

James O. Puckette
School of Geology
Oklahoma State University
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EDUCATION

- Ph.D. Environmental Science (Geology) Oklahoma State University (1996)
“Evaluation of underpressured reservoirs as potential repositories for liquid wastes”
Advisor: Zuhair Al-Shaieb
- M.S. Geology, Oklahoma State University (1990)
“Depositional setting, facies, and petrology of Cabaniss (Upper “Cherokee”) Group
in Beckham, Dewey, Custer, Ellis, Roger Mills, and Washita Counties, Oklahoma”
Advisor: Zuhair Al-Shaieb
- B.S. Secondary Science Education, Oklahoma State University (1976)
B.S. Geology, Oklahoma State University (1976)

PROFESSIONAL EXPERIENCE

- 2020 - Professor, School of Geology
2006 - 2020 Associate Professor, School of Geology
2000 - 2006 Assistant Professor, School of Geology
1999 – 2000 Visiting Assistant Professor, School of Geology
1997 – 1999 Research Coordinator and Lecturer, Okla. State Univ.
1992 – 1997 Senior Research Specialist, Okla. State Univ.
1987 – 1992 Research Assistant, Oklahoma State University
1986 – 1987 Chief Geologist, O.R.M. Exploration Company
1982 – 1986 Chief Geologist, Rocky Mountain Production Company
1976 – 1982 Geologist, Ketal Oil Producing Company

HONORS and AWARDS

- 2015 Legends Award, Oklahoma Geological Foundation
- 2015 Grover E. Murray Memorial Distinguished Educator Award by the American Association of Petroleum Geologists
- 2014 Awarded Chair of Geoscience Education
- 2013 Outstanding Faculty Academic Advisor, College of Arts and Sciences
University Excellence Award for Academic Advising
- 2012 Outreach Faculty Excellence Award
Guest Professor, China University of Petroleum (Huadong)

- 2009 Regents Distinguished Teaching Award

- 2005 Outstanding Jr. Faculty Award for Scholarly Excellence, College of Arts and Sciences, Oklahoma State University

- 2004 A. L. Cox Award: Outstanding poster presentation: American Association of Petroleum Geologists Southwest Section Meeting. Ft. Worth, Texas

- Outstanding Faculty Academic Advisor, College of Arts and Sciences, Oklahoma State University

- 2003 Roger L. Planalp Award: Outstanding poster presentation: American Association of Petroleum Geologists Mid-Continent Section Meeting, Amarillo, Texas

TEACHING and ADVISING

Courses Taught

- Exploring Earth: An Introduction to Geology (GEOL 1013)
- Geology and Human Affairs (GEOL 1014)
- Physical Geology (GEOL 1114)
- Mineralogy (GEOL 2254)
- Sedimentology and Stratigraphy (GEOL 3034)
- Environmental Geology (GEOL 3503)
- Field Geology (GEOL 3546)
- Petroleum Geology (GEOL 4023)
- Terrain Analysis (GEOL 4030)
- Well Log Analysis for Engineers (GEOL 4323)
- Geochemistry (GEOL 4403)
- Petrology of Clastic Rocks (GEOL 5253)
- Subsurface Methods (GEOL 5283)
- Organic Geochemistry (GEOL 5523)
- Advanced Well Log Analysis (GEOL 5353)
- Sequence Stratigraphy (GEOL 5383) team (30%)
- Environmental Geochemistry (GEOL 5553)
- Basin Analysis (GEOL 5603)
- Unconventional Petroleum Reservoirs (GEOL 6133)
- Geology of Shale (GEOL 6283) team (20%)

Student Assessment of 87 Courses (2000-2020): 4.48/5.0

Student Assessment of Instructor for 90 Courses (2000-2020): 4.56/5.0

Undergraduate Academic Advising: Undergraduate Advising Coordinator

- Spring 2003: 25 advisees
- Fall 2003: 57 advisees
- Spring 2004: 56 advisees
- Fall 2004: 71 advisees
- Spring 2005: 68 advisees

Fall 2005: 100 advisees
Spring 2006: 22 advisees
Fall 2006: 24 advisees
Spring 2007: 26 advisees
Fall 2007: 36 advisees
Spring 2008: 44 advisees
Fall 2008: 50 advisees
Spring 2009: 36 advisees
Fall 2009: 42 advisees
Spring 2010: 52 advisees
Fall 2010: 60 advisees
Spring 2011: 60 advisees
Fall 2011: 101 advisees
Spring 2012: 107 advisees
Fall 2012: 112 advisees
Spring 2013: 110 advisees
Fall 2013: 107 advisees

Undergraduate Mentoring

Mentored 3 Senior Honors Theses and 5 Wentz Projects

Graduate Student Advisees

Mentored 67 MS graduates and 2 Ph.D. graduates
Presently mentoring 14 MS candidates and 2 Ph.D.
Served on 9 Ph.D. and 57 M.S. thesis committees as member
Presently serving on 7 Ph.D. dissertation committees and 9 M.S.
thesis committees

SERVICE

University

Academic Appeals Board (2003-2004)

College of Arts & Sciences

Associate Dean of Extension Search Committee (2002)
Outstanding Academic Advisor Selection Committee (2005; 2014)
Academic Integrity Facilitator (2016-2019)

School

Undergraduate and Recruiting Committee – chair (2000-2018); member (2019-2020)
Assessment Committee (2001-2012) – chair (2008- 2020)
Personnel Committee (2009-2012, 2017-2020)
Undergraduate Curriculum Committee (2008-2018)
Faculty Advisor or Co-Advisor: Student Chapter of the American Association of
Petroleum Geologists (2000-2020)
Co-Faculty Advisor: Oklahoma State University Geological Society (2000-2018)
Advisor: Geology Graduate Student Association (2017-2020)
Co-Advisor: Association of Women Geoscientists (2017-2020)

Advisor: American Institute of Professional Geologists (2019-2020)
Chair: Teaching Assistant Professor Search Committee (2017 & 2021)

Professional Organizations

American Association of Petroleum Geologists
Member Reservoir Development Committee (2010-2013)
Member of the Youth Educational Activities Committee (2002-2017)
Member of the Preservation of Geoscience Data Committee (2002-2008)
Mid-Continent Section 2003 Meeting Planning Committee (2001-2003)
Co-Convener of Session "Hot Plays in the Mid-Continent Region" 2003
Mid-Continent Section Meeting
Leader: Field Trip to Cement Field in Conjunction with 2005 and 2011
Mid-Continent Section Meetings
Co-Leader: Field Trip to Mississippian outcrops 2019 Mid-Continent Section Meeting
Geological Society of America
Co-convener of Symposium on Sequence Stratigraphy of Carboniferous and
Permian Strata, 2006 South-Central Section Meeting
Co-Leader: Field Trip in Conjunction with 2006 South-Central Section Meeting
Co-convener of Session on Gas Shales of North America, 2007 Annual Meeting

Community

Scoutmaster and Assistant Scoutmaster for Troop 818 Boy Scouts of America
(2000-2002)
42 Presentations on geology: public schools, STEM events and home-schooled students,
11 additional presentations to Girl Scouts and 4-H Club groups (2000-2020)
4 Presentations to civic clubs (2007-2020)
OSU Grandparents University (2015-2020)

GRANTS and CONTRACTS (Funded)

Fluid in Rocks: Porosity, Permeability and Reservoir Characterization

PI with Co-PIs Toni Ivey and Tracy Quan
Total Award: \$13,700, PI's share \$4,560
Source: Halliburton Foundation
Duration: 9/1/19 to 08/31/20

Field evaluation of the Caney Shale as an emerging unconventional play, southern Oklahoma

PI with Co-PIs Mike Grammer and Jack Pashin
Total Award: \$19.9 million, Geology's part \$2,334,948, PI's share \$890,275
Sponsor: U.S. Department of Energy
Duration: 10/01/2019 to 9/31/2023

Fluid in Rocks: Porosity, Permeability and Reservoir Characterization

PI with Co-PIs Toni Ivey and Tracy Quan
Total Award: \$25,800, PI's share \$8,600
Source: Halliburton Foundation
Duration: 9/1/19 to 08/31/20

Description of Mississippian and Woodford core, Linn Energy, Collins 15-9-5

PI with Co-PI Mike Grammer
Total Award: \$20,000, PI's share \$10,000
Sponsor: Linn Energy Corporation
Duration: 9/01/2017 to 8/31/2018

Loading rate dependent hydraulic fracturing of shale: optimizing resource extraction

Co-PI with Raman Singh
Total Award: \$194,979, J. Puckette's share: \$33,244
Sponsor: Oklahoma Center for Advancement of Science and Technology
Duration: 11/1/16 to 10/31/18

Development of a new analytical technology in support of oil and natural gas extraction.

