope, and submarine-canyon systems in the Laguna Madre-Tuxpan area, Mexico", 2004

Best Paper (co-author), Society of Professional Well Analysts (SPWLA), 2002

First author of paper awarded as Best of AAPG for SPE (Society of Professional Engineers), 1997

First Author of second-best paper for in Gulf Coast Association of Geological Societies Transactions. Title of Paper: "Secondary natural gas recovery in mature fluvial sandstone reservoirs, Frio Formation, Agua Dulce field, South Texas, 1993

Co-author of best paper in Energy Minerals Division of the American Association of Petroleum

Geologists. Title of Paper: "Face-cleat patterns in Rocky Mountain foreland basins; permeability indicators for coalbed methane, 1992

Co-author of best paper in Energy Minerals Division of the American Association of Petroleum Geologists, "Geologic and hydrologic characterization of coalbed methane reservoirs, Fruitland Formation, San Juan Basin, Colorado and New Mexico", 1991

Service

University Committees

Member, Planetary Science Executive Committee, Jackson School of Geosciences, planetary science, Austin, Texas, January 1, 2014-December 2015

External Committees Participation

Vice Chair, Astrogeology Committee, AAPG, July 1, 2018-June 30, 2020

Chairman, EMD Coal Committee, AAPG, July 1, 2018-June 30, 2019

Co-Chair, Theme 9 (Exploration Frontiers, Energy Minerals, and Planetary Geology), AAPG, July 1, 2018-June 30, 2019

Chairman, Coal Committee, AAPG Energy Minerals Division, September 1, 2014-August 31, 2015

Co-Chair, Astrogeology Committee, AAPG, astrogeology, extraterrestrial mineral resources, September 1, 2014-August 31, 2015

Technical Reviewer, Search and Discovery, AAPG, oil and gas exploration and production, September 1, 2014-August 31, 2015

Technical Session Co-Chair, New Views of the Solar System, AAPG, Denver, Colorado, June 2, 2015

Theme Co-Chair, Energy and the Environment Committee, 2014 AAPG Annual Convention, June, 2013 - 2014

Theme 6 Co-Chair, "Energy and the Environment," 2014 AAPG Annual Convention, Houston, Texas, April 6-9, , Houston, Texas, April 5,, 2014

AAPG Astrogeology Committee Co-Chair, 2014 Annual Business Meeting, Houston, Texas, April 8, , Houston, Texas, April, 2014

Field Trip Leader, "Inside NASA Space Center Houston," 2014 AAPG Annual Convention, Houston, Texas, April 5, April, 2014

Session Chair, "Energy Frontiers in Space," 2014 Annual AAPG Convention, Houston, Texas, April 9, , Houston, Texas, April, 2014

Session Chair, "Water Management and Induced Seismicity, CO2 Capture and EOR," 2014 Annual AAPG Convention, Houston, Texas, April 9, , Houston, Texas, April, 2014

Chair, EMD Coal Committee, January, 2013 - 2014

Member, Planetary Science Executive Committee, Jackson School of Geosciences, , Austin, Texas, January, 2013 - 2014

Member, Planetary Science Executive Committee, Jackson School of Geosciences, , 2013 - 2014

Chair, EMD Luncheon, Gulf Coast Association of Geological Societies Convention, Austin, TexasOctober 23,, 2012

Co-Chair, Oral Session: Geology and the Environment, Gulf Coast Association of Geological Societies Convention, Austin, TexasOctober 22,, 2012

Citation Reader, Doris Malkin Curtis Medalist, Gulf Coast Association of Geological Societies Convention, Austin, Texas October 21,, 2012

Co-Chair, Astrogeology Oral Session, 2012 American Association of Petroleum Geologists Annual Convention, Long Beach, 2012

Co-Chair, Astrogeology Poster Session, 2012 American Association of Petroleum Geologists Annual Convention, Long Beach, 2012

Co-Vice Chair, Astrogeology Committee Annual Business Meeting, 2012 American Association of Petroleum Geologists Annual Convention, Long Beach, 2012

Coal Commodity Chair, Annual Business Meeting, EMD, 2012

Member, Honors and Awards Committee, Energy Minerals Division, American Association of Petroleum Geologists, 2012

Panel Moderator, First Grant Writer's Workshop, Bureau of Economic Geology, 2012

Co-Vice Chair, Astrogeology Committee, American Association of Petroleum Geologists, 2010 - 2012

Co-Convenor, Third Writer's Workshop, March 11, Bureau of Economic Geology, 2011

Co-Vice Chair and Organizer, Astrogeology Committee Annual Business Meeting, 2011 Annual AAPG Conference, Houston, Texas, 2011

Field Trip Co-Leader, Behind-the-Scenes Tour of NASA Space Center, Houston, 2011 Annual AAPG Conference, Houston, Texas, 2011

Session Chair, Third Writer's Workshop, Editor's and Author's Experiences, Bureau of Economic Geology, 2011

Session Co-Chair, Astrogeology, 2011 Annual AAPG Conference, Houston, Texas, 2011

Session Co-Chair, Clean Coal and Coalbed Methane, 2011 Annual AAPG Conference, Houston, Texas, 2011

Chair, Coal Committee, EMD, 2010 - 2011

Member, Bylaws Committee, Energy Minerals Division, American Association of Petroleum Geologists, 2010 - 2011

Member, Honors and Awards Committee, EMD, 2010 - 2011

Co-Chair, Astrogeology Committee, AAPG, 2008 - 2011

Master of Ceremonies, AAPG Divisions Luncheon, 60th Annual GCAGS Convention, San Antonio, Texas October 12,, 2010

Co-Chair, Astrogeology Committee Annual Business Meeting, 2010 American Association of Petroleum Geologists Annual Convention, New Orleans, 2010

Session Co-Chair, Oral and Poster Sessions, Impact of Collisions on Earth's History and the Occurrence of Hydrocarbons and Mineral Resources, 2010 American Association of Petroleum Geologists Annual Convention, New Orleans, 2010

Chair, EMD Coal Committee, AAPG, 2008 - 2010

Session Co-Chair, Oral Session: Energy Minerals in the Solar System: Resources for the 21st Century, American Association of Petroleum Geologists Annual Convention, Denver, Colorado, June 9, 2009

Co-Chair, Astrogeology Committee Annual Business Meeting, American Association of Petroleum Geologists Annual Convention, Denver, Colorado, June 8, 2009

Judge, Poster Session: Lunar Field Exploration Equipment and Sample Documentation,

American Association of Petroleum Geologists Annual Convention, Denver, Colorado, June 8, 2009

Co-Editor, Technical Volume, 29th Annual Gulf Coast Section SEPM Foundation Bob F. Perkins Research Conference, Houston, Texas, December 7, 2009, 2009

Member, Lunar Consortium for Higher Education, Center for Lunar Science and Exploration, NASA, 2009

Session Chair, Gas Hydrates Oral Session, 29th Annual Gulf Coast Section SEPM Foundation Bob F. Perkins Research Conference, Houston, Texas, December 7, 2009, 2009

Chair, Coal Committee, Energy Minerals Division, American Association of Petroleum Geologists, 2008 - 2009

Co-Chair, Astrogeology Committee, American Association of Petroleum Geologists, 2008 - 2009

Technical Editor, National Resources Review, Springer-Verlag, 2008 - 2009

Session Co-Chair, Oral Session: Snowball Earth and Planetary Climate Change Through Time, American Association of Petroleum Geologists, 2008 International Conference and Exhibition, Cape Town, South Africa, October 27, 2008

Session Co-Chair, Sub-Continental Scale Layered Intrusives And Lunar Mare Structures, American Association of Petroleum Geologists, 2008 International Conference and Exhibition, Cape Town, South Africa, October 27, 2008

Session Co-Chair, Oral Session: Current Research Issues in Lunar Stratigraphy, 2008 Geological Society of America Annual Meeting, Houston October 8, 2008

Co-Chair, Poster Session: EMD Coal, CBM, Uranium: Fuel for the Future, 2008 International Conference and Exhibition, Cape Town, South Africa October, 2008

Judge, Oral Session: EMD Coal and Non-Traditional Energy Resources, 2008 International Conference and Exhibition, Cape Town, South Africa October, 2008

Judge, Poster Session: EMD Gas Hydrates, 2008 International Conference and Exhibition, Cape Town, South Africa October, 2008

Co-Chair, Astrogeology Committee Annual Business Meeting, American Association of Petroleum Geologists Annual Convention, San Antonio, Texas April 21, 2008

Judge, Oral Session, Astrogeology: a Far-Sighted Look at Unconventional Resources, American Association of Petroleum Geologists Annual Convention, San Antonio, Texas April 21, 2008

Judge, Oral Session, Recent Advances in Coalbed Methane Exploration and Development, American Association of Petroleum Geologists Annual Convention, San Antonio, Texas April 21, 2008

Judge, Poster Session, Uranium Geology and Associated Ground Water Issues, American Association of Petroleum Geologists Annual Convention, San Antonio, Texas April 21, 2008

Session Co-Chair, Oral Session, Return to the Moon: Research, Resources, and Rewards, American Association of Petroleum Geologists Annual Convention, San Antonio, Texas April 21, 2008

Session Co-Chair, Poster Session, Geospatial Technology--a Map Gallery, American Association of Petroleum Geologists Annual Convention, San Antonio, Texas April 21, 2008

Session Co-Chair, Oral Session: Mars: Pingos, Polygons, and other Puzzles, XXXIX Lunar and Planetary Society Conference, League City, Texas, March 10, 2008

Co Chair, Astrogeology Committee, American Association of Petroleum Geologists, 2007 - 2008

Panelist, Lunar Reconnaissance Orbiter Participating Scientists Support Meeting, Dana Point,

California, NASA November 14-16, 2007

Session Chair, Oral Session: Applications of Geophysical Techniques: Energy Frontiers, 2007 Gulf Coast Association of Geological Societies Annual Conference, Corpus Christi, Texas October 23, 2007

Judge, Oral Session: Applications of Geophysical Techniques, 2007 Gulf Coast Association of Geological Societies Annual Conference, Corpus Christi, Texas October 22, 2007

Alternate Delegate, AAPG House of Delegates Meeting, American Association of Petroleum Geologists Convention, Long Beach, Austin Geological Society, 2007

EMD Representative, Advisory Council, American Association of Petroleum Geologists, 2007

Judge, Heavy Oil Provinces of the World, American Association of Petroleum Geologists Convention, Long Beach, Oral Session, 2007

Judge, Heavy Oil Provinces of the World, American Association of Petroleum Geologists Convention, Long Beach, Poster Session, 2007

Judge, Oral Session, Applications of Geophysical Techniques, 2007 Gulf Coast Association of Geological Societies Annual Conference, Corpus Christi, Texas, 2007

Moderator, Annual Business Meeting, American Association of Petroleum Geologists Convention, Long Beach, EMD, 2007

Moderator, Luncheon, American Association of Petroleum Geologists Convention, Long Beach, EMD, 2007

Session Chair, Near- to Mid-Term Energy Mineral Sources: Bridging the Future to Alternative Energy, American Association of Petroleum Geologists Convention, Long Beach, Oral Session, 2007

Session Chair, Oral Session, Energy Frontiers, 2007 Gulf Coast Association of Geological Societies Annual Conference, Corpus Christi, Texas, 2007

Vice Chair, Annual Business Meeting, American Association of Petroleum Geologists Convention, Long Beach, Astrogeology, 2007

President, Energy Minerals Division, American Association of Petroleum Geologists, 2006 - 2007

Vice Chair, Astrology Committee, American Association of Petroleum Geologists, 2006 - 2007

Acting EMD Representative, Distinguished Lecturer Committee Meeting, Houston, American Association of Petroleum Geologists, 2006

EMD President Representative, Advisory Council, 2006 American Association of Petroleum Geologists Annual Meeting, Dallas, 2006

EMD President-Elect Representative, Annual Business Meeting, EMD, 2006

EMD President-Elect Representative, Annual Luncheon, Houston, EMD, 2006

EMD President-Elect Representative, Gas Hydrates Committee Meeting, Houston, EMD, 2006

EMD President-Elect Representative, Gas Hydrates Committee Meeting, Houston, EMD, 2006

EMD President-Elect Representative, Unconventional Gas Resources Committee Meeting, Houston, EMD, 2006

EMD Representative, Astrogeology Committee Meeting, Houston, American Association of Petroleum Geologists, 2006

Judge, Oral Session, Louisiana Hurricane Impacts and Coastal Processes, 56th Annual Meeting of the Gulf Coast Association of Geological Societies, Lafayette, LA, 2006

Judge, Oral Session: Black Shales--What We Know and What We Need to Know, 2006 Eastern Section of American Association of Petroleum Geologists Meeting, Buffalo, NY, 2006

Judge, Poster Session: CO₂ sequestration--coals/shales/produced and unproduced reservoirs as sequestration targets, 2006 American Association of Petroleum Geologists Annual Meeting, Houston, 2006

Judge, Poster Session: Fractured clastics and carbonates--what constrains their reservoir limits?, 2006 American Association of Petroleum Geologists Annual Meeting, Houston, 2006

Judge, Student Job Quest Poster Session 1, 2006 Eastern Section of American Association of Petroleum Geologists Meeting, Buffalo, NY, 2006

President-Elect, Energy Minerals Division, American Association of Petroleum Geologists, 2005 - 2006

Judge, Technical Sessions, Calgary, 2005 Annual AAPG Convention, 2005

Gulf Coast Councilor, Energy Minerals Division, American Association of Petroleum Geologists, 2003 - 2005

Judge, Poster Session: Gas Hydrate Exploitation, Sediment Strength, and Slope Instability along Continental Margins, 2004 American Association of Petroleum Geologists Annual Meeting, 2004

Judge, Poster Session: Oil Sands and Other Unconventional Oil Plays, 2004 American Association of Petroleum Geologists Annual Meeting, 2004

Judge, Poster Session: Unconventional Gas, 2004 American Association of Petroleum Geologists Annual Meeting, 2004

Judge, Coastal Dynamics Technical Session, 53rd Annual Meeting of the Gulf Coast Association of Geological Societies, Baton Rouge, LA, 2003

Judge, Oral Session: Allocyclic Versus Autocyclic Processes, 2003 AAPG Annual Convention, 2003

Poster Judge, Technical Sessions and Poster Judges, Gulf Coast Association of Geological Societies 52nd Annual Convention, Austin, Texas, October, 2002

Judge, Case Histories II, Technical Session, Society of Exploration Geophysicists International Exposition, San Antonio, Texas, September 11, 2001

Proposal Review Panels Participation

Gulf Coast Association of Geological Society Transactions (Article), 2003

American Association of Petroleum Geologists Special Publication (Article), 2002

American Association of Petroleum Geologists Special Publication (Article), 2002

Gulf Coast Association of Geological Societies Transactions (Article), 2002

Teaching and Advising

University Courses Taught

The first billion years of the Solar System: presented at Bureau of Economic Geology Summer Seminar Series, Austin, Texas, July 12, 2013.

Coalbed methane and fluvial-deltaic reservoirs, East Texas field: presented to GEO 383R class, "Reservoir Geology," Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, September 26, 2012.

Clastic, carbonate, and shale-gas cores in the Gulf Coast: presented to Geology-1403 class, Austin Community College at the BEG Core Research Center, Austin, Texas, March 6, 2012.

Woodbine Group--Double A Wells field: presented at the Quantitative Clastics Laboratory Core Workshop: Wilcox Group, Lavaca Canyon/Woodbine Group, Double A Wells field, Houston, Texas, November 13, 2010.

Project STARR: geologic studies for oil and gas reserves growth in Texas: presented to the Iceland Trade Mission to the University of Texas, Austin, Texas, October 27, 2010.

Core description of the Glen Rose Formation, Alabama Ferry field, East Texas: presented to Geology 1403 class, Austin Community College at the BEG Core Research Center, Austin, Texas, October 18, 2010.

Destination: Moon: presented at Bureau of Economic Geology Summer Series seminar, Austin, Texas, August 13, 2010.

Observing the Moon through the telescope: presented at Bureau of Economic Geology Summer Series seminar, Austin, Texas, July 9, 2010.

Cosmic collisions in Earth's neighborhood: presented at the Bureau of Economic Geology, Summer Seminar Series, Austin, Texas, June 11, 2010.

The search for water on the Moon: presented at Bureau of Economic Geology research seminar, Austin, Texas, January 15, 2010.

Play and prospect characterization: examples from the southern Gulf of Mexico and the East Texas Basin: presented to The University of Texas at Austin GEO 384G class, Introduction to Subsurface Mapping and Petroleum Workstations, Austin, Texas, November 25, 2009.

Coalbed methane reservoirs and resources: presented to The University of Texas at Austin GEO 383R class, Reservoir Geology, Austin, Texas, October 15, 2009.

Big collisions in the solar system: the first billion years: presented at the Bureau of Economic Geology, Summer Seminar Series, Austin, Texas, July 17, 2009.

U.S. coalbed methane resources and reservoirs: presented to The University of Texas at Austin GEO 383R class, Reservoir Geology, Austin, Texas, November 20, 2008.

Mining the solar system for space exploration: presented at the Bureau of Economic Geology summer seminar series, Austin, Texas, June 27, 2008.

New interpretations of reservoir architecture in East Texas field: Sequence stratigraphic and depositional perspectives: presented at BEG Colloquium, Austin, Texas, November 30, 2007.

Energy mineral resources and economics: presented to GEO 391 (Current Issues in International Energy and Environmental Policy), The University of Texas at Austin, Austin, Texas, September 19, 2005.

What is an energy mineral and what can it do for you?: presented at BEG Seminar, Austin, Texas, August 26, 2005.

Moon crater morphology and styles of degradation: presented at BEG technical seminar, Austin, Texas, February 18, 2005.

Definition of the geological framework of the Neogene in the southern Laguna Madre-Tuxpan continental shelf of eastern Mexico: presented at BEG technical seminar, Austin, Texas, April 4, 2003.

Play assessment of Pliocene and Upper Miocene gas and oil reservoirs, Macuspana Basin, southeastern Mexico: Bureau of Economic Geology research seminar, The University of Texas at Austin, Austin, Texas, March 1, 2002.

History of the Bureau's coalbed methane investigations of the San Juan, Greater Green River, Piceance, Powder River, and Raton Basins in the late 1980's and early 1990's: Bureau of Economic Geology research seminar, The University of Texas at Austin, Austin, Texas, March 23, 2001.

Depositional controls on coalbed methane occurrence in the Fruitland Formation, San Juan Basin: Bureau of Economic Geology research seminar, The University of Texas at Austin, Austin, Texas, January 18, 2001.

Reservoir development and exploration: Bureau of Economic Geology research seminar, The University of Texas at Austin, Austin, Texas, August 18, 2000.

Interactive multidisciplinary continuing education website: Bureau of Economic Geology research seminar, The University of Texas at Austin (with Bob Hardage and Scott Rodgers), Austin, Texas, January 28, 2000.

Structural and Depositional Controls on Hydrocarbon Production in Estuarine, Tidal-Shelf, and Valley-Fill Sequences in the Misoa Formation (Eocene), Maraven Bloque I Area, Lake Maracaibo, Venezuela: Bureau of Economic Geology Weekly Seminar, Austin, Texas, March 19, 1997.

Characterization of tidally influenced deltaic reservoirs of Lagunillas field, Lake Maracaibo, Venezuela: Bureau of Economic Geology colloquium, May 12, 1993.

Structural and stratigraphic controls of coalbed methane in the Greater Green River, Piceance, Powder River, and Raton Basins (with Roger Tyler): Bureau of Economic Geology colloquium, May 1992.

Geologic controls on occurrence and producibility of coalbed methane resources in the Upper Cretaceous Fruitland Formation, San Juan Basin, Colorado and New Mexico: presented at the Bureau of Economic Geology, weekly seminar meeting, April 18, 1990.

Application of facies analysis to improve gas reserve growth in fluvial Frio reservoirs, La Gloria field, South Texas: Bureau of Economic Geology, weekly seminar meeting, March 9, 1988.

Continuing Education Courses Taught

Incised-valley and estuarine deposits in the Pennsylvanian Cleveland Formation, western Anadarko Basin: presented at Bureau of Economic Geology, Austin, Texas, January 2013.

Field Trips Leadership

Co-leader, Supplement to Guidebook 14, Field Trip to Pennsylvanian Depositional Systems: North-Central Area, Texas, October 8-10, 2009.

Co-leader, Paleokarst, Karst-Related Diagenesis, and Reservoir Development: Examples from Ordovician-Devonian Age Strata of West Texas and the Mid-Continent: Permian Basin Section - SEPM (Society for Sedimentary Geology), 1992.

Presentations

Invited Presentations

Exploring and living on the Moon: presented at UT OLLI SAGE Symposium Series, Austin, Tex., October 31, 2019.

State of Texas Advanced Oil and Gas Resource Recovery: presented at Bureau of Economic Geology 3E Research Symposium, Austin, Tex., October 18, 2019.

Exploring and living in space: presented at 20th Annual Austin Earth Science Career Day, Austin, Tex., October 11, 2019.

Oil and gas in Texas: the STARR program: presented at 10th East Texas Energy Symposium, Kilgore, Tex., May 7, 2019.

Canyon and Cisco Groups in the Eastern Shelf of the Permian Basin from outcrop to subsurface: presented to North Texas Geological Society, Wichita Falls, Tex., November 15, 2018.

State of Texas Advanced Oil and Gas Resource Recovery program: presented to Texas

Governor's Office of Economic Development and Tourism, Austin, Tex., October 4, 2018.

State of Texas advanced oil and gas resource recovery program: presented at 89th Panhandle Producers & Royalty Owners Association, Amarillo, Tex., September 20, 2018.

Unusual lunar craters: observations and origins: presented to Austin Astronomical Society, Austin, Tex., September 14, 2018.

STARR oil and gas program overview: presented to Bureau of Economic Geology Visiting Committee, University of Texas at Austin, August 16, 2018.

State of Texas advanced oil and gas resource recovery program: presented to staff members of Texas State Representative Four Price, Austin, Tex., May 25, 2018.

Oil and gas resources and challenges: local and global perspectives: presented at TCEQ Trade Fair and Conference, Austin, Tex., May 15, 2018.

State of Texas advanced oil and gas resource recovery program: presented at 9th East Texas Energy Symposium, Kilgore, Tex., May 1, 2018.

Giant impacts in the first billion years of the solar system: presented to East Texas Geological Society, Tyler, Tex., April 18, 2018.

Exploration, resource development, and settlement of the inner solar system: rewards and challenges: presented to Dallas Geological Society, Farmers Branch, Texas, December 13, 2017.

Lunar mysteries and wonders: presented to Austin Gem and Mineral Society, Austin, Texas, September 28, 2017.

The BEG STARR program: oil and gas for Texas: presented to SIPES, Corpus Christi Chapter, Corpus Christi, Texas, September 26, 2017.

Oil and gas in Texas: new life from old plays, new frontiers: presented to TCEQ Trade Fair, Austin, Texas, May 16, 2017.

The moon: stepping-stone to the planets: presented to Houston Geological Society, Houston, Texas, May 10, 2017.

Stratigraphic framework and depositional systems of the Canyon and Cisco Group, Eastern Shelf of the Permian Basin: presented to Abilene Geological Society, Abilene, Texas, April 20, 2017.

Depositional history of the upper Wilcox Group and lower Reklaw Formation, northern Bee County, Texas: presented to South Texas Geological Society, San Antonio, Texas, March 8, 2017.

The Shelf-to-Slope Transition in the Upper Cretaceous Woodbine Group in Northern Tyler and Southeastern Polk Counties, Texas:

Facies Variability and Controls on Reservoir Quality: presented to East Texas Geological Society, Tyler, Texas, December 16, 2015.

State of Texas Advanced Resource Recovery (STARR) oil and gas program overview: presented to Bureau of Economic Geology Visiting Committee, Austin, Texas, August 18, 2015.

State of Texas Advanced Resource Recovery (STARR) oil and gas program overview: presented to Texas Energy Resources Committee, Austin, Texas, July 20, 2015.

Bureau of Economic Geology-Pemex integrated basin and play assessment studies in Mexico: presented to Geology Foundation Advisory Council, Austin, Texas, March 27, 2015.

Water and hydrogen resources on the moon and Mars: presented to Austin Gem & Mineral Society, Austin, Texas, October 23, 2014.

Extraterrestrial water and hydrogen resources in the inner Solar System: presented to the Austin

Astronomical Society, Austin, Texas, September 12, 2014.

Presentations

Reflections of the Lower and Middle Frio Formation Along the South Texas Gulf Coast: presented to Gulf Coast Association of Geological Societies GeoGulf 2024, presented at GeoGulf 2024, San Antonio, TX, April 10-12, 2024.

Integrating lithofacies and chemofacies characterizations for the Permian Basin Wolfcamp XY and Third Bone Spring Formation, Delaware Basin, Texas: presented to American Association of Petroleum Geologists (AAPG-ACE), Denver, Colorado, October 2021.

Lithofacies segmentation in cores of Wilcox Group (Gulf of Mexico) and Spraberry Formation (Permian Basin) using U-net based convolutional neural networks: presented to SWS AAPG, presented at SWS AAPG annual meeting, Dallas, Tex., 2021.

Lithofacies Segmentation in Cores Using U-Net Based Convolutional Neural Networks With Uncertainty Feedback: presented to AAPG, presented at AAPG ACE 2021, Denver, Colo., 2021.

Oil Recovery by Water Imbibition and Wettability in Shale: presented to MSRL members, presented at Mudrock Systems Research Laboratory Annual Meeting, Austin, TX, April 8-10, 2020.

