

# Qilong Fu

## Professional Summary

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## Professional Preparation

### Academic Background

Ph.D. Geology, University of Regina, Saskatchewan, Canada, 2005  
M.Sc. Geology, Institute of Geology, Chinese Academy of Sciences, Beijing, China, 1990  
B.Sc. Geology, Changchun College of Geology (Jilin University), Changchun, China, 1987

### Professional Appointments

Present Position: Research Associate, Bureau of Economic Geology, The University of Texas at Austin (January 2008 - Present).  
Senior Petroleum Geologist (Petrologist), AGAT Laboratories Ltd., Calgary, Canada (May 2007 - December 2007).  
Research Fellow & Sessional Lecturer, Department of Geology, University of Regina, Regina, Saskatchewan, Canada (November 2006 - April 2007).  
Petroleum Geologist, Canada Capital Energy Corporation, Regina, Saskatchewan, Canada (May 2006 - October 2006).  
Research Scientist, Nanjing Institute of Geology & Paleontology, Chinese Academy of Sciences, Nanjing, China (September 1998 - December 1998).  
Research Associate, Nanjing Institute of Geology & Paleontology, Chinese Academy of Sciences, Nanjing, China (September 1993 - August 1998).  
Research Assistant, Nanjing Institute of Geology & Paleontology, Chinese Academy of Sciences, Nanjing, China (September 1990 - August 1993).

### Dissertations

Diagenesis of the Middle Devonian Winnipegosis and Ratner carbonate deposits in southern Saskatchewan, Canada, University of Regina, 2005, 210 p.

## Areas of Expertise

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Carbonate geology  
Petrology of sedimentary rocks  
Reservoir characterization  
Sedimentology and stratigraphy  
Unconventional resources

## Service

### External Committees Participation

Associate Editor, Canadian Journal of Earth Sciences, January 2016-Present

Editorial board, Petroleum Science, Springer, 2015-2019

## Teaching and Advising

### University Courses Taught

Geol. 102 - Environmental Geology: presented to The Northern Teacher Education Program, University of Regina, La Ronge, Saskatchewan, Canada, January-March 2006.

### Field Trips Leadership

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

## Presentations

### Invited Presentations

Wolfcamp platform carbonates and basinal facies in the Midland Basin: presented at SEPM Permian Basin Section monthly luncheon meeting, Midland, Texas, October 20, 2015.

Log-derived thickness and porosity of the Barnett Shale, Fort Worth Basin, Texas: Implications for assessment of gas shale resources: presented to AAPG Geosciences Technology Workshop: International Shale Plays, Houston, Texas, April 28-29, 2015.

### Presentations

Diagenesis and pore networks of the Wolfcamp deep-water sandstones in Mitchell County, Eastern Shelf of the Permian Basin: presented to AAPG, presented at IMAGE 2024 - International Meeting for Applied Geoscience & Energy, Houston, TX, August 26-28, 2024.

Revisiting Mississippian Barnett Shale: Lithological and Geochemical Control on Varied Reservoir Heterogeneity and Fluid Saturation from Late Oil to Dry Gas Window, Fort Worth Basin, Texas: presented to AAPG, presented at AAPG SWS, Wichita Falls, Texas, May 9, 2023.

Lithofacies, Cyclicity, and Reservoir Heterogeneity of Peritidal Carbonates, Clear Fork Formation, in the Northern Eastern Shelf of the Permian Basin, Texas: presented at GeoGulf2023, Houston, Tex., April 23-25, 2023.

Verification of Measured Porosity and Permeability using SEM Micropetrography in the Mississippian Barnett Shale, Wise and Denton Co., Texas: presented to Tight Oil Resource Assessment (TORA), presented at TORA Annual Meeting and Technical Conference, Austin, Texas, November 6-7, 2022.

Water Saturation, Porosity & Permeability, Wettability in the Mississippian Barnett Shale, Wise and Denton Co., TX: presented to BKV STARR, Austin, Tex., August 22, 2022.

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.

Karst Breccias and Pseudobreccias in the Ordovician Carbonates in the Halahatang Area, Tarim Basin, Northwestern China: presented at American Association of Petroleum Geologists Annual Convention and Exhibition (ACE), San Antonio, Tex., May 19-22, 2019.

Wolfcamp Platform carbonates: facies and cyclicity: presented at Southwest Section, American Association of Petroleum Geologists Annual Meeting, Midland, Texas, April 25, 2011.