Co-PI with PI Khalid Hossain, Amethyst Research Inc.
Total Award: \$998,673, J. Puckette's share: \$78,540
Sponsor: U.S. Department of Energy
Duration: 8/01/2016 to 7/31/2018

Geology of Oklahoma: Minerals, Rocks, Stratigraphy, Tectonics and Time – Components of Petroleum Systems and Oil and Gas Accumulations

PI with Co-PIs Toni Ivey and Tracy Quan
Total Award: \$18,000, PI's share \$6,000
Source: Halliburton Foundation
Duration: 9/1/18 to 08/31/19

Reaction of Rocks and Water: Porosity, Permeability and Hydraulic Fracturing, plus Additional Activities on Mountain Building and Geologic Analysis with Satellite Images

PI with Co-PIs Toni Ivey and Tracy Quan
Total Award: \$30,000, PI's share \$10,000
Source: Halliburton Foundation
Duration: 9/1/17 to 08/31/18

Description of Mississippian and Woodford core, Linn Energy, Barbour 12-10-7

PI with Co-PI Mike Grammer
Total Award: \$20,000, PI's share \$10,000
Sponsor: Linn Energy Corporation
Duration: 3/01/2016 to 5/31/2017

Fluid in Rocks: Reaction of Rocks and Water: Porosity, Permeability and Hydraulic Fracturing, plus Additional Activities on Mountain Building and Earthquakes

PI with Co-PIs Toni Ivey and Tracy Quan
Total Award: \$18,000, PI's share \$6,000
Source: Halliburton Foundation
Duration: 9/1/16 to 08/31/17

Stratigraphy of Mississippian Strata in Central and Eastern Oklahoma: High-Resolution Correlation of Outcrops to Cores

(Co PI M. Grammer)
Source: Devon Energy Corporation
Amount: \$200,910, (PI's share \$150,000 est)
Duration: 1/1/15 to 12/31/16

Fluid in Rocks: Porosity, Permeability and Hydraulic Fracturing/Field Camp Rocks to
Careers: Reservoir Characterization at Halliburton (PI J. Puckette)
Source: Halliburton Foundation
Amount: \$11,000
Duration: 9/1/15 to 08/31/16

Research and Development of a Unique Analytical Facility in Support of Shale
Exploration: Nuclear Microprobe for Geochemical & Mineralogical Characterization
(PI Khalid Hossain, Co PI J. Puckette)
Source: Oklahoma Center for the Advancement of Science and Technology (OCAST)
Amount: \$300,000, Co PI's share \$46,150
Duration: 11/1/2014 to 10/31/2016

High Resolution Stratigraphy, Palaeogeography, and Conodont Biostratigraphy of
Mississippian Strata and Devonian Woodford Shale (PI- D. Boardman, Co PIs J. Pashin,
E. Atekwana, J. Puckette, T. Quan and M. Grammer)
Source: Newfield Exploration
Amount: \$546,894, J. Puckette's share: \$116,723
Duration: 7/1/14 to 6/30/16

Petrophysics and Tight Rock Characteristics for the Application of Improved Stimulation
and Production Technology in Shale (PI J. Puckette, Co-PIs Jack Pashin (Geology),
Khaled Gasem, Peter Clark, Sayeed Mohamed (Chemical Engineering), Jeff White
(Chemistry) Peter Walsh (Mechanical Engineering-University of Alabama Birmingham)
Source: Research Partnership to Secure Energy for America (RPSEA)
Amount: \$1,529,702. PI's share \$186, 319
Duration: 6/27/2013 to 6/26/2016

Reservoir Distribution and Characterization of Midcontinent Mississippian Carbonates
(Co-PI with Mike Grammer, Darwin Boardman, Priyank Jaiswal and Jay Gregg)
Source: Petroleum Industry Consortium
Amount: \$385,000, Co PI's share \$51,770
Duration: 12/31/2012 to 12/31/2013

Atlas of Modern Deltas (PI J. Puckette)
Source: American Association of Petroleum Geologists
Amount: \$31, 728
Duration: 4/1/2012 to 3/31/2014

G.E.T. (Geoscience Experience for Teachers) in the Field (Co-PI (40% participation) w/Toni Ivey)
Source: NSF
Amount: \$113,618, Co PI's share \$45,447

- Duration: 10/1/10 to 3/31/13
- Global Atlas of Outcropping Reservoir Rocks (PI J. Puckette)
Source: American Association of Petroleum Geologists
Amount: \$31,142
Duration: 6/30/10 to 6/30/12
- Springer Sequence Stratigraphy (PI J. Puckette)
Source: Devon Energy Corporation
Amount: \$123,085
Duration: 4/01/07 to 8/31/11
- Ancient and Modern Incised Valleys (PI J. Puckette)
Source: American Association of Petroleum Geologists
Amount: \$26,518
Duration: 8/01/09 to 8/31/11
- Distribution of Carbonate Reefs (PI J. Puckette)
Source: American Association of Petroleum Geologists
Amount: \$14,755
Duration: 6/31/08 to 8/31/11
- Woodford Shale: Subsurface and Surface Analysis (Co-PI with D. Boardman and
Co-PIs I. Cemen and A. Cruse)
Source: Newfield Exploration
Amount: \$304,573, Co PI's share \$121,829
Duration: 7/1/06 to 7/1/09
- Pressure Distribution in Sedimentary Basins (PI J. Puckette)
Source: AAPG Datapages
Amount: \$14,626
Duration: 9/1/08 to 8/31/09
- Deep Aquifer Characterization
Source: Oklahoma Water Resources Board
Amount: \$14,043
Duration: 10-1-07 to 3-31-09
- Integrated Seismic and GPR (PI J. Puckette)
Source: Devon Energy Corporation
Amount: \$28,161
Duration: 6-1-06 to 8-31-08
- Elements of Prospectivity and Productivity of Mississippian Dark Shales, Southern
Midcontinent and Northern Texas (PI J. Puckette with Co-PIs Darwin Boardman and Anna Cruse)
Source: Devon Energy Corporation
Amount \$99,435, PI's share \$41,762
Duration: 8-31-06 to 9-1-08

Pressure Distribution in Sedimentary Basins (PI J. Puckette)

Source: AAPG Datapages

Amount: \$14,626

Duration: 9-1-06 to 8-31-07

Productivity of Mississippian Dark Shales (PI J. Puckette with Co-PIs Darwin Boardman, Stan Paxton and Surinder Sahai)

Source: Devon Energy Corporation

Amount: \$98,349

Duration: 5-31-05 to 6-31-06

Arbuckle and Simpson Aquifer Study (Co-PI J. Puckette with PI Todd Halihan and Co-PI Surinder Sahai)

Source: Oklahoma Water Resources Board

Amount: \$426,211

Duration: 9-01-03 to 9-30-06

Star Schools Earth Science (PI J. Puckette (2-years) with Co-PI Richard Marston)

Source: US Department of Education

Amount: \$331,886

Duration: 4-15-02 to 8-31-05

Water Quality in Selected Springs, Ozark Region, Oklahoma (PI J. Puckette)