Lithofacies and Diagenetic Features of the Strawn Carbonates in King County (Texas): Implication for Reservoir Quality: presented to Geological Society of America (GSA), presented at 54th Annual Meeting of the South-Central Section, GSA, Fort Worth, Tex., March 9-10, 2020.

Transition from paleosols in the Woodbine Group to carbonates in the Austin Chalk, East Texas Field: A compressed transgressive succession from subaerial processes to deepwater deposition: presented at 69th Annual GeoGulf (formerly Gulf Coast Association of Geological Societies [GCAGS]) Conference, Houston, Tex., October 24, 2019.

Dangerous places in the solar system: presented at Bureau of Economic Geology Summer Seminar Series, Austin, Tex., July 12, 2019.

Shelf-to-basin architecture and depositional trends, Missourian-Wolfcampian strata of the Eastern Shelf of the southern Midland Basin, West Texas: presented at AAPG National Convention, San Antonio, Texas, May 21, 2019.

Return to the Moon: resources, risks, and rewards: presented at AAPG Annual Convention and Exhibition, San Antonio, Tex., May 20, 2019.

Return to the Moon: resources, risks, and rewards: presented at UT OLLI SAGE Symposium Series, Austin, Tex., April 29, 2019.

Outcrop to subsurface linkages, Canyon and Cisco Groups, Eastern Shelf of the Permian Basin: presented at AAPG Southwest Section, Irving, Tex., April 9, 2019.

Letco MV 9696.02 No. TOH-2A Settlemyre core, Leon County, Texas: presented at BEG-AGS core workshop, Austin, Tex., December 5, 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.

Preservation of reservoir quality by chlorite coats in deep Tuscaloosa sandstones, Central Louisiana, USA: presented at Annual Gulf Coast Association of Geological Societies Convention, Shreveport, La., October 2, 2018.

Depositional and diagenetic controls on reservoir quality in deepwater sandstones in the lower Wilcox Group, Lavaca Canyon Complex in the Hallettsville Embayment, Southeastern Texas Gulf Coast: presented at Annual Gulf Coast Association of Geological Societies Convention,

Shreveport, La., October 1, 2018.

A history of igneous activity on the moon: presented at Bureau of Economic Geology Summer Seminar series, University of Texas at Austin, June 22, 2018.

Depositional history and shoreline evolution of the upper Wilcox Group and lower Reklaw Formation, Northern Bee County, Texas: presented at AAPG Annual Convention and Exposition, Salt Lake City, Utah, May 23, 2018.

Volcanogenic resources for a sustained human presence on the moon: presented at AAPG Annual Convention and Exposition, Salt Lake City, Utah, May 23, 2018.

Depositional History and Shoreline Evolution of the Upper Wilcox Group and Lower Reklaw Formation, Northern Bee County, Texas: presented to AAPG Annual Meeting, Salt Lake City, Utah, May 20-23, 2018.

Depositional systems, facies variability, and their relationship to reservoir quality in the Jurassic Cotton Valley Group, Texas, Louisiana, and Mississippi onshore Gulf Coast: presented at annual GCAGS convention, San Antonio, Texas, November 3, 2017.

Slope channel and levee systems: Texaco No. 1-D Sterling, Sterling County, Texas: presented to Austin Geological Society, presented at BEG-STARR and Austin Geological Society core workshop: Shelf-to-Basin Architecture, Depositional Systems, and Facies Variability of the Southern Eastern Shelf of the Permian Basin, Austin, Texas, October 24, 2017.

Use of ejecta distribution to resolve relative ages of the Imbrium, Serenitatis, and Crisium Basins: presented to Bureau of Economic Geology, presented at Annual BEG Research Symposium, Austin, Texas, September 15, 2017.

The eight wonders of the lunar world: presented at Bureau of Economic Geology Summer Seminar Series, Austin, Texas, June 16, 2017.

STARR oil and gas program overview: presented to members and staff of the Texas State Government, presented at Bureau of Economic Geology, Austin, Texas, June 6, 2017.

STARR oil and gas program overview: presented to The University of Texas, Geology Foundation Advisory Council, presented at Bureau of Economic Geology, Austin, Texas, April 28, 2017.

Regional depositional framework of the southern part of the Eastern Shelf of the Permian Basin: presented to San Angelo State University undergraduate students, presented at Bureau of Economic Geology, Austin, Texas, April 7, 2017.

Living on the moon: lessons for Mars: presented at AAPG Annual Convention and Exposition, Houston, Texas, April 4, 2017.

Carl No. 1 Gillette and Apache No. 1-B Tips cores, Bee County, Texas: presented at Bureau of Economic Geology, Jackson School of Geosciences, and Austin Geological Society core workshop, Austin, Texas, October 20, 2016.

Space destinations: Moon, asteroids, and Mars: presented to Austin Astronomical Society, Austin, Texas, October 14, 2016.

Depositional systems, facies variability, and their relationship to reservoir quality in the Eocene Upper Wilcox Group in Fandango field, Zapata County, Texas: presented at 66th Annual GCAGS Convention, Corpus Christi, Texas, September 19, 2016.

Space frontiers: Moon, asteroids, and Mars: presented at Bureau of Economic Geology Summer Seminar Series, Austin, Tex., August 5, 2016.

Resource-development and environmental challenges for life on the space frontier: presented at AAPG Annual Convention and Exposition, Calgary, Alberta, June 20, 2016.

Facies variability and reservoir quality of incised-valley fill and shallow-marine sandstones in the

Upper Cretaceous Tuscaloosa Formation, central Louisiana: presented at Bureau of Economic Geology Seminar Series, Austin, Tex., May 6, 2016.

Representative oil and gas plays in the East Texas, Fort Worth, and Anadarko Basins: presented to Dallas Geological Society, Dallas, Tex., April 12, 2016.

STARR oil and gas program overview: presented to University Lands, Houston, Tex., March 23, 2016.

STARR oil and gas program overview: presented to University Lands, Houston, Texas, October 26, 2015.

Coalbed methane reservoirs and resources: presented to GEO 383R (Reservoir Geology) class, The University of Texas at Austin, Austin, Texas, September 24, 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: presented to GCAGS, presented at 65th Annual GCAGS Convention, Houston, Texas, September 22, 2015.

History of East Texas field: presented at BEG-GCAGS Core Workshop: Woodbine Sand and Eagle Ford Shale, Houston, Texas, September 19, 2015.

Regional sequence stratigraphy of the Woodbine Group: presented at BEG-GCAGS Core Workshop: Woodbine Sand and Eagle Ford Shale, Houston, Texas, September 19, 2015.

Woodbine depositional systems in East Texas field: presented at BEG-GCAGS Core Workshop: Woodbine Sand and Eagle Ford Shale, Houston, Texas, September 19, 2015.

Terraforming Mars: presented at Bureau of Economic Geology Summer Seminar Series, Austin, Texas, June 19, 2015.

Water and other volatiles on Mars: resource base and implications for terraforming: presented at AAPG Annual Conference, Denver, Colorado, June 2, 2015.

Regional Wilcox stratigraphy: presented at Bureau of Economic Geology, Jackson School of Geosciences, Core Workshop, Houston, Texas, May 5, 2015.

Tidal depositional systems in Pennsylvanian strata in the Anadarko Basin, northeast Texas Panhandle: presented at Southwest Section-AAPG Convention, Wichita Falls, Texas, April 13, 2015.

Depositional systems and facies in the Cenomanian-Turonian (Upper Cretaceous) Eaglebine Trend, Leon County and adjacent areas, Texas: presented to Austin Geological Society, presented at Core Workshop: Facies, depositional systems, and chemostratigraphy of the Upper Cretaceous of the South Texas-Louisiana Shelf and the Western Interior Seaway, Austin, Texas, December 3, 2014.

Facies variability and reservoir quality in the shelf-to-slope transition, Upper Cretaceous (Cenomanian) Woodbine Group, northern Tyler and southeast Polk Counties, Texas, USA: presented to Bureau of Economic Geology, The University of Texas at Austin, presented at the Bureau of Economic Geology Research Seminar, Austin, Texas, October 10, 2014.

Facies variability and reservoir quality in the shelf-to-slope transition, Upper Cretaceous (Cenomanian) Woodbine Group, northern Tyler and southeast Polk Counties, Texas, USA: presented to Gulf Coast Association of Geological Societies, presented at the 64th GCAGS Annual Convention, Lafayette, Louisiana, October 6, 2014.

Water and hydrogen resources on the Moon, Mercury, and Mars: presented at 2014 Annual AAPG National Convention, Houston, Texas, April 9, 2014.

Lunar crater morphology and ejecta distribution of the Imbrium, Serenitatis, and Crisium basins: presented to Planetary Geology and Geophysics Graduate Class, University of Texas at Austin,

Austin, Texas, January 23, 2014.

Water resources in the Solar System: presented at the West Texas Geological Society Annual Meeting, Midland, Texas, September 2013.

The future of clean coal in Texas: presented at Highland Lakes Energy Group, Marble Falls, Texas, August 2, 2013.

Optimal locations for lunar settlements and industrial facilities: presented at AAPG Annual Convention, Pittsburgh, Pennsylvania, May 22, 2013.

Oil and gas fields in Texas: New life from old plays, new frontiers: presented at the 2013 annual TCEQ Environmental Trade Fair and Conference, Austin, Texas, May 2013.

Facies variability, fracture heterogeneity, and reservoir properties of the Marble Falls Limestone, Jack County Texas: presented at the annual AAPG Southwest Section Convention, Fredericksburg, Texas, April 10 2013.

Distribution and origin of Imbrium ejecta in the Cleomedes Quadrangle, north and northwest Crisium Basin: presented at the 44th Lunar and Planetary Science Conference, The Woodlands, Texas, March 21 2013.

BEG clean-coal projects and prospects: presented to University of Queensland, Australian Delegation, Austin, Texas, February 11 2013.

Incised-valley and estuarine deposits in the Pennsylvanian Cleveland Formation, western Anadarko Basin: presented at soft-rock seminar, Jackson School of Geosciences, Austin, Texas, November 5, 2012.

Shelf-edge deltaic depositional system in the upper Woodbine succession, Double A Wells field, Polk County Texas: presented at the 62nd Gulf Coast Association of Geological Societies Conference, Austin, Texas, October 23, 2012.

Clean coal in the Texas Gulf Coast: presented at the 62nd Gulf Coast Association of Geological Societies Conference, Austin, Texas, October 22, 2012.

Strange craters and other lunar oddities: presented at Bureau of Economic Geology Summer Seminar Series, Austin, Texas, June 15, 2012.

Geologic controls on clean coal in Texas: presented at the Hill Country Geoscientists Luncheon, Kerrville, Texas, May 21, 2012.

Origin and distribution of hydrogen and water resources on the Moon: presented at the Houston Geological Society Northsiders luncheon, Houston, Texas, May 15, 2012.

Cores and Depositional Systems in the Wilcox Group, Bee County, Texas: presented to Formosa Petrochemical Corporation, Austin, Texas, May 11, 2012.

Lunar energy and mineral resources: new insights from the Lunar Reconnaissance Orbiter: presented at the Annual AAPG Convention, Long Beach, California, April 24, 2012.

Ejecta distribution and relative ages of the Imbrium, Serenitatis, and Crisium Basins: presented at 43rd Lunar and Planetary Science Conference, The Woodlands, Texas, March 22, 2012.

Crisium and Humorum Basins on the Moon: presented to the Austin Geological Society, Austin, Texas, March 5, 2012.

Oil-recovery strategies in the lower Woodbine Group, East Texas field: presented at SIPES/SPE/SMU 2011 Dallas E&P Forum, Dallas, Texas, December 13, 2011.

STARR oil and gas program overview: presented at Center for Energy Economics Annual Meeting and Forum, Houston, Texas, December 7, 2011.

Geologic controls on production in low-permeability (tight) sandstones in the Pennsylvanian Cleveland Formation, northwest Anadarko Basin: presented at AAPG Mid-Continent Section

Convention, Oklahoma City, Oklahoma, October 3, 2011.

Whither now, NASA and the United States?: presented with Bruce Cutright at the Bureau of Economic Geology Summer Seminar Series, Austin, Texas, August 12, 2011.

New insights from the lunar reconnaissance orbiter: presented at the Bureau of Economic Geology Summer Seminar Series, Austin, Texas, June 12, 2011.

Lunar geology and resources: new insights from the lunar reconnaissance orbiter: presented to the Austin Astronomical Society, Austin, Texas, May 13, 2011.

An overview of clean coal technologies and carbon capture and storage (CCS): presented at the Annual AAPG Conference, Houston, Texas, April 12, 2011.

The significance of lunar water-ice for rocket propellants and human settlement of the Moon: presented at AAPG field trip Behind-the-Scenes Tour of NASA Space Center, Houston, Texas, April 9, 2011.

Cores from the Woodbine Group in East Texas field and Tyler County and the Barnett Shale north of the Llano Uplift: presented to geology students from Austin Community College, Austin, Texas, April 6, 2011.

Woodbine Tyler County and Tuscaloosa Louisiana cores: presented to Border to Border Exploration, LLC, Austin, Texas, March 25, 2011.

Distribution and chronostratigraphy of ejecta complexes in the Humor Basin mapped from LROC and Lidar data: presented at the 42nd Lunar and Planetary Science Conference, The Woodlands, Texas, March 10, 2011.

Core summary of the Woodbine Group in East Texas field: presented to RIPED (Research Institute of Petroleum Exploration and Development), PetroChina Company Limited, Austin, Texas, November 18, 2010.

Sequence stratigraphic framework and depositional history of Oligocene Frio slope-fan, lowstand prograding wedge, and shallow-marine transgressive-regressive deposits in the Lavaca Bay area, Texas: presented at the 60th Annual GCAGS Convention, San Antonio, Texas, October 12, 2010.

History of impacts in the inner solar system: presented to the UT Planetary Organization for Space Sciences and Exploration, Austin, Texas, October 6, 2010.

Core summary, Deep Shelf Gas--Phase 3 Project: presented in, Houston, Texas, September 21, 2010.

Origin, distribution, and chronostratigraphy of asymmetric secondary craters and ejecta complexes in the Crisium Basin: presented at the Research Symposium Honoring the Scientific Contributions of William R. Muehlberger, Austin, Texas, August 28, 2010.

Sequence stratigraphy and depositional systems in the lower Woodbine Group, East Texas field: presented to CML Exploration, LLC, Austin, Texas, August 19, 2010.

Core summary and workshop, Deep Shelf Gas--Phase 3 Project: presented at semiannual meeting of the Deep Shelf Gas Project, Austin, Texas, April 29, 2010.

A survey of impact craters in the inner solar system: perspectives from Earth: presented at the 2010 Annual AAPG Convention, New Orleans, Louisiana, April 13, 2010.

Sequence stratigraphy, reservoir quality, and oil-recovery strategies in the lower Woodbine Group, East Texas field: presented to RPSEA, Austin, Texas, March 29, 2010.

Origin and distribution of hydrogen and water on the moon: presented to the UT Planetary Organization for Space Sciences and Exploration, Austin, Texas, March 24, 2010.

Oil-recovery strategies related to depositional architecture in fluvial-dominated deltaic and

bedload fluvial reservoirs in the lower Woodbine Group in East Texas field: presented to the East Texas Geological Society, Tyler, Texas, March 17, 2010.

Regional geologic studies and basin evolution and play concepts: Laguna Madre-Tuxpan area, Mexico: presented to ÍSOR Iceland Geosurvey, Reykjavik, Iceland, March 5, 2010.

The STARR Program: regional geologic studies for assessing potential hydrocarbon reservoirs: presented to ÍSOR Iceland Geosurvey, Reykjavik, Iceland, March 5, 2010.

Sequence stratigraphy and depositional systems in the Pennsylvanian Cleveland and Marmaton tight-gas sandstones, Anadarko Basin: presented to RIPED, Austin, Texas, December 18, 2009.

Gas hydrates overview: presented at the 29th Annual Gulf Coast Section SEPM Foundation Bob F. Perkins Research Conference, Houston, Texas, December 7, 2009.

The STARR Program: regional geologic studies for assessing potential hydrocarbon reservoirs: presented to the Republic of Iceland Energy Trade Mission, Austin, Texas, November 18, 2009.

Tidal depositional systems: Cleveland and Marmaton examples: presented at the Ellison Miles Institute, Farmers Branch, Texas, November 10, 2009.

Energy resources in the solar system: presented at The University of Texas at Austin Planetary Science Symposium, Austin, Texas, October 2, 2009.

Strategies for optimized oil recovery in fluvial-dominated deltaic reservoirs in the Lower Woodbine Group in East Texas field: presented at the Gulf Coast Association of Societies 2009 Annual Convention, Shreveport, Louisiana, September 28, 2009.

The first billion years of the solar system: presented to the Austin Gem and Mineral Society, Austin, Texas, September 24, 2009.

Sequence stratigraphy and depositional framework of the Frio Formation and Anahuac-Miocene section, Lavaca Bay, Texas: presented to Neumin Production Company, Austin, Texas, July 28, 2009.

Giant impact basins of the solar system: presented at the Annual AAPG Convention, Denver, Colorado, June 10, 2009.

Giant impact basins of the solar system: presented at the Annual AAPG Convention, Denver, Colorado, June 10, 2009.

The nearside megabasin: the largest basin on the Moon: presented at the Annual AAPG Convention, Denver, Colorado, June 10, 2009.

Facies architectural elements and sandstone-body continuity in highstand, fluvial-dominated deltaic reservoirs in the Upper Cretaceous Woodbine Group, East Texas field: presented at the Annual AAPG Convention, Denver, Colorado, June 9, 2009.

Recognizing publishing opportunities: Water ice on Mars and the Moon: presented at the Annual AAPG Convention, Denver, Colorado, June 9, 2009.

Water ice on Mars and the Moon: presented at the Annual AAPG Convention, Denver, Colorado, June 9, 2009.

Recognizing publishing opportunities: presented at the Bureau of Economic Geology Publication Council Writer's Workshop, Austin, Texas, May 21, 2009.

Recognizing publishing opportunities: presented at the Bureau of Economic Geology Publication Council Writer's Workshop, Austin, Texas, May 21, 2009.

Core summary deep shelf gas--Phase 3 Project: presented at the Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas, May 13, 2009.

East Texas Woodbine Project, STARR Program: presented at the Bureau of Economic Geology Industry Day Meeting, Austin, Texas, April 15, 2009.

Distribution and chronostratigraphy of asymmetric secondary craters in the Nectaris Basin: presented at the 40th Lunar and Planetary Science Conference, The Woodlands, Texas, March 24, 2009.

Highstand deltaic and lowstand valley-fill deposits in the Woodbine Group, East Texas field: presented to Excalibur Energy Corp., Austin, Texas, February 25, 2009.

Observing the geologic history of the Moon: presented to the Austin Astronomical Society, Austin, Texas, February 13, 2009.

Highstand deltaic and lowstand valley-fill deposits in the Woodbine Group, East Texas field: presented to Border to Border Exploration, L.L.C, Austin, Texas, January 21, 2009.

Core review of the Cleveland Formation, Lipscomb County, Texas: presented to Jones Energy, Inc., Austin, Texas, December 17, 2008.

Introduction to depositional systems, with application to East Texas field: presented to PTTC Texas/Southern New Mexico Region workshop, Sequence Stratigraphy and Depositional Systems of the Woodbine Group in East Texas Field: Core Workshop, Houston, Texas, November 18, 2008.

Sequence Stratigraphy and Depositional Systems of the Woodbine Group in East Texas Field: Core Workshop: BEG-PTTC Workshop No. SW0018 presented at Houston Research Center, Houston, Texas, November 18, 2008.

Clean coal: decarbonized power in North America: presented at American Association of Petroleum Geologists International Conference and Exhibition, Cape Town, South Africa, October 28, 2008.

The case for lunar maria as potential layered extrusives: presented at American Association of Petroleum Geologists International Conference and Exhibition, Cape Town, South Africa, October 27, 2008.

Timing, emplacement, and distribution of mare-fill units in Oceanus Procellarum, a large nearside lunar basin: presented at American Association of Petroleum Geologists International Conference and Exhibition, Cape Town, South Africa, October 27, 2008.

Distribution and chronostratigraphy of asymmetric secondary craters associated with lunar basins: presented at the Geological Society of America annual meeting, Houston, Texas, October 8, 2008.

Blackwood and Nichols No. 403 NEBU core, northern San Juan Basin and Lewis Shale, Pictured Cliffs Sandstone, and Fruitland Formation outcrop, State Highway 3, Durango, CO: core and outcrop presentation to QCL IA, Farmington, New Mexico, September 26, 2008.

Transgressive-regressive cycles in the Upper Pictured Cliffs Sandstone and controls on Fruitland Formation coal depocenters, NW San Juan Basin: presented to QCL IA, Farmington, New Mexico, September 25, 2008.

Core example of reservoir heterogeneity in the lower Woodbine Group, East Texas field: presented at SEG Development Forum, Austin, Texas, July 30, 2008.

Deltaic cores in the Woodbine Group, East Texas field: presented at Texas Regional Collaborative Teacher Workshop, Austin, Texas, June 10, 2008.

Depositional systems and sedimentary facies of coal-forming environments: presented in EMD Workshop 15, Coalbed Methane and Shale Gas Exploration Strategies: Workshop for Sorbed Gas Reservoir Systems, San Antonio, Texas, April 24, 2008.

Lunar oddities: asymmetric, non-main- sequence craters as indirect indicators of basin-scale impacts: presented at the Annual AAPG Convention, San Antonio, Texas, April 22, 2008.

Energy minerals in the solar system: resources for the 21st century: presented at the Annual

AAPG Convention, San Antonio, Texas, April 21, 2008.

Sequence stratigraphic controls from complex reservoir architecture in fluvial-dominated deltaic and lowstand valley-fill deposits in the Woodbine Group, East Texas field: presented at the Annual AAPG Convention, San Antonio, Texas, April 21, 2008.

Sequence stratigraphic controls on complex reservoir architecture in fluvial-dominated deltaic and lowstand valley-fill deposits in the Woodbine Group, East Texas field: presented to Jones Energy, Inc., Austin, Texas, April 3, 2008.

Origin, distribution, and chronostratigraphy of asymmetric secondary craters associated with nearside lunar basins: presented at the XXXIX Lunar and Planetary Society Conference, League City, Texas, March 11, 2008.

Transgressive-regressive cycles in the upper Pictured Cliffs Sandstone and controls on Fruitland coal depocenters, northwestern San Juan Basin: presented to the Four Corners Geological Society, Farmington, New Mexico, February 22, 2008.

Controls on crater degradation on the moon: presented at The University of Texas at Austin, Department of Geological Sciences Soft-Rock Seminar, Austin, Texas, January 28, 2008.

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

Woodbine depositional systems and facies in East Texas field: presented to PTTC Texas/Southern New Mexico Region workshop, Pilot Study of the East Texas Field: Geology, Engineering, and Potential Exploitation, Kilgore, Texas, October 30, 2007.

Woodbine depositional systems, southern pilot area, East Texas field: presented to PTTC Texas/Southern New Mexico Region workshop, Pilot Study of the East Texas Field: Geology, Engineering, and Potential Exploitation, Kilgore, Texas, October 30, 2007.

Depositional systems of uranium in south Texas: presented at the Gulf Coast Association of Geological Societies Annual Conference, Corpus Christi, Texas, October 23, 2007.

Woodbine depositional systems, southern pilot area, East Texas field: presented at the East Texas Engineering Association Annual Meeting, Kilgore, Texas, October 10, 2007.

Decarbonized power, energy for the future: clean coal, CO₂ sequestration, and the EOR prize in the Gulf Coast and Permian Basin: invited talk presented at the All-Division Luncheon, Southwest Section, AAPG Annual Convention, Wichita Falls, Texas, April 24, 2007.

Near- to mid-term energy mineral resources: bridging the future to alternative energy: presented at the 2007 AAPG Annual Convention, Long Beach, California, April 3, 2007.

The Energy Minerals Division of AAPG: presented to the AAPG House of Delegates, Long Beach, California, April 1, 2007.

Geologic factors controlling CO₂ storage capacity and permanence--techniques and case studies based on experience with heterogeneity in oil and gas reservoirs applied to CO₂ storage: poster presented to Austin Geological Society, Austin, Texas, March 5, 2007.

Update on the Energy and Minerals Division of AAPG: presented at the All-Division Luncheon of the 2006 Eastern Section of American Association of Petroleum Geologists Meeting, Buffalo, New York, October 10, 2006.

The Energy and Minerals Division of AAPG: presented at the Opening Session of the 2006 Eastern Section of American Association of Petroleum Geologists Meeting, Buffalo, New York, October 8, 2006.

FutureGen: clean-coal and near-zero-emission power generation technology for the Gulf Coast: presented at GCAGS Annual Convention, Lafayette, Louisiana, September 27, 2006.

The Energy Minerals Division of AAPG: presented at DPA Luncheon, GCAGS Annual

Convention, Lafayette, Louisiana, September 27, 2006.

Worldwide tidal depositional systems: presented as core workshop and lecture, Quantitative Clastic Laboratory Field Course: Tidal Reservoir Architectures, Austin, Texas, September 5-9, 2006.

Worldwide tidal depositional systems: presented to Quantitative Clastics Laboratory consortium members, Grand Junction, Colorado, September 8, 2006.

BEG-Pemex integrated basin and play assessment of the southern Laguna Madre-Tuxpan continental shelf, northeastern Mexico: presented to Quantitative Clastics Laboratory consortium members, Grand Junction, Colorado, August 15, 2006.

U.S. energy mineral resources and frontiers: presented to San Antonio Chapter, SIPES, San Antonio, Texas, July 20, 2006.

CO2 EOR plays and geologic controls on CO2 sequestration in the Gulf Coast and Permian Basin: presented at Southwest Section AAPG Annual Meeting, Midland, Texas, May 22-24, 2006.