A synthesis of Wolfcampian Platform carbonates in the Permian Basin: presented at West

Texas: presented at West Texas Geological Society monthly luncheon meeting, Midland, Texas, March 2011.

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

## Activities of a Professional Nature

### Professional Societies

American Association of Petroleum Geologists

International Association of Sedimentologists

SEPM (Society for Sedimentary Geology)

## Funding

### Research Support

Principal Investigator: Formation Mechanism of Paleokarst in the Ordovician Carbonates in Halahatang Area, Tarim Basin, China, CNPC-USA (January 2016-December 2017; \$895,000).

Principal Investigator: Evaporate-associated Carbonate Reservoirs in Sichuan Basin, Research Institute of Petroleum Exploration and Development-China National Petroleum Corporation (RIPED-CNPC) (March 2015-February 2017; \$800,000).

Researcher: Reservoir Characterization of the Caddo Limestone in Stephens County, northern-central Texas, STARR (January 2013-December 2014; \$149,600).

Principal Investigator: Microporosity in the Albian Macae Formation, Pampo field, offshore Brazil, PetroBras (January-October 2011; \$112,795).

## Publications

### Peer Reviewed Journal Articles

Zhao, W., Zeng, H., Xu, Z., Hu, S., and Fu, Q., 2024, Seismic sedimentology of a broad, low-relief carbonate platform: the Cambrian Longwangmiao Formation, Moxi-Gaoshiti area, Sichuan Basin, China: AAPG Bulletin, v. 108, no. 3, p. 547-575, <http://doi.org/10.1306/02242318016>.

Fu, Q., 2023, Facies, cycle stratigraphy, and heterogeneity of the Clear Fork carbonates in the Eastern Shelf of the Permian Basin, Texas: Geoenergy Science and Engineering, v. 227, no. 211895, 15 p., <http://doi.org/10.1016/j.geoen.2023.211895>.

Fu, Q., Peng, J., and Janson, X., 2022, Reply to comment on "Dynamic climatic changes during the late Pennsylvanian icehouse: new insight from high-resolution geochemical records in the Cline Shale, North America" by Peng, Fu and Janson: Gondwana Research, v. 109, p. 166-167, <http://doi.org/10.1016/j.gr.2022.04.022>.

Peng, J., Fu, Q., and Janson, X., 2022, Dynamic climatic changes during the Late Pennsylvanian icehouse: new insight from high-resolution geochemical records in the Cline Shale, North America: Gondwana Research, v. 106, p. 247-258, <http://doi.org/10.1016/j.gr.2022.01.012>.

Schemper, P., Loucks, R. G., and Fu, Q., 2022, Depositional systems, lithofacies, and lithofacies stacking patterns of the Jurassic Smackover Formation (Oxfordian) and Buckner Anhydrite (Kimmeridgian) in Van Zandt County, Texas: a type-cored section from northeast Texas: GCAGS journal, v. 11, p. 16-36.

Zeng, H., Xu, Z., Liu, W., Janson, X., and Fu, Q., 2022, Seismic-informed carbonate shelf-to-basin transition in deeply buried Cambrian strata, Tarim Basin, China: Marine and Petroleum Geology, v. 136, no. 105448, 18 p., <http://doi.org/10.1016/j.marpetgeo.2021.105448>.

Peng, J., Fu, Q., Larson, T. E., and Janson, X., 2021, Trace-elemental and petrographic constraints on the severity of hydrographic restriction in the silled Midland Basin during the late Paleozoic ice age: *Geological Society of America Bulletin*, v. 133, no. 1-2, p. 57-73, <http://doi.org/10.1130/B35336.1>.

Zhang, T., Fu, Q., Sun, X., Hackley, P. C., Ko, L. T., and Shao, D., 2021, Meter-scale lithofacies cycle and controls on variations in oil saturation, Wolfcamp A, Delaware and Midland Basins: *AAPG Bulletin*, v. 105, no. 9, p. 1821-1846, <http://doi.org/10.1306/01152120065>.

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.

Fu, Q., Hu, S., Xu, Z., Zhao, W., Shi, S., and Zeng, H., 2020, Depositional and diagenetic controls on deeply buried Cambrian carbonate reservoirs: Longwangmiao Formation in the Moxi-Gaoshiti area, Sichuan Basin, southwestern China: *Marine and Petroleum Geology*, v. 117, no. 104318, 24 p., <http://doi.org/10.1016/j.marpetgeo.2020.104318>.

