

Curriculum vitae

JAY M. GREGG

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EDUCATION

PH.D. MICHIGAN STATE UNIVERSITY, 1978-1982, major: Geology (Sedimentary Petrology)

Dissertation: The origin of xenotopic dolomite texture

Advisor: Dr. Duncan F. Sibley, Professor Emeritus of Geological Sciences

M.S. OKLAHOMA STATE UNIVERSITY, 1974-1976, major: Geology (Stratigraphy)

Thesis: Coal Geology of Parts of the Inola, Chouteau N. W., Catoosa S. E., and Neodesha quadrangles, southeastern Rodgers and northern Wagoner counties, Oklahoma

Advisor: Dr. Gary F. Stewart, Professor Emeritus of Geology

B.S. BOWLING GREEN STATE UNIVERSITY, 1970-1974, majors: Geology & Biology Senior

Thesis: Crystallographic studies on the siliceous frustules of fresh water diatoms

Advisor: Dr. Lester J. Walters, Associate Professor of Geology (d. 2010)

EMPLOYMENT

OKLAHOMA STATE UNIVERSITY, BOONE PICKENS SCHOOL OF GEOLOGY, Stillwater OK, 74078. Professor Emeritus of Geology, Feb. 2021 to present. V. Brown Monnett Chair of Petroleum Geology, and Professor, Sept. 2005 to Feb. 2021. Head of the School of Geology, Sept. 2005 to July 2013. Duties as a faculty member include teaching undergraduate courses in historical geology, and teaching graduate courses and conducting research in sedimentary petrology and basin evolution. Duties as head of the School included overseeing departmental curriculum and programs, supervision of faculty and staff, assignment of departmental facilities and space, recruitment of new faculty and students, overseeing departmental budget, and soliciting alumni and industry support for the School and University. Successes while Head of the Boone Pickens School of Geology include: establishing a Ph.D. program in Geology, increasing the number of faculty lines from eleven to fifteen, doubling enrollment to over 200 undergraduate and graduate students, increasing the diversity of the School, more than doubling research expenditures in the School (to more than \$1 million per year), establishing an alumni and industry Advisory Board, and increasing industry and alumni donations to the School. Between 2005 and 2013 philanthropic donations to the Boone Pickens School of Geology (including cash, pledges, and matching money) exceeded \$25 million. Reporting to: Dr. Camelia Knap, Head, Boone Pickens School of Geology.

ROYAL DUTCH SHELL, SHELL GLOBAL SOLUTIONS INTERNATIONAL, Kessler Park 1, PO Box 60, 2280AB Rijswijk, Nederland. Senior Carbonate Geologist, July 2012 to August 2013. This position was held during a yearlong sabbatical leave. Duties included conducting basic research on carbonate petroleum reservoirs globally and to assist operations groups, when possible, with technical problems related to the exploration for and the production of oil and gas. Accomplishments included contributing to a major project identifying, describing, and cataloging dolomite petroleum reservoirs worldwide. Supervisor: Christopher Nicholls, Team Leader, Carbonate Research.

UNIVERSITY OF MISSOURI-ROLLA, DEPARTMENT OF GEOLOGICAL SCIENCES AND ENGINEERING, (in 2008 the university was renamed *Missouri University of Science and Technology*), Rolla, MO 65409. Chair of Department July 2004 to August 2005, Gulf Oil Foundation Professor from September 2001 to September 2005, Chair of the Department of Geology & Geophysics, September 2000 to July 2004, Professor, Sept. 1995, Tenured, September 1992, Associate Professor, Sept. 1991, Assistant Professor, September 1988. Department Chair duties included overseeing departmental curriculum and programs, supervision of faculty and staff, assignment of departmental facilities and staff, assignment of

EMPLOYMENT (Continued)

departmental facilities and space, recruitment of new faculty and students, overseeing the departmental budget, soliciting alumni and industry support. Successes while Chair included: increasing research expenditures to more than \$1 million per year, increasing graduate enrollment, especially in the Ph.D. program, increasing by 50% the level of alumni donations to the department, maintaining a high undergraduate enrollment (60+ students), and facilitating the merger of the Department of Geology & Geophysics with Geological & Petroleum Engineering in 2004. Faculty duties included teaching courses in introductory geology, sedimentology, and stratigraphy, as well as teaching graduate courses and conducting research in sedimentary petrology and basin evolution. Reporting to: Dr. Lee Saperstein, Dean, School of Mines and Metallurgy, 2000-2004; Dr. Mariesa L. Crow, Interim Dean, School of Materials, Energy & Earth Resources 2004-2005.

AN COLÁISTE OLLSCOILE, BAILE ÁTHA CLAITH, ÉRIE, SCOIL NA NEOLAÍOCHTAÍ GEOLAÍOCHTA, (University College Dublin, Ireland, School of Geological Sciences), Fulbright Scholar and Visiting Professor, August 1995 to July 1996. This position was held during a yearlong sabbatical leave. Duties included presenting a lecture and practical course to undergraduate and graduate students in carbonate sedimentology, developing and teaching a short course on dolomite and dolomitization for industry, and conducting research on the Carboniferous age carbonates and ore deposits of the Irish Midlands. Reporting to: Dr. Michael J. Kennedy, Professor and Chair of Geology.

WESTINGHOUSE HANFORD COMPANY, Principal Scientist, Division of Civilian Waste Management, Richland, WA, August 1987 to April 1988. Duties included studies on the suitability of the Hanford area for the high level nuclear waste repository. This involved laboratory and theoretical research on the long-term response of geological packaging material (e.g. smectite clay minerals) to the deep subsurface diagenetic conditions existing in the repository environment. Supervisor: George T. Harper, Manager, Engineering and Design.

St. JOE MINERALS CORPORATION, GEOLOGICAL RESEARCH LABORATORY, Senior Research Geologist, Viburnum, MO, August 1982 to November 1986, Tucson, Az. November 1986 to July 1987. Duties included basic and applied research on the sedimentology, petrology, paleohydrology, and geochemistry of sedimentary rocks hosting base metal ore deposits, coordinating this work with research conducted at universities, assist with problems in exploration and production, budget planning, and supervising technical personnel. Supervisors: Paul E. Gerdemann, Vice President of Exploration 1982 to 1986, Richard Bean, research manager 1986 to 1987.

SUN EXPLORATION AND PRODUCTION COMPANY, Associate Production Geologist, Midland, TX. June 1976 to September 1978. Duties included evaluation of petroleum reservoirs (mainly carbonate) with regard to primary and secondary recovery, designing reservoir development programs, well-site geology, and exploration for new oil and gas in productive areas. Supervisor: Donald W. Simmons, Manager of Geology.