U.S. energy minerals: unconventional resources for the future: presented at Southwest Section AAPG Annual Meeting, Midland, Texas, May 22-24, 2006.

Update on CO2 injection research at the Gulf Coast Carbon Center: presented at the 2006 TCEQ Environmental Trade Fair and Conference, Austin, Texas, May 10, 2006.

First-order relationships between lunar crater morphology, degree of degradation, and relative age: the crater degradation index: presented at American Association of Petroleum Geologists Annual Meeting, Houston, Texas, April 11, 2006.

Structural and stratigraphic controls on storage and CO2 EOR potential in major basins in Texas, California, Illinois, and Michigan: presented at American Association of Petroleum Geologists Annual Meeting, Houston, Texas, April 10, 2006.

Depositional systems and sedimentary facies of coal-forming environments: presented as part of AAPG workshop: Application of depositional systems to coalbed methane and shale gas exploration: core workshop for sorbed gas reservoir systems, Houston, Texas, April 7, 2006.

Depositional systems and sedimentary facies of coal-forming environments: presented as part of Application of depositional systems to coalbed methane and shale gas exploration: core workshop for sorbed gas reservoir systems: AAPG Short Course #13, Houston, Texas, April 7, 2006.

Review and description of coal and shale whole cores and mobile injection falloff laboratory: presented as part of Application of depositional systems to coalbed methane and shale gas exploration: core workshop for sorbed gas reservoir systems: AAPG Short Course #13, Houston, Texas, April 7, 2006.

Source-sink matching and potential for carbon capture and storage in the Gulf Coast: presented at the 2006 UIC Conference of the Groundwater Protection Council, Austin, Texas, January 25, 2006.

Description of GCCC CO2 projects: presented at the GCCC-PTTC Workshop, Reserve Growth Potential of CO2 Enhanced Oil Recovery along the Gulf Coast, Houston, Texas, December 13, 2005.

Geologic character of Gulf Coast reservoirs: presented at the GCCC-PTTC Workshop, Reserve Growth Potential of CO2 Enhanced Oil Recovery along the Gulf Coast, Houston, Texas, December 13, 2005.

Introduction to the Gulf Coast Carbon Center: presented at the GCCC-PTTC Workshop, Reserve Growth Potential of CO2 Enhanced Oil Recovery along the Gulf Coast, Houston, Texas, December 13, 2005.

FutureGen in Texas: alternative for electric generation: presented at the 2005 Global Energy and Environmental Issues Conference, Santa Fe, New Mexico, December 10, 2005.

The Gulf Coast Carbon Center: ongoing work: presented at the Third Annual CO2 Conference, Midland, Texas, December 7, 2005.

The Gulf Coast Carbon Center: presented to Mitteldeutsche Braunkohlengesellschaft mbH, Austin, Texas, November 22, 2005.

Gulf Coast Carbon Center: presented to Schlumberger Water and Carbon Services, Austin, Texas, August 19, 2005.

Gulf Coast Carbon Center update: presented to Gulf Coast Carbon Center partners, Houston, Texas, August 16, 2005.

Delineating CO2 sinks in the Gulf Coast: presented to Texas FutureGen project team, Austin, Texas, August 12, 2005.

Pliocene and upper Miocene gas plays in the Macuspana Basin: presented to Pemex Exploración y Producción, Coatzacoalcas, Mexico, April 27, 2004.

Geologic controls on Neogene deep-water and shelf gas plays, Laguna Madre-Tuxpan continental shelf, Eastern Mexico: presented at the American Association of Petroleum Geologists Annual Convention, Dallas, TX, April 19, 2004.

Definition of the geological framework and exploration plays of the Miocene of the Burgos Basin, northern Mexico: presented to Pemex Exploración y Producción, Poza Rica, Mexico, March 23, 2004.

Geologic framework of upper Miocene and Pliocene gas and oil plays in the Macuspana Basin, southeastern Mexico: presented to the Houston Geological Society, Houston, Texas, March 15, 2004.

BEG and Pemex basin- and play-analysis research: Laguna Madre-Tuxpan study: presented to Landmark Graphics Corporation, Austin, TX, March 4, 2004.

Play summary and workshop, Miocene plays, Burgos Basin: presented to Pemex Exploración y Producción, Reynosa, Mexico, February 25, 2004.

Final play definition and ranking: Miocene plays, Burgos Basin: presented to Pemex Exploración y Producción, Reynosa, Mexico, February 24, 2004.

Play definition and ranking: Miocene plays, Burgos Basin: presented to Pemex Exploración y Producción, Reynosa, Mexico, December 10, 2003.

BEG-Pemex integrated basin and play assessment studies in Mexico: presented to ChevronTexaco, Austin, TX, December 8, 2003.

Pliocene and upper Miocene gas plays in the Macuspana Basin: presented to Pemex Exploración y Producción, Villahermosa, Mexico, November 4, 2003.

Seismic facies and attribute analysis of the Miocene incised-valley-fill and submarine-canyon systems in Tuxpan Basin, offshore Mexico: presented at the International Exposition and 73rd Annual Meeting of the Society of Exploration Geophysicists, Dallas, TX, October 28, 2003.

Miocene valley-fill, slope, and submarine-canyon systems in the Laguna Madre-Tuxpan area, Mexico: presented at the Annual Meeting of the Gulf Coast Association of Geological Societies, Baton Rouge, LA, October 24, 2003.

BEG-Pemex integrated basin and play assessment of the southern Laguna Madre-Tuxpan continental shelf, northeastern Mexico: presented to the University of Texas Foundation Advisory Committee, Austin, TX, October 16, 2003.

Play summary and workshop, Miocene and Pliocene plays, Laguna Madre-Tuxpan area:

presented to Pemex Exploracion y Produccion, Poza Rica, Mexico, August 15, 2003.

Defining hydrocarbon plays in Mexico--a joint Bureau/PEMEX project: presented at Meeting of the Texas PTTC Producers Advisory Group (PAG) and State of Texas Policy Makers, Austin, Texas, May 22, 2003.

The Macuspana Basin, South Gulf of Mexico: impact of shale tectonics and late contraction of an extensional basin on hydrocarbon accumulation: presented at the American Association of Petroleum Geologists Annual Meeting, Salt Lake City, Utah, May 12, 2003.

Integrated study of the geologic framework and play assessment of the Macuspana Basin and Laguna Madre-Tuxpan projects: presented to Ing. Raul Muñoz-Leos and Pemex delegation, Austin, Texas, November 21, 2002.

BEG and Pemex basin- and play-analysis research: presented to Landmark Graphics Corporation, Austin, Texas, November 12, 2002.

Upper Miocene and Pliocene shallow-marine and deepwater, gas-producing systems in the Macuspana Basin, Southeastern México: presented at Gulf Coast Association of Geological Societies, 52nd Annual Convention, Austin, Texas, October 31, 2002.

Seismic imaging of upper Miocene fluvial reservoirs in the southern Macuspana Basin, Southeastern México: presented at Society of Exploration Geophysicists, International Exposition and Seventy-First Annual Meeting, Salt Lake City, Utah, October 10, 2002.

Play assessment of Pliocene and upper Miocene gas and oil reservoirs, Macuspana and Veracruz Basins, Southeastern México: presented to El Paso Production Company, Austin, Texas, July 10, 2002.

Study of evaluation of the Pliocene and upper Miocene plays of the Macuspana Basin: presented to Pemex Exploración y Producción, Tampico, Mexico, April 26, 2002.

Study of evaluation of the Pliocene and upper Miocene plays of the Macuspana Basin: presented to Pemex Exploración y Producción, Poza Rica, Mexico, April 24, 2002.

Pliocene and Miocene shoreface gas plays in the Macuspana Basin, southeastern México: presented at American Association of Petroleum Geologists Annual Meeting, Houston, Texas, March 12, 2002.

Gas reserves growth study of middle Frio fluvial gas reservoirs in La Gloria field, South Texas: presented to Katsumi Nakasuka (Teikoku Oil Co., Ltd.), Austin, Texas, January 17, 2002.

Coalbed methane: a significant source of unconventional gas in western North America, with additional potential in Texas and Mexico: presented at the 4th Conferencia Internacional Conjunta, Veracruz, Mexico, November 5, 2001.

Preliminary assessment of the coalbed methane potential of Mexico: presented at the 4th Conferencia Internacional Conjunta, Veracruz, Mexico, November 5, 2001.

Structural and stratigraphic controls on regional Miocene and Pliocene gas plays in the Macuspana Basin, southeastern Mexico: presented at the 4th Conferencia Internacional Conjunta, Veracruz, Mexico, November 5, 2001.

Valley-fill and estuarine depositional sequences inferred from cores and lithologic maps of Lower Eocene tide-dominated depositional reservoirs in the Lower Eocene Misosa Formation, Bloque I, Lake Maracaibo: guest lecture: L. F. Brown's Sequence Stratigraphy Short Course, Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas, April 25, 2001.

Facies mapping of fluvial gas reservoirs in Seeligson field, South Texas: presented to American Geological Institute and American Association of Petroleum Geologists, Austin, Texas, January 16, 2001.

Correlation of fluvial gas reservoirs in Stratton field, South Texas: presented to American

Geological Institute, Austin, Texas, August 31, 2000.

Siliciclastic depositional systems and component lithofacies in petroleum exploration and production: presented to PEMEX Exploration and Production, S. A., Veracruz, Mexico, August 7-11, 2000.

Stratigraphic framework and depositional systems analysis of shoreface and fluvial reservoirs at Corpus Christi Northwest and East Corpus Christi fields, Corpus Christi Bay: presented to Royal Exploration Company, Inc., Corpus Christi, Texas, April 25, 2000.

Oil- and gas-related research in Latin America: presented to Philip Vasquez, Deputy Assistant Secretary of the U. S. Department of Energy, Austin, Texas, October 14, 1999.

Fluvial and deltaic models for oil production in the Miocene Norte Area, Lake Maracaibo, Venezuela: presented at Revitalizacion de provincias petroliferas maduras, Tercera Conferencia Internacional Conjunta, Asociacion Mexicana de Geologos Petroleros and American Association of Petroleum Geologists, Veracruz, Mexico, October 12, 1999.

Application of RMS Amplitude anomaly mapping in inferring controls on fluid saturation and fault-bound reservoir compartments in the C4 Member (Lower Misoa Formation), Phase III Area, Bloque I Area, Lake Maracaibo, Venezuela: presented at 6th International Conference of the Brazilian Geophysical Society, Rio de Janeiro, August 18, 1999.

Seismic sedimentology of Miocene deposits in the Miocene Norte Area, Lake Maracaibo, Venezuela: presented at 6th International Conference of the Brazilian Geophysical Society, Rio de Janeiro, August 17, 1999.

Mesotidal barrier, tidal-channel, and ebb-tidal delta depositional analogues for the Lower Merecure T- MFS 80 reservoir, Guarico 13/10 Area, Eastern Venezuela: presented to Teikoku Oil de Sanvi-Guere, Austin, Texas, July 8, 1999.

Production optimization project, Lagunillas LL-652 field, Lake Maracaibo: presented to Exxon, Inc., Austin, Texas, February 19, 1999.

Virtual reality model of the Phase III structural and stratigraphic framework of the Phase III Simulation area, VLA-6/9/21 Area, Lake Maracaibo: presented to Larry Faulkner, President of the University of Texas at Austin, Austin, Texas, February 17, 1999.

Stratigraphic and structural framework of the Lower Misoa C Members in the Phase III Area: presented at PDVSA, Caracas, Venezuela, December 10, 11, 1998.

Oil-Recovery Potential of the Lower Misoa Formation (Lower Eocene), Maraven VLA-6/9/21 Area, Lake Maracaibo, Venezuela: presented at The Austin Geological Society, Austin, Texas, December 7, 1998.

Integrated reservoir study, Lower Eocene Misoa reservoirs, Pilar Sur, VLA-8 Area, Lake Maracaibo: presented at PDVSA, Maracaibo, Venezuela, November 18, 1998.

Results of Integrated Field Study, VLA-6/9/21 Area: presented to Japan Vietnam Petroleum Company (Mr. Sunao Takagi), Austin, Texas, November 6, 1998.

Geologic model for predicting fluid distribution in the Lower Misoa Formation, Bloque I Area, Lake Maracaibo, Venezuela: presentation in Spanish to members of Hydrology Organization from Mexico, Austin, Texas, October 1998.

Application of Landmark software to document reservoir architecture from 3-D seismic data in Lake Maracaibo, Venezuela: presented at Landmark Worldwide Technology Forum, Houston, Texas, February 25, 1998.

Integracion de sismica 3-D, Area Miocene Norte: presented to Lagoven, S. A., Austin, Texas, February 18, 1998.

Integrated reservoir study, lower Eocene Misoa reservoirs, VLA-6/9/21 Area, Block 1, Phase 2,

Stage 3: Maraven, S.A., Caracas, Venezuela, April 14, 1997.

Optimal oil recovery strategies in Miocene transgressive-barrier, coastal-plain, and mixed-load fluvial systems in the Mioceno Norte Area, Lake Maracaibo, Venezuela: American Association of Petroleum Geologists International Meeting, Caracas, Venezuela, September 11, 1996.

Depositional architecture of lacustrine-delta and fluvial systems of the Permian Epsilon and Toolachee Formations at Dullingari field, southeastern Cooper Basin, South Australia: American Association of Petroleum Geologists National Meeting, San Diego, May 21, 1996.

Core workshop: BA-24, A-22, LL-02, and LL-08 reservoirs, Mioceno Norte area, Lake Maracaibo, Venezuela: Lagoven, S.A., Maracaibo, Venezuela, October 11, 1994.

Three-dimensional facies architecture and strategic oil recovery in tide-dominated deltaic reservoirs of the Lower Misoa Formation (lower Eocene), LL-652 area, Lagunillas field, Maracaibo Basin, Venezuela: 1994 StrataModel symposium on 3-D reservoir characterization, Austin, Texas, July 26, 1994.

Production optimization through characterization of tide-dominated deltaic reservoirs of the Lower Misoa Formation (lower Eocene), LL-652 area, Lagunillas field, Maracaibo Basin, Venezuela: American Association of Petroleum Geologists (AAPG) annual meeting, Denver, Colorado, June 15, 1994.

Reservoir characterization of the LL-652 area, Lake Maracaibo: Latin American Journalists Program, part of the Texas International Educational Consortium, Austin, Texas, June 1, 1994.

Coalbed methane potential of the Greater Green River, Piceance, Powder River, and Raton Basins: American Association of Petroleum Geologists (AAPG) Rocky Mountain sectional meeting, Casper, Wyoming, September 15, 1992.

Geologic controls on coalbed methane occurrence and producibility in the Fruitland Formation, Cedar Hill field and COAL site, San Juan Basin, Colorado and New Mexico: Rocky Mountain Association of Geologists annual field conference, Glenwood Springs, Colorado, September 20, 1991.

Depositional controls on coalbed methane occurrence in the Fruitland Formation (Upper Cretaceous), San Juan Basin, Colorado and New Mexico: Geological Society of America meeting of Rocky Mountain and south-central sections, April 23, 1991.

Geologic controls on occurrence and producibility of coalbed methane in the Fruitland Formation, San Juan Basin: Houston Chapter of the Society of Independent Earth Scientists (SIPES) monthly meeting, Houston, Texas, November 15, 1990.

Barrier-strandplain deposits of the Pictured Cliffs Sandstone and coal occurrence in the Fruitland Formation, northern San Juan Basin, Colorado and New Mexico: American Association of Petroleum Geologists (AAPG) Rocky Mountain sectional meeting, Denver, Colorado, September 19, 1990.

Geologic controls on occurrence and producibility of coalbed methane resources in the Upper Cretaceous Fruitland Formation, San Juan Basin, Colorado and New Mexico: American Association of Petroleum Geologists (AAPG) annual meeting, San Francisco, California, June 6, 1990.

Depositional origin of oil and gas production in the Upper Cretaceous Olmos Formation, Maverick Basin, South Texas: Soft Rock Seminar, The University of Texas at Austin, Department of Geological Sciences, February 5, 1990.

Using electric logs to correlate sandstone reservoirs: GEO 391 graduate geology course at The University of Texas at Austin, February 5, 1990.

Depositional and structural origin of oil and gas plays in the Upper Cretaceous Olmos Formation, Maverick Basin, South Texas: Corpus Christi Geological Society monthly meeting,

January 17, 1990.

Facies heterogeneity, pay continuity, and infill potential in barrier-island, fluvial, and submarine-fan reservoirs: examples from the Texas Gulf Coast and Midland Basin: American Association of Petroleum Geologists (AAPG) annual meeting, San Antonio, Texas, April 25, 1989.

Infill potential of fluvial gas reservoirs in La Gloria field, South Texas: GEO 391 graduate geology course at The University of Texas at Austin, March 29, 1989.

Geologically Based Infill Potential of Fluvial Gas Reservoirs, La Gloria (Frio) Field, South Texas: South Texas Geological Society monthly meeting, San Antonio, Texas, October 12, 1988.

Facies Analysis of Fluvial Frio Reservoirs, La Gloria Field, Texas: Members of General Land Office at the Bureau of Economic Geology, July 28, 1988.

Application of facies analysis to improve gas reserve growth in fluvial Frio reservoirs, La Gloria field, South Texas: American Association of Petroleum Geologists (AAPG) annual meeting, Houston, Texas, March 23, 1988.

Fluid-injection potential of Miocene barrier island and wave-dominated deltaic sands in the Northeast Hitchcock and Alta Loma fields, Galveston County, Texas: Society of Economic Paleontologists and Mineralogists (SEPM) annual meeting, Austin, Texas, August 22, 1987.

Activities of a Professional Nature

Professional Societies

American Association of Petroleum Geologists

Houston Geological Society

Society of Economic Paleontologists and Mineralogists

Activities of a Professional Nature

Program Development: wrote proposal, Focused Research in Air Quality and Produced Water/Management in Oil and Gas E & P: Area of Interest 2: Produced Water Management, May 3, 2002

Program Development: wrote proposal, Macuspana Basin Updated Risked Onshore Play Assessment, 2004

Publications

Peer Reviewed Authored Books

Ambrose, W. A., Hentz, T. F., Rogers, H., and Carr, D. L., 2024, Regional and local variability in lowstand valley fill and deltaic deposits in the Tannehill sandstone (Cisco Group), Eastern Shelf of the Permian Basin: Austin, Tex., The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, v. 290, 48 p., <http://doi.org/10.23867/RI0290D>.

Ambrose, W. A., Hentz, T. F., and Smith, D. C., 2022, Facies variability and geologic controls on reservoir heterogeneity in deepwater slope reservoirs in the Pennsylvanian Cisco Group, Lake Trammel South field, Nolan County, Texas: Austin, Tex., The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, v. 288, 35 p., ISBN 978-1-970007-39-8, <http://doi.org/10.23867/RI0288D>.

Ogiesoba, O. C., and Ambrose, W. A., 2021, A systematic approach to identifying hydrocarbon sweet spots using integrated seismic multiattribute, wireline-log, and core analyses: case study from the Upper Cretaceous Taylor Serbin field, southeast Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, v. 287, 76 p., <http://doi.org/10.23867/RI0287D>.

Ambrose, W. A., Zeng, H., Zhang, J., Olariu, M. I., Smith, D. C., and Clift, S. J., 2018,

Depositional history and stratigraphic evolution of the Upper Wilcox Group and Reklaw Formation, northern Bee County, Texas: Austin, Texas, The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 284, 87 p., <http://doi.org/10.23867/RI0284D>.

Hentz, T. F., Ambrose, W. A., and Hamlin, H. S., 2017, Upper Pennsylvanian and Lower Permian shelf-to-basin facies architecture and trends, Eastern Shelf of the southern Midland Basin, West Texas: Bureau of Economic Geology, Report of Investigations, no. 282, 68 p.

Ambrose, W. A., Hentz, T. F., and Tussey, L. B., 2015, Pennsylvanian tidal depositional systems in the Anadarko Basin, northeast Texas Panhandle and northwest Oklahoma: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 280, 35 p.

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.

Ambrose, W. A., 2011, Sequence stratigraphy, depositional systems, and hydrocarbon play analysis of the Pennsylvanian Cleveland Formation and Marmaton Group, Anadarko Basin, North Texas and western Oklahoma: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 275, 98 p.

Peer Reviewed Journal Articles

Ambrose, W. A., 2024, Shelf and lower-shoreface deposits in the Upper Midway Group and the transition into fluvial-dominated deltaic deposits in the Hooper Formation (Lower Wilcox Group) in the southeastern Texas Gulf Coast: GCAGS Journal, v. 13, p. 34-52, <http://doi.org/10.62371/KCUK6360>.

Palacios, F. C., Steel, R. J., and Ambrose, W. A., 2024, Compound-clinoform model for tide-influenced deltas in the mixed siliciclastic-carbonate Cisco Group, Upper Pennsylvanian (Virgilian), Eastern Shelf of the Permian Basin, U.S.A.: Journal of Sedimentary Research, v. 94, no. 5, p. 686-713, <http://doi.org/10.2110/jsr.2023.064>.

Rogers, H. H., III, and Ambrose, W. A., 2024, Facies variability in paleogeographic trends from core data in the lower and middle Frio formation in South Texas: GCAGS Journal, v. 13, p. 15-33, <http://doi.org/10.62371/UIFF4478>.

Haddad, M., Ahmadian, M., Ge, J., Nicot, J.-P., and Ambrose, W., 2023, Geomechanical and hydrogeological evaluation of a shallow hydraulic fracture at the Devine Fracture Pilot Site, Medina County, Texas: Rock Mechanics and Rock Engineering, v. 56, no. 10, p. 7049-7069, <http://doi.org/10.1007/s00603-022-03115-z>.

Bhattacharya, S., Ambrose, W., Ko, L. T., and Casey, B., 2022, Integrated detection and investigation of bad borehole section in the Wolfcamp Formation in the Midland Basin using machine learning, petrophysics, and core characterization: Interpretation, v. 10, no. 3, p. C19-C27, <http://doi.org/10.1190/INT-2021-0165.1>.

Flaig, P. P., Denison, C. N., Ambrose, W. A., and Demchuk, T. D., 2022, Outcrop evidence for variations in channel-floodplain facies and stratal architectures across the Simsboro to Calvert Bluff transition, Wilcox Group, Butler, Texas: GCAGS Journal, v. 11, p. 83-103.

Roberts, A. K., Ambrose, W. A., Flaig, P. P., Steel, R. J., and Olariu, C., 2022, Controls on facies variability and distribution during the Pennsylvanian glacial period from the lower Strawn Group, Fort Worth basin, Texas: AAPG Bulletin, v. 106, no. 8, p. 1679-1702, <http://doi.org/10.1306/02072221057>.

Liu, L., Ambrose, W. A., Lawton, T. F., and Stockli, D. F., 2021, Tectonic controls on the evolution of mixed carbonate-siliciclastic systems: insights from the late Palaeozoic Ouachita-Marathon foreland, United States: Basin Research, v. 33, no. 4, p. 2281-2302,

<http://doi.org/10.1111/bre.12557>.

Zhang, J., Ambrose, W. A., and Xie, W., 2021, Applying convolutional neural networks to identify lithofacies of large-n cores from the Permian Basin and Gulf of Mexico: the importance of the quantity and quality of training data: *Marine and Petroleum Geology*, v. 133, no. 105307, 6 p., <http://doi.org/10.1016/j.marpetgeo.2021.105307>.

Ambrose, W. A., Flaig, P., Zhang, J., Olariu, M. I., Denison, C., Demchuk, T., and O'Keefe, J., 2020, The Midway to Carrizo succession in the southeastern Texas Gulf Coast: evolution of a tidally influenced coastline: *GCAGS Journal*, v. 9, p. 41-75.

Fu, Q., and Ambrose, W. A., 2020, Lithofacies and diagenetic features of Strawn carbonates in the subsurface of north-central Texas: implications for controls on reservoir quality: *GCAGS Journal*, v. 9, p. 115-132.

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>.

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.

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>.

Zhang, J., Rossi, V. M., Peng, Y., Steel, R., and Ambrose, W. A., 2019, Revisiting late Paleocene lower Wilcox deltas, Gulf of Mexico: river-dominated or mixed-process deltas?: *Sedimentary Geology*, v. 389, p. 1-12, <http://doi.org/10.1016/j.sedgeo.2019.05.007>.

Ambrose, W. A., and Dutton, S. P., 2018, Depositional and diagenetic controls on reservoir quality in deepwater sandstones in the Lower Wilcox Group, Lavaca Canyon Complex in the Hallettsville Embayment, southeastern Texas Gulf Coast: *GCAGS Journal*, v. 7, p. 1-20.

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.

Eluwa, A., Mohrig, D., Ogiesoba, O. C., and Ambrose, W. A., 2018, Depositional settings and history of the Lower Miocene Fleming Group, Refugio County, Texas, as defined using seismic geomorphology: *Marine and Petroleum Geology*, v. 92, p. 565-581, <http://doi.org/10.1016/j.marpetgeo.2017.11.021>.

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.

Fu, Q., Ambrose, W. A., and Barton, J. W., 2017, Reservoir characterization of the

Pennsylvanian Caddo Limestone in Stephens County, Texas: a case study of Komia-dominated algal mounds: *Marine and Petroleum Geology*, v. 86, p. 991-1013, <http://doi.org/10.1016/j.marpetgeo.2017.06.040>.

Hessler, A. M., Zhang, J., Covault, J., and Ambrose, W. A., 2017, Continental weathering coupled to Paleogene climate changes in North America: *Geology*, v. 45, no. 10, p. 911-914, <http://doi.org/10.1130/G39245.1>.

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.