Source: A&S Deans Office (Dean's Incentive Grant)

Amount: \$6,000

Duration: 7-01-01 to 6-30-03

PUBLICATIONS (Refereed) (41) *Student author

2020 Toth*, K., and J. Puckette, Influence of Structure on Mississippian Paleotopography and Distribution of Middle Pennsylvanian Sandstone Reservoirs on the Cherokee Platform, Northern Oklahoma: AAPG Bulletin (accepted and in technical review)

2019 Al Atwah, I., **J. Puckette**, M. Becker and J. M. Moldowan, Source rock reservoirs geochemistry of Devonian-Mississippian mudrocks in central Oklahoma: AAPG Bulletin, DOI: 10.1306/061211918136

Al Atwah*, I., **J. Puckette**, J. Pantano, K. Arouri, J. M. Moldowan, Organic Geochemistry and Crude Oil Source Rock Correlation of Devonian-Mississippian Petroleum Systems in Northern Oklahoma: AAPG Memoir 122. DOI: 10.1306/13632152M1163790

Godwin*, C., D. Boardman II., and **J. Puckette**, Meramecian-Chesterian (Upper Visean) conodont biostratigraphy and revised lithostratigraphy along the southwestern flank of the Ozark uplift, southern Mid-continent, USA: AAPG Memoir 122, DOI: 10.1306/13632142M1163785 (in press)

- Godwin*, C., and **J. Puckette**, Depositional cyclicity within the Mayes Group (Meramecian-Chesterian) along the western edge of the Mississippian outcrop belt in northeastern Oklahoma: AAPG Memoir 122, DOI: 10.1306/13632144M1163785 (in press)
- Miller*, J. D., **J. Puckette**, and C. Godwin, Conodont biostratigraphy-constrained diachronous lithofacies, Boone Group (upper Osagean to lower Meramecian), western Ozarks: breakdown of lithostratigraphic correlations at the regional scale: AAPG Memoir 122, DOI: 10.1306/13632143M1163785 (in press)
- Unrast*, M., **J. Puckette**, J. M. Gregg and I. Somerville, Tournaisian (Mississippian) Carbonate Mounds in the Ozark Region, North America and Ireland, a Comparison: AAPG Memoir 122, DOI: 10.1306/13632146M1162874 (in press)
- Mohammadi, S.D., J. M. Gregg, K. L. Shelton, M. S. Appold, and **J. Puckette**, Influence of late diagenetic fluids on Mississippian carbonate rocks on the Cherokee – Ozark Platform, NE Oklahoma, NW Arkansas, SW Missouri, and SE Kansas: AAPG Memoir 122, DOI: 10.1306/13632154M1163791 (in press)
- 2018 Koteeswaran, S., M. Habibpour, **J. Puckette**, J. C. Pashin and P. E. Clark, Characterization of shale–fluid interaction through a series of immersion tests and rheological studies: Journal of Petroleum Exploration and Production Technology, DOI: 10.1007/s13202-018-0444-5
- 2016 Abongwa, P., E. Atekwana and **J. Puckette**, Dissolved inorganic carbon and stable carbon isotopic evolution of neutral mine drainage interacting with atmospheric CO₂(g): Science of the Total Environment, p. 55-66. DOI: 12.0430048-9697
- 2015 Rivera, K., T. Quan and **J. Puckette**, Evaluation of redox versus thermal maturity controls on $\delta^{15}\text{N}$ in organic-rich shales: A case study of the Woodford Shale, Anadarko Basin, Oklahoma, USA., Organic Geochemistry, p. 127-139. DOI: 10.1016/2015.03.005
- 2014 Kittu, A. T., R. Bulut, and **J. Puckette**, Effects of surface roughness on contact angle measurements on limestone aggregate, *in* Tarefder, R., J. Hu, M. Zaman, and D. Chen (eds), Recent developments in evaluation of pavements and paving materials: American Society of Civil Engineers, p. 1-8., DOI: 10.1061/9780784478493
- 2013 Thomas, J., T. Ivey and **J. Puckette**, Where is Earth science? Mining for opportunities in chemistry, physics and biology: Journal of Geoscience Education, v. 61, p. 113-119. DOI: 10.5408/12-319.1
- Quan, T. M., E. N. Adigwe, N. Riedinger and **J. Puckette**, Evaluating nitrogen isotopes as proxies for depositional environmental conditions in shales: comparing Caney and Woodford Shales in the Arkoma Basin, Oklahoma: Chemical Geology, v. 360-361, p. 231-240. DOI: 10.1016/2013.10.017
- 2012 Zhang, T., G. Xu, **J. Puckette**, F. D Blum, Effect of silica on the structure of cetyltrimethylammonium bromide: J. Phys. Chem., p. 11626-11634. DOI: 10.1021/jp303338t

- Simkins, L. M., A. R. Simms, A. M. Cruse, T. Troini, T., E. A. Atekwana, **J. Puckette** and Y. Yokoyama, Correlation of early and mid-Holocene events using magnetic susceptibility in estuarine cores from bay along the northwestern Gulf of Mexico: *Palaeogeography, Palaeoclimatology and Palaeoecology*, 346-347, p. 95-107.
DOI: 10.1016/j.palaeo.2012.05.024
- 2011 Orante-Barron, V.R., L.C. Oliveira, J.B. Kelly, E.D. Milliken, G. Denis, L.G. Jacobson, **J. Puckette** and E.G. Yukihara, Luminescence properties of MgO produced by solution combustion synthesis and doped with lanthanides and Li: *Journal of Luminescence* 131, p. 1058-1065.
- 2010 Faith, J., Blome, C., Pantea, M. P., **Puckette, J.**, Osborn, N., Christenson, S., Pack, S., and Halihan, T., Three-Dimensional Geologic Model of the Arbuckle-Simpson Aquifer, South-Central Oklahoma: USGS Open-File Report 2010-1123.
- 2009 **Puckette, J.**, Preliminary interpretation of the pressure architecture in parts of northern Louisiana, southern Arkansas and eastern Texas: *Gulf Coast Association of Geological Societies Transactions*, v. 59, p. 607-620.
- Puckette, J.**, and N. Suneson, Field camp: using traditional methods to train the next generation of petroleum geologists, *in* Whitmeyer, S. J., Mogk, D.W., and Pyle E.J., eds., *Field Geology Education: Historical Perspectives and Modern Approaches: Geological Society of America Special Paper 461*, p. 25-34.
- 2008 **Puckette, J.** and A. Rice, Depositional and diagenetic controls of compartmentalization in the Springer reservoirs, southeastern Anadarko basin, Oklahoma: *Oklahoma Geological Survey Circular 111*, p. 63-80.
- Puckette, J.**, Z. Al-Shaieb, and E. Van Evera, Sequence stratigraphy, lithofacies and reservoir quality, upper Morrow sandstones, northwestern shelf, Anadarko basin: *Oklahoma Geological Survey Circular 111*, p. 81-97.
- Puckette, J.**, Reversing the trend, the impact of unconventional energy development on drilling activity and production in Oklahoma, *in* Cardott, B. J., (ed.), *Unconventional Energy Resources in the Southern Midcontinent: Oklahoma Geological Survey Circular 110*, p. 19-27.
- 2002 **Puckette, J.** and Z. Al-Shaieb, The Red Fork Sandstone: an overview of marine and deep marine reservoirs, *in* Boyd, D. T. (ed.), *Finding and producing Cherokee reservoirs in the southern Midcontinent, Oklahoma Geological Survey Circular 108*, p. 119-133.
- Al-Shaieb, Z., **J. Puckette**, P. Deyhim, and A. Close, Compartmentalization of the overpressured interval in the Anadarko basin, *in* Johnson, K. S.; and Merriam, D.F. (eds.), *Petroleum systems of sedimentary basins in the southern Midcontinent, Oklahoma Geological Survey Circular 106*, p. 121-131.
- 2000 **Puckette, J.**, C. Anderson, and Z. Al-Shaieb, The deep-marine Red Fork Sandstone: a submarine-fan complex, *in* Johnson, K. S. (ed.), *Marine clastics in the southern Midcontinent, Oklahoma Geological Survey Circular 103*, p. 177-184.