Peng, J., Milliken, K. L., and Fu, Q., 2020, Quartz types in the Upper Pennsylvanian organic-rich Cline Shale (Wolfcamp D), Midland Basin, Texas: Implications for silica diagenesis, porosity evolution and rock mechanical properties: *Sedimentology*, v. 67, no. 4, p. 2040-2064, <http://doi.org/10.1111/sed.12694>.

Peng, J., Milliken, K., Fu, Q., Janson, X., and Hamlin, H. S., 2020, Grain assemblages and diagenesis in organic-rich mudrocks, Upper Pennsylvanian Cline shale (Wolfcamp D), Midland Basin, Texas: *AAPG Bulletin*, v. 104, no. 7, p. 1593-1624, <http://doi.org/10.1306/03022018240>.

Fu, Q., 2019, Characterization and discrimination of paleokarst breccias and pseudobreccias in carbonate rocks: insight from Ordovician strata in the northern Tarim Basin, China: *Sedimentary Geology*, v. 382, p. 61-74, <http://doi.org/10.1016/j.sedgeo.2019.01.007>.

Jiang, L., Hu, S., Zhao, W., Xu, Z., Shi, S., Fu, Q., Zeng, H., Liu, W., and Fall, A., 2018, Diagenesis and its impact on a microbially derived carbonate reservoir from the Middle Triassic Leikoupo Formation, Sichuan Basin, China: *AAPG Bulletin*, v. 102, no. 12, p. 2599-2628, <http://doi.org/10.1306/05111817021>.

Zeng, H., Zhao, W., Xu, Z., Fu, Q., Hu, S., Wang, Z., and Li, B., 2018, Carbonate seismic sedimentology: a case study of Cambrian Longwangmiao Formation, Gaoshiti-Moxi area, Sichuan Basin, China: *Petroleum Exploration and Development*, v. 45, no. 5, p. 830-839, [http://doi.org/10.1016/S1876-3804\(18\)30086-7](http://doi.org/10.1016/S1876-3804(18)30086-7).

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>.

Hu, S., Zhao, W., Xu, Z., Zeng, H., Fu, Q., Jiang, L., Shi, S., Wang, Z., and Liu, W., 2017, Applying principal component analysis to seismic attributes for interpretation of evaporite facies: Lower Triassic Jialingjiang Formation, Sichuan Basin, China: *Interpretation*, v. 5, no. 4, p. T461-T475, <http://doi.org/10.1190/INT-2017-0004.1>.

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

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

Fu, Q., Horvath, S., Potter, E., Roberts, F., Tinker, S. W., Ikonnikova, S., Fisher, W., and Yan, J., 2015, Log-derived thickness and porosity of the Barnett Shale, Fort Worth basin, Texas:

implications for assessment of gas shale resources: AAPG Bulletin, v. 99, no. 1, p. 119-141, <http://doi.org/10.1306/07171413018>.

Yan, D., Wang, H., Fu, Q., Chen, Z., He, J., and Gao, Z., 2015, Organic matter accumulation of Late Ordovician sediments in North Guizhou Province, China: sulfur isotope and trace element evidences: Marine and Petroleum Geology, v. 59, p. 348-358, <http://doi.org/10.1016/j.marpetgeo.2014.09.017>.

Yan, D., Wang, H., Fu, Q., Chen, Z., He, J., and Gao, Z., 2015, Geochemical characteristics in the Longmaxi Formation (Early Silurian) of South China: implications for organic matter accumulation: Marine and Petroleum Geology, v. 65, p. 290-301, <http://doi.org/10.1016/j.marpetgeo.2015.04.016>.

Fu, Q., and Qing, H., 2011, Medium and coarsely crystalline dolomites in the Middle Devonian Ratner Formation, southern Saskatchewan, Canada: origin and pore evolution: Carbonates and Evaporites, v. 26, p. 111-125. DOI 10.1007/s13146-010-0038-x.

Fu, Qilong, Qing, H., Bergman, K., and Yang, C., 2008, Dedolomitization and calcite cementation in the Middle Devonian Winniegeosis Formation in Central Saskatchewan, Canada: Sedimentology, v. 55, p. 1623-1642.

Fu, Qilong, and Qing, H., 2007, Neomorphism of the Ratner limestone in south-central Saskatchewan: Canadian Journal of Earth Sciences, v. 44, p. 695-705.