TEACHING RELATED ACTIVITY**Courses Taught**

<i>Course Name</i>	<i>Level</i>	<i>Ave. Num. Students</i>
Physical Geology (1988-2005)	1 st year	30
Historical Geology (Evolution of the Earth) (1989-92, 2006-20)	1 st year	30
Petrology (all 3 rock groups) (1992-98)	2 nd /3 rd year	38
Stratigraphy and Sedimentation (1996-2005)	2 nd /3 rd year	32
Invertebrate Paleontology (1988-91)	3 rd /4 th year	7
Basin Evolution (1990-2009)	Graduate	12
Carbonate petrology/sedimentology (1989-2011)	Graduate	12
Carbonate Petrology and Geochemistry (2013-2017)	Advanced graduate	10

TEACHING RELATED ACTIVITY (Continued)**Courses Team Taught with Other Faculty**

<i>Course Name</i>	<i>Level</i>	<i>Ave. Num. Students</i>
Physical Geology (1988-2005)	1 st year	30
Stratigraphy and Sedimentation Laboratory	2 nd /3 rd year	18
Mineralogy & Petrology for Engineers (1998-1999)	3 rd /4 th year	48
Geological Field Studies (2002, 2004)	All levels	15

Student evaluations of courses have always been above the University average.

Graduate Research

Have supervised two Postdoctoral associates (1996-1998, 2016-2018), six Ph.D. students (dissertations completed 7/95, 12/99, 10/01, 12/03, 12/16, 7/19), co-supervised two Ph.D. students (dissertations completed 9/01, 8/03), and 15 M.S. students.

Undergraduate Research

Have directed nine undergraduate student research projects.

University Extension and Distance Learning

1996, Developed independent study course in introductory Physical Geology (4 credit hours) for the Center for Independent Study. This included writing the 237-page study guide.

Developed an on-line version of Historical Geology (*Evolution of the Earth*) Oklahoma State University.

SELECTED UNIVERSITY SERVICE**Oklahoma State University**

Arts & Sciences Faculty Council, 2015 to 2018.

Space, Undergraduate, and Graduate Committees, Boone Pickens School of Geology, 2013-present.

Search committee (Paleontology & Geophysics), Boone Pickens School of Geology, 2015-present.

Search committee (Hydrology & Geochemistry), Boone Pickens School of Geology, 2013-14.

Council of Heads & Chairs, College of Arts & Sciences, Oklahoma State University, 2005-12.

Research Building Planning Committee 2005 to 2007.

University of Missouri-Rolla

Mines and Metallurgy Committee of Chairs, 2000 to 2005.

Chancellors Council, 2000-2005.

School Policy Committee, School of Mines and Metallurgy, 2000-2005.

University of Missouri Research Board 1998-2000 and 2000-2002 terms.

Missouri-Dublin exchange program Committee, Chair, 1997 to 2002.

Search Committee, Dean of Enrollment Management, 2000-2001.

Curriculum Task Force, 1993-1995.

Academic Council, 1992-95, 1998-00 Terms.

Academic Council Tenure Committee, 1993-1995 and 1997-1999.

Admissions and Academic Standards Committee, 1993-1995.

Staff Council Committee on Child Care, 1992-1993.

Committee on Library & Learning Resources, 1991-1995, 1996-1998.

Search Committee, Dean of School of Mines and Metallurgy, 1992.

Search Committee, Director of UMR Library and Learning Resource Center, 1992.

Campus Committee on Faculty Conduct, 1989-1990 Term.

Jackling Institute, faculty lecture, 1990 through 2001; Jackling II faculty advisor for high school student research, August, 1990, 1991, 1993, 1997, & 2001.

Recruiting Committee, Department of Geology and Geophysics, August, 1988 to 2005.

Freshman Advisor, Department of Geology and Geophysics, August, 1988 to May 2000,

PROFESSIONAL ACTIVITIES**Affiliations**

Geological Society of America, SEPM (Society for Sedimentary Geology), International Association of Sedimentologists, American Association of Petroleum Geologists, Oklahoma City Geological Society, American Association for the Advancement of Science, Sigma Xi, The Fulbright Association.

Awards, Honors, Honorary Positions

Fellow of the Geological Society of America, elected May 2003.

Honorary Research Associate, Faculty of Science, Ollscoile na hÉireann, Baile Átha Cliath (National University of Ireland, University College Dublin) 2001-2004.

Fulbright Scholarship, The United States Information Agency (Department of State), for lecturing and research at University College Dublin, Ireland, September 1995 to June, 1996.

Faculty Excellence Awards, (for teaching, research, and service), University of Missouri-Rolla, academic years 1991-1992 and 1992-93.

American Men and Women of Science, 34th Ed., Biographee

Professionally Related Community Service

University of Missouri-Rolla Speakers Bureau, Summer 2000 to 2005.

Faculty Advisor, UMR Wesley Foundation (Student Organization), Fall 1988 to 2005.

Presentation to Rolla Rotary, Education in Ireland: Past and Present, June 6, 1997 and again on October 13, 1997.

Boy Scouts of America, Merit Badge Counselor for Environmental Science, Geology, and Oceanography, 1993-1995.

Geology Class for Cub Scout Pack 83, Rolla, January, 1993.

Geology Consultant (Instructor and field trip leader), Girl Scouts of America, Rolla Neighborhood Day Camp, June, 1990.

Middle School & High School Presentations and Field Trips, in Rolla area, 1993 to 2005.

Numerous Elementary School Presentations, 1989 to present.

Second Vice Chair, Geological Society of America, Sedimentology Section, 1993-1994.

Short Courses Instructed, Conferences Chaired, and Field Trips Lead

Short Course, Dolomite and Dolomitization: American Association of Petroleum Geologists, with H. G. Machel, AAPG Annual Convention, April 2014, Educational Conference, November, 2014, November 2015, and May 2018.

Field Trip, Oklahoma City Geological Society: Cambro-Ordovician facies of the St. Francis Mountains of Missouri, including an underground tour of a working Mississippi Valley-type lead/zinc mine in the Viburnum Trend, April 30-May 2, 2010.

Short Course, Dolomite and Dolomitization: Canadian Association for Petroleum Geology, with H. G. Machel, Calgary Canada, May 2008 and May 2009.

Short Course, Dolomite and Dolomitization: With an Emphasis on Epigenetic (Hydrothermal) Processes, Chesapeake Energy, Charleston, West Virginia, December 2007.

AGU Workshops for Heads and Chairs, (one of several presenters), American Geophysical Union, December 2006 and 2007.

Short Course, Dolomite: Mineralogy, Sedimentology, and Petrology, Irish Association for Economic Geology, University College Dublin, Ireland, June 1996.

Short Course, Dolomite Petrology, Amoco, Houston, developed with Duncan Sibley, presented by Sibley in September 1995.

Short Course, Cathodoluminescence Microscopy and Spectroscopy, Society for Sedimentary Geology (SEPM), Denver, CO., June 1994

Convener, Society for Sedimentary Geology (SEPM), with I. P. Montañez and K. L. Shelton, Research Conference on Basin-Wide Diagenetic Patterns, Lake Ozark, MO, May 1994.