- Al-Shaieb, Z. and J. **Puckette**, Sequence stratigraphy of Hunton Group ramp facies, Arbuckle Mountains and Anadarko basin, Oklahoma, *in* Johnson, K. S. (ed.), Platform carbonates in the southern Midcontinent, Oklahoma Geological Survey Circular 101, p. 131-137.
- Puckette** J., Z. Al-Shaieb, and M. Sykes, Viola Group reservoir facies, Fitts Pool, Pontotoc County, Oklahoma, *in* Johnson, K. S. (ed.), Platform carbonates of the Southern Midcontinent, Oklahoma Geological Survey Circular 101, p. 117-127.
- Al-Shaieb, Z., J. **Puckette**, and P. Blubaugh, The Hunton Group, sequence stratigraphy, facies, dolomitization, and karstification: Hunton Play in Oklahoma, Oklahoma Geological Survey Special Publication 2000-2, p. 39-50.
- 1999 Al-Shaieb, Z., J. **Puckette**, and P. Deyhim, Compartmentalization of the overpressured interval in the Anadarko basin, *in* Merriam, D. F. (ed.), Geoscience for the 21st Century, AAPG 1999 Midcontinent Section Transactions, Kansas Geological Survey Open-File Report 99-28, p. 63-70.
- 1997 Abdalla, A., J. **Puckette**, and Z. Al-Shaieb, Diagenetic banding: A sealing mechanism in Simpson sandstone reservoirs in central Oklahoma, *in* Johnson, K. S. (ed.), Simpson and Viola Groups in the southern Midcontinent, Oklahoma Geological Survey Circular 99, p. 66-75.
- Sykes, M., J. **Puckette**, A. Abdalla, and Z. Al-Shaieb, Karst development in the Viola Limestone, southern Oklahoma, *in* Johnson, K. S. (ed.), Simpson and Viola Groups in the southern Midcontinent, Oklahoma Geological Survey Circular 99, p. 66-75.
- 1996 **Puckette**, J., A. Abdalla, Z. Al-Shaieb, and A. Rice, The upper Morrow reservoirs: Complex fluvio-deltaic depositional systems, *in* K. S. Johnson and J. A. Campbell (eds.), Fluvial-dominated deltaic reservoirs in the southern Midcontinent, Oklahoma Geological Survey Circular 98, p. 47-84.
- 1995 **Puckette**, J., D. Boardman II, and Z. Al-Shaieb, Evidence for sea level fluctuation and stratigraphic sequences in the Council Grove Group (Lower Permian), Hugoton Embayment, southern Midcontinent, *in* N. Hyne (ed.), Sequence stratigraphy of the Midcontinent, Tulsa Geological Society Special Publication IV, p. 269-290.
- Al-Shaieb, Z., J. **Puckette**, A. Abdalla, and P. Ely, Megacompartement complex in the Anadarko basin: A completely sealed overpressured phenomenon, *in* P. Ortoleva (ed.), Basin compartments and seals, AAPG Memoir 61, p. 55-68.
- Al-Shaieb, Z., J. **Puckette**, A. Abdalla, and P. Ely, Three levels of compartmentation within the overpressured interval of the Anadarko basin, *in* P. Ortoleva (ed.), Basin compartments and seals, AAPG Memoir 61, p. 69-83.
- Al-Shaieb, Z., J. **Puckette**, A. Abdalla, V. Tigert, and P. Ortoleva, The banded character of pressure seals, *in* P. Ortoleva (ed.), Basin compartments and seals, AAPG Memoir 61, p. 351-368.
- Al-Shaieb, Z., J. **Puckette**, A. Abdalla, Influence of sea-level fluctuation on reservoir quality of the upper Morrowan sandstones, northwestern shelf of the Anadarko basin, *in* N. Hyne (ed.), Sequence stratigraphy of the Midcontinent, Tulsa Geological Society Special Publication IV, p. 249-268.

- Ortoleva, P., Z. Al-Shaieb, and J. **Puckette**, Genesis and dynamics of basin compartments and seals: *American Journal of Science* v. 295, April 1995, p. 345-427.
- 1994 Al-Shaieb, Z., J. Cairns, and J. **Puckette**, Hydrocarbon-induced diagenetic aureoles (HIDA): Indicators of deeper leaky reservoirs: *Association of Petroleum Geochemical Explorationists, Bulletin* 10, Dec. 1994, p. 24-48.
- 1993 Al-Shaieb, Z., J. **Puckette**, P. Ely, and A. Abdalla, The upper Morrowan fan-delta chert conglomerate in Cheyenne and Reydon fields: Completely sealed gas-bearing pressure compartments, *in* K. S. Johnson and J. A. Campbell (eds.), *Petroleum reservoir geology in the southern Midcontinent*, Oklahoma Geological Survey Circular 95, p. 39-53.
- Al-Shaieb, Z., R. D. Fritz, J. E. Barrick, and J. **Puckette**, Guidebook for the Hunton Group in the Arbuckle Mountain region, Oklahoma; in association with the Hunton Group Core Workshop and Field Trip: Oklahoma Geological Survey and the Department of Energy *in* Kenneth Johnson (ed.) *Hunton Group Core Workshop and Field Trip*, p. 183-212.
- 1992 Al-Shaieb, Z., J. **Puckette**, P. Ely, and V. Tigert, Pressure compartments and seals in the Anadarko basin, *in* Johnson, K. S., and B. J. Cardott (eds.), *Source rocks in the southern Midcontinent*, Oklahoma Geological Survey Circular 93, p. 210-228.

GUIDEBOOKS, PROCEEDINGS VOLUMES (17) and BOOK REVIEW

- 2019 Godwin, C., J. **Puckette**, J. Bynum, C. Wethington and B. Stuke, Meramecian to middle Chesterian (Visean) rocks of northeastern Oklahoma: Outcrop-based conodont biostratigraphy and revised stratigraphic framework: a field trip and core workshop for the 2019 AAPG Mid-Continent Section Meeting, 64 p.
- 2016 **Puckette, J.**, and E. Atekwana, Part 1: introduction to the Arbuckle Mountains, Part 2: introduction to the Cambrian igneous geology of the Wichita Mountains: rifting and filling of the Southern Oklahoma Aulacogen, Boone Pickens School of Geology freshmen and new student field trip, 23 p.
- Lamle, W., and J. **Puckette**, Structure and Deposition, Arbuckle Mountains: Devon Energy 2016 DTC Field Trip, 63 p.
- Puckette, J.**, Hydrocarbon leakage induced diagenetic alteration over Cement oil field, Cement, Oklahoma: field trip for Chesapeake Energy, 17 p.
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Johnson, Braydn, 2008, Petrophysical study of the West Edmond Field in parts of Oklahoma, Canadian, Kingfisher and Logan Counties, Oklahoma, M.S. thesis, 89 p.

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Singh, Manish, 2007, Correlation and biostratigraphy of surface and shallow subsurface sections of the Barnett Shale, Llano Uplift, south-central Texas, 92 p.

Boucher, Kurtis, 2007, Depositional settings, facies, and petroleum geology of Cabaniss Group in portions of Washita, Custer, Blaine, Caddo, Canadian, and Grady Counties, Oklahoma, M.S. thesis, 133 p.

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Godwin, Cory J., 2004, Electrofacies, depositional environments and petroleum geology of the Hartshorne Formation, parts of Hughes and Pittsburg Counties, Oklahoma, M.S. thesis, 209 p.