Fu, Qilong, and Bergman, K. M., 2006, Dolomitization of the Middle Devonian Ratner laminate, southern Saskatchewan: Journal of Geological Society, London, v. 163, p. 937-948.

Fu, Qilong, and Bergman, K. M., 2006, Dolomitization of the Middle Devonian Winnipegosis carbonates in south-central Saskatchewan, Canada: Sedimentology, v. 53, p. 825-848.

Fu, Qilong, Qing, H., and Bergman, K. M., 2006, Paleokarst in the Devonian Winnipegosis mud mounds of southern Saskatchewan: Bulletin of Canadian Petroleum Geology, v. 54, p. 22-36.

Fu, Qilong, Qing, H., and Bergman, K. M., 2004, Dolomitized calcrete of the Middle Devonian Winnipegosis mounds, subsurface of south-central Saskatchewan, Canada: Sedimentary Geology, v. 168, p. 49-69.

Liu, Gengwu, Li, Daiyun, Huang, Fei, and Fu, Qilong, 2002, Pliocene flora from the Gantang Formation of Yuanmou Basin, Yunnan Province, SW China and its paleoclimate significance (In Chinese with English abstract): Acta Palaeontologica Sinica, v. 41, no. 1, p. 1-9.

Yuan, Jinliang, Li, Yue, Mu, Xinan, and Fu, Qilong, 2000, Biostratigraphy of trilobites from the Zhangxia Formation (late-Middle Cambrian) in Shandong, China (In Chinese with English abstract): Journal of Stratigraphy, v. 24, no. 2, p. 136-143.

Fu, Qilong, Zhou, Zhicheng, and Peng, Shanchi, 1999, Sedimentology of candidate sections for the Middle-Upper Cambrian boundary stratotype in western Hunan, China (In Chinese with English abstract): Scientia Geologica Sinica, v. 34, no. 2, p. 204-212.

Li, Yue, and Fu, Qilong, 1998, The microfacies of the Ningqiang Formation limestones (Telychian, Silurian) in Ningqiang-Guangyuan area, Shanxi and Sichuan, China (In Chinese with English abstract): Acta Micropalaeontologica Sinica, v. 15, no. 3, p. 294-306.

Li, Yue, Yuan, Jinliang, Fu, Qilong, and Lin, Tianrui, 1998, Environments and carbonate microfacies of the Lower Cambrian in Huainan of Anhui, China (In Chinese with English abstract): Journal of Stratigraphy, v. 22, no. 4, p. 262-268.

Zhou, Zhicheng, and Fu, Qilong, 1997, Sedimentary facies and trace fossils of the Late Cretaceous to Early Tertiary marine strata in the western Tarim Basin, China (In Chinese with English abstract): Acta Paleontologica Sinica, v. 35, Sup., p. 174-181.

Fu, Qilong, 1996, Carbon and oxygen isotope composition with relation to diagenetic environments of the Lower Tertiary carbonates in Kuqa Basin, northwestern China (In Chinese

with English abstract): *Journal of Stratigraphy*, v. 20, p. 265-271.

Fu, Qilong, and Sha, Qingan, 1994, Morphology, sedimentary structures and genesis of coastal sand dunes in Changli, China (In Chinese with English abstract): *Acta Sedimentia Sinica*, v. 12, no. 1, p. 98-105.

Fu, Qilong, and Sha, Qingan, 1993, Comparative study on aeolian dune and beach sediments from Changli Coast, China (In Chinese with English abstract): *Scientia Geologica Sinica*, v. 28, no. 1, p. 52-60.

### Peer Reviewed Book Chapters

Fu, Q., Baumgardner, R. W., Jr., and Hamlin, H. S., 2020, Early Permian (Wolfcampian) succession in the Permian Basin: icehouse platform, slope carbonates, and basinal mudrocks, in Ruppel, S. C., ed., *Anatomy of a Paleozoic basin: the Permian Basin, USA*: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations 285; AAPG Memoir 118, v. 2, p. 185-226, <http://doi.org/0.23867/RI0285-1>.

### Non Peer Reviewed Journal Articles

Browning, J., Tinker, S. W., Ikonnikova, S., Gülen, G., Potter, E., Fu, Q., Smye, K. G., Horvath, S., Patzek, T., Male, F., Roberts, F., and Grote, C., 2014, Study develops Fayetteville Shale reserves, production forecast: *Oil & Gas Journal*, v. 112, no. 1, p. 64-73.