Short Courses Instructed, Conferences Chaired, and Field Trips Lead (Continued)

Convener, International Symposium on the Bonneterre Formation (Cambrian), southeastern Missouri, stratigraphy, sedimentology, diagenesis, geochemistry, and economic geology, Rolla, MO, April 1986.
Field Trip Leader: A Trip Back in Time in the St. Francois Mts. North Central Section G.S.A. Annual Meeting, St. Louis, MO, April 2004. International Field Conference on Carbonate-Hosted Lead-Zinc Deposits, Society of Economic Geologists, St. Louis, MO, June 1995.
Viburnum Trend Pb-Zn Deposits and Ozark Region Carbonate Depositional Environments, North Central Section G.S.A. Annual Meeting, Rolla, MO, March 1993.
Field Trip, Mississippi Valley-type Mineralization of the Viburnum Trend, GSA-SEG, November 1989.
Field Trip, Upper Cambrian of Southeastern Missouri, SEPM Midcontinent Section, October 1989.

Committees, Editorial Activity, and Offices Held

Editorial Board, *Facies*, 2013 to present.
Co-Editor AAPG memoir 122, Mississippian Reservoirs of the Midcontinent.
Committee of Department Heads and Chairs, American Geophysical Union, 2006-2011 term.
Chair of *Ad Hoc* Committee on Global Climate Change, American Association of Petroleum Geologists, 2006-2007.
Chair of *Ad Hoc* Congressional Climate White Paper Committee, American Association of Petroleum Geologists, 2006.
Editorial Board, Society of Economic Geologists 75th Anniversary Volume, 1994-1996.
Co-Editor SEPM Special Publication No. 57, Basin-wide diagenetic patterns: integrated petrological, geochemical, and hydrologic considerations, 1995-97.
Sigma Xi, UMR Chapter, President, 1999-2000 term. Sigma Xi, Treasurer, UMR Chapter, 1993- 1994 term, Vice-Chair, 1994-1995 term, Chair *in absentia*, 1995-1996.
Co-Editor of special issue of *Carbonates and Evaporites* on Platform Carbonates and Mississippi Valley-type Mineralization, v. 4 no. 2, 1989.

Selected Consulting Activities

Mid-Con Energy Operating, Jan. – Aug. 2015, Hunton reservoir petrography, Oklahoma.
Chesapeake Energy Corporation, December 2007, Short course and consultation on “Dolomite Petroleum Reservoirs” for geological personnel in Huntington, West Virginia.
Armstrong Teasdale LLP Attorneys, 2001-02, Teracorp Industries, Inc. vs. Fabricated Products, Inc. Consultation and expert testimony in the matter of the use of radioactive lead originating from the Pitinga Tin Mine, Brazil in the manufacture of medical X-ray safety shielding.
LaFarge, 1998-2001, Suitability of Middle Paleozoic carbonate rocks for cement manufacture. Polarized light petrography, X-ray diffraction, geochemical analysis.
RTZ (Rio Tinto Group), 1995, Petrology and geochemistry of a carbonate hosted Zn-Pb deposit, Bolivia. Polarized light and CL petrography, and fluid inclusion studies.
Amoco Production Company, 1994-95, Developed short course on dolomite textures with D. F Sibley and performed petrographic evaluation of the Smackover dolomite, eastern Texas. This work included polarized light and cathodoluminescence petrography.
Ralston Purina Company, 1994, Evaluation of absorbent clays in Missouri, Tennessee, South Carolina, and southern California. Field observations, and evaluation of third party laboratory analysis.

Other Selected Professional Activities

IODP Expedition 307, Porcupine Basin Carbonate Mounds, Dublin Ireland to Ponta Delgada, Sao Miguel Island, Azores, March 2 to April 5 2005, shipboard scientific party.
Keynote Address, Conference on the Geometry and Petrogenesis of Dolomite Hydrocarbon Reservoirs, The Geological Society, London, U.K., December 2002.
Visiting Professor, University of the Western Cape, Cape Town, S. Africa, May to June 1998.
Registered Geologist, State of Missouri, December 1995 to present.

Other Selected Professional Activities (Continued)

Gordon Conference, Inorganic Geochemistry of Hydrothermal Ore Deposits, Invited presenter, Tilton, NH, August 1993.

Invited Speaker, 1992 National Conference on Earth Sciences (Canada) Short Course, Dolomite— from process and models to porosity and reservoirs, September 1992.

Session Chair for numerous GSA, SEPM, AAPG and other professional meetings 1984 to present.

Peer Reviewer for numerous journals, special publications, and funding agencies 1982 to present.

BIBLIOGRAPHY**Peer Reviewed Archival Journal Articles and Book Chapters**

¹Denotes corresponding author when other than first author. ²Denotes student author.

Gregg, J. M.², Goldstein, S. T.², and Walters, L. J.¹, 1977, Occurrence of strained quartz in the siliceous frustules of cultured fresh water diatoms: *Journal of Sedimentary Petrology*, v. 47, p. 1623-1629.

Gregg, J. M.², and Sibley, D. F., 1984, Epigenetic dolomitization and the origin of xenotopic dolomite texture: *Journal of Sedimentary Petrology*, v. 54, p. 908-931. (Nominated for Outstanding Paper Award).

Gregg, J. M., 1985, Regional epigenetic dolomitization in the Bonneterre Dolomite (Cambrian), southeastern Missouri: *Geology*, v. 13, p. 503-506.

Lloyd, R. V., Lumsden, D. N., and **Gregg, J. M.**, 1985, Relationship between paleotemperatures of metamorphic dolomites and ESR determined Mn(II) partitioning ratios: *Geochimica et Cosmochimica Acta*, v. 49, p. 2565-2568.

Gregg, J. M., and Hagni, R. D., 1987, Irregular cathodoluminescent banding in late dolomite cements: evidence for complex faceting and metalliferous brines: *Geological Society of America Bulletin*, v. 98, p. 86-91.

Mazzullo, S. J., Reid, A. M., and **Gregg, J. M.**, 1987, Dolomitization of Holocene supratidal deposits, Ambergris Cay, Belize: *Geological Society of America Bulletin*, v. 98, p. 224-231.

Sibley, D. F., and **Gregg, J. M.**, 1987, Classification of dolomite rock textures: *Journal of Sedimentary Petrology*, v. 57, p. 967-975.

Gregg, J. M., 1988, Origins of dolomite in the offshore facies of the Bonneterre Formation (Cambrian), Missouri, in Shukla, V., and Baker, P. A., eds., *Sedimentology and Geochemistry of Dolostones*: SEPM Special Publication No. 43, p. 67-83.

Haefner, R. J.², Mancuso, J. J.¹, Frizado, J. P., Shelton, K. L., and **Gregg, J. M.**, 1988, Crystallization temperatures and stable isotope compositions of Mississippi Valley-type carbonates and sulfides of the Trenton Limestone, Wyandot County, Ohio: *Economic Geology*, v. 83, p. 1061-1069.

Gregg, J. M., and Shelton, K. L., 1989, Minor and trace element distributions in the Bonneterre Dolomite (Cambrian), southeast Missouri: Evidence for possible multiple basin fluid sources and pathways during lead-zinc mineralization: *Geological Society of America Bulletin*, v. 101, p. 221-230.

Mazzullo, S. J., and **Gregg, J. M.**, 1989, Mississippi Valley-type sulfide mineralization and relationships to carbonate diagenesis: introductory remarks: *Carbonates and Evaporites*, v. 4, p. 131-135.