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MASTERS REPORTS SUPERVISED (2)

Babb, Chris, 2020, Stratigraphy and reservoir characterization of the Red Fork Sandstone in southern Dewey County, Oklahoma, 53 p.

Dineen, Joey, 2016, High resolution stratigraphy of the St. Joe Group in northern Arkansas, 280 p.

INVITED PRESENTATIONS (87)

2020 Applying a Sequence Stratigraphic Model to Explain Stratigraphic Architecture and the Spatial Distribution of Reservoir Facies in the Mississippian Limestone: Permian Basin Section SEPM, Midland, Texas

- 2019 Influence of Structure on Mississippian Paleotopography and Distribution of the Pennsylvanian Red Fork and Lower Skinner Sandstones in Parts of Noble, Pawnee and Osage Counties, Osage Oil and Gas Summit, Tulsa, OK
- Depositional Processes and Porosity Evolution in the Medrano Sandstone, Anadarko Basin, Oklahoma, Oklahoma Geological Survey Enhanced Oil Recovery (EOR) and Core Workshop, Norman, OK
- Oklahoma Deciphering the Cleveland Sandstone Stratigraphic Framework: Differentiation the Kiefer and Owasso Sandstone Complexes, North-central Oklahoma, Society of Independent Professional Earth Scientists, Oklahoma City, OK
- Influence of Structure on Mississippian Paleotopography and Distribution of the Pennsylvanian Red Fork and Lower Skinner Sandstones in Parts of Noble, Pawnee and Osage Counties, Oklahoma, Society of Independent Professional Earth Scientists, Oklahoma City, OK
- 2018 Oil and Gas Exploration and Development in Northwestern Oklahoma: Past Discoveries, Present Activity and Future Possibilities, Northwestern Oklahoma Mineral Owners Association, Alva, OK
- 2017 From Concept to Stock Tank: Applying a Sequence Stratigraphic Model to Explain Stratigraphic Architecture and Spatial Distribution of Reservoir Facies in the Mississippi Limestone, Tulsa Geological Society, Tulsa, OK
- The Mississippian-Woodford Petroleum System: Why Migration Paths and Oils are Different East and West of the Nemaha Ridge and how Sequence Stratigraphy Influences Reservoir Development, Osage Oil and Gas Summit, Skiatook, OK
- Controls on the distribution of major oil- and gas-producing intervals in northern Oklahoma, TIPTop/Sinopec Oklahoma City, OK
- History of fracturing to improve oil and gas production rates, Osher Lifetime Learning Institute, Oklahoma City, OK
- 2016 Petrophysics and Tight Rock Characterization for the Application of Improved Stimulation and Production Technology in Shale, Best of RPSEA 10 Years of Research Ultra-Deepwater and Onshore Technology Conference, Galveston, TX
- Depositional Facies and Reservoir Characteristics of the Woodford Shale Section in the Barbour 12-10-7 Core, Canadian County, Oklahoma, Linn Energy, Oklahoma City, OK
- 2015 Influence of Depositional Setting on Reservoir and Mechanical Properties of the Woodford Shale, Oklahoma, AAPG Workshop: Reality-Based Reservoir Development: New Teams, Techniques and Technologies, Oklahoma City, OK
- Evaluating Strategies for Identifying Faults in the Woodford to Minimize their Impact on Drilling, 2nd Annual Woodford Shale Congress, Oklahoma City, OK

Determining the Critical Thickness for a Productive and Deliverable Woodford Reservoir, 2nd Annual Woodford Shale Congress, Oklahoma City, OK

Pressure Architecture of Selected Sedimentary Basins: Implications for Oilfield Brine Disposal in Oklahoma,” Kansas Geological Society, Wichita, KS

Influence of Depositional Setting on Reservoir and Mechanical Properties of the Woodford Shale, Oklahoma,” West Texas Geological Society, Midland, TX

A Comparison of the Provenance, Sediment Supply and Depositional Style of the Pennsylvanian Upper Morrowan and “Cherokee” Intervals, Oklahoma, or “Why are these Dispersal Systems so Different?” North Texas Geological Society, Wichita Falls, TX

2014 Detecting Chert and Clay in the Woodford Shale to Determine how the Formation Will Respond to Fracturing, World Oil Congress Workshop Exploiting the Oil Window in the Woodford Shale, Oklahoma City, OK

Woodford Shale: Correlating Rock Properties in Outcrop and Core with Wireline Log Characteristics, Society of Petrophysicists and Well Log Analysts, Oklahoma City, OK

Woodford Reservoir Characteristics to Assess the Extent to which Oil and Gas Wells Require Different Production Techniques, American Business Conference Woodford Shale Production Optimization Workshop, Oklahoma City, OK

Woodford Shale: Outcrop Rock Properties, Fractures and Wireline Log Characteristics, Oklahoma City Geological Society and Oklahoma Geological Survey Real Deal Expo, Oklahoma City, OK

Woodford Shale: Correlating Rock Properties in Outcrop and Core with Wireline Log Characteristics, AAPG Midcontinent Section Biennial Field Conference, Ardmore, OK

2013 Characteristics of Devonian-Mississippian Strata in the Southern Midcontinent: Lithologic, Biogenic and Geochemical Indicators of Processes Influencing Woodford/Arkansas Novaculite Sedimentation, AAPG Woodford Shale Forum, Oklahoma City, OK

Lithologic Controls of Pressure Distribution in Sedimentary Basins,” Oklahoma City Geological Society, Oklahoma City, Oklahoma

Woodford Shale: Correlating Rock Properties in Outcrop and Core to Wireline Log Characteristics, Oklahoma Geological Survey—Oklahoma Shale Gas Workshop, Norman, OK

Burbank Field: An Example of Using Vintage Data to Improve the Geologic Model and Enhance Modern Success, Society of Independent Professional Earth Scientists, Oklahoma City, OK

Woodford Shale: Correlating Rock Properties in Outcrop and Core to Wireline Log Characteristics, Tulsa Geological Society, Tulsa OK

- Characteristics of Devonian-Mississippian Strata in the Southern Midcontinent, Kansas Next Step Seminar—Connecting for Success, Hays Kansas
- Pressure Architecture of Selected Sedimentary Basins: Implications for Oilfield Brine Disposal in Oklahoma, Osage Minerals Council Oil and Gas Summit, Tulsa, Oklahoma.
- Burbank Field: An Example of Using Vintage Data to Improve the Geologic Model and Enhance Modern Success, Kansas Geological Society, Wichita, Kansas
- Woodford Shale: Correlating Rock Properties in Outcrop and Core to Wireline Log Characteristics, Oklahoma Geological Survey and Oklahoma City Geological Society Real Deal Expo, Oklahoma City, Oklahoma
- 2012 Reservoir Distribution and Characterization of Mid-Continent Carboniferous (Mississippian) Limestones – A Major Unconventional Resource Play in Southern North America, International Seminar on Lithofacies, Paleogeography and Hydrocarbon Accumulations in Carbonates: Chinese University of Petroleum (East China) Qingdao, Qingdao, China
- Lithologic Controls of Pressure Distribution in Sedimentary Basins, Tulsa Geological Society, Tulsa, OK
- Burbank Field: An Example of Using Vintage Data to Improve the Geologic Model and Enhance Modern Success, Osage Mineral Council Summit and Lease Sale, Tulsa, OK
- Lithologic Controls of Pressure Distribution in Sedimentary Basins, Kansas Geological Society, Wichita, KS
- Burbank Field: An Example of Using Vintage Data to Improve the Geologic Model and Enhance Modern Success, Oklahoma City Geological Society Study Group, Oklahoma City, OK
- 2011 A comparison of provenance, sediment supply and sand distribution, upper “Morrow” and “Cherokee” intervals, two distinctly different depositional systems in the southern Midcontinent, Tulsa Geological Society, Tulsa, OK
- Squeezing out a few more Barrel of Oil, A Closer Look at Conventional Trapping in Select Oklahoma Oil Fields, Society of Professional Earth Scientists, Oklahoma City, OK
- Sequence Boundaries and Petroleum Accumulations, Osage Mineral Council Summit and Lease Sale, Tulsa, OK
- Spectral analysis of the Fayetteville Shale and Imo Formation, northern Arkansas, inferences regarding radionuclide concentrations, total organic carbon and shale-gas sources, South-Central Section Meeting of the Geological Society of America, New Orleans, LA
- 2010 Sequence Boundaries and Petroleum Accumulations in Oklahoma, Kansas Geological Society, Wichita KS