Olariu, M. I., and Ambrose, W. A., 2016, Process regime variability across growth faults in the Paleogene Lower Wilcox Guadalupe Delta, South Texas Gulf Coast: *Sedimentary Geology*, v. 341, p. 27-49, <http://doi.org/10.1016/j.sedgeo.2016.05.013>.

Zeng, H., Ambrose, W. A., and Xu, W., 2016, Sediment dispersal patterns of the outer shelf to upper slope Paleocene-Eocene Wilcox Group, south-central Texas coast: *GCAGS Journal*, v. 5, p. 215-237.

Zhang, J., Steel, R., and Ambrose, W., 2016, Greenhouse shoreline migration: Wilcox deltas: *AAPG Bulletin*, v. 100, no. 12, p. 1803-1831, <http://doi.org/10.1306/04151615190>.

Ambrose, W. A., Breton, C., Nuñez-López, V., and Gülen, G., 2015, EOR potential from CO₂ captured from coal-fired power plants in the Upper Cretaceous (Cenomanian) Woodbine Group, East Texas Basin, and southeastern Texas Gulf Coast, USA: *Natural Resources Research*, v. 24, no. 2, p. 161-188, <http://doi.org/10.1007/s11053-014-9242-z>.

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.

Hackley, P. C., Warwick, P. D., Ambrose, W. A., Hammes, U., and 32 others, 2015, Unconventional Energy Resources: 2015 Review: *Natural Resources Research*, v. 24, no. 4, p. 443-508, <http://doi.org/10.1007/s11053-015-9288-6>.

Loucks, R. G., Reed, R. M., and Ambrose, W. A., 2015, Analysis of pore networks and reservoir quality of the Upper Cretaceous Woodbine sandstone in the high-recovery-efficiency, giant East Texas Field: *GCAGS Journal*, v. 4, p. 88-108.

Ambrose, W. A., 2014, Coal, in Warwick, P. D., and Hackley, P. C., eds., Unconventional energy resources: 2013 review: *Natural Resources Research*, v. 23, no. 1, p. 20-23, <http://doi.org/10.1007/s11053-013-9224-6>.

Ambrose, W. A., Hentz, T. F., and Smith, D. C., 2014, Facies variability and reservoir quality in the shelf-to-slope transition, Upper Cretaceous (Cenomanian) Woodbine Group, northern Tyler and southeastern Polk Counties, Texas, U.S.A.: *GCAGS Journal*, v. 3, p. 1-19.

Hentz, T. F., Ambrose, W. A., and Smith, D. C., 2014, Eaglebine play of the southwestern East Texas basin: Stratigraphic and depositional framework of the Upper Cretaceous (Cenomanian-Turonian) Woodbine and Eagle Ford Groups: *AAPG Bulletin*, v. 98, no. 12, p. 2551-2580, <http://doi.org/10.1306/07071413232>.

Olariu, M. I., Hammes, Ursula, and Ambrose, W. A., 2013, Depositional architecture of growth-fault related wave-dominated shelf edge deltas of the Oligocene Frio Formation in Corpus Christ Bay, Texas: *Marine and Petroleum Geology*, v. 48, p. 423-440.

Ambrose, W. A., Breton, C., Nuñez-López, V., and Gülen, G., 2012, Geologic and economic criteria for siting clean-coal facilities in the Texas Gulf Coast, USA: *Natural Resources Research*, v. 21, no. 4, p. 461-481.

Hentz, T. F., Ambrose, W. A., and Carr, D. L., 2012, Reservoir systems of the Pennsylvanian lower Atoka Group (Bend Conglomerate), northern Fort Worth Basin, Texas: high-resolution facies distribution, structural controls on sedimentation, and production trends: *AAPG Bulletin*, v. 96, no. 7, p. 1301-1332.

Ambrose, W. A., 2011, Coal, in Warwick, P. D., ed., *Unconventional energy resources: 2011 review*: *Natural Resources Research*, v. 20, no. 4, p. 280-282.

Ambrose, W. A., and Hentz, T. F., 2011, Depositional systems and facies variability in tidally modified shelf and estuarine systems in the Pennsylvanian Cleveland Formation, Anadarko Basin, North Texas and western Oklahoma, in Ambrose, W. A., ed., *Sequence stratigraphy, depositional systems, and hydrocarbon play analysis of the Pennsylvanian Cleveland Formation and Marmaton Group, Anadarko Basin, North Texas and western Oklahoma*: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 275, p. 35-66.

Ambrose, W. A., Breton, C., Hovorka, S. D., Duncan, I. J., Gülen, G., Holtz, M. H., and Nuñez-López, V., 2011, Geologic and infrastructure factors for delineating areas for clean coal: examples in Texas, USA: *Environmental Earth Science*, v. 63, p. 513?-532.

Ambrose, W. A., Hentz, T. F., Carr, D. L., and Sprowl, J., 2011, Oil- and gas-production plays and trends in the Pennsylvanian Marmaton Group and Cleveland Formation, Anadarko Basin, North Texas and western Oklahoma, in Ambrose, W. A., ed., *Sequence stratigraphy, depositional systems, and hydrocarbon play analysis of the Pennsylvanian Cleveland Formation and Marmaton Group, Anadarko Basin, North Texas and western Oklahoma*: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 275, p. 67-98.

Ambrose, W. A., and Hentz, T. F., 2010, Depositional systems and facies variability in highstand fluvial-dominated deltaic and lowstand valley-fill systems in the Lower Cretaceous (Cenomanian) Woodbine Group, East Texas field, in Hentz, T. F., ed., *Sequence stratigraphy, depositional facies, and reservoir attributes of the Upper Cretaceous Woodbine Group, East Texas field*: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 274, p. 17-81.

Ambrose, W. A., Breton, Caroline, Holtz, M. H., Nuñez-López, Vanessa, Hovorka, S. D., and Duncan, I. J., 2009, CO₂ source-sink matching in the lower 48 United States, with examples from the Texas Gulf Coast and Permian Basin: *Environmental Geology*: *Environmental Geology*, v. 57, p. 1537-1551.

Ambrose, W. A., Hentz, T. F., Bonnaffé, F., Loucks, R. G., Brown, L. F., Jr., and Wang, F. P., 2009, Sequence stratigraphic controls on complex reservoir architecture of highstand fluvial-dominated deltaic and lowstand valley-fill deposits in the Woodbine Group, East Texas field: regional and local perspectives: *AAPG Bulletin*, v. 93, p. 231-269.

Ambrose, W. A., Lakshminarasimhan, Srivatsan, Nuñez-López, Vanessa, Hovorka, S. D., and Duncan, I. J., 2008, Geologic factors controlling CO₂ storage capacity and permanence: case studies based on experience with heterogeneity in oil and gas reservoirs applied to CO₂ storage: *Environmental Geology*, v. 54, p. 1619-1633.

Nuñez-López, Vanessa, Wood, D. H., Ambrose, W. A., and Hovorka, S. D., 2008, Quick-look assessments to identify optimal CO₂ EOR storage sites: *Environmental Geology*, v. 54, p. 1695-1706.

Ambrose, W. A., and Ayers, W. B., Jr., 2007, Geologic controls on transgressive-regressive

cycles in the upper Pictured Cliffs Sandstone and coal geometry in the lower Fruitland Formation, Northern San Juan Basin, New Mexico and Colorado: AAPG Bulletin, v. 91, no. 8, p. 1099-1122.

Ambrose, W. A., Wawrzyniec, T. F., Fouad, Khaled, Sakurai, Shinichi, Jennette, D. C., Brown, L. F., Jr., Guevara, E. H., Dunlap, D. B., Talukdar, S. C., Aranda-García, Mario, Hernandez Romano, Ulises, Alvarado Vega, Juan, Macias Zamora, Eduardo, Ruiz-Ruiz, Héctor, and Cárdenas-Hernández, Ramón, 2005, Neogene tectonic, stratigraphic, and play framework of the southern Laguna Madre-Tuxpan continental shelf, Gulf of Mexico: AAPG Bulletin, v. 89, no. 6, p. 725-751.

Ambrose, W. A., Wawrzyniec, T. F., Fouad, Khaled, Talukdar, S. C., Jones, R. H., Jennette, D. C., Holtz, M. H., Sakurai, Shinichi, Dutton, S. P., Dunlap, D. B., Guevara, E. H., Meneses-Rocha, J., Lugo-Rivera, J. E., Aguilera, L., Berlanga, J., Miranda, L., Ruiz Morales, José, Rojas, R., and Solís, H., 2003, Geologic framework of upper Miocene and Pliocene gas plays of the Macuspana Basin, southeastern Mexico: AAPG Bulletin, v. 87, no. 9, p. 1411-1435.

Ambrose, W. A., Mendez, Milton, Akhter, M. S., Wang, F. P., and Alvarez, Regulo, 1998, Geologic controls on remaining oil in Miocene fluvial and shoreface reservoirs in the Mioceno Norte Area, Lake Maracaibo, Venezuela: Petroleum Geoscience, v. 4, p. 363-376.

Ambrose, W. A., and Ferrer, E. R., 1997, Seismic stratigraphy and oil recovery potential of tide-dominated depositional sequences in the Lower Misoa Formation (lower Eocene), LL-652 Area, Lagunillas field, Lake Maracaibo, Venezuela: Geophysics, v. 62, no. 5, p. 1483-1495.

Raeuchle, S. K., Ambrose, W. A., Akhter, M. S., Casas, Jhonny, Salamanca, Lourdes, Munoz, Pedro, and León, Alfredo, 1997, Integrated reservoir study, lower Eocene Misoa reservoirs, VLA-6/9/21 Area, Block I, Phase 2, Stage 2, Lagunillas field, north-central Lake Maracaibo, Venezuela: Geophysics, v. 62, no. 5, p. 1496-1509.

Laubach, S. E., Tyler, Roger, and Ambrose, W. A., 1995, Preliminary map of fracture patterns in coal in the western United States, in Myer, L. R., Cook, N. G. W., Goodman, R. E., and Tsang, C.-F., eds., Fractured and jointed rock masses: Rotterdam, Balkema, p. 177-184.

Laubach, S. E., Tyler, Roger, Ambrose, W. A., Tremain, C. M., and Grout, M. A., 1992, Preliminary map of fracture patterns in coal in the western United States, in Mullen, C. E., ed., Rediscover the Rockies: Wyoming Geological Association, 43rd Field Conference Guidebook, p. 253-267.

Ambrose, W. A., and Tyler, Noel, 1991, Facies heterogeneity, pay continuity, and infill potential in barrier-island, fluvial, and submarine-fan reservoirs: examples from the Texas Gulf Coast and Midland basins, in Miall, A. D., and Tyler, Noel, eds., The three-dimensional facies architecture of terrigenous clastic sediments and its implications for hydrocarbon discovery and recovery: Society of Economic Paleontologists and Mineralogists and Society for Sedimentary Geology, Concepts in Sedimentology and Paleontology, v. 3, p. 13-21.

Tyler, Noel, Gholston, J. C., and Ambrose, W. A., 1987, Oil recovery in a low-permeability, wave-dominated, Cretaceous, deltaic reservoir, Big Wells (San Miguel) field, South Texas: AAPG Bulletin, v. 71, no. 10, p. 1171-1195.

Tyler, Noel, and Ambrose, W. A., 1986, Facies architecture and production characteristics of strand-plain reservoirs in North Markham-North Bay City field, Frio Formation, Texas: AAPG Bulletin, v. 70, no. 7, p. 809-829.

Peer Reviewed Book Chapters

Ambrose, W. A., 2012, Chapter 1. The significance of lunar water ice and other mineral resources for rocket propellants and human settlement of the Moon, in Ambrose, W. A., Reilly, J. F., III, and Peters, D. C., eds., Energy resources for human settlement in the solar system and Earth's future in space: American Association of Petroleum Geologists, Memoir 101, p. 7-31.

Non Peer Reviewed Authored Books

Ambrose, W. A., Reilly, J. F., and Peters, D. C., eds., 2013, Energy Resources for Human Settlement in the Solar System and Earth's Future in Space, AAPG Memoir 101: AAPG, 213 p.

Ambrose, W. A., and Williams, D. A., eds., 2011, Recent advances and current research issues in lunar stratigraphy: Geological Society of America, Special Paper 477, 159 p.

Ambrose, W. A., Jones, R., Fouad, K., Wawrzyniec, T. F., Jennette, D., Sakurai, S., Dutton, S. P., Dunlap, D. B., Holtz, M. H., Sánchez-Barreda, L. A., Guevara, E. H., Meneses-Rocha, J., Lugo, J. E., Aguilera, L., Berlanga, J., Miranda, L., Morales, José, and Rojas, R., 2004, Sandstone architecture of upper Miocene and Pliocene shoreface, deltaic, and valley-fill complexes, Macuspana Basin, southeastern Mexico: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 270, 37 p.

Zeng, H., Ambrose, W. A., Villalta, Edgar, and Tyler, Roger, 2002, Seismic sedimentology by stratal slicing--a case history in the Mioceno Norte area, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 265, 41 p.

Ambrose, W. A., Mendez, Milton, Akhter, M. S., Fisher, R. S., Alvarez, Regulo, Wang, F. P., Skolnakorn, J., and Baghai, Nina, 1998, Geologic controls on reservoir architecture and hydrocarbon distribution in Miocene shoreface, fluvial, and deltaic deposits in the Mioceno Norte Area, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 252, 61 p.

Ambrose, W. A., Ferrer, E. R., Dutton, S. P., Wang, D. L., Padron, Antonio, Carrasquel, Williams, Tyler, Noel, and Yeh, J. S., 1995, Production optimization of tide-dominated deltaic reservoirs of the Lower Misoa Formation (lower Eocene), LL-652 Area, Lagunillas field, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 226, 46 p.

Tyler, Roger, Kaiser, W. R., Scott, A. R., Hamilton, D. S., and Ambrose, W. A., 1995, Geologic and hydrologic assessment of natural gas from coal: Greater Green River, Piceance, Powder River, and Raton Basins, western United States: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 228, 219 p.

Tyler, Noel, and Ambrose, W. A., 1986, Depositional systems and oil and gas plays in the Cretaceous Olmos Formation, South Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 152, 42 p.

Tyler, Noel, Gholston, J. C., and Ambrose, W. A., 1986, Genetic stratigraphy and oil recovery in an Upper Cretaceous wave-dominated deltaic reservoir, Big Wells (San Miguel) field, South Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 153, 38 p.

Tyler, Noel, and Ambrose, W. A., 1985, Facies architecture and production characteristics of strandplain reservoirs in the Frio Formation, Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 146, 42 p.

Non Peer Reviewed Journal Articles

Ambrose, W. A., 2019, Return to the Moon: resources, risks, and rewards: AAPG Search and Discovery, 23 p., Article no. 42413.

Ambrose, W. A., and Hentz, T. F., 2019, Outcrop to subsurface linkages, Canyon and Cisco Groups, Eastern Shelf of the Permian Basin: AAPG Search and Discovery, no. Article No. 11216, 29 p.

Hentz, T. F., and Ambrose, W. A., 2019, Lowstand deltas and incised valleys of the Tannehill sandstone (Cisco Group) of the southern Eastern Shelf of the Permian Basin, West Texas: Gulf Coast Association of Geological Societies (GCAGS) and Gulf Coast Section of SEPM

GeoGulf19 Houston 69th Annual Convention Transactions, v. 69, p. 97-110.

Ambrose, W. A., 2018, Volcanogenic resources for a sustained human presence on the moon: AAPG Search and Discovery, no. 80641, 27 p.

Ambrose, W. A., Zeng, H., Olariu, M. I., and Zhang, J., 2018, Depositional history and shoreline evolution of the upper Wilcox Group and lower Reklaw Formation, northern Bee County, Texas: AAPG Search and Discovery, no. 51502, 4 p.

Ogiesoba, O. C., Ambrose, W. A., and Loucks, R. G., 2018, Application of instantaneous dominant-frequency attributes and gamma-ray wireline logs in the delineation of lithology in Serbin Field, southeast Texas: A case study: Society of Exploration Geophysicists Technical Program Expanded Abstracts 2018, Anaheim, Calif., p. 1743-1747.

Ogiesoba, O. C., and Ambrose, W. A., 2017, Seismic attributes investigation of depositional environments and hydrocarbon sweet-spot distribution in Serbin field, Taylor group, central Texas: SEG Technical Program Expanded Abstracts, p. 2274, <http://doi.org/10.1190/segeab.36>.

Ambrose, W. A., and Cutright, B., 2016, Resource-development and environmental challenges for life on the space frontier: AAPG Search and Discovery, no. 70222, 29 p.

Ambrose, W. A., and Zeng, H., 2016, Wave-dominated shoreface systems in the Lower Luling Sand, Northern Bee County, South Texas: South Texas Geological Society Bulletin, v. 57, no. 3, p. 32-44.

Hentz, T. F., Ambrose, W. A., and Hamlin, H. S., 2016, Upper Pennsylvanian and Lower Permian shelf-to-basin facies architecture and trends, Eastern Shelf of the southern Midland Basin, West Texas: AAPG Search and Discovery, no. 10847, 6 p.

Ambrose, W. A., Hentz, T. F., and Tussey, L., 2015, Tidal depositional systems in Pennsylvanian strata in the Anadarko Basin, northeast Texas Panhandle: AAPG Search and Discovery, no. 10742, 27 p.

Hentz, T. F., and Ambrose, W. A., 2015, Stratigraphic and depositional context of the Eaglebine play: upper Cretaceous Woodbine and Eagle Ford Groups, southwestern East Texas Basin: AAPG Search and Discovery, no. 51094, 22 p.

Ambrose, W. A., 2014, Annual report of the AAPG Astrogeology Committee: AAPG Bulletin, v. 97, no. 12, p. 2272-2273.

Zeng, H., Ambrose, W. A., Yin, Z., and Xu, W., 2014, Shale tectonics controlled depositional history, Eocene Wilcox Group, central South Texas Coast: Gulf Coast Association of Geological Societies Transactions, v. 64, p. 463-471.

Ambrose, W. A., Beike, D., and Cutright, B. L., 2013, Optimal locations for lunar settlements and industrial facilities: AAPG Search and Discovery Article #70146, 4 p.

Ogiesoba, O. C., Hernandez, R., and Ambrose, W. A., 2013, 3D visualization of minibasins controlled by shale tectonics in the Frio Formation, South Texas Gulf Coast: Gulf Coast Association of Geological Societies (GCAGS), v. 63, p. 369-377.

Ambrose, W. A., 2012, Origin and distribution of hydrogen and water resources on the Moon: Houston Geological Society Bulletin, v. 54, no. 9, p. 25-29.

Ambrose, W. A., and Hentz, T. F., 2012, Shelf-edge deltaic depositional system in the upper Woodbine succession, Double A Wells field, Polk County Texas: GCAGS Transactions, v. 62, p. 3-12.

Ambrose, W. A., and Hentz, T. F., 2012, Shelf-edge deltaic depositional systems in the upper Woodbine succession, Double A Wells field, Polk County, Texas: Gulf Coast Association of Geological Societies Transactions, v. 62, p. 3-12.

Ambrose, W. A., Beike, D., and Cutright, B. L., 2012, Lunar energy and mineral resources: new

insights from the Lunar Reconnaissance Orbiter: AAPG Search and Discovery Article, #80213, 4 p.

Cutright, B. L., and Ambrose, W. A., 2012, Close Encounters with Asteroids and Comets: New Insights from Dawn to Galileo, in AAPG Annual Convention and Exhibition, April 22-25, Long Beach, California, Search and Discovery Article #90142.

Fongngern, R., and Ambrose, W. A., 2012, Variability of sandstone architecture and bypass systems of the Miocene Oakville and lower Lagarto Formations in the Carancahua Bay area, Texas Gulf Coast: Gulf Coast Association of Geological Societies Transactions, v. 62, p. 131-144.

Olariu, M. I., Hammes, U., Ambrose, W. A., and Loucks, R. G., 2012, Facies variability of the Oligocene Frio Formation in growth-faulted compartments in Corpus Christi Bay, Texas: Gulf Coast Association of Geological Societies Transactions, v. 62, p. 331-343.

Ambrose, W. A., and Williams, D. A., 2011, Introduction, in Ambrose, W. A., and Williams, D. A., eds., Recent advances and current research issues in lunar stratigraphy: Geological Society of America, Special Paper 477, p. v-viii.

Meckel, T., Hovorka, S. D., and Ambrose, W. A., 2011, Geologic factors controlling CO₂ storage capacity and permanence: Exploration and Production, v. 8, no. 2, p. 22 and 24.

Reilly, J. F., Ambrose, W. A., and Cutright, B. L., 2011, Annual report of the AAPG Astrogeology Committee: AAPG Bulletin, v. 95, no. 12, p. 2138-2139.

Ambrose, W. A., 2010, A survey of impact craters in the inner solar system: perspectives from Earth: AAPG Search and Discovery Article #70075, 34 p.

Ambrose, W. A., 2010, A survey of impact craters in the inner solar system: perspectives from Earth: AAPG Search and Discovery Article #70075, 34 p.

Ambrose, W. A., Johnson, B. E., Hammes, Ursula, and Johnstone, Dean, 2010, Sequence stratigraphic framework and depositional history of Oligocene Frio slope-fan, lowstand prograding wedge, and shallow-marine transgressive-regressive deposits in the Lavaca Bay area, Texas: Gulf Coast Association of Geological Societies Transactions, v. 60, p. 29-38.

Campbell, M. D., and Ambrose, W. A., 2010, Moon uranium has intriguing implications: AAPG Explorer, v. 31, no. 7 p. 16, 26.

Campbell, M. D., and Ambrose, W. A., 2010, Moon uranium has intriguing implications: AAPG Explorer, v. 31, no. 7 p. 16, 26.

Hentz, T. F., and Ambrose, W. A., 2010, Cleveland and Marmaton tight-gas reservoirs (Pennsylvanian), northwest Anadarko Basin: sequence stratigraphy, depositional framework, and production controls on tide-dominated systems: Houston Geological Society Bulletin, v. 52, no. 9, p. 25-29.

Reilly, J. F., and Ambrose, W. A., 2010, Annual report of the AAPG Astrogeology Committee: AAPG Bulletin, v. 94, no. 12, p. 1906-1907.

Ambrose, W. A., 2009, Ambrose, W. A., 2009, Timing, emplacement, and distribution of mare-fill units in Oceanus Procellarum, a large, nearside lunar basin: AAPG Search and Discovery Article #70063, 27 p.

Ambrose, W. A., 2009, Asymmetric craters on the moon, in Laubach, S. E., and Tinker, S. W., eds., 2009, Earth's art: celebrating the Centennial of the Bureau of Economic Geology, 1909-2009: The University of Texas at Austin, Bureau of Economic Geology, p. 16-17.

Ambrose, W. A., 2009, Coalbed methane, in Laubach, S. E., and Tinker, S. W., eds., Earth's art: celebrating the Centennial of the Bureau of Economic Geology, 1909-2009: The University of Texas at Austin, Bureau of Economic Geology, p. 110-111.

Ambrose, W. A., 2009, Giant impact basins of the solar system: AAPG Search and Discovery Article #70065, 28 p.

Ambrose, W. A., 2009, Nearside megabasin: the largest basin from the Moon: AAPG Search and Discovery Article #70066, 26 p.

Ambrose, W. A., 2009, Water ice on Mars and the Moon: AAPG Search and Discovery Article #80055, 28 p.

Ambrose, W. A., Hentz, T. F., Bonnaffe, Florence, Loucks, R. G., and Wang, D. L., 2009, Strategies for optimized oil recovery in fluvial-dominated deltaic reservoirs in the lower Woodbine Group, East Texas field: Gulf Coast Association of Geological Societies Transactions, v. 59, p. 35-47.

Platt, J., and Ambrose, W. A., 2009, Coal at center of power shift: AAPG Explorer, v. 50, p. 46, 50.

Ambrose, W. A., 2008, Annual report of the AAPG Energy Minerals Division: AAPG Bulletin, v. 91, no. 12, p. 1746-1747.

Ambrose, W. A., Potter, E. C., and Briceno, Romulo, 2008, An "unconventional" future for natural gas in the United States: Geotimes, v. 53, no. 2, p. 37-41.

Bonnaffe, Florence, Ambrose, W. A., Hentz, T. F., Wang, F. P., and Loucks, R. G., 2008, Three-dimensional architecture of lowstand incised-valley deposits in the Woodbine Group, northern East Texas Field: Gulf Coast Association of Geological Societies Transactions, v. 58, p. 135-141.

Schmitt, H. H., and Ambrose, W. A., 2008, Annual report of the AAPG Astrogeology Committee: AAPG Bulletin, v. 91, no. 12, p. 1746-1747.

Schmitt, H. H., and Ambrose, W. A., 2008, Annual report of the AAPG Astrogeology Committee: AAPG Bulletin, v. 92, no. 12, p. 1697.

Wang, F. P., Ambrose, W. A., Hentz, T. F., Bonnaffe, Florence, and Loucks, R. G., 2008, Engineering and geological characterization of giant East Texas oil field: north and south pilot studies: Society of Petroleum Engineers, Paper No. 115683-PP, 15 p.

Ambrose, W. A., 2007, Decarbonized power, energy for the future: clean coal, CO2 sequestration, and EOR prize in the Gulf Coast and Permian Basin: AAPG Search and Discovery Article #80006, 3 p.

Ambrose, W. A., 2007, Depositional systems of uranium in South Texas: Corpus Christi Geological Society Bulletin, October, p. 15-37.

Ambrose, W. A., 2007, Depositional systems of uranium in South Texas: Gulf Coast Association of Geological Transactions, v. 57, p. 5-16.

Ambrose, W. A., and Testa, S. M., 2007, EMD sets 'unconventional' sessions: AAPG Explorer, v. 28, no. 2, p. 41.