Gregg, J. M., and Shelton, K. L., 1989, Geochemical and petrographic evidence for fluid sources and compositions during southeast Missouri lead-zinc mineralization: A review: *Carbonates and Evaporites*, v. 4, p. 153-175.

Voss, R. L.², Hagni, R.D., and **Gregg, J. M.**, 1989, Sequential deposition of zoned dolomite and its relationship to sulfide mineral paragenetic sequence in the Viburnum Trend, southeast Missouri: *Carbonates and Evaporites*, v. 4, p. 195-209.

Gregg, J. M., and Shelton, K.L., 1990, Dolomitization and dolomite neomorphism in the back reef facies of the Bonneterre and Davis Formations (Cambrian), southeast Missouri: *Journal of Sedimentary Petrology*, v. 60, p. 549-562.

Gregg, J. M., and Karakus, M.², 1991, A technique for Successive cathodoluminescence and reflected light petrography: *Journal of Sedimentary Petrology*, v. 61, no. 4, 613-614.

Peer Reviewed Archival Journal Articles and Book Chapters (Continued)

¹Denotes corresponding author when other than first author. ²Denotes student author.

- Tian, S. and **Gregg, J. M.**¹, 1991, Application of multivariate statistical analysis to identification and classification of dolomite: Carbonates and Evaporites, v. 6, no. 1, p. 75-81.
- Tian, S. and **Gregg, J.M.**, 1991, Application of multivariate statistical analysis to classification and identification of dolomite in the facies of the Bonneterre Formation: Journal of the Jiangnan Petroleum Institute, v. 13, no. 1, p. 11-16.
- Gregg, J.M.**, Howard, S.A., and Mazzullo, S.J., 1992, Early diagenetic recrystallization of Holocene (<3000 year old) peritidal dolomites, Ambergris Cay, Belize: Sedimentology, v. 39, no. 1, p. 143-160.
- Gregg, J.M.**, Shelton, K.L., and Bauer, R.M.², 1992, Geochemical and fluid inclusion evidence for regional alteration of Upper Cambrian carbonates by basinal fluids in southern Missouri, in Johnson, K.S., and Cardott, B.J., ed., Source Rocks in the Southern Midcontinent: Oklahoma Geological Survey, Circular 93, p. 313-320.
- Shelton, K.L., Bauer, R.M.², and **Gregg, J.M.**, 1992, Fluid inclusion studies on regionally extensive epigenetic dolomites in southeastern Missouri: Geological Society of America Bulletin, v. 104, no. 4, p. 675-683.
- Gregg, J. M.**, Laudon, P. R.², Woody, R. E.², and Shelton, K. L., 1993, Porosity evolution of the Bonneterre Dolomite (Cambrian) southeastern Missouri, U.S.A.: Sedimentology, v. 40, p. 1153-1169.
- Sibley, D. F., **Gregg, J. M.**, Brown, R. G.², and Laudon, P. R.², 1993, Dolomite crystal size distribution, in Rezak, R. and Lavoie, D. eds., Carbonate microfabrics: New York, Springer-Verlag, p. 195-204.
- Woody, R. E.², **Gregg, J. M.**¹, and Koederitz, L. F., 1996, Effect of texture on petrophysical properties of Dolomite: Evidence from the Cambro-Ordovician of southeastern Missouri: American Association of Petroleum Geologists Bulletin, v. 80, no. 1, p. 119-132.
- He, Z.², **Gregg, J. M.**, Shelton, K. L., and Palmer, J. R., 1997, Sedimentary facies control of fluid flow and mineralization in Cambro-Ordovician strata, southern Missouri, in Montañez, I. P., Gregg, J. M., and Shelton, K. L., eds., Basin-wide diagenetic patterns: integrated petrological, geochemical, and hydrologic considerations: SEPM Special Publication No. 57, 81-99.
- Oboh-Ikuenobe, F. E., Yepes, O.², and Gregg, J. M., 1998, 25. Palynostratigraphy, palynofacies, and thermal maturation of Cretaceous-Paleocene sediments from the Côte D'Ivoire-Ghana transform margin, in Mascle, J., Lohmann, G. P., and Moullade, M., eds., Proceedings of the Ocean Drilling Program, Scientific Results: v. 159, p. 277-318.
- Moullade, M., Watkins, D.K., Oboh-Ikuenobe, F.E., Bellier, J.-P., Masure, E., Holbourn, A.E.L., Erbacher, J., Kuhnt, W., Pletsch, T., Kaminski, M.A., Rauscher, R., Shafik, S., Yepes, O., Dejax, J., **Gregg, J.M.**, Shin, I.C., and Schuler, M., 1998, Mesozoic biostratigraphic, paleoenvironmental, and paleobiogeographic synthesis, equatorial Atlantic: Proceedings of the Ocean Drilling Program, Scientific Results, v. 159, p. 481-490.
- Yoo, C. M., **Gregg, J. M.**¹, and Shelton, K. L., 2000, Dolomitization and dolomite neomorphism: Trenton and Black River Limestones (Middle Ordovician) northern Indiana, U.S.A.: Journal of Sedimentary Research, v. 70, p. 265-274.
- Wright, W. R.², Johnson, A. W.², Shelton, K. L., Somerville, I. D., and **Gregg, J. M.**, 2000, Fluid Migration and rock interactions during dolomitisation of the Dinantian Irish Midlands and Dublin Basin: Journal of Geochemical Exploration, v. 69-70, 159-164.
- Keller, T. J.², **Gregg, J. M.**¹, and Shelton, K. L., 2000, Fluid migration and associated diagenesis in the greater Reelfoot Rift region, Midcontinent, U.S.A.: Geological Society of America Bulletin, v. 112, 1680-1693.
- Gregg, J. M.**, Shelton, K. L., Johnson, A. W.², Somerville, I. D., and Wright, W. R.², 2001, Dolomitization of the Waulsortian Limestone (Lower Carboniferous) Irish Midlands: Sedimentology, v. 48, p. 745-766.
- Santi, P. M., and **Gregg, J. M.**, 2002, Engineering stratigraphic columns: Environmental and Engineering Geoscience, v. VIII, n. 3, p. 237-241.

Peer Reviewed Archival Journal Articles and Book Chapters (Continued)

¹Denotes corresponding author when other than first author. ²Denotes student author.