- Revisiting Old Areas, Improving Stratigraphic Correlations and Enhancing Exploration Success, Oklahoma Geological Survey and Oklahoma City Geological Society Real Deal Expo, Oklahoma City, OK
- Sequence Boundaries and Petroleum Accumulations in Oklahoma, Tulsa Geological Society, Tulsa, OK
- Revisiting Old Areas, Improving Stratigraphic Correlations and Enhancing Exploration Success, Osage Mineral Council Summit and Prospect Fair, Tulsa, OK
- 2009 Using High-Resolution Stratigraphy and Compartmentalization to help Find Additional Oil and Gas, Oklahoma Geological Survey and Oklahoma City Geological Society Midcontinent Prospect Expo, Oklahoma City, OK
- Preliminary Interpretation of the Pressure Architecture in Parts of Northern Louisiana, southern Arkansas and Eastern Texas, Haynesville and Other Shale Plays Symposium, Gulf Coast Association of Geological Societies Annual Convention, Shreveport, LA
- 2008 Status of the Mineral Industry in Oklahoma, Kansas Geological Society, Wichita, KS
- Revisiting Old Areas: Improving Correlations and Enhancing Exploration Success, Oklahoma Geological Survey and Oklahoma City Geological Society Midcontinent Prospect Expo, Oklahoma City, OK
- Influence of Drainage Basin Attributes on Depositional Style of the Upper 'Morrow' and 'Cherokee' Intervals, Oklahoma, Oklahoma City Geological Society, Oklahoma City, OK
- Status of the Mineral Industry in Oklahoma," Society of Independent Professional Geoscientists, Oklahoma City, OK
- 2007 Influence of Drainage Basin Attributes on Depositional Style of the Upper 'Morrow' and 'Cherokee' Intervals, Oklahoma, Geoscience Seminar, University of Iowa, Iowa City, IA
- Lithologic and Spectrometric Evidence for the Mississippian/Devonian boundary in the Woodford Shale, Geological Society of America Annual Meeting and Exposition, Denver, CO
- Middle and Late Paleozoic Organic-rich Shales from the North American Midcontinent, Geological Society of America Annual Meeting and Exposition, Denver, CO (given for Darwin Boardman)
- 2006 Micro-imaging and Reservoir Characterization: Estimating Rock Properties from Core-calibrated Microresistivity Logs, Tulsa Geological Society, Tulsa, OK
- Application of Petroleum Industry Data to Aquifer Characterization and Water Quality Analysis, Simpson and Arbuckle Aquifers, Arbuckle Mountains, Kansas Geological Society, Wichita, KS
- 2005 Lower Skinner Valley Fill Sandstones, Attractive Exploration Targets on the NE Oklahoma Platform, Society of Professional Earth Scientists, Oklahoma City, OK

- A Comparison of the Provenance, Sediment Supply and Depositional Style of the Pennsylvanian Upper Morrowan and “Cherokee” Intervals, Oklahoma, or “Why are these Sediment Dispersal Systems so Different?” Tulsa Geological Society Study Group, Tulsa, OK
- Application of Oil and Gas Exploration data to the Characterization of the Simpson and Arbuckle Aquifers, Southern Oklahoma, American Institute of Professional Geoscientists, Oklahoma City, OK
- Micro-imaging and Reservoir Characterization: Estimating Rock Properties from Core-calibrated Microresistivity Logs, Oklahoma City Geological Society, Oklahoma City, OK
- 2004 Improved Characterization of Vicksburg Sandstone Reservoirs using Integrated Sequence Stratigraphy, Diagenesis and Petrophysics, SIPES Continuing Education Seminar: “New Reserves from Mature Trends of the Onshore Gulf Coast,” Houston, TX
- Hot Shales and Coals: Keys to Clarifying “Cherokee” Group Stratigraphy, Oklahoma City Geological Society Study Group, Oklahoma City, OK
- Skinner Depositional System, Tulsa Geological Society, Tulsa, OK
- Lower Skinner Valley Fill Sandstones, Attractive Exploration Targets on the NE Oklahoma Platform, Kansas Geological Society, Wichita, KS
- 2003 Lower Skinner Valley Fill Sandstones, Attractive Exploration Targets on the NE Oklahoma Platform, Tulsa Geological Society, Tulsa, OK
- Lower Skinner Valley Fill Sandstones, Attractive Exploration Targets on the NE Oklahoma Platform, Oklahoma City Geological Society, Oklahoma City, OK
- Hot Plays in the Mid-Continent Region, New Dominion Exploration L.L.C., Tulsa, OK
- Hot Plays in the Mid-Continent Region, Mid-Continent Section Meeting, American Association of Petroleum Geologists, Tulsa, OK
- 2002 The Red Fork Sandstone: An Overview of Marine and Deep-marine Reservoirs, Tulsa Geological Society, Tulsa, OK
- 2001 Sequence Stratigraphic Control on Reservoir Quality in Morrowan Sandstone Reservoirs, Northwestern Shelf, Anadarko basin, [Poster] AAPG Mid-Continent Section Meeting, Amarillo, TX
- 2000 Marine Influence on Valley-fill Deposits: Examples from the Cretaceous D Sandstone and Pennsylvanian Upper Morrow Sandstone, Tulsa Geological Society Study Group, Tulsa, OK
- 1998 The Red Fork Sandstone: An Overview of Marine and Deep-marine Reservoirs, Tulsa Geological Society, Tulsa, OK

- Pressure Architecture of the Anadarko basin: Implications for Exploration and Liquid Waste Disposal, Kansas Geological Society, Wichita, KS
- 1997 Commercial Pressure Data: Applications to Compartment Characterization, Gas Research Institute/OIPA Workshop: Compartmentalization of Overpressured Reservoirs in the Anadarko Basin: Implications for Exploration and Development, Oklahoma City, OK
- A Database of Bottom-hole Pressures in the Anadarko Basin, and how you can use it, OIPA Fall Conference, Oklahoma City, OK
- Pressure Architecture of the Anadarko Basin: Implications and Exploration and Production, Tulsa Geological Society, Tulsa, OK
- Three levels of compartmentalization in the Anadarko basin: Implications for exploration and production, Gas Research Institute/ OIPA Workshop: Compartmentalization of Overpressured Reservoirs in the Anadarko Basin: Implications for Exploration and Development, Oklahoma City, OK
- The Morrow chert conglomerate: Reservoir trends and porosity evolution, Gas Research Institute/OIPA Workshop: Compartmentalization of Overpressured Reservoirs in the Anadarko Basin: Implications for Exploration and Development, Oklahoma City, OK
- The deep-marine Red Fork sandstone: submarine fan complex, Gas Research Institute/OIPA Workshop: Compartmentalization of Overpressured Reservoirs in the Anadarko Basin: Implications for Exploration and Development, Oklahoma City, OK
- 1996 Grain-rich reservoir facies, Viola Group, Fitts Pool, Pontotoc County, Oklahoma, Ardmore Geological Society, Ardmore, OK
- Basin-scale compartments and their genesis, American Association of Petroleum Geologists and Engineers Research Symposium: Compartmentalized reservoirs: Their detection, characterization and management, Houston, TX
- Influence of sea-level fluctuation on reservoir quality of the upper Morrowan sandstones, northwestern shelf of the Anadarko basin, Panhandle Geological Society, Amarillo, TX
- 1995 Paleokarstic and karstic features in the Viola Group, Southern Oklahoma, Ardmore Geological Society, Ardmore, OK
- 1994 Anatomy and evolution of the Mega-Compartment Complex (MCC) in the Anadarko basin, American Association of Petroleum Geologists Hedberg Research Conference: Abnormal Pressures in Hydrocarbon Environments, Golden, CO
- 1991 Overpressuring in the Anadarko basin, Oklahoma and Texas, Oklahoma City Geological Society Study Group, Oklahoma City, OK
- 1990 The Mega-compartment complex and nested compartments in the Anadarko basin, Gas Research Institute Technical Conference, State College, PA