Ambrose, W. A., Hentz, T. F., Wang, F. P., Bonnaffe, Florence, Loucks, R. G., and Potter, E. C., 2007, Core Workshop: Woodbine Group, East Texas Field, in Ambrose, W. A., and others, Pilot Study of East Texas Field: Geology, Engineering, and Potential Exploitation Workshop: The University of Texas at Austin, Bureau of Economic Geology, State of Texas Advanced Resource Recovery and Petroleum Technology Transfer Council Workshop No. SW0017, 21 p.

Lee, Keumsuk, Tomasso, Mark, Ambrose, W. A., and Bouroullec, Renaud, 2007, Integration of GPR with stratigraphic and lidar data to investigate behind-the-outcrop 3D geometry of a tidal channel reservoir analog, upper Ferron Sandstone, Utah: The Leading Edge, August, 994-998.

Ambrose, W. A., 2006, 'FutureGen' holds promise for coal: AAPG Explorer, v. 27, no. 8, p. 48, 50.

Ambrose, W. A., Holtz, M. H., Nuñez-Lopez, Vanessa, Breton, C. L., Gülen, Gürcan, Duncan, Ian, Smyth, R. C., Foss, M. M., Lakshminarasimhan, Srivatsan, and Hovorka, S. D., 2006, FutureGen: clean-coal and near-zero-emission power generation technology for the Gulf Coast: Gulf Coast Association of Geological Societies Transactions, v. 56, p. 5-13.

Duncan, I. J., Ambrose, W. A., Holtz, M. H., Hovorka, S. D., Esandoh-Yeddu, Joseph, Nuñez López, Vanessa, Nicot, J. -P., Smyth, R. C., and Lakshminarasimhan, Srivatsan, 2006, The Gulf Coast Carbon Center: developing a carbon sequestration industry in the Gulf Coast region, in 8th International Conference on Greenhouse Gas Control Technologies, Trondheim, Norway, June 19-22, CD-ROM [4 p.].

Ambrose, W. A., Wawrzyniec, T. F., Fouad, Khaled, Sakurai, Shinichi, Jennette, D. C., Guevara, E. H., Talukdar, S., Aranda, M., Hernandez, U., Macias, E., Velez, D., Sanchez, F., Lopez, G., and Flores, J. C., 2004, Stratigraphic architecture of lower Miocene deepwater slope-channel and levee systems, Tuxpan Platform and adjacent area, offshore continental shelf, Gulf of Mexico: Gulf Coast Association of Geological Societies Transactions, v. 54, p. 1-10.

Guevara, E. H., Ambrose, W. A., Aranda-García, M., Dunlap, D. B., Wawrzyniec, T. F., Fouad, K., and Hernández-Romano, U., 2004, Relationship between upper Miocene-Pliocene depocenters in offshore southern Laguna Madre-Tuxpan and modern river axes in eastern Mexico: clues to Neogene sediment dispersal in the southwestern Gulf of Mexico: Gulf Coast Association of Geological Societies Transactions, v. 54, p. 215-224.

Guevara, E. H., Ruiz-Ruiz, H. F., Ambrose, W. A., Martinez-Garcia, J., Wawrzyniec, T. F., Rico-Pérez, J., Dunlap, D. B., Fouad, K., and Aranda-García, M., 2004, Planktonic foraminifera and calcareous nannoplankton data used to define the regional geologic framework of the Neogene in the southern Laguna Madre-Tuxpan continental shelf, eastern Mexico: Gulf Coast Association of Geological Societies Transactions, v. 54, p. 225-235.

Ambrose, W. A., Fouad, Khaled, Jennette, David, Brown, L. F., Jr., Wawrzyniec, T. F., Sakurai, Shinichi, Guevara, E. H., Aranda, Mario, Alvarado, Juan, Hernandez, Ulises, Macias, Eduardo, Velez, D., Sanchez, F., Lopez, G., and Flores, J. C., 2003, Miocene valley-fill, slope, and submarine-canyon systems in the Laguna Madre-Tuxpan area, Mexico: Gulf Coast Association of Geological Societies Transactions, v. 53, p. 11-18.

Sakurai, Shinichi, Ambrose, W. A., Jennette, D. C., Holtz, M. H., Dutton, S. P., Fouad, Khaled, Wawrzyniec, T. F., Dunlap, D. B., Guevara, E. H., Grimaldo-Suárez, F. M., Aguilera-Gómez, L. E., and Rodríguez-Larios, J. A., 2003, Petrophysical evaluation of Miocene-Pliocene gas reservoirs: Veracruz and Macuspana Basins, Mexico: Petrophysics, v. 44, no. 2, p. 116-125.

Wawrzyniec, Tim, Fouad, Khaled, Schultz-Ela, Dan, Ambrose, William, Jennette, David, Sakurai, Shinichi, Guevara, Edgar, Aranda, Mario, Alvarado, Juan, Hernandez, Ulises, Macias, Eduardo, Roman, J., Rosas, C., Rosas, K., and Salomon, L. E., 2003, Cenozoic deformational styles of the Laguna-Madre - Tuxpan Shelf and Mexican ridges fold belt, Mexico: Gulf Coast Association of Geological Societies Transactions, v. 53, p. 843-854

Ambrose, W. A., F., Khaled, Miranda, L., and Aguilera, L., 2002, Seismic imaging of upper Miocene fluvial reservoirs in the southern Macuspana Basin, southeastern México, in Society of Exploration Geophysicists, International Exposition and 72nd Annual Meeting, Paper 513, 4 p., CD-ROM.

Ambrose, W. A., Jones, Rebecca, Wawrzyniec, Tim, Fouad, Khaled, Dutton, S. P., Jennette, D. C., Elshayeb, Tarek, Sánchez-Barreda, Luis, Solis, Hector, Meneses-Rocha, Javier., Lugo, Jorge, Aguilera, Leonardo, Berlanga, Jose, Miranda, Lino, Ruiz Morales, José, and Rojas, Roberto, 2002, Upper Miocene and Pliocene shallow-marine and deepwater, gas-producing systems in the Macuspana Basin, southeastern Mexico: Gulf Coast Association of Geological Societies Transactions, v. 52, p. 3-12.

Dutton, S. P., Jennette, David, Ambrose, W. A., and Martínez, M., 2002, Petrography and reservoir quality of Tertiary deepwater sandstones in the Veracruz Basin, Mexico: Gulf Coast

Association of Geological Societies Transactions, v. 52, p. 229-240.

Jennette, David, Wawrzyniec, T. F., Fouad, Khaled, Meneses-Rocha, J., Holtz, M. H., Sakurai, Shinichi, Talukdar, S., Grimaldo, F., Muñoz, R., Lugo-Rivera, J. E., Barrera, D., Williams, C., Escamilla, A., Dutton, S. P., Ambrose, W. A., Dunlap, D. B., Bellian, J. A., and Guevara, E. H., 2002, Play-element characterization of the Miocene and Pliocene Veracruz Basin, southeastern Mexico: Gulf Coast Association of Geological Societies Transactions, v. 52, p. 441-453.

Jones, R., Ambrose, W. A., Holtz, M. H., Jennette, David, Solis, H., Meneses-Rocha, J., Lugo-Rivera, J. E., Aguilera, L., Berlanga, J., Miranda, L., and Rojas, R., 2002, Delineation and analysis of upper Miocene and Pliocene gas plays in the Macuspana Basin, southeastern Mexico: Gulf Coast Association of Geological Societies Transactions, v. 52, p. 469-478.

Sakurai, Shinichi, Grimaldo-Suárez, F. M., Aguilera-Gómez, L. E., Rodríguez-Larios, J. A., Ambrose, W. A., Jennette, D. C., Holtz, M. H., Dutton, S. P., Fouad, Khaled, Wawrzyniec, T. F., and Guevara, E. H., 2002, Petrophysical evaluation of Miocene-Pliocene gas reservoirs: Veracruz and Macuspana Basins, Mexico, in Society of Petrophysicists and Well Log Analysts 43rd Annual Logging Symposium Transactions, June 2-5, Oiso, Japan, 14 p.

Talukdar, S., Guevara, E. H., Jones, R., Galindo, Agustin, Romero, M. L., Wawrzyniec, T. F., Villanueva, Laura, Fouad, Khaled, Ambrose, W. A., Jennette, David, Dunlap, D. B., Meneses-Rocha, J., Sánchez-Barreda, L. A., and Lugo-Rivera, J. E., 2002, Hydrocarbon source and charge in the Neogene in the Macuspana and Veracruz Basins, Mexico: Gulf Coast Association of Geological Societies Transactions, v. 52, p. 925-934.

Zeng, Hongliu, Ambrose, W. A., and Villalta, Edgar, 2001, Seismic sedimentology and regional depositional systems in Miocene Norte, Lake Maracaibo, Venezuela: The Leading Edge, v. 20, no. 11, p. 1260-1269.

Hovorka, S. D., Romero, M. L., Warne, A. G., Ambrose, W. A., Tremblay, T. A., and Treviño, R. H., 2000, A tool to facilitate modeling and pilot projects for sequestration of carbon dioxide in saline formations: American Chemical Society, Division of Fuel Chemistry, 6 p.

Mizobe, Akira, Pestman, Pieter, Takimoto, Toshiaki, Hamilton, D. S., and Ambrose, W. A., 2000, Prediction of the distribution of floodplain-related reservoir sands using high-resolution stratigraphy--Guarico 13 field, eastern Venezuela, in VII Simposio Bolivariano Exploración Petrolera en las Cuencas Subandinas: Sociedad Venezolana de Geólogos Memoria, p. 728-744.

Ambrose, W. A., Akhter, M. S., Skolnakorn, J., Mendez, Milton, and Alvarez, Regulo, 1997, Geologic controls on remaining oil in Miocene transgressive-barrier, coastal-plain, and mixed-load fluvial systems in the Miocene Norte Area, Lake Maracaibo, Venezuela: Society of Petroleum Engineers Paper No. 38662, p. 209-218.

Ambrose, W. A., and Ferrer, E. R., 1997, Seismic stratigraphy and oil recovery potential of tide-dominated depositional sequences in the Lower Misoa Formation (lower Eocene), Lagunillas field, Lake Maracaibo, Venezuela: The Leading Edge, v. 16, no. 9, p. 1331-1334.

Ambrose, W. A., Treviño, R. H., Agostini, Nelida, Akhter, M. S., Barba, R. E., Jr., Barrow, K. T., Delgado, Ismael, Dutton, S. P., Guevara, E. H., Leon, Alfredo, Medina, Mileida, Munoz, Pedro, Parra, Nestor, Raeuchle, S. K., and Wang, D. L., 1997, Structural and depositional controls on hydrocarbon production in estuarine, tidal-shelf, and valley-fill sequences in the Misoa Formation (Eocene), Maraven Bloque I Area, Lake Maracaibo, Venezuela: Memorias del I Congreso Latinoamericano de Sedimentología, Sociedad Venezolana de Geología, v. 1, p. 45-52.

Raeuchle, S. K., Ambrose, W. A., Akhter, M. S., Casas, Jhonny, Salamanca, Lourdes, Munoz, Pedro, and León, Alfredo, 1997, Integrated reservoir study, lower Eocene Misoa reservoirs, Lagunillas field, Lake Maracaibo, Venezuela: The Leading Edge, v. 16, no. 9, p. 1335-1337.

Treviño, R. H., Ambrose, W. A., Agostini, Nelida, Akhter, M. S., Delgado, Ismael, Guevara, E.

H., Leon, Alfredo, Medina, Mileida, Munoz, Pedro, Parra, Nestor, and Raeuchle, S. K., 1997, Reservoir architecture of the VLA-6/9/21 Area, Lake Maracaibo, Venezuela, in Shanley, K. W., and Perkins, B. F., eds., Shallow marine and nonmarine reservoirs: sequence stratigraphy, reservoir architecture and production characteristics: Gulf Coast Section, Society of Economic Paleontologists and Mineralogists Foundation Eighteenth Annual Research Conference, p. 355-364.

Ambrose, W. A., and Ayers, W. B., Jr., 1994, Geologic controls on coalbed methane occurrence and production in the Fruitland Formation, Cedar Hill field and the COAL site, in Ayers, W. B., Jr., and Kaiser, W. R., eds., Coalbed methane in the Upper Cretaceous Fruitland Formation, San Juan Basin, New Mexico and Colorado: New Mexico Bureau of Mines and Mineral Resources, in cooperation with The University of Texas at Austin, Bureau of Economic Geology (Report of Investigations No. 218) and the Colorado Geological Survey, Division of Minerals and Geology, Department of Natural Resources (Resource Series 31), Bulletin 146, p. 41-61.

Ayers, W. B., Jr., Ambrose, W. A., and Yeh, J. S., 1994, Coalbed methane in the Fruitland Formation, San Juan Basin: depositional and structural controls on occurrence and resources, in Ayers, W. B., Jr., and Kaiser, W. R., eds., Coalbed methane in the Upper Cretaceous Fruitland Formation, San Juan Basin, New Mexico and Colorado: New Mexico Bureau of Mines and Mineral Resources, in cooperation with The University of Texas at Austin, Bureau of Economic Geology (Report of Investigations No. 218) and the Colorado Geological Survey, Division of Minerals and Geology, Department of Natural Resources (Resource Series 31), Bulletin 146, p. 13-40.

Ambrose, W. A., Levey, R. A., Vidal, J. M., Sippel, M. A., Ballard, J. R., Coover, D. M., and Bloxsom, W. E., 1993, Secondary natural gas recovery in mature fluvial sandstone reservoirs, Frio Formation, Agua Dulce field, South Texas: Gulf Coast Association of Geological Societies Transactions, v. 43, p. 11-23.

Tyler, Roger, Laubach, S. E., Ambrose, W. A., Tremain, C. M., and Grout, M. A., 1993, Coal fracture patterns in the foreland of the Cordilleran thrust belt, western United States, in Proceedings, International Coalbed Methane Symposium, v. 1: Paper 9379, p. 695-704.

Kaiser, W. R., Tyler, Roger, Ambrose, W. A., and Scott, A. R., 1992, Geologic evaluation of critical production parameters for coalbed methane resources: Quarterly Review of Methane from Coal Seams Technology, v. 9, nos. 3 and 4, p. 19-24.

Laubach, S. E., Tyler, Roger, Ambrose, W. A., and Tremain, C. M., 1992, Preliminary map of fracture patterns in coal in the western United States, in Fractured and jointed rock masses: International Society for Rock Mechanics, v. 1, p. 183-190.

Tyler, Roger, Ambrose, W. A., Scott, A. R., and Kaiser, W. R., 1992, Evaluation of the coalbed methane potential in the Greater Green River, Piceance, Powder River, and Raton Basins, in Mullen, C. E., ed., Rediscover the Rockies: Wyoming Geological Association, Forty-Third Field Conference Guidebook, p. 269-302.

Tyler, Roger, Kaiser, W. R., Ambrose, W. A., Scott, A. R., Laubach, S. E., and Ayers, W. B., Jr., 1992, Coalbed methane characteristics in the foreland of the Cordilleran thrust belt, western United States, in Beamish, B. B., and Gamson, P. D., eds., Symposium on coalbed methane research and development in Australia: Coalseam Gas Research Institute, James Cook University of North Queensland, v. 2, p. 11-32.

Ambrose, W. A., and Ayers, W. B., Jr., 1991, Geologic controls on coalbed methane occurrence and producibility in the Fruitland Formation, Cedar Hill Field and COAL site, San Juan Basin, Colorado and New Mexico, in Schwochow, S. D., ed., Coalbed methane of western North America: Rocky Mountain Association of Geologists Guidebook, p. 227-240.

Ambrose, W. A., and Ayers, W. B., Jr., 1991, Geologic controls on coalbed occurrence, thickness, and continuity, Cedar Hill field and the COAL site, in Ayers, W. B., Jr., Kaiser, W. R., Laubach, S. E., Ambrose, W. A., Baumgardner, R. W., Jr., Scott, A. R., Tyler, R., Yeh, Joseph,

Hawkins, G. J., Swartz, T. E., Schultz-Ela, D. D., Zellers, S. D., Tremain, C. M., and Whitehead, N. H., III, eds., Geologic and hydrologic controls on the occurrence and producibility of coalbed methane, Fruitland Formation, San Juan Basin: The University of Texas at Austin, Bureau of Economic Geology, topical report prepared for the Gas Research Institute under contract no. 5087-214-1544, p. 47-68.

Ayers, W. B., Jr., Ambrose, W. A., and Yeh, J. S., 1991, Depositional and structural controls on coalbed methane occurrence and resources in the Fruitland Formation, San Juan Basin, in Ayers, W. B., Jr., Kaiser, W. R., Laubach, S. E., Ambrose, W. A., Baumgardner, R. W., Jr., Scott, A. R., Tyler, Roger, Yeh, J. S-L., Hawkins, G. J., Swartz, T. E., Schultz- Ela, D. D., Zellers, S. D., Tremain, C. M., and Whitehead, N. H., III, eds., Geologic and hydrologic controls on the occurrence and producibility of coalbed methane, Fruitland Formation, San Juan Basin: The University of Texas at Austin, Bureau of Economic Geology, topical report prepared for the Gas Research Institute under contract no. 5087-214-1544, p. 9-46.

Kaiser, W. R., Swartz, T. E., Ambrose, W. A., and Ayers, W. B., Jr., 1990, Hydrogeologic parameters for the producibility of coalbed methane, in Ayers, W. B., Jr., and others, Geologic evaluation of critical production parameters for coalbed methane resources, Part I: San Juan Basin: The University of Texas at Austin, Bureau of Economic Geology, annual report prepared for the Gas Research Institute under contract no. 5087-214-1544, p. 127-153.

Ambrose, W. A., and Jackson, M. L. W., 1989, Geologically based infill potential of fluvial gas reservoirs, La Gloria (Frio) field, South Texas: South Texas Geological Society Bulletin, v. 29, no. 5, p. 13-21.

Ayers, W. B., Jr., and Ambrose, W. A., 1989, Geologic controls on the occurrence of coalbed methane, Fruitland Formation, San Juan Basin, in Ayers, W. B., Jr., and others, Geologic evaluation of critical production parameters for coalbed methane resources: Part 1, San Juan Basin: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for the Gas Research Institute under contract no. 5087-214-1544, p. 9-72.

Jackson, M. L. W., and Ambrose, W. A., 1989, Influence of reservoir heterogeneity on gas-resource potential for geologically based infill drilling, Brooks and I-92 reservoirs, Frio Formation, South Texas: Gulf Coast Association of Geological Societies Transactions, v. 39, p. 127-140.

Non Peer Reviewed Book Chapters

Ambrose, W. A., Reilly, J. F., II, and Peters, D. C., 2012, Preface, in Ambrose, W. A., Reilly, J. F., III, and Peters, D. C., eds., Energy resources for human settlement in the solar system and Earth's future in space: American Association of Petroleum Geologists, p. 1-5.

Guidebooks

Brown, L. F., Jr., Ambrose, W. A., Hentz, T. F., and Carr, D. L., 2018, Guidebook to the Pennsylvanian System of North-Central Texas: Bureau of Economic Geology, Jackson School of Geosciences and the Austin Geological Society, Field Trip Guidebook, 49 p.

Brown, L. F., Jr., Ambrose, W. A., and Carr, D. L., 2009, Supplement to Guidebook 14: The University of Texas at Austin 34 p. + figs.

Conference Proceedings

Haddad, M., Ahmadian, M., Ge, J., Hosseini, S. A., Nicot, J.-P., and Ambrose, W. A., 2021, Hydrogeological and Geomechanical Evaluation of a Shallow Hydraulic Fracture at the Devine Fracture Pilot Site, Medina County, Texas, 55th U.S. Rock Mechanics/Geomechanics Symposium, online.

Moscardelli, L., and Ambrose, W. A., 2021, State of Texas Advanced Resource Recovery Program (STARR) and Its Role Supporting Knowledge Sharing and Creation in the Permian Basin, Eastern Shelf and Fort Worth Basin, Southwestern AAPG Annual Convention, Dallas,

Tex.

Peng, S., Liu, Y., Ko, L., and Ambrose, W. A., 2019, Water/Oil Displacement by Spontaneous Imbibition through Multiscale Imaging and Implication on Wettability in Wolfcamp Shale, Unconventional Resources Technology Conference, Denver, Colo.

Contract Reports

Dutton, S. P., Ambrose, W. A., Loucks, R. G., Breton, C., and Su, J., 2016, Stratigraphic architecture and sandstone reservoir quality in deep shelf gas plays, Phase 5: Wilcox study: The University of Texas at Austin, Bureau of Economic Geology, contract report prepared for Deep Shelf Gas Consortium, 570 figures, 98 p.

Dutton, S. P., Ambrose, W. A., Loucks, R. G., Horodecky, B. B., Breton, C., and Su, J., 2016, Stratigraphic architecture and sandstone reservoir quality in deep shelf gas plays, Phase 5: Jurassic Study: The University of Texas at Austin, Bureau of Economic Geology, contract report prepared for Deep Reservoir Quality Consortium, 916 figures, 101 p.

Ambrose, W. A., Smith, D. C., Cutright, B. L., Scanlon, B. R., Reedy, R. C., Elliott, B. A., Paine, J. G., Foss, M. M., Tremblay, T. A., Wolaver, B. D., Loucks, R. G., Frébourg, G., Hentz, T. F., Ogiesoba, O. C., Olariu, M. I., Fu, Q., Zeng, H., E. L. Frost, III, Hamlin, H. S., Nance, H. S., Duncan, I. J., Hammes, U., Rogers, H., Clift, S. J., Sivil, J. E., Zhang, T., Reed, R. M., Baumgardner, R. W., Jr., Eastwood, R., Breton, C., Rowe, H. D., Carr, D. L., Dunlap, D. B., Gale, J. F. W., and Peng, S., 2014, State of Texas Advanced Resource Recovery (STARR) progress report: Bureau of Economic Geology, Biennium prepared for Texas State Comptroller of Public Accounts, 90 p.

Dutton, S. P., Ambrose, W. A., Loucks, R. G., Breton, Caroline, and Su, Jiandong (Joseph), 2013, Stratigraphic architecture and sandstone reservoir quality in deep shelf gas plays: phase 4: The University of Texas at Austin, Bureau of Economic Geology, contract report prepared for Deep Shelf Gas Consortium, 114 p. + CD ROM.

Smyth, R. C., Nuñez López, Vanessa, Hovorka, S. D., Wolaver, B. D., Hosseini, S. A., Ambrose, W. A., Lu, Jiemin, Mickler, P., Zahid, K., Zeidouni, M., and Sun, A. Y., 2013, Draft final monitoring plan report, Phase I at West Ranch Field: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for NRG Energy Company, Petra Nova LLC, DOE Award Number: DE-FE-0003311.

Smyth, R. C., Nuñez, Vanessa, Hovorka, S. D., Wolaver, B. D., Hosseini, S. A., Ambrose, W. A., Lu, Jiemin, Mickler, P., Zahid, K., Zeidouni, M., Sun, A. Y., 2013, Monitoring Plan Report: Phase I at West Ranch Field, Gulf Coast Carbon Center at the Bureau of Economic Geology, a unit of The University of Texas at Austin, draft final report, prepared for NRG Energy Inc., Petra Nova LLC, DOE award number DE-FE-0003311.

Ambrose, W. A., and Hentz, T. F., 2012, Sequence stratigraphy and depositional systems of the Granite Wash, Marmaton Group, and Cleveland Formation: Devon 44-IH Penelope Moore well, Hemphill County, Texas: The University of Texas at Austin, Bureau of Economic Geology, STARR report prepared for Devon Energy Corporation, 37 p.

Ambrose, W. A., Loucks, R. G., and Frost, E. L., 2012, Depositional systems and facies interpretation of the Sun #1 Littleton core, Eastland County, Texas: The University of Texas at Austin, Bureau of Economic Geology, STARR report prepared for Stalker Energy, L.P., 25 p.

Ambrose, W. A., and Hammes, U., 2010, State of Texas Advanced Oil and Gas Resource Recovery (STARR) progress report: The University of Texas at Austin, Bureau of Economic Geology, report on the 2008-2010 biennium prepared for the Texas State Comptroller of Public Accounts, 88 p. + CD ROM.

Ambrose, W. A., Hammes, Ursula, and Potter, E., 2010, Progress report: The University of Texas at Austin, Bureau of Economic Geology, prepared for the State of Texas, 88 p.

Dutton, S. P., Loucks, R. G., McDonnell, Angela, Ambrose, W. A., Day-Stirrat, R. J., Breton, Caroline, and Schilling, J., 2010, Stratigraphic architecture and sandstone reservoir quality in deep shelf gas plays: phase 3: The University of Texas at Austin, Bureau of Economic Geology, contract report prepared for Deep Shelf Gas Consortium, 205 p.

Wood, L. J., Dunlap, D. B., Burton, D., and Ambrose, W. A., 2010, Sequence stratigraphy and reservoir architecture of tide-influenced shoreline systems in the Late Cretaceous Sego Sandstone: The University of Texas at Austin, Bureau of Economic Geology, annual report prepared for Industrial Associates, CD-ROM.

Hentz, T. F., Kane, J. A., Potter, E., and Ambrose, W. A., 2005, Jackson Endowed Fund lease holdings: portfolio refinement and opportunities for incremental production: The University of Texas at Austin, Bureau of Economic Geology, report of Phase II results prepared for the Jackson School of Geosciences, 37 p + appendix.

Holtz, M. H., Ambrose, W. A., Hovorka, S. D., Nuñez-Lopez, Vanessa, Guevara, E. H., and Breton, C. L., 2005, CO₂ sink analysis near U.S. BP refineries: The University of Texas at Austin, Bureau of Economic Geology, report prepared for BP, Charles Christopher, 18 p.