- Overstreet, R. B.², Oboh-Ikuenobe, F. E.¹, **Gregg, J. M.**, 2002, Sequence stratigraphy and depositional facies of Lower Ordovician cyclic carbonates, Southern Missouri: *Journal of Sedimentary Research*, p. 421-433.
- Wright, W. R.², Somerville, I. D., **Gregg, J. M.**, Johnson, A. W.² and Shelton, K. L., 2003, Dolomitization and Neomorphism of Irish Lower Carboniferous (Early Mississippian) limestones: evidence from petrographic and isotopic data, *in* Ahr, W., Harris, A. P., Morgan, W. A. and Somerville, I. D. eds., *Permo-Carboniferous Carbonate Platforms and Reefs: SEPM Special Publication 78 / AAPG Memoir 83*, p. 395-408.
- Gregg, J. M.**, 2004, Basin fluid flow, base metal mineralization, and the development of dolomite petroleum reservoirs, *in* Rizzi, G., Darke, G. and Braithwaite, C. eds., *The Geometry and Petrogenesis of Dolomite Hydrocarbon Reservoirs: London, Geological Society Special Publication 235*, p. 157-175.
- Nagy, Z. R.², **Gregg, J. M.**, Becker, S.², Shelton, K. L., Johnson, A. W.², Somerville, I. D., and Wright, W. R.², 2004, Early dolomitisation and fluid migration through the Lower Carboniferous carbonate platform in the southeast Irish Midlands: Implications for reservoir attributes, *in* Rizzi, G., Darke, G. and Braithwaite, C. eds., *The Geometry and Petrogenesis of Dolomite Hydrocarbon Reservoirs: London, Geological Society Special Publication 235*, p. 367-392.
- Wright, W. R.², Somerville, I. D., **Gregg, J. M.**, Shelton, K. L., Johnson, A. W.², 2004, Irish Lower Carboniferous replacement dolomite: isotopic modelling evidence for a diagenetic origin involving low-temperature modified seawater, *in* Rizzi, G., Darke, G. and Braithwaite, C. eds., *The Geometry and Petrogenesis of Dolomite Hydrocarbon Reservoirs: London, Geological Society Special Publication 235*, p. 75-97.
- Nagy, Z. R.², Somerville, I. D., **Gregg, J. M.**, Becker, S. P.², Shelton, K. L., and Johnson, A. W.², 2005, Lower Carboniferous peritidal carbonates and associated evaporites adjacent to the Leinster Massif, southeast Irish Midlands: *Geological Journal*, v. 40, p. 173-193.
- Nagy, Z. R.², Somerville, I. D., **Gregg, J. M.**, Becker, S. P.², Shelton, K. L., and Johnson, A. W.², 2005, Sedimentation in an actively tilting half-graben: sedimentology and stratigraphy of Late Tournaisian–Vise’an (Mississippian, Lower Carboniferous) carbonate rocks in south County Wexford, Ireland: an example of sedimentation in an actively tilting half-graben: *Sedimentology*, v. 52, p. 489-512.
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- Gregg, J. M., Frank, T. D., Heard, G., and Russell, M., 2007, Diagenesis of Neogene mixed carbonate and siliciclastic sediments of the Porcupine Seabight: A case for microbial mediated dolomitization? in 13th Bathurst Meeting, University of East Anglia, 16-18 July, 2007, p. 26.
- Gregg, J. M., and Shelton, K. L., 2008, Epigenetic Dolomitization and Mississippi Valley-Type Mineralization in Cambro-Ordovician Carbonates of North America: American Association of Petroleum Geologists Annual Convention, Abstracts Volume, v. 15, p. 71.
- Shelton, K. L., Beasley, J. M.², Gregg J. M., Hendry, J. P., and Somerville, I. D., 2008, Geochemistry and fluid evolution of a Carboniferous-hosted sphalerite breccia deposit, Isle of Man: Geological Society of America Abstracts, 257-6.
- Persellin, C. J.², Gregg, J. M., and Shelton, K. L., 2008, Fluid Inclusion and Stable Isotope Studies of Carboniferous Limestone-Hosted Zn-Pb Mineralization In NW Ireland: Geological Society of America Abstracts, 257-7.
- Hendry, J. P., Shelton, K. L., Beasley, J. M.², Gregg, J. M., Crowley, S. F., and Somerville, I. D., 2010, Epigenetic dolomitisation and hydrothermal mineralization of Lower Carboniferous platform carbonates on the Isle of Man (Irish Sea Basin), in Schwarz, E., Georgieff, S., Piovano, E., and Ariztegui, D., 18th International Sedimentological Congress, Mendoza, Argentina: Abstracts Volume, p. 430.
- Unrast, M. A.², Gregg, J. M., Puckette, J. O., and Somerville, I. D., 2011, Sedimentology and petrology of Lower Mississippian carbonate mounds in the Ozark Region, North America: in 14th Bathurst Meeting of Carbonate Sedimentologists, University of Bristol, 12-14 July, 2011, p. 127.
- Unrast, M. A.², Gregg, J. M., and Puckette, J. O., 2011, Sedimentology and petrology of Lower Mississippian carbonate mudmounds in the Ozark Region, North America: AAPG Mid-Continent Section Meeting, AAPG Search and Discovery Article #90133.
- Gregg, J. M., and Shelton, K. L., 2013, Mississippi Valley-Type Ore Deposits in the Cambrian-Ordovician Great American Carbonate Bank: American Association of Petroleum Geologists Annual Convention, Pittsburgh, PA, Abstracts CD, 1548571.
- Gentry, N. E.², and Gregg, J. M., 2013, Carbonate Hosted Sulfide Mineralization in the Southwest Davis Zinc Field, Southern Oklahoma: American Association of Petroleum Geologists Annual Convention, Pittsburgh, PA, Abstracts CD, 1556469.
- Hendry, J., Gregg, J. M., Shelton, K. L., Somerville, I., Crowley, S., 2013, Origin of Fault-Fracture-Related Dolomitisation, Mississippian Limestones, Isle of Man, UK: American Association of Petroleum Geologists Annual Convention, Pittsburgh, PA, Abstracts CD, 1554616.
- Grammer, M., Boardman, D., Puckette, J., Gregg, J., Jaiswal, P., Childress, M.², Price, B.², Vanden Berg, B.², and LeBlanc, S.², 2013, Integrated Reservoir Characterization of Mississippian-Age Mid-Continent Carbonates: AAPG Mid-Continent Section Meeting, Wichita, Kansas, October 12-15.
- Ewald, T. A.², Gregg, J. M., Grammer, G. M., 2015, Integrated Diagenesis and high-resolution sequence stratigraphy of the Mississippian Lime, North-Central Oklahoma: Geological Society of America Abstracts with Programs, v. 47, no. 1, p. 54.
- Mohammadi Dehcheshmehi, S.², Gregg, J. M., Shelton, K. L., Appold, M. S., 2015, Influence of late diagenetic fluids on Mississippian carbonate rock properties in the southern Midcontinent: Geological Society of America, Abstracts with Programs, v. 47, no. 1, p.46.
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- Jaiswal P., Gregg, J. M., Holman R.², Mohammadi Dehcheshmehi, S.², Grammer, G. M., 2015, Negative Flower Structure in the Mississippian Lime: Evidence of Secondary Porosity and a Possible Play Concept: American Association of Petroleum Geologists Annual Convention, Denver, CO, Abstracts CD, 2103509.

Published Abstracts (Continued) (²Denotes student author.)