OTHER PRESENTATIONS (44)

2020 What is Geology Field Camp and Why is it Held in Cañon City Colorado? Stillwater Gem and Mineral Society, Stillwater, Oklahoma

2019 Evidence of Late Paleozoic lateral-slip faulting, Front Range, Colorado, GSA South-Central, North-Central and Rocky Mountain Joint Section Meeting, Manhattan, KS

2018 Petrographic and Petrophysical Characterization of the Woodford Shale, Anadarko Basin, Oklahoma, Newfield Exploration, on-campus meeting.

2017 Applying a Sequence Stratigraphic Model to Explain Stratigraphic Architecture and the Spatial Distribution of Reservoir Facies in the Mississippi Limestone, AAPG Midcontinent Section Meeting, Oklahoma City, OK

2016 OSU Field Camp, Why Cañon City, Cañon City Geology Club, Cañon City, CO

2015 Composition and Mechanical Properties of the Woodford Shale, Northern Oklahoma, Mid-Continent Section Meeting of American Association of Petroleum Geologists, Tulsa, OK

Influence of Provenance and Sediment Supply on Sandstone Composition and Depositional Styles: Pennsylvanian Upper Morrowan and Cherokee, Oklahoma, Mid-Continent Section Meeting of American Association of Petroleum Geologists, Tulsa, OK

2013 Lithologic, Biogenic and Geochemical Indicators of Water Chemistry During Deposition of the Woodford Shale, KGS-OGS Current #1, Pontotoc County, Oklahoma, Mid-Continent Section Meeting of American Association of Petroleum Geologists, Wichita, KS

Distribution, Thickness, Reservoir Properties and Production Characteristics of the Tonkawa Sandstone in Northwestern Roger Mills and southwestern Ellis Counties, Oklahoma, Mid-Continent Section Meeting of American Association of Petroleum Geologists, Wichita, KS

2011 Spectral Analysis of the Fayetteville Shale and Imo Formation, Northern Arkansas, Inferences regarding Radionuclide Concentrations, Total Organic Carbon and Shale-gas Sources, Mid-Continent Section Meeting of the American Association of Petroleum Geologists, Oklahoma City, OK

Getting their Feet Wet: Engaging Teachers in Field-based hydrogeologic Research to Facilitate Literacy and Integration of Geoscience Concepts into the Classroom, Annual Meeting of the Geological Society of America, Minneapolis, MN

2008 Shelf to Basin Transect of Middle Paleozoic Organic-rich Shales of the North American Mid-continent (Chattanooga, Woodford, Arkansas Novaculite), Annual Meeting of the Geological Society of America, Denver, CO

Spectral Gamma-ray Signatures across the Mississippian/Devonian Boundary in the

- Woodford Shale, Oklahoma, Annual Meeting of the American Association of Petroleum Geologists, San Antonio, TX
- 2007 Lithologic and Spectrometric Evidence for the Mississippian/Devonian Boundary in the Woodford Shale, Annual Meeting of the Geological Society of America, Denver, CO
- Influence of Drainage Basin Attributes on Depositional Style of the Upper “Morrow” and “Cherokee” Intervals, Oklahoma, American Association of Petroleum Geologists Mid-Continent Section Meeting, Wichita, KS
- Micro-imaging and Reservoir Characterization: Estimating Rock Properties from Rock Calibrated Microresistivity Logs, American Association of Petroleum Geologists Mid-Continent Section Meeting, Wichita, KS
- 2006 Naturally Underpressured Compartment and Geologic Sequestration of Carbon Dioxide, American Association of Petroleum Geologists Annual Convention, Houston, TX
- Application of Petroleum Industry Data to the Evaluation of the Arbuckle and Simpson Aquifers, Arbuckle Mountains, Oklahoma, Annual Meeting of the Geological Society of America, Philadelphia, PA
- 2005 Depositional and Diagenetic Controls of Compartmentalization of the Cunningham and Britt sandstones, Southeastern Anadarko Basin, Morrow and Springer in the Southern Midcontinent, Oklahoma Geological Survey and U.S. Department of Energy National Energy Technology Laboratory/National Petroleum Technology Office, Norman, OK
- Sequence Stratigraphic Control on Reservoir Quality in the Upper Morrow Sandstone, Northwestern Shelf, Anadarko basin, Morrow and Springer of the Southern Midcontinent, Oklahoma Geological Survey and U.S. Department of Energy National Energy Technology Laboratory/National Petroleum Technology Office, Norman, OK
- 2004 Pennsylvanian Sandstones: Improved Characterization using a Sequence Stratigraphic Framework, Oklahoma Academy of Science, Edmond, OK
- Reversing the Trend, the Impact of Unconventional Energy Development on Drilling Activity and Production in Oklahoma, Oklahoma Geological Survey and U.S. Department of Energy Conference: Unconventional Energy Resources in the Southern Midcontinent, Oklahoma City, OK
- 2003 Skinner Sandstone: Depositional History, Reservoir Distribution and Sequence Stratigraphy, Mid-Continent Section Meeting, American Association of Petroleum Geologists, Tulsa, OK
- 2002 The Red Fork Sandstone: An Overview of Marine and Deep-marine Reservoirs, Oklahoma Geological Survey and U.S. Department of Energy Workshop: Finding and Producing Cherokee Reservoirs in the Southern Midcontinent, Oklahoma City, OK
- 1999 Compartmentalization of the Overpressured Interval in the Anadarko Basin, Mid-Continent Section Meeting, American Association of Petroleum Geologists, Wichita, KS

- 1998 Sequence Stratigraphy and Stratigraphic Framework of the Upper Morrow, Anadarko Basin, Oklahoma Geological Survey and U.S. Department of Energy Workshop: Pennsylvanian and Permian geology and petroleum in the southern Midcontinent, Norman OK
- 1997 Pressure Architecture of the Anadarko Basin: Implications for Exploration and Production, American Association of Petroleum Geologists Mid-Continent Section meeting, Oklahoma City, OK

The Deep-marine Red Fork Sandstone: Submarine Fan Complex, Oklahoma Geological Survey/U.S. Department of Energy Workshop: Marine Clastics of the Southern Midcontinent, Oklahoma City, OK

- 1996 Grain-rich Reservoir Facies, Viola Group, Fitts Pool, Pontotoc County, Oklahoma, Oklahoma Geology Survey/U.S. Department of Energy Workshop: Platform carbonates of the southern Midcontinent, Norman, OK
- 1995 Influence of Sea Level on Reservoir Quality of the Pennsylvanian Upper Morrow Sandstones: Northern Shelf of the Anadarko Basin, American Association of Petroleum Geologists Mid-Continent Section Meeting, Tulsa, OK

Depositional Cycles in the Council Grove Group, Northern Shelf of the Anadarko Basin, Mid-Continent Reservoir Core Workshop, American Association of Petroleum Geologists Mid-Continent Section Meeting, Tulsa, OK

Depositional Cycles in the Subsurface Permian Council Grove Group of the Hugoton Embayment: Evidence for sea level fluctuation, Geological Society of America North Central/South Central Section meeting, Lincoln, NE

Depositional Cycles in the Subsurface Permian Council Grove Group of the Hugoton Embayment: Evidence for Sea Level Fluctuation, Oklahoma City Geological Society/Oklahoma State University Core Workshop: Sandstone and Carbonate Reservoirs of the Mid-Continent, Oklahoma City, OK

Influence of Sea Level on Reservoir Quality of the Pennsylvanian Upper Morrow Sandstones: Northwestern Shelf of the Anadarko Basin, Oklahoma City Geological Society/Oklahoma State University Core Workshop: Sandstone and Carbonate Reservoirs of the Mid-Continent, Oklahoma City, OK

- 1994 Facies and Karst Development in the Viola Limestone, Oklahoma Geology Survey/U.S. Department of Energy Workshop: Simpson and Viola Groups in the southern Midcontinent, Norman, OK
- 1993 The Upper Morrowan Reservoirs: Complex Fluvio-deltaic Depositional Systems, Oklahoma Geology Survey/U.S. Department of Energy Workshops: Fluvial-Deltaic reservoirs of the southern Midcontinent, Norman, OK

- 1992 Three Levels of Compartmentation within the Overpressured Interval of the Anadarko Basin, American Association of Petroleum Geologists Annual Convention, Calgary, Alberta, Canada.