Guevara, E. H., Kim, E. M., Potter, E., and Ambrose, W. A., 2004, Gas production from the Vicksburg play in the Slick Ranch and vicinity, Starr, Hidalgo, and Brooks Counties, South Texas: a geological and production summary: The University of Texas at Austin, Bureau of Economic Geology, report prepared for the Southwest Research Institute, San Antonio, Texas, 2 panels.

Hentz, T. F., Ambrose, W. A., DeAngelo, Michael, Holtz, M. H., Sakurai, Shinichi, Talukdar, S., Wawrzyniec, T. F., Dunlap, D. B., Dutton, S. P., Guevara, E. H., Nance, H. S., Yeh, J. S., Bouroullec, Renaud, Brown, L. F., Jr., Martinez Sierra, Ricardo, Hernández-Mendoza, J. J., Ramos Gallardo, Hilario, Alvarado Cespedes, Alberto, Marino Castanon, Alberto, Machado Simental, Ruben, Ayala Anguiano, Ramiro, and Segura Trevino, Alberto, 2004, Definition of the geological framework and exploration plays of the Miocene of the Burgos Basin, northern Mexico: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Pemex in two volumes, Spanish and English, variously paginated + 5 vols. Plates.

Ambrose, W. A., Fouad, Khaled, Wawrzyniec, T. F., Sakurai, Shinichi, Talukdar, Suhas, Guevara, E. H., Brown, L. F., Jr., Dunlap, D. B., Jennette, D. C., Schultz-Ela, D. D., Sánchez-Barreda, Luis, Remington, R. L., Aranda-García, Mario, Alvarado Vega, Juan, Macias Zamora, Eduardo, Hernández-Romano, Ulises, Cárdenas-Hernández, Ramón, Ruiz-Ruiz, Héctor, Sarmiento-Altamirano, Santiago, López-Leyva, Gerardo, Aguilar-Hernández, Angélica, Martínez Garcia, Julieta, Maldonado-Lezama, Juan, Velásquez, Carlos, and Trujillo, Alfonso, 2003, Definition of the geological framework of the Neogene in the southern Laguna Madre-Tuxpan continental shelf of eastern Mexico: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for PEMEX Exploración y Producción, variously paginated, 7 volumes.

Ambrose, W. A., Holtz, M. H., Fouad, Khaled, Wawrzyniec, T. F., Sakurai, Shinichi, Jones, R., Jennette, David, Dutton, S. P., Talukdar, S., Dunlap, D. B., and Guevara, E. H., 2001, Upper Miocene and Pliocene gas plays of the Macuspana Basin, southeastern Mexico: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for PEMEX, variously paginated.

Jennette, David, Wawrzyniec, T. F., Holtz, M. H., Sakurai, Shinichi, Fouad, Khaled, Talukdar, S., Dutton, S. P., Dunlap, D. B., Ambrose, W. A., Bellian, J. A., and Guevara, E. H., 2001, Miocene and Pliocene gas plays of the Veracruz Basin, eastern Mexico: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for PEMEX, variously paginated.

Hardage, B. A., Ambrose, W. A., Barba, R. E., Jr., Brown, L. F., Jr., Castillo, Jaime, Clift, S. J., Correa, Luciano, Fouad, Khaled, Finlay, Carlos, Gu, Yaguang, Holtz, M. H., Treviño, R. H., and Tyler, Roger, 2000, State of Texas advanced oil and gas resource recovery: The University of

Texas at Austin, Bureau of Economic Geology, progress report prepared for State Lands Project STARR, 49 p.

Hovorka, S. D., Romero, M. L., Treviño, R. H., Warne, A. G., Ambrose, W. A., Knox, P. R., and Tremblay, T. A., 2000, Project evaluation: phase II: optimal geological environments for carbon dioxide disposal in brine-bearing formations (aquifers) in the United States: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for U.S. Department of Energy, National Energy Technology Laboratory, under contract no. DE-AC26-98FT40417, 222 p.

Ambrose, W. A., Scott, A. R., Barba, R. E., Jr., Dutton, S. P., Treviño, R. H., Fouad, Khaled, Sparlin, M. A., Hamilton, D. S., Handford, R., Dunlap, D. B., Romero, M. L., Lake, L. W., McBeath, John, and McMillen, K. J., 1999, Integrated reservoir characterization and reservoir management strategies, VLA-8 Area, Pilar Sur field, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for PDVSA Exploración y Producción, 186 p. + attachments.

Hamilton, D. S., Ambrose, W. A., Barba, R. E., Jr., De Angelo, Michael, Tyler, Noel, Yeh, J. S., Dunlap, D. B., and Laubach, S. E., 1999, Hydrocarbon production opportunities defined by integrated reservoir characterization, Guarico 13/10 Area, eastern Venezuela: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Teikoku Oil de Sanvi Guere, C.A., 95 p. + app. + attachments.

Holtz, M. H., Ambrose, W. A., Yeh, J. S., Treviño, R. H., Zeng, Hongliu, Chang, C. Y., Howrie, I. S., and Paulis, J. B., 1999, Production optimization modeling, Block 1, VLA-6/9/21 Field Laboratory, Venezuela: Phase III: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for PDVSA Exploración y Producción, 92 p. + attachments.

Knox, P. R., De Angelo, Michael, Hamilton, D. S., Ambrose, W. A., Tyler, Roger, and Tyler, Noel, 1999, Hydrocarbon production opportunities defined by sequence stratigraphic analysis and depositional systems characterization, East Guarico Unit, eastern Venezuela: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Teikoku Oil de Venezuela, C.A., 115 p. + 98 pls.

Tyler, Roger, Alvarez, Regulo, Ambrose, W. A., Asquith, G. B., Barba, R. E., Jr., Card, C. C., Chirinos, Belkis, Dunlap, D. B., Dutton, S. P., Grabowski, Janusz, Gu, Yaguang, Hamilton, D. S., Hamlin, H. S., Holtz, M. H., Mendoza, Rafael, Paulis, J. B., Remington, R. L., Rodgers, Scott D., Romero, M. L., Scott, A. R., Sparlin, M. A., Yeh, J. S., and Zeng, Hongliu, 1999, Reservoir characterization, simulation, and exploitation planning for the Eocene "B" sands: Mioceno Norte Area, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for PDVSA Exploración y Producción División de Occidente Venezuela, under Agreement No. 21-E-264, variously paginated, + apps. (12 vols.).

Ambrose, W. A., Scott, A. R., Barba, R. E., Jr., Treviño, R. H., Sparlin, M. A., Hamilton, D. S., Handford, R., Dunlap, D. B., and Romero, M. L., 1998, Integrated reservoir characterization and reservoir management strategies, VLA-8 Area, Pilar Sur field, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for PDVSA, 75 p. + 2 volumes.

Ambrose, W. A., Sparlin, M. A., Romero, M. L., Dunlap, D. B., Mendoza, Rafael, Villalta, Edgar, and Alvarez, Regulo, 1998, Integrated geological and geophysical update of proposed drilling locations for Miocene sands, Mioceno Norte Area, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for PDVSA Exploración y Producción, División de Occidente Venezuela, under agreement no. 11-E-395, 38 p. + 17 attachments [in three volumes].

Ambrose, W. A., Akhter, M. S., Barba, R. E., Jr., Barnaby, R. J., Barrow, K. T., Colvin, Linda, Dutton, S. P., Guevara, E. H., Parker, Dan, Pendleton, V. M., Raeuchle, S. K., Treviño, R. H., Wang, D. L., and Yeh, J. S., 1997, Integrated reservoir study, lower Eocene Misoa reservoirs,

VLA-6/9/21 Area, Block I, Phase 2, Stage 3, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Maraven, S.A., under Agreement No. 11-E-395, 158 p.

Ambrose, W. A., Akhter, M. S., Treviño, R. H., Barba, R. E., Jr., Dutton, S. P., Parker, Dan, Yeh, J. S., Pendleton, V. M., Raeuchle, S. K., Wang, D. L., Colvin, Linda, Guevara, E. H., Barrow, K. T., and Barnaby, R. J., 1997, Integrated reservoir study, lower Eocene Misoa reservoirs, VLA-6/9/21 Area, Block I, Phase 2, Stage 3, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Maraven, S.A., under Agreement No. 11-E-395, 161 p. plus attachments.

Ambrose, W. A., Wang, F. P., Akhter, M. S., Fisher, R. S., Skolnakorn, J., and Baghai, Nina, 1996, Geologic and engineering characterization of the Bach-24, A-22, LL-02, and LL-08 reservoirs, Mioceno Norte area, Lake Maracaibo: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Lagoven, S.A., 318 p.

Guevara, E. H., Wang, F. P., Akhter, M. S., Ambrose, W. A., Colvin, Linda, and Pendleton, V. M., 1996, Strategic infill drilling cluster locations for a multiwell platform in the southern fault block, Maraven, S.A., Block I VLA-6/9/21, Phase-2/Stage-1 area: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Maraven, S.A., 28 p. + app.

Raeuchle, S. K., Ambrose, W. A., Akhter, M. S., Guevara, E. H., Pendleton, V. M., Treviño, R. H., and Wang, D. L., 1996, Integrated reservoir study, lower Eocene Misoa reservoirs, VLA-6/9/21 area, block I, phase 2, stage 2: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Maraven, S.A., under agreement no. 11-E-395, 271 p. + app.

Holtz, M. H., Hamilton, D. S., Ambrose, W. A., Yeh, J. S., Dutton, S. P., Tyler, Noel, Asquith, G. B., Tadiar, E. F., Anthony, D. P., and Chamalaun, M. E., 1995, High-resolution sequence stratigraphic and systems tract analysis and resource and play assessment of the Toolachee/Nappacongee-Murteree blocks: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Santos Ltd., Adelaide, South Australia, 194 p. + figures and tables.

Tyler, Noel, Ambrose, W. A., Carrasquel, Williams, Dutton, S. P., Ferrer, E. R., Padron, Antonio, Wang, F. P., and Yeh, J. S., 1994, Characterization of lower Eocene reservoirs in the LL-652 area, Lagunillas field: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Lagoven, S.A., 425 p.

Finley, R. J., Burn, M. J., Ambrose, W. A., and Ruthven, C. L., 1993, Secondary natural gas recovery: targeted technology applications for infield reserve growth: case studies evaluating the benefits of secondary gas recovery, onshore gulf coast, South Texas: The University of Texas at Austin, Bureau of Economic Geology, topical report prepared for the Gas Research Institute, under contract no. 5088-212-1718, 124 p.

Ambrose, W. A., Grigsby, J. D., Hardage, B. A., Langford, R. P., Jirik, L. A., Levey, R. A., Collins, R. E., Sippel, M. A., Howard, W. E., and Vidal, J. M., 1992, Secondary natural gas recovery: targeted technology applications for infield reserve growth in fluvial reservoirs in the Frio Formation, Seeligson field, South Texas: The University of Texas at Austin, Bureau of Economic Geology, topical report prepared for the Gas Research Institute, under contract no. 5088-212-1718, 200 p.

Ayers, W. B., Jr., Kaiser, W. R., Laubach, S. E., Ambrose, W. A., Baumgardner, R. W., Jr., Scott, A. R., Tyler, Roger, Yeh, J. S., Hawkins, G. J., Swartz, T. E., Schultz-Ela, D., Zellers, S. D., Tremain, C. M., and Whitehead, N. H., III, 1991, Geologic and hydrologic controls on the occurrence and producibility of coalbed methane, Fruitland Formation, San Juan Basin: The University of Texas at Austin, Bureau of Economic Geology, topical report prepared for the Gas Research Institute, under contract no. 5087-214-1544, 314 p.

Tyler, Roger, Ambrose, W. A., Scott, A. R., and Kaiser, W. R., 1991, Coalbed methane potential

of the Greater Green River, Piceance, Powder River and Raton Basins: The University of Texas at Austin, Bureau of Economic Geology, topical report prepared for the Gas Research Institute, under contract no. 5087-214-1544, 244 p.

Ayers, W. B., Jr., Kaiser, W. R., Ambrose, W. A., Swartz, T. E., Laubach, S. E., Tremain, C. M., and Whitehead, N. H., III, 1990, Geologic evaluation of critical production parameters for coalbed methane resources: The University of Texas at Austin, Bureau of Economic Geology, annual report prepared for the Gas Research Institute, under contract no. 5087-214-1544, 175 p.

Jackson, M. L. W., Ambrose, W. A., Finley, R. J., Haas, M. R., McFall, K. S., Rushing, J. A., and Kuuskraa, V. A., 1990, Assessment of gas resources for secondary gas recovery technology: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for the Gas Research Institute, under contract no. 5087-212-1526A and B, 201 p.

Ayers, W. B., Jr., Kaiser, W. R., Ambrose, W. A., Swartz, T. E., Laubach, S. E., Tremain, C. M., and Whitehead, N. H., III, 1989, Geologic evaluation of critical production parameters for coalbed methane resources: San Juan Basin: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for the Gas Research Institute, under contract no. 5087-214-1544, 171 p.

Brashear, J., Bekker, A., Ambrose, W. A., Holtz, M. H., and Tyler, Noel, 1989, Production potential of unrecovered mobile oil through infield development integrated geologic and engineering studies--overview: ICF Resources, Incorporated, and The University of Texas at Austin, Bureau of Economic Geology, contract report prepared for the U.S. Department of Energy, Office of Fossil Energy, 73 p. plus appendices.

Brashear, J., Godec, A., Bekker, A., Ambrose, W. A., and Tyler, Noel, 1989, An assessment of the reserve growth potential of the Frio barrier-strandplain play in Texas: ICF-Lewin Energy Division, ICF, Incorporated, and The University of Texas at Austin, Bureau of Economic Geology, contract report prepared for the U.S. Department of Energy, Office of Fossil Energy, 128 p.

Jirik, L. A., Ambrose, W. A., Kerr, D. R., and Light, Malcolm, 1989, Coordination of geological and engineering research in support of the Gulf Coast Co-Production Program: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for the Gas Research Institute, under contract no. 5084-212-0924, 118 p.

Brashear, J., Godec, A., Bekker, A., Ambrose, W. A., and Tyler, Noel, 1988, A geologic assessment of the reserve growth potential of the Clearfork Platform Carbonate play in Texas: ICF-Lewin Energy Division, ICF, Incorporated, and The University of Texas at Austin, Bureau of Economic Geology, contract report prepared for U.S. Department of Energy, Office of Fossil Energy, 76 p.

Kuuskraa, V. A., McFall, K. S., Tyler, Noel, and Ambrose, W. A., 1988, A geologic assessment of reserve growth in Texas, South Central Basin Platform Play: ICF-Lewin and The University of Texas at Austin, Bureau of Economic Geology, final report prepared for the U.S. Department of Energy, Fossil Energy, 125 p.

Tyler, Noel, Light, Malcolm, and Ambrose, W. A., 1987, Coordination of the geological and engineering research in support of the Gulf Coast Co-Production Program: The University of Texas at Austin, Bureau of Economic Geology, annual report prepared for the Gas Research Institute, under contract no. 5084-212-0924, 196 p.

Course Notes

Hentz, T. F., Ambrose, W. A., Palacios, F. C., and Baumgardner, R. W., Jr., 2017, Upper Pennsylvanian and Lower Permian shelf, slope, and basin depositional facies of the southern Eastern Shelf of the Midland Basin, in Hentz, T. F., ed., Upper Pennsylvanian and Lower Permian shelf, slope, and basin depositional facies of the southern Eastern Shelf of the Midland

Basin: core workshop: Bureau of Economic Geology, The University of Texas at Austin, Workshop No. SW0023, 38 p.

Ambrose, W. A., and Clift, S. J., 2016, Carl No. 1 Gillette and Apache No. 1-B Tips (Bee County): Bureau of Economic Geology, Jackson School of Geosciences, SW0022, p. 17-46.

Ambrose, W. A., and Clift, S. J., 2015, Depositional systems and facies variability in the Wilcox Group in Texas: Bureau of Economic Geology, Jackson School of Geosciences, SW0021, p. 19-48.

Ambrose, W. A., and Hentz, T. F., 2014, Depositional systems and facies in the Cenomanian-Turonian (Upper Cretaceous) Eaglebine Trend, Leon County and adjacent areas, Texas, in Ruppel, S. C., ed., Facies, depositional systems, and chemostratigraphy of the Upper Cretaceous of the South Texas-Louisiana Shelf and the Western Interior Seaway: core workshop: Bureau of Economic Geology, The University of Texas at Austin, 13 p.

Ambrose, W. A., Hentz, T. F., Loucks, R. G., Frébourg, G., and Potter, E., 2014, Core Workshop, Upper Cretaceous (Cenomanian) Woodbine Group, East Texas field, in Ambrose, W. A., Hentz, T. F., Loucks, R. G., Frébourg, G., and Potter, E. C.: Core Workshop: Sequence stratigraphy, depositional systems, and facies complexity in the Woodbine Group in East Texas field: core workshop: Bureau of Economic Geology, The University of Texas at Austin, Workshop No. SW0020, 26 p.

Ambrose, W. A., and Hentz, T. F., 2010, Core Workshop, Woodbine Group--Double A Wells field, in Moscardelli, L., Wood, L., Ambrose, W., Maharaj, V., and Day-Stirrat, R.: Core Workshop: Wilcox Group, Lavaca Canyon/Woodbine Group, Double A Wells field, 23 p.

Ambrose, W. A., and Hentz, T. F., 2009, Core Workshop, Cleveland Formation and Marmaton Group, Anadarko Basin, in Carr, D. L., Hentz, T. F., Ambrose, W. A., Potter, E. C., and Clift, S. J., 2009, Sequence stratigraphy, depositional systems, and production trends in the Atoka Series and Mid-Pennsylvanian Cleveland and Marmaton Formations, western Anadarko Basin: Core Workshop: The University of Texas at Austin, Workshop Workbook SW0019, 23 p.

Ambrose, W. A., and Hentz, T. F., 2009, Core Workshop, Cleveland Formation and Marmaton Group, Anadarko Basin, in Carr, D. L., Hentz, T. F., Ambrose, W. A., Potter, E. C., and Clift, S. J.: The University of Texas at Austin, Bureau of Economic Geology, Workshop Workbook No. SW0019, 23 p.

Ambrose, W. A., 2008, Wave-dominated deltaic and shoreface deposits and transgressive-regressive cycles in the Campanian Lewis Shale, Upper Pictured Cliffs Sandstone, and Fruitland Formation in the San Juan Basin, in Wood, L. J., Ambrose, B., and Hedayati, T., field-trip co-leaders: Shelf sand reservoirs of the San Juan Basin, northwest New Mexico, U.S.A.: Quantitative Clastics Laboratory Guidebook: The University of Texas at Austin, Bureau of Economic Geology, 18 p.

Ambrose, W. A., Hentz, T. F., Bonnaffe, F., Loucks, R. G., and Potter, E. C., 2008, Core workshop: Woodbine Group-East Texas and Double A Wells fields, in Ambrose, W. A., and others, Sequence Stratigraphy and Depositional Systems of the Woodbine Group in East Texas Field: Core Workshop, PTTC Texas/Southern New Mexico Region Workshop, Sequence Stratigraphy and Depositional Systems of the Woodbine Group in East Texas Field: The University of Texas at Austin, Bureau of Economic Geology, Workshop Workbook No. SW0018, 24 p.

Ambrose, W. A., Hentz, T. F., Wang, F. P., Bonnaffe, Florence, Loucks, R. G., and Potter, E. C., 2007, Core workshop: Woodbine Group, East Texas field, in Ambrose, W. A., and others, Pilot study of East Texas field: geology, engineering, and potential exploitation workshop: The University of Texas at Austin, Bureau of Economic Geology, State of Texas Advanced Resource and Petroleum Technology Transfer Council Workshop No. SW0017, 21 p.

Ambrose, W. A., 2006, Worldwide tidal depositional systems: course notes for Quantitative

Clastic Laboratory field course: Tidal Reservoir Architecture: Core Workshop and Lecture: The University of Texas at Austin, Bureau of Economic Geology, 11 p.

Ambrose, W. A., and Mendez, Milton, 1994, BA-24, A-22, LL-02 and LL-08 reservoirs, Miocene Norte area, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, and Lagoven, S.A., Core Workshop Notes, 21 p.

Tyler, Roger, Ambrose, W. A., Scott, A. R., and Kaiser, W. R., 1991, Coalbed methane potential of the Greater Green River, Piceance, Powder River, and Raton Basins: geologic and hydrologic overview: The University of Texas at Austin, Bureau of Economic Geology, presentation handbook for the Gas Research Institute, unpaginated.

Published Reports

Moscardelli, L., Ambrose, W. A., Young, M. H., Scanlon, B. R., Flaig, P. P., Olariu, M. I., Hattori, K., Ko, L., Loucks, R. G., Radjef, E., Maraggi, L., Schubert, N., Sivil, J. E., Peng, S., Zhang, T., Sun, X., Zeng, H., Ogiesoba, O. C., Fu, Q., Reed, R. M., Rogers, H., Duncan, I. J., Dommissie, R., Jensen, J., Hessler, A., DeJarnett, B. B., and Periwai, P., 2023, State of Texas Advanced Resource Recovery (STARR) 2020-2022 biennium report: The University of Texas at Austin, Bureau of Economic Geology 51 p.

Ambrose, W. A., Rogers, H., Smith, D. C., Scanlon, B. R., Paine, J. G., Nicot, J.-P., Young, M. H., Loucks, R. G., Hentz, T. F., Reed, R. M., Ogiesoba, O. C., Olariu, M. I., Fu, Q., Flaig, P. P., Zhang, J., Hattori, K., Roberts, A., Zeng, H., DeJarnett, B. B., Radjef, E., Periwai, P., Peng, S., Duncan, I. J., Ren, B., Jensen, J., Male, F., Dommissie, R., Eastwood, R., Carr, D. L., Zhang, T., Ko, L., Larson, T., Lawton, T., Covault, J., Sylvester, Z., Goodman, E., Calle, A., Smye, K. G., Pelletier, I., Dunlap, D. B., Lambert, J., and Sivil, J. E., 2021, State of Texas Advanced Resource Recovery (STARR) 2018-2020 biennium report: The University of Texas at Austin, Bureau of Economic Geology 44 p.

Ambrose, W. A., Smith, D. C., Hentz, T. F., Loucks, R. G., Reed, R. M., Ogiesoba, O. C., Olariu, M. I., Fu, Q., Zeng, H., Hamlin, H. S., Duncan, I. J., Carr, D. L., Ko, L., Peng, S., Jensen, J., Rogers, H., Clift, S. J., Sivil, J. E., Zhang, T., Eastwood, R., and Brooks, D. L., 2019, State of Texas Advanced Resource Recovery (STARR) progress report: The University of Texas at Austin, Bureau of Economic Geology 43 p.

Ambrose, W. A., Smith, D. C., Hentz, T. F., Loucks, R. G., Reed, R. M., Ogiesoba, O. C., Olariu, M. I., Fu, Q., Zeng, H., Hamlin, H. S., Duncan, I. J., Carr, D. L., Ko, L., Peng, S., Rogers, H., Clift, S. J., Sivil, J. E., Zhang, T., Eastwood, R., and Brooks, D. L., 2018, State of Texas Advanced Resource Recovery (STARR) interim report: Bureau of Economic Geology, The University of Texas at Austin, 26 p.

Ambrose, W. A., Smith, D. C., Young, M. H., Scanlon, B. R., Reedy, R. C., Collins, E. W., Elliott, B. A., Wolaver, B. D., Paine, J. G., Hentz, T. F., Frébourg, G., Loucks, R. G., Reed, R. M., Ogiesoba, O. C., Olariu, M. I., Fu, Q., Zeng, H., Duncan, I. J., Rogers, H., Clift, S. J., Foss, M. M., Sivil, J. E., Zhang, T., Baumgardner, R. W., Jr., Eastwood, R., Breton, C., Brooks, D. L., Rowe, H. D., Carr, D. L., Dunlap, D. B., Gale, J. F. W., He, Y., Ko, L., Phelps, R., and Peng, S., 2016, State of Texas Advanced Resource Recovery (STARR) progress report: Bureau of Economic Geology, Biennium prepared for Texas State Comptroller of Public Accounts: 82 p.

Ambrose, W. A., Smith, D. C., Cutright, B. L., Scanlon, B. R., Reedy, R. C., Elliott, B. A., Paine, J. G., Foss, M. M., Tremblay, T. A., Wolaver, B. D., Loucks, R. G., Frébourg, G., Hentz, T. F., Ogiesoba, O. C., Olariu, M. I., Fu, Q., Zeng, H., Frost, E. L., III, Hamlin, H. S., Nance, H. S., Duncan, I. J., Hammes, U., Rogers, H., III, Clift, S. J., Sivil, J. E., Zhang, X., Reed, R. M., Baumgardner, R. W., Jr., Eastwood, R., Breton, C., Brooks, D. L., Rowe, H. D., Carr, D. L., Dunlap, D. B., Gale, J. F. W., and Peng, S., 2014, State of Texas Advanced Resource Recovery progress report and CD-ROM: Bureau of Economic Geology, The University of Texas at Austin, 90 p.

Ambrose, W. A., and Potter, E., 2013, State of Texas Advanced Oil and Gas Resource

Recovery (STARR) progress report: The University of Texas at Austin, Bureau of Economic Geology report on the 2010-2012 biennium prepared for the Texas State Comptroller of Public Accounts, 65 p. + CD ROM..

Ambrose, W. A., Breton, Caroline, Holtz, M. H., and Nuñez, Vanessa, 2005, Brine-bearing formations in Texas: The University of Texas at Austin, Bureau of Economic Geology FutureGen Fact Sheet, 3 p.