- Machel, H. G., **Gregg, J. M.**, Bish, D. L., and Kaczmarek, S. E., 2015, Microbial dolomite that isn't dolomite: *in* 15th Bathurst Meeting, 13-16 July, 2015 University of Edinburgh, UK, p. 80.
- Gregg, J. M.**, Silva, C.², Smith, B. J.², Derby, J. R., and Puckette, J. O., 2015, Dolomitization of the lower Cochrane Formation (Early Silurian) in the West Carney Hunton Field, Central Oklahoma U.S.A.: Mixing zone or normal seawater? : *in* 15th Bathurst Meeting, 13-16 July, 2015 University of Edinburgh, UK, p. 60-61.
- Perry, L. E.², Shelton, K. L., Cavender, B. D.², and **Gregg, J. M.**, 2015, A New Look at the CL Microstratigraphy of Dolomite Cements in the World-Class Southeast Missouri MVT Pb-Zn-Cu District: Interplay of Early Fault-Related Systems and Regional Fluid Flow: *in* 15th Bathurst Meeting, 13-16 July, 2015 University of Edinburgh, UK, p. 90.
- Gregg, J. M.**, Mohammadi, S.², Ewald, T. A.², Unrast, M. A.², Shelton, K. L., and Appold, M. S., 2015, Diagenesis of Mississippian Carbonates on the Southern Midcontinent: The influence of sasinal fluids: The Inaugural Mountjoy Meeting Abstract Book, Advances in Characterization and Modeling of Complex Carbonate Reservoirs, Banff, Alberta, August 23-28, p. 35.
- Hendry, J. and **Gregg, J. M.**, 2015, Fault-related dolomites on the Isle of Man and implications for the hydrothermal dolomite play concept: The Inaugural Mountjoy Meeting Abstract Book, Advances in Characterization and Modeling of Complex Carbonate Reservoirs, Banff, Alberta, p. 37.
- Kaczmarek, S. E., **Gregg, J. M.**, Bish, D. L., and Machel, H. G., 2015, Dolomite, very high-magnesium calcite, and microbes: The Inaugural Mountjoy Meeting Abstract Book, Advances in Characterization and Modeling of Complex Carbonate Reservoirs, Banff, Alberta, August 23-28, p. 43.
- Perry, L. E.², Shelton, K. L., Cavender, B. D. ², and **Gregg, J. M.**, 2015, Variations in CL microstratigraphy and isotope compositions of dolomite cements in the world-class Southeast Missouri MVT Pb-Zn-Cu district: Early fault-related systems versus regional fluid flow: Geological Society of America, Abstracts with Programs, v. 47, no. 7, p. 678.
- Schiffbauer, J. D.², Shelton, K. L., Huntley, J. W., Fike, D. A., and **Gregg, J. M.**, 2015, Recognition of SPICE and other carbon isotope excursions in the Upper Cambrian of Southern Missouri: Interaction of local and global carbon factories: Geological Society of America, Abstracts with Programs, v. 47, no. 7, p. 704.
- Mohammadi, S.², Ewald, T. A.², **Gregg, J. M.**, Shelton, K. L., and Appold, M. S., 2016, Diagenetic history of Mississippian carbonate rocks in the Nemaha Ridge area, north-central Oklahoma, USA: Pan American Current Research on Fluid Inclusions Conference XIII, May 24-26, 2016, University of Missouri-Columbia, p. 92-93.
- Temple, B.², and **Gregg, J. M.**, 2016, Petrology and Geochemistry of Upper Cambrian and Lower Ordovician (Arbuckle Group) carbonates, NE Oklahoma and SW Missouri: Pan American Current Research on Fluid Inclusions Conference XIII, May 24-26, 2016, University of Missouri-Columbia, p. 115-116.
- Schiffbauer, J. D., Huntley, J. W., Fike, D. A., Jeffrey, M. J.², **Gregg, J. M.**, and Shelton, K. L., 2016, Decoupling excursions, extinctions, and environmental change: the time-transgressive and facies-dependent Cambrian SPICE event: Geological Society of America Abstracts with Programs, v. 48, no. 7, doi: 10.1130/abs/2016AM-284431.
- Adelstein, T. A.², Shelton, K. L., Perry, L. A.², and **Gregg, J. M.**, 2016, CL microstratigraphy and stable isotope compositions of dolomite cement in the zinc-rich West Fork MVT mine, Southeast Missouri: Geological Society of America Abstracts with Programs, v. 48, no. 7, doi: 10.1130/abs/2016AM-283339.
- Kaczmarek, S., **Gregg, J. M.**, Bish, D., and Machel, H., 2016, Unscrambling dolomite and high-magnesium calcite: 200+25 Dolomieu Conference, Wolkenstein, Italy, October 4-17, 2016.

Published Abstracts (Continued) (²Denotes student author.)

- Lukoczki, G.², **Gregg, J. M.**, Haas, J., 2017, Multi-phase dolomitization, recrystallization, and porosity development of Middle Triassic shallow marine–peritidal carbonates of the Mecsek Mountains (SW Hungary): Mountjoy II – Carbonate Pore Systems, Austin, Texas, June 25-29, p. 88.
- Mohammadi, S., Taylor, A. E., and **Gregg, J. M.**, 2017, Cement diagenesis of Mississippian carbonates in the southern midcontinent of the USA: Mountjoy II – Carbonate Pore Systems, Austin, Texas, June 25-29, p. 107.
- Shelton, K. L., Truesdale, J. P.², **Gregg, J. M.**, Hendry, J. P., and Somerville, I. D., 2018, Fault associated dolomitization and base-metal sulfide vein formation in carboniferous rocks of the north Dublin coast, Ireland: the interplay of basinal- and basement involved fluids: Geological Society of America Abstracts with Programs, v. 50, no. 4, doi: 10.1130/abs/2018NC-312898.
- Dunseith, R. F.², **Gregg, J. M.**, and Grammer, G. M., 2018, Fluid Histories of Middle Ordovician Fault-Fracture Dolomite Oil Fields of the Southern Michigan Basin: AAPG Annual Convention and Exposition, Salt Lake City, May 20-23.
- Lukoczki, G.², Sarin, P., **Gregg, J. M.**, and John, C. M., 2018, Interpretation of Recrystallization Processes of Sedimentary Dolomites as Deduced From Crystal Structural and Geochemical Data With Implications for Reservoir Characterization: AAPG Annual Convention and Exposition, Salt Lake City, May 20-23.
- Gregg, J. M.**, Sarin, P., Lukoczki, G.², 2018, Application of X-ray diffraction methods to understanding the diagenesis of dolomite: 20th International Sedimentological Congress, Quebec City, August 13-17.
- Lukoczki, G.², **Gregg, J. M.**, Haas, J., Machel, H. G., and John, C. M., 2018, Multi-phase dolomitization and recrystallization of middle Triassic peritidal-shallow marine carbonates of SW Hungary: 20th International Sedimentological Congress, Quebec City, August 13-17.
- Lukoczki, G.², Sarin, P., **Gregg, J. M.**, 2018, Application of the Rietveld Refinement method for the study of dolomite diagenesis: 20th International Sedimentological Congress, Quebec City, August 13-17.
- Hendry, J. Shelton, K., Truesdale, J., **Gregg, J.**, Somerville, I., 2018, Dolomitisation and vein mineralisation of mississippian limestones on the faulted margins of a metalliferous basin, north Dublin coast, Ireland: 20th International Sedimentological Congress, Quebec City, August 13-17.
- Bailey, P.², and **Gregg, J. M.**, 2019, Diagenesis of the Arbuckle Group in Eastern and Central Oklahoma: AAPG Annual Convention and Exposition, San Antonio, May 19-22.
- Lukoczki, G.², Sarin, P., **Gregg, J. M.**, John, C. M., 2019, Geochemistry and crystallography of recrystallized sedimentary dolomites: Goldschmidt, Barcelona, August 18-23.
- Dunseith, R. F.², **Gregg, J. M.**, Grammer, G. M., 2019, Middle Ordovician hydrothermal dolomite oil fields of the southern Michigan Basin: Geological Society of America Annual Meeting, September 22-25, Abstracts T46 80-3.
- Lukoczki, G.², Sarin, P., **Gregg, J. M.**, John, C. M., 2020, Crystal structure of dolomites recrystallized at low vs. high water to rock ratios: Goldschmidt, Virtual2020, June 21-26.
- Jaiswal, P. Walter, J. I., Daigle, H., Gregg, J. M., and Verma, S., 2020, Oklahoma’s induced seismicity: did we revive intraplate earthquakes? American Geophysical Union, Fall Meeting, <https://agu2020fallmeeting-agu.ipostersessions.com/Default.aspx?s=F1-9E-D9-34-F1-3C-3D-B2-F7-2E-C6-87-0A-DF-7A-DE>.
- Mohammadi, S., and **Gregg, J. M.**, 2021, Diagenetic impact of basinal and hydrothermal fluids in the Mississippian rocks of the southern Midcontinent of USA: IAS Carbonate Forum 2021, Final Program, p. 42.