Browning, J., Tinker, S. W., Ikonnikova, Svetlana, Gülen, Gürçan, Potter, E., Fu, Qilong, Horvath, S. C., Patzek, T., Male, F., Fisher, W. L., Roberts, C., and Medlock, K., 2013, Barnett study determines full-field reserves, production forecast: *Oil and Gas Journal*, v. 111, no. 11, p. 88-95.

Fu, Qilong, Qing, H., and Bergman, K. M., 2005, Diagenetic history of the Middle Devonian Winnipegosis Formation, south-central Saskatchewan, in *Summary of Investigations 2005(1)*, Saskatchewan Geological Survey Miscellaneous Report (A-7), p. 1-11.

Fu, Qilong, Qing, H., and Bergman, K. M., 2002, Petrography of diagenetic anhydrite in the Middle Devonian Winnipegosis and Ratner formations, south-central Saskatchewan, in *Summary of Investigations 2002*, vol. 1, Saskatchewan Geological Survey Miscellaneous Report, p. 15-23.

### Guidebooks

Wright, Wayne, El-Azzi, J. A., Ruppel, S. C., Nance, H. S., and Fu, Qilong, 2010, Facies, facies-stacking, and architecture of the Pennsylvanian and Lower Permian, Hueco Mountains, Texas: 1-D and 2-D analogs for subsurface reservoir successions: *The University of Texas at Austin, Bureau of Economic Geology Field Trip Guidebook*, 103 p.

### Contract Reports

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.

Fu, Q., Lucia, F. J., Wright, W., and Schuab, F., 2011, *Petrophysics and origin of microporosity in the Macae Formation, Pampo field, offshore Brazil: final report prepared for Petrobras*, 88 p.

Fu, Qilong, 2007, *Petrographic study of eleven carbonate samples from Grosmont Formation at Husky Saleski Well 1AA/11-11-087-19W4M location*: , 31 p.

Fu, Qilong, 2007, *Petrographic study of four sandstone samples from Keg River and Granite*

Wash formations at Well 02/04-01-088-08W5M location: , 28 p.

Fu, Qilong, 2007, Petrographic study of six sandstone samples from the Gilwood Member (Watt Mountain Formation) at 02/16-36-073-21W5M location: , 25 p.

Fu, Qilong, 2007, Petrographic study of thirteen Devonian limestone samples from the Well 102/06-07-085-06W5M location: , 29 p.

Fu, Qilong, 2007, Petrographic study of twenty-three outcrop samples from Wabamun Group at the Blackstone Gap and Trout Creek locations: , 48 p.

## Course Notes

Ruppel, S. C., Wright, W., Fu, Q., Nance, H. S., Hamlin, H. S., Kerans, C., and El-Azzi, J. A., 2010, Permian Basin Geological Synthesis Project Sponsor's Meeting and Field Trip presentation notes: The University of Texas at Austin, Bureau of Economic Geology, variously paginated.

## 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., Schuba, 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.

## Workshop Workbooks

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.

Ruppel, S. C., Loucks, R. G., Hamlin, H. S., Nance, H. S., Gale, Julia, Fu, Qilong, Ali, Walaa, and Helbert, Dana, 2009, Applications of cores to Permian Basin reservoir characterization: The University of Texas at Austin, Bureau of Economic Geology, 34 p.

## Published Abstracts

Fu, Q., 2023, Lithofacies, Cyclicity, and Reservoir Heterogeneity of Peritidal Carbonates, Clear Fork Formation, in the Northern Eastern Shelf of the Permian Basin, Texas (abs.): AAPG Datapages/Search and Discovery Article, GeoGulf 2023, Houston, TX, 23-25 April, [https://www.searchanddiscovery.com/pdfz/abstracts/pdf/2023/91205geogulf/abstracts/ndx\\_fu.pdf](https://www.searchanddiscovery.com/pdfz/abstracts/pdf/2023/91205geogulf/abstracts/ndx_fu.pdf).html.

Zeng, H., Xu, Z., Liu, W., Fu, Q., and Janson, X., 2020, Seismic-informed carbonate shelf-to-basin transition in Cambrian, Tarim Basin, China (ext. abs.): SEG Technical Program Expanded Abstracts 2020, p. 1269-1273, <http://doi.org/10.1190/segam2020-3424378.1>.

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