Ambrose, W. A., Breton, Caroline, Holtz, M. H., and Nuñez, Vanessa, 2005, Coal resources in Texas: The University of Texas at Austin, Bureau of Economic Geology FutureGen Fact Sheet, 5 p.

Ambrose, W. A., Holtz, M. H., Nuñez, Vanessa, and Breton, Caroline, 2005, Candidate CO₂-EOR oil reservoirs in Texas and adjacent areas: The University of Texas at Austin, Bureau of Economic Geology FutureGen Fact Sheet, 5 p.

Ambrose, W. A., 1990, Facies heterogeneity and brine-disposal potential of Miocene barrier-island, fluvial, and deltaic systems: examples from Northeast Hitchcock and Alta Loma fields, Galveston County: The University of Texas at Austin, Bureau of Economic Geology Geological Circular 90-4, 35 p.

Workshop Workbooks

Ambrose, W. A., Loucks, R. G., Ogiesoba, O. C., Radjef, E., Reed, R. M., Sun, X., Zeng, H., Zhang, T., and Moscardelli, L., 2023, Cretaceous Volcanic Reservoirs of Texas: STARR.

Flaig, P. P., Hattori, K., Ambrose, W. A., Fu, Q., DeJarnett, B. B., Ko, L., Radjef, E., Carr, D. L., Hasiotis, S., Ogiesoba, O. C., and Moscardelli, L., 2021, Core Workshop: Mixed Carbonate-Siliciclastic Reservoir Systems of the Strawn Group: Focus - Upper Strawn, King and Stonewall Counties, Texas: STARR.

Olariu, M. I., Ambrose, W. A., Olariu, C., Steel, R., and Zhang, J., 2018, Depositional history and architectural variability of the Wilcox Group in Texas: Bureau of Economic Geology and Austin Geological Society, Core Workshop Guidebook, no. SW0024.

Olariu, M. I., Ambrose, W. A., Clift, S. J., Clayton, A., Shunli, L., Olariu, C., Steel, R. J., Zeng, H., and Zhang, J., 2016, Architectural variability and depositional trends in the Wilcox Group in Texas: Bureau of Economic Geology, 75 p.

Loucks, R. G., Ambrose, W. A., and Frebourg, G., 2015, Woodbine Sand and Eagle Ford Shale: Bureau of Economic Geology workshop, no. SW0022, various p.

Olariu, M. I., Ambrose, W. A., Clift, S. J., Conwell, D., Li, S., Olariu, C., Steel, J. R., Zeng, H., and Zhang, J., 2015, Depositional systems and facies variability in the Wilcox Group in Texas.

Ambrose, W. A., Hentz, T. F., Loucks, R. G., Frébourg, G., and Potter, E., 2014, Sequence stratigraphy, depositional systems, and facies complexity in the Woodbine Group in East Texas field: core workshop: Bureau of Economic Geology, The University of Texas at Austin, Workshop No. SW0020, variously paginated.

Ruppel, S. C., Ambrose, W. A., Frébourg, G., Loucks, R. G., Lu, J., Potter, E., and Rowe, H. D., 2014, Facies, depositional systems, and chemostratigraphy of the Upper Cretaceous of the South Texas-Louisiana Shelf and the Western Interior Seaway: a core workshop: Bureau of Economic Geology, The University of Texas at Austin.

Brown, L. F., Jr., Ambrose, W. A., and Carr, D. L., 2010, Supplement to Guidebook 14: The University of Texas at Austin, Bureau of Economic Geology, 34 p.

Ambrose, W. A., and Hentz, T. F., 2009, Woodbine Core Review, AA Wells Field, Polk County, Texas: core workshop presented to Border to Border Exploration, L.L.C., January 21: The University of Texas at Austin, Bureau of Economic Geology, 17 p.

Carr, D. L., Hentz, T. F., Ambrose, W. A., Ambrose, W. A., Potter, E., and Clift, S. J., 2009,

Sequence stratigraphy, depositional systems, and production trends in the Atoka Series and Mid-Pennsylvanian Cleveland and Marmaton Formations, western Anadarko Basin: core workshop: The University of Texas at Austin, Bureau of Economic Geology, Workshop Workbook, No. SW0019, variously paginated.

Ambrose, W. A., Hentz, T. F., Bonnaffe, F., Loucks, R. G., Potter, E. C., and Clift, S. J., 2008, Sequence stratigraphy and depositional systems of the Woodbine Group in East Texas field: PTTC Texas/Southern New Mexico Region Workshop, Sequence Stratigraphy and Depositional Systems of the Woodbine Group in East Texas Field: The University of Texas at Austin, Bureau of Economic Geology, Workshop Workbook, No. SW0018, variously paginated.

Ambrose, W. A., Hentz, T. F., Wang, F. P., Bonnaffe, Florence, Loucks, R. G., Potter, E., and Clift, S. J., 2007, Pilot Study of East Texas Field: Geology, Engineering, and Potential Exploitation Workshop, held October 30 in Kilgore, Texas: The University of Texas at Austin, Bureau of Economic Geology, Workshop Workbook, No. SW0017, variously paginated.

Computer Applications and Internet

Ambrose, W. A., Rodgers, Scott D., Andrews, J. R., and Stokes, Jonathan, 2000, AGIWEB Module 3--Facies mapping of fluvial gas reservoirs in Seeligson field, South Texas: The University of Texas at Austin, Bureau of Economic Geology, and American Geological Institute, <http://www.beg.utexas.edu/agi/mod3/m3-title.htm>.

Ambrose, W. A., Rodgers, Scott D., Andrews, J. R., Dunlap, D. B., Hardage, B. A., Remington, L. E., Prewitt, Kerza, and Stokes, Jonathan, 2000, AGIWEB Module 8--Correlation of fluvial gas reservoirs in Stratton field, South Texas: The University of Texas at Austin, Bureau of Economic Geology, and American Geological Institute, <http://www.beg.utexas.edu/agi/mod8/m8-title.htm>.

Hovorka, S. D., Romero, M. L., Warne, A. G., Ambrose, W. A., Tremblay, T. A., Treviño, R. H., and Sasson, D., 2000, Sequestration of greenhouse gases in brine formations: The University of Texas at Austin, Bureau of Economic Geology, hypertext publication at <http://www.beg.utexas.edu/enviro/qtlty/co2seq/dispslsaln.htm>.

Published Abstracts

Flaig, P., Hasiotis, S., Ambrose, W. A., Hattori, K., and DeJarnett, B. B., 2021, The importance of integrating sedimentology and ichnology to accurately interpret the spatial-temporal relationship of mixed carbonate-clastic coastal-shelfal depositional systems, Pennsylvanian (Desmoinesian) Strawn Group, Texas (abs.): Geological Society of America Abstracts with Programs, v. 53, no. 6, item no. 12-4, <http://doi.org/10.1130/abs/2021AM-371245>.

Hattori, K., Loucks, R. G., and Ambrose, W. A., 2020, A new architectural framework for the Early Cretaceous Sligo/Pettet Formation of East Texas (abs.): American Association of Petroleum Geologists Annual Conference and Exhibition 2020 Technical Program.

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 a compressed transgressive succession from subaerial processes to deepwater deposition (abs.): GeoGulf Transactions, v. 69, p. 447-448.

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 Gulf Coast (abs.): Gulf Coast Association of Geological Societies, v. 67, p. 555-556.

Dutton, S. P., Ambrose, W. A., and Loucks, R. G., 2017, Diagenetic controls on reservoir quality variation in Jurassic Cotton Valley sandstones, onshore Gulf of Mexico, USA (ext. abs.): 79th EAGE Conference & Exhibition, Paris, France, June 12-15, abstract Th C1 07, 5 p., <http://doi.org/10.3997/2214-4609.201700612>.

Dutton, S. P., Ambrose, W. A., and Loucks, R. G., 2017, Preservation of reservoir quality by

chlorite grain coats in high-temperature Wilcox sandstones, Rio Grande delta system, western Gulf of Mexico (abs.): American Association of Petroleum Geologists annual convention, Houston, Texas, April 2-5, abstract no. 2605847, 1 p.

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 (abs.): Gulf Coast Association of Geological Societies, v. 67, p. 577-578.

Hessler, A., Zhang, J., Covault, J., and Ambrose, W. A., 2017, The role of source-area climate and weathering on sedimentation along the Paleogene Gulf Coast: onshore Wilcox Group, Texas, USA (abs.): AAPG Datapages/Search and Discovery Article #90291.

Ambrose, W. A., and Cutright, B., 2016, Resource-development and environmental challenges for life on the space frontier (abs.): AAPG Annual Convention and Exposition, CD Rom.

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 (abs.): Gulf Coast Association of Geological Societies Transactions, v. 66, p. 909-910.

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 (abs.): Gulf Coast Association of Geological Societies Transactions, v. 66, p. 937-938.

Dutton, S. P., Loucks, R. G., and Ambrose, W. A., 2016, Preservation of reservoir quality in sandstones by chlorite coats - insights from viewing ion-milled samples in SEM (ext. abs.): 78th EAGE Conference & Exhibition, Vienna, Austria, May 30-June 2, abstract Tu P5 09, 5 p.

Hentz, T. F., Ambrose, W. A., and Hamlin, H. S., 2016, Upper Pennsylvanian and Lower Permian shelf-to-basin facies architecture and trends, Eastern Shelf of the southern Midland Basin, West Texas (ext. abs.): AAPG Southwest Section Convention Program and Abstracts, unpaginated.

Ambrose, W. A., Hentz, T. F., and Tussey, L., 2015, Tidal depositional systems in Pennsylvanian strata in the Anadarko Basin, northeast Texas Panhandle (abs.): Southwest Section-AAPG Program with Abstracts.

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. (abs.): Gulf Coast Association of Geological Societies Transactions, v. 65, p. 545-546.

Dutton, S. P., Kohut, M. E., Ambrose, W. A., and Loucks, R. G., 2015, Comparing chlorite-coat coverage and reservoir quality in deep Tuscaloosa sandstones, Louisiana Gulf Coast, USA (abs.): in American Association of Petroleum Geologists Annual Convention and Exhibition, Denver, Colorado, May 31-June 3, abstract no. 2089357, CD-ROM, 1 p.

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 (abs.): Gulf Coast Association of Geological Societies Transactions, v. 65, p. 603.

Hentz, T. F., and Ambrose, W. A., 2015, Stratigraphic and Depositional Context of the Eaglebine Play: Upper Cretaceous Woodbine and Eagle Ford Groups, Southwestern East Texas Basin (abs.): AAPG Southwest Section Convention Program and Abstracts.

Loucks, R. G., Reed, R. M., and Ambrose, W. A., 2015, Analysis of pore networks and reservoir quality of the Upper Cretaceous Woodbine Sandstone in the high-recovery-efficiency, giant East Texas Field (abs.): Gulf Coast Association of Geological

Societies Transactions, v. 65, p. 671.

Dutton, S. P., Loucks, R. G., and Ambrose, W. A., 2014, Origin and properties of high-reservoir-quality Tertiary and Cretaceous sandstones within constant temperature intervals, Gulf of Mexico, USA (ext. abs.): Reservoir Quality of Clastic and Carbonate Rocks: Analysis, Modelling and Prediction, The Geological Society, London: Programme and Abstract Volume, p. 53-54.

Zeng, Hongliu, Ambrose, W. A., Yin, Z., He, Y., Xu, W., Huang, P., 2014, Seismic sedimentology of incised valley, lowstand delta, and slope fan systems in the Eocene Wilcox Group, central South Texas coast (abs.): AAPG Annual Convention & Exhibition, Houston, April 2014, 1840620.

Ambrose, W. A., 2013, Distribution and origin of Imbrium ejecta in the Cleomedes Quadrangle, north and northwest Crisium Basin (ext. abs.): Lunar and Planetary Science XLIV, 1050 pdf (2 p.).

Ambrose, W. A., and Cutright, B. L., 2013, Optimal locations for lunar settlements and industrial facilities (abs.): in American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, Pennsylvania, May 19-22, abstracts, CD-ROM.

Ambrose, W. A., Loucks, R. G., Hooker, J. N., Frost, E., Reynolds, C., McDavid, Andrew, Dawson, D., and Walker, B., Jr., 2013, Facies variability, fracture heterogeneity, and reservoir properties of the Marble Falls Limestone, Jack County Texas (abs.): AAPG Southwest Section Convention Program and Abstracts, unpaginated.

Cutright, B. L., and Ambrose, W. A., 2013, Settling the eighth continent--Three steps to mankind's colonization of the Moon (abs.): in American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, Pennsylvania, May 19-22, abstracts, CD-ROM.

Dutton, S. P., Ambrose, W. A., and Loucks, R. G., 2013, Controls on distribution of chlorite coats and reservoir quality in Cretaceous Tuscaloosa sandstones, Gulf of Mexico (ext. abs.), in London '13, 75th EAGE Conference & Exhibition incorporating SPE EUROPEC 2013, London, United Kingdom, June 10-13, 2013, 5 p.

Dutton, S. P., Ambrose, W. A., and Loucks, R. G., 2013, Regional variation in detrital composition, diagenesis, and reservoir quality of deep Tuscaloosa and Woodbine sandstones, Gulf of Mexico, USA (abs.): in American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, Pennsylvania, May 19-22, abstracts, CD-ROM.

Hentz, T. F., and Ambrose, W. A., 2013, High-resolution facies distribution, structural controls on sedimentation, and production trends of the Pennsylvanian Bend Conglomerate, Boonsville field, Fort Worth Basin, Texas (abs.): AAPG Southwest Section Convention Program and Abstracts, unpaginated.

Hentz, T. F., and Ambrose, W. A., 2013, Sandstone trends, sequence framework, and depositional settings of the Upper Cretaceous Woodbine Group: "Eaglebine" play, southern East Texas Basin (abs.): AAPG Annual Convention Program and Abstracts, unpaginated.

Ogiesoba, O. C., Eastwood, Ray, Ambrose, W. A., and Hammes, Ursula, 2013, Seismic inversion for shale gas/oil within the Austin Chalk and Eagle Ford Shale, Maverick Basin, South Texas (abs.): in American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, Pennsylvania, May 19-22, abstracts, CD-ROM.

Olariu, M. I., Hammes, Ursula, Ambrose, W. A., and Ogiesoba, O. C., 2013, Growth-faulted compartments of the Oligocene Frio Formation in proximity of the shelf edge in Corpus Christi Bay, Texas (abs.): in American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, Pennsylvania, May 19-22, abstracts, CD-ROM.

Zahid, K., Wolaver, B. D., Ambrose, W. A., and Smyth, R. C., 2013, Effect of shallow subsurface heterogeneities in CO₂ storage monitoring for EOR: Case studies from the Gulf Coast (abs.): in

American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, Pennsylvania, May 19-22, abstracts, CD-ROM.

Zhang, J., Ambrose, W. A., and Olariu, M. I., 2013, Sequence-stratigraphic and depositional framework of wave-influenced deltaic systems in the Lower and Middle Frio Formation, Redfish Bay, Corpus Christi, Texas (abs.): in American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, Pennsylvania, May 19-22, abstracts, CD-ROM.

Ambrose, W. A., 2012, Ejecta distribution and relative ages of the Imbrium, Serenitatis, and Crisium Basins (ext. abs.): Lunar and Planetary Science XLII, 1048 pdf [2 p.].

Ambrose, W. A., Beike, Dieter, and Cutright, B. L., 2012, Lunar energy and mineral resources: new insights from the Lunar Reconnaissance Orbiter (abs.): American Association of Petroleum Geologists, Annual Convention, Abstract 1234426, 1 p.

Ambrose, W. A., Loucks, R. G., and Dutton, S. P., 2012, 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.: (abs.): Gulf Coast Association of Geological Societies Transactions, v. 65, p. 545.

Cutright, B. L., and Ambrose, W. A., 2012, Close encounters with asteroids and comets: new insights from Dawn to Galileo (abs.): American Association of Petroleum Geologists, Annual Convention, Abstract 1235411, 1 p.

Forngngern, R., and Ambrose, W. A., 2012, Sequence stratigraphy, sandstone architecture, and depositional systems of the lower Miocene succession in the Carancahua Bay area, Texas Gulf Coast (abs.): American Association of Petroleum Geologists, Annual Convention, Abstract 1236023, 1 p.

Hentz, T. F., and Ambrose, W. A., 2012, High-resolution facies distribution, structural controls on sedimentation, and production trends of the Pennsylvanian Bend Conglomerate, Boonsville field, Fort Worth Basin, Texas (abs.), in SIPES/DGS 2012 Dallas E&P Forum.

Ogiesoba, O. C., Eastwood, Ray, Hammes, Ursula, and Ambrose, W. A., 2012, Seismic-attribute characterization of the Eagle Ford Shale, Dimmit County, south Texas (abs.): American Association of Petroleum Geologists, Annual Convention, Abstract 1231149, 1 p.

Ambrose, W. A., 2011, Distribution and chronostratigraphy of ejecta complexes in the Humorum Basin mapped from LROC and lidar data (ext. abs.): Lunar and Planetary Science XLII, 1035 pdf [2 p.].

Ambrose, W. A., and Hentz, T. F., 2011, Geologic controls on production in low-permeability (tight) sandstones in the Pennsylvanian Cleveland Formation, northwest Anadarko Basin (abs.): American Association of Petroleum Geologists, Mid-Continent Section Convention Official Program, p. 57-58.

Ambrose, W. A., Wang, F. P., and Hentz, T. F., 2011, Oil-recovery strategies in the lower Woodbine Group, East Texas field (abs.): SIPES/SPE/SMU 2011 Dallas E&P Forum, 2 p.

Duncan, I. J., and Ambrose, W. A., 2011, An overview of clean coal technologies and carbon capture and storage (CCS) (abs.): American Association of Petroleum Geologists Annual Convention & Exhibition Abstracts Volume, v. 20, p. 49-50.

Ambrose, W. A., 2010, A survey of impact craters in the inner solar system: perspectives from Earth (abs.): American Association of Petroleum Geologists Annual Convention & Exhibition, v. 19, p. 12.

Ambrose, W. A., 2010, Origin, distribution and chronostratigraphy of asymmetric secondary craters and ejecta complexes in the Crisium Basin (ext. abs.): Lunar and Planetary Science XLI, 1061 pdf [2 p.].

Ambrose, W. A., 2010, Origin, distribution, and chronostratigraphy of asymmetric secondary craters and ejecta complexes in the Crisium Basin (abs.), in Dickerson, P. W., and Cloos, M., eds., From the Earth to the Moon: A Research Symposium Honoring the Scientific Contributions of William R. Muehlberger: The University of Texas at Austin, Jackson School of Geosciences, p. 11.

Ambrose, W. A., 2009, Observing the geologic history of the Moon (abs.): Austin Astronomical Society, http://www.austinastro.org/Ambrose_abstract.pdf.

Ambrose, W. A., 2009, Distribution and chronostratigraphy of asymmetric secondary craters in the Nectaris Basin (ext. abs.): Lunar and Planetary Science XL, <http://www.lpi.usra.edu/meetings/lpsc2009/pdf/1015.pdf>, [2 p.].

Ambrose, W. A., 2009, Facies architectural elements and sandstone-body continuity in highstand, fluvial-dominated, deltaic reservoirs in the Upper Cretaceous Woodbine Group, East Texas field (abs.): American Association of Petroleum Geologists Annual Convention, v. 18, p. 9.

Ambrose, W. A., 2009, Giant impact basins of the solar system (abs.): American Association of Petroleum Geologists Annual Convention, v. 18, p. 9.

Ambrose, W. A., 2009, Nearside Megabasin: the largest basin from the Moon (abs.): American Association of Petroleum Geologists Annual Convention, v. 18, p. 9.

Ambrose, W. A., 2009, Water ice from Mars and the Moon (abs.): American Association of Petroleum Geologists Annual Convention, v. 18, p. 9.

Hentz, T. F., Ambrose, W. A., and Carr, D. L., 2009, Sequence stratigraphic and depositional settings of highstand deltaic and lowstand valley-fill deposits of the Middle and Upper Pennsylvanian Cleveland and Marmaton tight-gas sandstones, northwest Anadarko Basin (abs.): American Association of Petroleum Geologists Annual Convention, v. 18, p. 93.

Loucks, R. G., Reed, R. M., and Ambrose, W. A., 2009, Mineralogy and diagenetic history of the Upper Cretaceous Woodbine Sandstone in the giant East Texas field (abs.): Gulf Coast Association of Geological Societies Transactions, v. 59, p. 485.

Loucks, R. G., Reed, R. M., and Ambrose, W. A., 2009, Preservation of high reservoir quality by early quartz cementation in the historically significant East Texas field, Upper Cretaceous Woodbine Sandstone (abs.): American Association of Petroleum Geologists Annual Convention, v. 18, p. 130.

Treviño, R. H., Ambrose, W. A., Meckel, Tip, Lu, Jiemin, Zeng, Hongliu, and Kordi, M., 2009, Sequence stratigraphy of the Tuscaloosa from Cranfield field, Mississippi--a carbon sequestration study from enhanced oil recovery operation (abs.): American Association of Petroleum Geologists Annual Convention, v. 18, p. 217.

Ambrose, W. A., 2008, Distribution and chronostratigraphy of asymmetric secondary craters associated with lunar basins (abs.): Geological Society of America abstract 324-8, <http://a-c-s.confex.com/crops/2008am/webprogram/Paper48753.html>.

Ambrose, W. A., 2008, Lunar oddities: asymmetric, non-main-sequence craters as indirect indicators of basin-scale impacts (abs.): AAPG 2008 Annual Convention and Exhibition Abstracts Volume, v. 17, p. 7.

Ambrose, W. A., 2008, Origin, distribution and chronostratigraphy of asymmetric secondary craters associated with nearside lunar basins (ext. abs.): Lunar and Planetary Science XXXIX, 1019 pdf [2 p.].

Ambrose, W. A., 2008, Timing, emplacement, and distribution of mare-fill units in Oceanus Procellarum, a large nearside lunar basin (abs.): American Association of Petroleum Geologists International Conference and Exhibition, CD-ROM.

Ambrose, W. A., and Ayers, W. B., Jr., 2008, Transgressive-regressive cycles in the Upper Pictured Cliffs Sandstone and controls on Fruitland coal depocenters, northwestern San Juan Basin (abs.): Four Corners Geological Society Newsletter, February, p. 4-5.

Ambrose, W. A., and Schmitt, H. H., 2008, Energy minerals in the solar system: resources for the 21st century (abs.): AAPG 2008 Annual Convention and Exhibition Abstracts Volume, v. 17, p. 7.

Ambrose, W. A., Hentz, T. F., Wang, F. P., Bonnaffe, Florence, Loucks, R. G., and Brown, L. F., Jr., 2008, Sequence stratigraphic controls from complex reservoir architecture in fluvial-dominated deltaic and lowstand valley-fill deposits in the Woodbine Group, East Texas field (abs.): AAPG 2008 Annual Convention and Exhibition Abstracts Volume, v. 17, p. 7.

Bonnaffe, Florence, Ambrose, W. A., Hentz, T. F., Wang, F. P., and Loucks, R. G., 2008, Three-dimensional architecture of lowstand incised-valley deposits in the Woodbine Group, northern East Texas Field (abs.), in Gulf Coast Association of Geological Societies.

Hentz, T. F., and Ambrose, W. A., 2008, New interpretations of reservoir architecture of the upper Cretaceous Woodbine Group in East Texas field: sequence stratigraphic and depositional perspectives (ext abs.): Houston Geological Society Bulletin, v. 51, no. 3, p. 11, 13, 15.

Treviño, R. H., Hovorka, S. D., Ambrose, W. A., and Meckel, T. A., 2008, Sequence stratigraphy and reservoir characterization of Cranfield field, Mississippi--an enhanced oil recovery and carbon sequestration study (abs.): Geological Society of America Abstracts with Programs, v. 40.

Wood, L. J., Moscardelli, Lorena, Bermúdez, Juan, Caraveo, C., Ambrose, W. A., and López-Leyva, Gerardo, 2008, Source-to-sink linkages between clinoform architecture and deepwater deposits, eastern Mexico margin, southern Gulf of Mexico (abs.): AAPG 2008 Annual Convention and Exhibition Abstracts Volume, v. 17, p. 216, 223.

Ambrose, W. A., 2007, Decarbonized power, energy for the future: clean coal, CO₂ sequestration, and the EOR prize in the Gulf Coast and Permian Basin (abs.), in Program with abstracts, Southwest Section AAPG Annual Meeting, Wichita Falls, Texas, April 21-24, p. 23.

Ambrose, W. A., 2007, Near- to mid-term energy mineral sources: bridging the future to alternative energy (abs.): American Association of Petroleum Geologists Annual Convention Abstracts Volume, v. 16, p. 4.

Lee, K. Bouroullec, R., Tomasso, M., and Ambrose, W., 2007, Integration of ground penetrating radar with conventional stratigraphic and lidar data to investigate the three-dimensional geometry of a tidal-inlet reservoir analog, upper Ferron Sandstone, Utah (abs.): American Association of Petroleum Geologists Annual Convention Abstracts Volume, v. 16, p. 81.

Lee, Keumsuk, Bouroullec, Renaud, Tomasso, Mark, and Ambrose, William, 2007, Integration of ground penetrating radar with conventional stratigraphic and lidar data to investigate the three-dimensional geometry of a tidal-inlet reservoir analog, Upper Ferron Sandstone, Utah (abs.): American Association of Petroleum Geologists Annual Convention Abstracts Volume, v. 16, p. 81.

Ambrose, W. A., 2006, First-order relationships between lunar crater morphology, degree of degradation, and relative age: the crater degradation index (abs.): American Association of Petroleum Geologists Annual Convention, v. 15, p. 4.

Ambrose, W. A., 2006, U.S. energy minerals: unconventional resources for the future (abs.), in Southwest Section AAPG annual meeting: Permian Basin oil: good to the last drop, May 22-24, Midland, Texas, unpaginated.