INVITED TECHNICAL PRESENTATIONS

- University of Idaho/Washington State University, Earth Science Seminar Series, September, 2020, *Dolomite and the "Dolomite Problem"*.
- Missouri University of Science and Technology, Program in Geology and Geophysics, February 2019, *Regional Diagenesis of Conventional and Unconventional Mississippian Petroleum Reservoirs on the Southern Midcontinent*.
- Oklahoma State University, School of Materials Science & Engineering, September 2017, *Dolomite: Mineral and Material*.
- King Fahd University of Petroleum and Minerals, Department of Earth Sciences, Dhahran, Kingdom of Saudi Arabia, May 2015, *Mineralogy of dolomite in the laboratory and sedimentary environment*.
- Saudi Aramco, Dhahran, Kingdom of Saudi Arabia, May 2015, *Fluid sources and flow paths in the Lower Carboniferous (Mississippian) of the southern Irish Midlands*.
- Vrije Universiteit Amsterdam, Faculty of Earth and Life Sciences, Amsterdam, The Netherlands, April 2013, presented a series of lectures to M.S. level students, *Dolomite and dolomitization*.
- University of Tulsa, Department of Geosciences, Tulsa, OK, November 2009, *Fluid Sources and Flow Paths in the Lower Carboniferous of the Southern Irish Midlands*.
- Oklahoma City Geological Society, Oklahoma City, OK, November 2006, *Mississippi Valley-Type Mineralization and the Development of Dolomite Petroleum Reservoirs*.
- Tulsa Geological Society, Tulsa, OK, September 2006, *Mississippi Valley-Type Mineralization and the Development of Dolomite Petroleum Reservoirs*.
- Oklahoma State University, Stillwater, OK, May 2006, V. Brown Monnett Chair of Petroleum Geology Inaugural Lecture, *The Impact of Geology on Society*.
- Department of Earth and Atmospheric Sciences, University of Alberta, Edmonton, Alberta, Canada, April 2003, *Fluid Flow and Mineralization in the Southern Irish Midlands, Relationship to Lower Carboniferous Evaporites*.
- Department of Geological Sciences, Wright State University, Dayton, Ohio, March 2003, *Fluid Flow and Mineralization in the Southern Irish Midlands, Relationship to Lower Carboniferous Evaporites*.
- Geological Society of London, Petroleum Group, Burlington House, London, England, December 2002, *Basin fluid flow, base metal mineralisation, and the development of dolomite petroleum reservoirs*.
- Fysico-Chemische Geologie, Katholieke Universiteit Leuven, Leuven, Belgium, June 2000, *Dolomitization of the Waulsortian Limestone (Lower Carboniferous) Irish Midlands*.
- School of Earth Science, Leeds University, Leeds, England, June 2000, *Dolomitization of the Waulsortian Limestone (Lower Carboniferous) Irish Midlands*.
- SURRC (Scottish Universities Research and Reactor Center), Glasgow, Scotland, July 1999, *Multiple Dolomitization of Waulsortian Limestone (Lower Carboniferous) in the Southern Irish Midlands*.
- Department of Geology, Imperial College of Science, Technology and Medicine, London, June 1998, *Recrystallization and Neomorphism of Dolomite: Petrographic and Geochemical Considerations*.
- Department of Geology, University of Arkansas, February 1997, *Carbonate Hosted Base Metal Deposits of the Irish Midlands — A Geological Perspective*.
- A.I.M.E., Southeast Missouri Section, December 1996, *Carbonate Hosted Base Metal Deposits of the Irish Midlands — A Geological Perspective*.
- Irish Association for Economic Geology, Geological Survey of Ireland, Dublin, May 1996, *Application of cathodoluminescence petrography to Mississippi Valley-type deposits*.
- Department of Geology, University College Dublin, Ireland, November 1995, *Basin fluid flow and epigenetic dolomitization*.
- Trinity College, Dublin, Joly Society Lecture, November 1995, *Control of Fluid Flow and Mineralization in Cambro-Ordovician Strata, Southern Missouri*.

INVITED TECHNICAL PRESENTATIONS (continued)