Fault-associated Reservoir Compartments and Seals in the Anadarko Basin: their Relationship to Basin Evolution, Gas Research Institute/Oklahoma State University: Second Symposium on Deep Basin Compartments and Seals, Stillwater, OK

- 1991 The Upper Morrow Fan-delta Chert Conglomerate in Cheyenne and Reydon fields: Completely Sealed Gas-bearing Compartments, Gas Research Institute/Oklahoma State University: Symposium on Deep Basin Compartments and Seals, Stillwater, OK

The Upper Morrow Fan-delta Chert Conglomerate in Cheyenne and Reydon Fields: Completely Sealed Gas-bearing Compartments, Oklahoma Geology Survey/U.S. Department of Energy Workshop: Petroleum Reservoir Geology in the Southern Midcontinent, Norman, OK

- 1990 Pressure Compartments and Seals in the Anadarko Basin, Oklahoma Geology Survey/U.S. Department of Energy Workshop: Source Rocks, Generation and Migration of Hydrocarbons and other Fluids, Norman, OK

Cyclic Sedimentation of the Cabaniss Group, Anadarko Basin, Oklahoma, Geological Society of America South Central Section Meeting, Stillwater, OK

Influence of Sea Level Fluctuation on D Sandstone Deposition, Denver Basin, Colorado, American Association of Petroleum Geologists Rocky Mountain Section Meeting, Denver, CO

- 1989 Depositional Facies of Hydrocarbon Reservoirs of the Upper Cherokee Group, American Association of Petroleum Geologists Mid-Continent Section Meeting, Oklahoma City, OK

POSTERS PRESENTED (20)

- 2019 Influence of Mississippian paleotopography and paleostructure on distribution of the Pennsylvanian Lower Skinner and Red Fork sandstones in parts of Noble, Pawnee and Osage counties, Oklahoma, Joint section meeting of GSA South-Central, North-Central and Rocky Mountain sections, Manhattan, KS

Influence of structure on Mississippian paleotopography and distribution of the Pennsylvanian Lower Skinner and Red Fork sandstones in parts of Noble, Pawnee and Osage counties, Oklahoma, AAPG Midcontinent Section Meeting, Wichita, KS

- 2017 Lithostratigraphic and chemostratigraphic evaluation of the Woodford Shale in the western Arkoma and eastern Anadarko basins, Oklahoma, AAPG Midcontinent Section Meeting, Oklahoma City, OK

- 2016 Depositional facies and reservoir characteristics of the Woodford Shale section in the Barbour 12-10-7 core, Canadian County, Oklahoma, Linn Energy, Oklahoma City, OK

- 2015 Lithologic and diagenetic controls of reservoir properties, Devonian Frisco Limestone, American Association of Petroleum Geologists Forum, Reality-Based Reservoir Development, Oklahoma Hunton Group, Oklahoma City, OK

- 2011 Sedimentology and petrology of Lower Mississippian carbonate mounds in the Ozark region, North America, American Association of Petroleum Geologists Mid-Continent Section Meeting, Oklahoma City, OK
- Paleozoic sequence boundaries and petroleum accumulations in Oklahoma, American Association of Petroleum Geologists Mid-Continent Section Meeting, Oklahoma City, OK
- Influence of composition on evolution of reservoirs and seals in carbonate mounds of the Frisco Limestone, Hunton Group, Oklahoma, American Association of Petroleum Geologists Mid-Continent Section Meeting, Oklahoma City, OK
- 2008 Shelf to basin transect of middle Paleozoic organic-rich shales of the North American Mid-continent (Chattanooga, Woodford, Arkansas Novaculite), Oklahoma Geological Survey Oklahoma Gas Shale Conference, Oklahoma City, OK
- 2007 Comparative lithology of the Barnett Shale, central Texas and age-equivalent Caney shale in southern Oklahoma, American Association of Petroleum Geologists Annual Meeting, Long Beach, CA
- 2005 Sequence stratigraphic control on reservoir quality in the Upper Morrow Sandstone, northwestern shelf, Anadarko Basin, Morrow and Springer of the Southern Mid-Continent, Oklahoma Geological Survey and U.S. Department of Energy National Energy Technology Laboratory/National Petroleum Technology Office, Oklahoma City, OK
- Implications of complex stratigraphy on the exploration for CBM and conventional reservoirs, Hartshorne Formation, parts of Pittsburg and Hughes Counties, Oklahoma, American Association of Petroleum Geologists Mid-Continent Section Meeting, Oklahoma City, OK
- Influence of accommodation space on Distribution of the Upper and Lower Skinner Sandstone reservoirs in Oklahoma, American Association of Petroleum Geologists Mid-Continent Section Meeting, Oklahoma City, OK
- 2004 Particles in harvester ant mounds as an aid in mapping bedrock geology in arid regions, Oklahoma Academy of Science, Edmond, OK
- 2003 Stratigraphy, timing and rock properties of Lower Skinner valley fill sandstones, Oklahoma Academy of Science, Chickasha, OK
- Naturally underpressured reservoirs: applying the compartment concept to the safe disposal of liquid waste, AAPG Southwest Section Convention, Fort Worth, TX
- Stratigraphy, timing and rock properties of Lower Skinner valley fill sandstones, AAPG Mid-Continent Section Convention, Tulsa, OK
- 2001 Sequence stratigraphic control on reservoir quality in Morrowan sandstone reservoirs, northwestern shelf, Anadarko basin, AAPG Annual Convention, Denver, CO

1994 Diagenetic banding as a sealing mechanism in the overpressured interval of the Anadarko basin, American Association of Petroleum Geologists Hedberg Conference: Abnormal Pressures in Hydrocarbon Environments, Golden, CO

1992 The Woodford Shale: Evolution of a basal seal, Gas Research Institute/Oklahoma State University Symposium on deep basin Compartments and Seals, Stillwater, OK

BOOK REVIEWS

Paleokarst—A Systematic and Regional review, P. Bosak, D. Ford, J. Glazek, and I. Horacek (eds.): Geomorphology 9, p. 345-346.

PAPERS REVIEWED (17)

Journal of African Earth Sciences (6)
Journal of Geophysics and Engineering (2)
American Association of Petroleum Geologists (2)
Journal of Geomorphology (3)
Journal of Petroleum Geoscience (1)
Journal of Basin Research (2)
Oklahoma Geology Notes (1)
Interpretation (1)

PROPOSALS REVIEWED (5)

Deutsche Forschungsgemeinschaft (DFG) (2)
American Chemical Society Petroleum Research Fund (3)

OTHER REVIEWS

2013 Geology Program Review, Physical Science Department, Arkansas Tech University

2005 Quality of Publications, Tenure and Promotion Candidate, Brooklyn College