Ambrose, W. A., 2006, Update on CO₂ injection research at the Gulf Coast Carbon Center (ext. abs.), in Proceedings, TCEQ Environmental Trade Fair and Conference, Austin, May 9-11, CD-ROM, 5 p.

Ambrose, W. A., Breton, C. L., Duncan, Ian, Holtz, M. H., Hovorka, S. D., Nuñez-Lopez, Vanessa, and Lakshminarasimhan, Srivatsan, 2006, Source-sink matching and potential for carbon capture and storage in the Gulf Coast, in Proceedings of the 2006 UIC Conference of the Groundwater Protection Council, Abstract 16.

Ambrose, W. A., Holtz, M. H., and Nuñez López, Vanessa, 2006, CO₂ EOR plays and geologic controls on CO₂ sequestration in the Gulf Coast and Permian Basin (abs.), in Program with abstracts, Southwest Section, American Association of Petroleum Geologists Annual Meeting, unpaginated.

Ambrose, W. A., Holtz, M. H., and Nuñez, Vanessa, 2006, CO₂ EOR plays and geologic controls on CO₂ sequestration in the Gulf Coast and Permian Basin (abs.), in Southwest Section AAPG annual meeting: Permian Basin oil: good to the last drop, May 22-24, Midland, Texas, unpaginated.

Ambrose, W. A., Holtz, M. H., Nuñez López, Vanessa, Hovorka, S. D., Guevara, E. H., Breton, Caroline, and Christopher, Charles, 2006, Structural and stratigraphic controls on storage and CO₂ EOR potential in major basins in Texas, California, Illinois, and Michigan (abs.): American Association of Petroleum Geologists Annual Convention, v. 15, p. 4.

Ambrose, W. A., Lakshminarasimhan, S., Holtz, M. H., Nuñez-Lopez, V., Hovorka, S. D., and Duncan, I., 2006, Geologic factors controlling CO₂ storage capacity and permanence - techniques and case studies based on experience with heterogeneity in oil and gas reservoirs applied to CO₂ storage (ext. abs.), in Proceedings, CO₂SC Symposium, Lawrence Berkeley National Laboratory, Berkeley, California, March 20-22, p. 9-11 + CD-ROM.

Hentz, T. F., Kane, J. A., Ambrose, W. A., and Potter, E., 2006, Depositional facies, reservoir distribution, and infield potential of the lower Atoka Group (Bend Conglomerate) in Boonsville field, Fort Worth Basin, Texas: new look at an old play (abs.): American Association of Petroleum Geologists Annual Convention, v. 15, p. 46.

Ambrose, W. A., Bouroullec, Renaud, Fouad, Khaled, Jones, Rebecca, Guevara, E. H., Garciacaro, Emilio, Sosa Patron, A. A., Patino Ruiz, Jaime, and Cardenas Lopez, J. D. G., 2005, Deepwater facies architecture and evolution of middle and lower Miocene minibasins in the onshore Salina Basin, southeastern Mexico (abs.): American Association of Petroleum Geologists Annual Convention abstracts volume, v. 14, p. A5.

Bouroullec, Renaud, Ambrose, W. A., Fouad, Khaled, Jones, Rebecca, Sosa Patron, A. A., and Cardenas Lopez, J. D. G., 2005, Neogene salt tectonics in the Salina Basin, southern Mexico (abs.): American Association of Petroleum Geologists Annual Convention abstracts volume, v. 14, p. A18.

Fouad, Khaled, Ambrose, W. A., Sakurai, Shinichi, Jennette, David, Aranda, Mario, Alvarado, Juan, and Macias, Eduardo, 2005, Wave-shape classification and multi-attribute analysis of the lower Miocene deep-water reservoirs, Laguna Madre Basin, offshore Mexico (abs.), in Plays y yacimientos de aceite y gas en rocas siliciclasticas, Reynosa, Mexico: Pemex, CD-ROM, 1 p.

Hentz, T. F., DeAngelo, Michael, Wawrzyniec, T. F., Brown, L. F., Jr., Sakurai, Shinichi, Ambrose, W. A., Cuevas, Antonio, and Hernández-Mendoza, J. J., 2005, Miocene depositional and chronostratigraphic framework: relation to potential gas exploration in the Burgos Basin, northeastern Mexico (abs.), in Plays y yacimientos de aceite y gas en rocas siliciclasticas, Reynosa, Mexico: Pemex, CD-ROM, 1 p.

Ambrose, W. A., Fouad, Khaled, Jones, Rebecca, Holtz, Mark, Sakurai, Shinichi, Guevara, Edgar, Meneses-Rocha, Javier, Aguilera, Lino, Miranda, L., Rojas, Roberto, Morales, José, Berlanga, José, Talukdar, Suhas, and Wawrzyniec, Tim, 2004, Upper Miocene and Pliocene gas and oil plays in the Macuspana Basin, southeastern México (abs.): Houston Geological Society Bulletin, v. 46, no. 7, p. 15-17.

Ambrose, W. A., Wawrzyniec, T. F., Fouad, Khaled, Brown, L. F., Jr., Sakurai, Shinichi,

Jennette, D. C., Dunlap, D. B., Guevara, E. H., Aranda-García, Mario, Hernández-Romano, Ulises, Cárdenas-Hernández, Ramón, Macías Zamora, Eduardo, and Talukdar, S. C., 2004, Neogene shelf, slope, and basin-floor gas plays, Laguna Madre-Tuxpan continental shelf, eastern Mexico (ext. abs.), in American Association of Petroleum Geologists International Conference, Cancun. [6 p.]

Ambrose, W. A., Wawrzyniec, T. F., Fouad, Khaled, Brown, L. F., Jr., Sakurai, Shinichi, Jennette, D. C., Guevara, E. H., Aranda-García, Mario, Hernández-Romano, Ulises, Cárdenas-Hernández, Ramón, Macías Zamora, Eduardo, and Talukdar, S. C., 2004, Geologic controls on Neogene deep-water and shelf gas plays, Laguna Madre-Tuxpan continental shelf, eastern Mexico (abs.): American Association of Petroleum Geologists Annual Convention Abstracts Volume, v. 13, p. A5.

Fouad, Khaled, Brown, L. F., Jr., Ambrose, W. A., and Dunlap, D. B., 2004, Genetic facies analysis using seismic geomorphology and seismic attributes in the continental shelf of eastern Mexico (ext. abs.), in American Association of Petroleum Geologists International Conference, Cancun. [6 p.]

Guevara, E. H., Ruiz-Ruiz, H. F., Ambrose, W. A., Martínez-García, Julieta, Rico-Pérez, Juan, Wawrzyniec, T. F., Aranda-García, Mario, Fouad, Khaled, Sakurai, Shinichi, and Sánchez-Barreda, L. A., 2004, Use of biostratigraphic data in the definition of the geological framework of the Neogene in the southern Laguna Madre-Tuxpan continental shelf, eastern Mexico (abs.): American Association of Petroleum Geologists Annual Convention Abstracts Volume, v. 13, p. A56.

Hentz, T. F., Ambrose, W. A., DeAngelo, M. V., Wawrzyniec, T. F., Holtz, M. H., Sakurai, Shinichi, Talukdar, S. C., Cuevas, Antonio, and Hernández-Mendoza, J. J., 2004, Miocene play definition and chronostratigraphic framework of the Burgos Basin, northeastern Mexico (abs.), in AAPG International Conference & Exhibition, Cancun, Mexico, official program book: American Association of Petroleum Geologists, p. A30. Also on CD-ROM.

Hentz, T. F., DeAngelo, Michael, Wawrzyniec, T. F., Brown, L. F., Jr., Sakurai, Shinichi, Ambrose, W. A., Cuevas, Antonio, and Hernández-Mendoza, J. J., 2004, Miocene depositional and chronostratigraphic framework: relation to potential gas exploration in the Burgos Basin, northeastern Mexico (abs.): American Association of Petroleum Geologists Annual Convention Abstracts Volume, v. 13, p. A62.

Sakurai, Shinichi, Ambrose, William, Jennette, D. C., Holtz, M. H., Dutton, Shirley, Fouad, Khaled, Wawrzyniec, T. F., Dunlap, Dallas, Guevara, E. H., Grimaldo-Suarez, F. M., Aguilera-Gomez, L. E., and Rodriguez-Larios, J. A., 2004, Petrophysical evaluation of Miocene-Pliocene gas reservoirs: Veracruz and Macuspana Basins, Mexico (abs.): American Association of Petroleum Geologists Annual Convention Abstracts Volume, v. 13, p. A122.

Wawrzyniec, T. F., Swenson, John, Fouad, Khaled, Ambrose, William, Aranda, Mario, Macías Zamora, Eduardo, and Sánchez-Barreda, L. A., 2004, Late Cenozoic intrabasinal deformation in offshore Laguna Madre-Tuxpan continental shelf and related deepwater Mexican Ridges Fold Belt (abs.): American Association of Petroleum Geologists Annual Convention Abstracts Volume, v. 13, p. A146.

Ambrose, William, Fouad, Khaled, Wawrzyniec, T. F., Vendeville, B. C., and Meneses-Rocha, Javier, 2003, The Macuspana Basin, South Gulf of Mexico: impact of shale tectonics and late contraction of an extensional basin on hydrocarbon accumulation (abs.): American Association of Petroleum Geologists Annual Convention Official Program, v. 12, p. A6.

Fouad, Khaled, Ambrose, W. A., Brown, Frank, and Jennette, David, 2003, Seismic facies an attribute analysis of the Miocene incised-valley and submarine-canyon systems in Tuxpan Basin, offshore Mexico (ext. abs.), in Transactions, SEG International Exposition and Seventy-Third Annual Meeting, CD-ROM, 4 p.

Fouad, Khaled, Ambrose, W. A., Sakurai, Shinichi, and Jennette, David, 2003, Wave-shape

classification and attribute analysis of the lower Miocene deep-water reservoirs, Laguna Madre Basin, offshore Mexico, in Tuxpan Basin, offshore Mexico (ext. abs.), in Transactions, SEG International Exposition and Seventy-Third Annual Meeting, CD-ROM, 4 p.

Ambrose, W. A., and Fouad, Khaled, 2002, Seismic imaging of upper Miocene fluvial reservoirs in the southern Macuspana Basin, southeastern Mexico (ext. abs.), in SEG International Exposition and 72nd Annual Meeting, Salt Lake City, October 6-11, CD-ROM [4 p.]

Ambrose, W. A., Wawrzyniec, T. F., Fouad, Khaled, Holtz, M. H., Sakurai, Shinichi, Jones, R., Guevara, E. H., Solis, H., Berlanga, J., Miranda, L., Rojas, R., Meneses-Rocha, J., and Lugo, J. E., 2002, Pliocene and Miocene shoreface gas plays in the Macuspana Basin, southeastern Mexico (abs.): American Association of Petroleum Geologists Annual Convention Official Program, v. 11, p. A6.

Jennette, David, Fouad, Khaled, Wawrzyniec, T. F., Meneses-Rocha, J., Holtz, M. H., Sakurai, Shinichi, Grimaldo, F., Munoz, Rafael, Talukdar, S., Lugo, J. E., Barrera, D., Dutton, S. P., Ambrose, W. A., Escamilla, A., Dunlap, D. B., Guevara, E. H., and Bellian, J. A., 2002, Past and future gas play potential of the Neogene in the Veracruz Basin, southern Mexico (abs.): American Association of Petroleum Geologists Annual Convention Official Program, v. 11, p. A87.

Meneses-Rocha, J., Wawrzyniec, T. F., Fouad, Khaled, Guevara, E. H., Ambrose, W. A., Jennette, David, Sánchez-Barreda, L. A., and Lugo-Rivera, J. E., 2002, Contrasting structural styles of the Macuspana and Veracruz Basins, Mexico (abs.): Gulf Coast Association of Geological Societies Transactions, v. 52, p. 723.

Wawrzyniec, T. F., Meneses-Rocha, J., Fouad, Khaled, Ambrose, W. A., Jennette, David, Jones, R., Holtz, M. H., Sakurai, Shinichi, and Guevara, E. H., 2002, The tectonic evolution of the southern margin of North America: insight from an interdisciplinary investigation of basin evolution along the southern Gulf of Mexico (abs.): American Association of Petroleum Geologists Annual Convention Official Program, v. 11, p. A186.

Ambrose, W. A., and Scott, A. R., 2001, Coalbed methane: a significant source of unconventional gas in western North America, with additional potential in Texas and Mexico (abs.), in Exploracion y desarrollo de plays gasiferos, Cuarta Conferencia Internacional Conjunta, Veracruz, Mexico: Asociacion Mexicana de Geologos Petroleros and American Association of Petroleum Geologists, 2 p., CD-ROM.

Ambrose, W. A., Wawrzyniec, T. F., Fouad, Khaled, Jones, R., Jennette, David, Holtz, M. H., Sakurai, Shinichi, Guevara, E. H., Talukdar, S., Solis, H., Meneses-Rocha, J., Lugo, J. E., Aguilera, L., Berlanga, J., Miranda, L., and Rojas, R., 2001, Structural and stratigraphic controls on regional Miocene and Pliocene gas plays in the Macuspana Basin, southeastern Mexico (abs.), in Exploracion y desarrollo de plays gasiferos, Cuarta Conferencia Internacional Conjunta, Veracruz, Mexico: Asociacion Mexicana de Geologos Petroleros and American Association of Petroleum Geologists, 3 p., 3 figures, CD-ROM.

Fouad, Khaled, and Ambrose, W. A., 2001, Enhanced reservoir imaging with 3-D mapping techniques and facies analysis of shoreface reservoirs in the middle Frio J-K interval, Corpus Christi Northwest field, Texas (abs.), in Society of Exploration Geophysicists, International Exposition and Seventy-First Annual Meeting, 2 p., CD-ROM.

Scott, A. R., and Ambrose, W. A., 2001, Preliminary assessment of the coalbed methane potential of Mexico (abs.), in Exploracion y desarrollo de plays gasiferos, Cuarta Conferencia Internacional Conjunta, Veracruz, Mexico: Asociacion Mexicana de Geologos Petroleros and American Association of Petroleum Geologists, 2 p., CD-ROM.

Ambrose, W. A., Hamilton, D. S., Zeng, Hongliu, Holtz, M. H., Light, Malcolm, Yeh, J. S., de Carvajal, G., Pinto, J., Garibaldi, L., and Azpirixaga, I., 1999, Application of RMS amplitude anomaly mapping in inferring controls on fluid saturation and fault-bound reservoir compartments in the C4 Member (lower Misoa Formation), Phase III Area, Bloque I Area, Lake

Maracaibo, Venezuela (ext. abs.), in Rio 99: 6th International Conference of the Brazilian Geophysical Society, Rio de Janeiro: Sociedade Brasileira de Geofísica, European Association of Geophysicists and Engineers, Society of Exploration Geophysicists, and Latin American Geophysical Union, 4 p., CD-ROM.

Ambrose, W. A., Mendez, Milton, and Villalta, Edgar, 1999, Fluvial and deltaic models for oil production in the Mioceno Norte area, Lake Maracaibo, Venezuela (ext. abs.), in Revitalización de provincias petrolíferas maduras, Tercera Conferencia Internacional Conjunta, Veracruz, Mexico: Asociación Mexicana de Geólogos Petroleros and American Association of Petroleum Geologists, 9 p., CD-ROM.

Zeng, Hongliu, Sparlin, M. A., Ambrose, W. A., Villalta, Edgar, Tyler, Roger, and Tyler, Noel, 1999, Seismic sedimentology of Miocene deposits in the Mioceno Norte Area, Lake Maracaibo, Venezuela (ext. abs.), in Rio 99: 6th International Congress of the Brazilian Geophysical Society, Rio de Janeiro: Sociedade Brasileira de Geofísica, European Association of Geophysicists and Engineers, Society of Exploration Geophysicists, and Latin American Geophysical Union, CD-ROM.

Ambrose, W. A., 1998, Oil recovery potential of the Lower Misoa Formation (lower Eocene), Maraven VLA-6/9/21 Area, Lake Maracaibo, Venezuela (abs.): Austin Geological Society Newsletter, v. 33, no. 3, p. 1-2.

Ambrose, W. A., Treviño, R. H., Parker, Dan, and Raeuchle, S. K., 1998, Application of Landmark software to document reservoir architecture from 3-D seismic data in Lake Maracaibo, Venezuela (abs.), in Vision in action: Landmark Worldwide Technology Forum: Landmark, a Halliburton Company, unpaginated.

Treviño, R. H., Ambrose, W. A., Akhter, M. S., Barba, R. E., Jr., and Parker, Dan, 1998, Reservoir characterization of the Lower Misoa Formation, Maraven, S.A., VLA-6/9/21 Area, Lake Maracaibo, Venezuela (abs.), in American Association of Petroleum Geologists Annual Convention Program, CD-ROM.

Ambrose, W. A., Akhter, M. S., Mendez, Milton, and Alvarez, Regulo, 1997, Control of reservoir architecture on remaining oil in mixed-load fluvial and bay-fill systems in the Upper Laguna and Lower Bachaquero Members in the Lagunillas Formation, Mioceno Norte Area, Lake Maracaibo, Venezuela (abs.): American Association of Petroleum Geologists Annual Convention Official Program, v. 5, p. A3.

Ambrose, W. A., Raeuchle, S. K., Agostini, Nelida, Akhter, M. S., Guevara, E. H., Leon, Pedro, Medina, Mileida, Munoz, Pedro, Parra, Nestor, and Wang, F. P., 1997, Oil recovery strategies in tide-dominated estuarine-fill sequences in the Lower Misoa Formation (Lower Eocene), Maraven Bloque I Area, Lake Maracaibo, Venezuela (abs.): American Association of Petroleum Geologists Bulletin, v. 81, no. 8, p. 1360.

Ambrose, W. A., Hamilton, D. S., Holtz, M. H., Anthony, D. P., Tadiar, E. F., and Chamalaun, M. E., 1996, Depositional architecture of lacustrine-delta and fluvial systems of the Permian Epsilon and Toolachee Formations at Dullingari field, southeastern Cooper Basin, South Australia (abs.): American Association of Petroleum Geologists Official Program, p. A3.

Ambrose, W. A., Wang, F. P., Akhter, M. S., Skolnakorn, J., Mendez, Milton, and Alvarez, Regulo, 1996, Optimal oil recovery strategies in Miocene transgressive-barrier, coastal-plain, and mixed-load fluvial systems in the Mioceno Norte area, Lake Maracaibo, Venezuela (abs.): American Association of Petroleum Geologists Bulletin, v. 80, no. 8, p. 1267-1268.

Ambrose, W. A., Ferrer, E. R., Dutton, S. P., Padron, Antonio, Wang, F. P., Yeh, J. S., Carrasquel, Williams, and Tyler, Noel, 1994, Production optimization through characterization of tide-dominated deltaic reservoirs of the lower Misoa Formation (lower Eocene), LL-652 area, Lagunillas field, Maracaibo Basin, Venezuela (abs.): American Association of Petroleum Geologists Annual Convention Abstracts, v. 3, p. 93.

Ambrose, W. A., Ferrer, E. R., Padron, Antonio, Wang, F. P., and Tyler, Noel, 1994, Three-dimensional facies architecture and strategic oil recovery in tide-dominated deltaic reservoirs of the Lower Misoa Formation (lower Eocene), LL-652 area, Lagunillas field, Maracaibo Basin, Venezuela (abs.), in Symposium on 3-D Reservoir Characterization: StrataModel, unpaginated.

Ambrose, W. A., Levey, R. A., Vidal, J. M., Sippel, M. A., Ballard, J. R., Coover, D. M., and Bloxsom, W. E., 1993, Secondary natural gas recovery in mature fluvial sandstone reservoirs, Frio Formation, Agua Dulce field, South Texas (abs.): American Association of Petroleum Geologists Bulletin, v. 77, no. 9, p. 1579-1580.

Laubach, S. E., Tyler, Roger, Ambrose, W. A., and Tremain, C. M., 1993, Preliminary map of fracture patterns in coal in the western United States (abs.): International Journal of Rock Mechanics and Mining Sciences and Geomechanics Abstracts, v. 30, no. 3, p. 167A.

Ambrose, W. A., Ayers, W. B., Jr., and Yeh, J. S., 1992, Depositional controls on coalbed methane occurrence in the Fruitland Formation (Upper Cretaceous), San Juan Basin, Colorado and New Mexico (abs.): Methane from Coal Seams Technology, v. 9, no. 2, p. 47.

Ambrose, W. A., Tyler, Roger, Scott, A. R., and Kaiser, W. R., 1992, Coalbed methane potential of the Greater Green River, Piceance, Powder River, and Raton Basins (abs.): American Association of Petroleum Geologists Bulletin, v. 76, no. 8, p. 1255.

Kaiser, W. R., and Ambrose, W. A., 1992, Hydrology and production of coalbed methane in western United States intermontane basins (abs.): American Association of Petroleum Geologists Annual Convention Official Program, v. 1, p. 84.

Kaiser, W. R., and Ambrose, W. A., 1992, Hydrology and production of coalbed methane in western United States intermontane basins (abs.): American Association of Petroleum Geologists Bulletin, v. 76, no. 8, p. 1261.

Scott, A. R., and Ambrose, W. A., 1992, Thermal maturity and coalbed methane potential of the Greater Green River, Piceance, Powder River, and Raton Basins (abs.): American Association of Petroleum Geologists Annual Convention Official Program, v. 1, p. 116.

Ambrose, W. A., Ayers, W. B., Jr., and Yeh, J. S., 1991, Depositional controls on coalbed methane occurrence in the Fruitland Formation (Upper Cretaceous), San Juan Basin, Colorado and New Mexico (abs.): Geological Society of America Abstracts with Programs, v. 23, no. 4, p. 2.

Ayers, W. B., Jr., Ambrose, W. A., Kaiser, W. R., Laubach, S. E., Scott, A. R., Yeh, J. S., Tremain, C. M., and Whitehead, N. H., III, 1991, Geologic and hydrologic characterization of coalbed methane reservoirs, Fruitland Formation, San Juan Basin, Colorado and New Mexico (abs.): American Association of Petroleum Geologists Bulletin, v. 75, no. 3, p. 535.

Laubach, S. E., Tyler, Roger, Tremain, C. M., Grout, M. A., and Ambrose, W. A., 1991, Fracture patterns in coal in the western United States: observations and implications for development of coalbed methane resources (abs.): Geological Society of America Abstracts with Programs, v. 23, no. 5, p. A38-A39.

Ambrose, W. A., and Ayers, W. B., Jr., 1990, Barrier-strandplain deposits of the Pictured Cliffs Sandstone and coal occurrence in the Fruitland Formation, northern San Juan Basin, Colorado and New Mexico (abs.): American Association of Petroleum Geologists Bulletin, v. 74, no. 8, p. 1313.

Ambrose, W. A., and Ayers, W. B., Jr., 1990, Geologic controls on occurrence and producibility of coal-bed methane resources in the Upper Cretaceous Fruitland Formation, San Juan Basin, Colorado and New Mexico (abs.): American Association of Petroleum Geologists Bulletin, v. 74, no. 5, p. 598.

Ambrose, W. A., and Tyler, Noel, 1990, Depositional and structural origin of oil and gas plays in

the Upper Cretaceous Olmos Formation, Maverick Basin, South Texas (abs.): Corpus Christi Geological Society Bulletin, January, p. 2.

Ambrose, W. A., and Tyler, Noel, 1989, Facies heterogeneity, pay continuity, and infill potential in barrier-island, fluvial, and submarine fan reservoirs: examples from the Texas Gulf Coast and Midland Basin (abs.): American Association of Petroleum Geologists Bulletin, v. 73, no. 3, p. 328.

Jackson, M. L. W., and Ambrose, W. A., 1989, Influence of reservoir heterogeneity on gas resource potential for geologically based infill drilling, Brooks and I-92 reservoirs, Frio Formation, South Texas (abs.): American Association of Petroleum Geologists Bulletin, v. 73, no. 9, p. 1185.

Ambrose, W. A., and Jackson, M. L. W., 1988, Geologically based infill potential of fluvial gas reservoirs, La Gloria (Frio) field, South Texas (abs.): South Texas Geological Society Bulletin, v. 29, no. 2, p. 9.

Ambrose, W. A., Jackson, M. L. W., and Finley, R. J., 1988, Application of facies analysis to improve gas reserve growth in fluvial Frio reservoirs, La Gloria field, South Texas (abs.): American Association of Petroleum Geologists Bulletin, v. 72, no. 2, p. 154.

Ambrose, W. A., and Jackson, T. J., 1987, Fluid-injection potential of Miocene barrier island and wave-dominated deltaic sands in the Northeast Hitchcock and Alta Loma fields, Galveston County, Texas (abs.): in SEPM Annual Midyear Meeting Abstracts: Society of Economic Paleontologists and Mineralogists, v. 4, p. 3-4.

Tyler, Noel, and Ambrose, W. A., 1985, Facies architecture and production characteristics of wave-dominated deltaic reservoir, Big Wells field, southern Texas (abs.): American Association of Petroleum Geologists Bulletin, v. 69, no. 2, p. 313.

Ambrose, W. A., and Tyler, Noel, 1984, Regional distribution of wave- and fluvial-dominated deltaic deposition of the Olmos Formation (Upper Cretaceous) in Maverick Basin, Southwest Texas (abs.): American Association of Petroleum Geologists Bulletin, v. 68, no. 4, p. 448.

Ambrose, W. A., 1983, Tide-dominated deltaic deposits of the Spoon Formation (Pennsylvanian) in a narrow, subsiding trough, Southern Illinois: Geological Society of America, Abstracts with Programs, v. 15, no. 6.