- Queens University, Belfast, Northern Ireland, October 1995, 1) *Regional Dolomitization and Mississippi Valley-type (MVT) Mineralization in Southern Missouri, U.S.A.* 2) *Carbonate depositional environments on San Salvador Island, Bahamas.*
- A.I.M.E., Southeast Missouri Section, Salem, MO, January 1995, *Ongoing research in the southeast Missouri mineral district.*
- Irish Geological Association, Trinity College, Dublin, Ireland, October 1993, *Regional dolomitization and Mississippi Valley-type (MVT) mineralization in southern Missouri, U.S.A.*
- Department of Geology, University College, Dublin, Ireland, October 1993, 1) *Epigenetic dolomitization as related to basinal fluid flow and Mississippi Valley-type mineralization.* 2) *Recrystallization and neomorphism of dolomite: petrographic and geochemical considerations.*
- National Conference on Earth Science (Canada), Banff, Alberta, September 1992. Sponsored by the Canadian Association of Petroleum Geologists and the University of Alberta. Three invited short course lectures: 1) *Petrology and Classification of Dolomite*, 2) *Recrystallization and neomorphism of dolomite: petrographic and geochemical considerations*, 3) *Regional dolomitization and Mississippi Valley-type (MVT) mineralization in southern Missouri, U.S.A.*
- Shell Oil Company (Canada), Calgary, Alberta, September 1992, *Epigenetic dolomitization as related to basinal fluid flow and Mississippi Valley-type mineralization.*
- Sigma Xi, University of Missouri-Rolla, April 1992, *Early diagenetic recrystallization of Recent peritidal dolomites, Ambergris Cay, Belize.*
- University of Akron, Department of Geology, April 1992, *Early diagenetic evaporite and carbonate mineralogy of a hypersaline pond, San Salvador Island, Bahamas.*
- University of Illinois, Department of Geology, Urbana, IL, November 1991, *Early diagenetic recrystallization of Recent peritidal dolomites, Ambergris Cay, Belize.*
- Arkansas Mining and Mineral Institute, Russellville, AK, September 1991, *Geology of the southeast Missouri Mississippi Valley-type mineral district.*
- Department of Geological Sciences, University of Missouri-Columbia, February 1991, *Crystallographic and mineralogic studies of recent, peritidal dolomites, Ambergris Cay, Belize.*
- Department of Geological Sciences, Michigan State University, November 1990, First Presentation: *Geology of the southeast Missouri Mississippi Valley-type mineral district.* Second presentation: *Early diagenetic alteration of a Holocene peritidal dolomite - Ambergris Cay, Belize.*
- Department of Geology, University of Arkansas, September 1990, *Geology of the southeast Missouri Mississippi Valley-type mineral district.*
- School of Geology, Oklahoma State University, Stillwater, OK. February 1990, *Geochemical, Fluid inclusion, and petrographic evidence for regional late-diagenetic alteration of Upper Cambrian carbonates by basinal fluids, southern Missouri.*
- Department of Geological Sciences, Michigan State University, East Lansing, MI. Distinguished Alumni Lecture Series, March 1989, *Chemical reconstruction of basinal fluid pathways, southeastern Missouri -- Evidence for multiple basin fluid sources and pathways during lead-zinc mineralization.*
- Department of Ceramic Engineering, University of Missouri-Rolla, Rolla, MO. March 1989, *Geology and Geochemistry of Natural Dolomites.*
- Department of Geology, Washington State University, Pullman, Washington, September 1987, *Minor and trace element distributions in the Bonnetterre Dolomite (Cambrian), southeast Missouri: Evidence for possible multiple basin fluid sources and pathways during lead-zinc mineralization.*
- Department of Geology, University of Kansas, Lawrence, Kansas, March, 1987: *Chemical reconstruction of basinal fluid pathways, S.E. Missouri -- Evidence for a northern source of fluid in the Viburnum Trend lead-zinc district.*

LIVE EDUCATIONAL TELEVISION AND EDUCATIONAL VIDEOTAPES

Gregg, J. M., 1991, Evolution of the Earth and Natural Resources of the Earth: Two 15 minute videotape, produced by Tom Shipley, presented within a 50-minute live broadcast of *Teacher to Teachers* on Kansas City Public Television through UMR Media Based Programs, produced by Tom Shipley, broadcast on November 27, 1991 to 12 states via satellite communications.

M.S. THESES SUPERVISED

- Laudon, Peter R., 1992, Dolomite neomorphism and water-rock relationships in the mineralized Bonneterre Dolomite (Cambrian), southeast Missouri: University of Missouri-Rolla, M.S. Thesis, 165 p.
- Woody, Robert E., 1994, The effect of texture on the petrophysical properties of dolomite: Evidence from the Cambro-Ordovician of southeast Missouri: University of Missouri-Rolla, M.S. Thesis, 224 p.
- Keller, Timothy J., 1996, Fluid-rock interactions and fluid migration in the Reelfoot Rift system, Midcontinent U.S.A.: University of Missouri-Columbia, M.S. Thesis, 169 p. Co-supervisor with Kevin L. Shelton, University of Missouri-Columbia.
- Dillon, Robert W., 1999, Stability of paleosinks and karstic carbonates in the southern fire clay mining district of Missouri: University of Missouri-Rolla, Ph.D. Dissertation, 141 p.
- Overstreet, R. Brandon, 2000, Sequence stratigraphy and depositional facies of Lower Ordovician cyclic carbonates, southern Missouri: University of Missouri-Rolla, M.S. Thesis, 68 p. Co-supervised with Dr. Francisca Oboh-Ikuenobe, University of Missouri-Rolla.
- Bauggaard, W. D. 2002, Stratigraphy and diagenesis of the Paleoproterozoic Bushy Park zinc-lead deposit, South Africa: University of Missouri-Rolla, M.S. Thesis, 174 p.
- Becker, S. P., 2003, A local source for hypersaline brines associated with ore mineralization in southeastern Ireland: University of Missouri-Rolla, M.S. Thesis, 159 p.
- Persellin, C. J., 2009, Dolomitization and sulfide mineralization of Lower Carboniferous strata, NW Ireland: Oklahoma State University, M.S. Thesis, 91 p.
- Unrast, M., 2012, Composition of Mississippian carbonate mounds in the Ozark region, north America and Ireland: Oklahoma State University, M.S. Thesis, 120.
- Berryman, J. R., 2012, Timing and paragenesis of the calcite fracture fill in the Woodford Shale: Oklahoma State University, M.S. Thesis, 44 p.
- Gentry, N. E., 2012, Carbonate-hosted sulfide mineralization in the Southwest Davis zinc field, southern Oklahoma: Oklahoma State University, M.S. Thesis, 53 p.
- Smith, B. J., 2012, Effects of sea level fluctuations on porosity and permeability of the Lower Cochrane Member, Chimneyhill Subgroup, Hunton Group West Carney Hunton Field Logan County, OK: Oklahoma State University, M.S. Thesis, 80 p.
- Silva, C., 2012, Reservoir and diagenetic characterization of the Lower Cochrane Member, Hunton Group – Lincoln and Logan Counties, Oklahoma: Oklahoma State University, M.S. Thesis, 64 p.
- Temple, B. J., 2016, Petrology and Geochemistry of the Lower Ordovician and Upper Cambrian (Arbuckle) carbonates, NE Oklahoma and SW Missouri: Oklahoma State University, M.S. Thesis, 70 p.
- Ray, Jordan T., 2018, Reservoir and Diagenetic Characterization of the Clarita Formation, Hunton Group – Lincoln and Logan Counties, Oklahoma: Oklahoma State University, M.S. Thesis, 74 p.
- Bailey, Phillip A. III, 2018, Diagenesis of the Arbuckle Group in northeastern and north-central Oklahoma, U.S.A.: Oklahoma State University, M.S. Thesis, 76 p.
- Dunseith, Regina F., 2019, Fluid histories of Middle Ordovician fault-fracture dolomite oil fields of the southern Michigan Basin: Oklahoma State University, M.S. Thesis, 84 p.

PH.D. DISSERTATIONS SUPERVISED

- He, Zhenhao, 1995, Sedimentary facies and variation of stable isotope composition of Upper Cambrian to Lower Ordovician strata in southern Missouri: Implications for the origin of MVT deposits, and the geochemical and hydrological features of regional ore forming fluids: University of Missouri- Rolla, Ph.D. Dissertation, 124 p.
- Wright, Wayne R., 2001, Dolomitization, fluid-flow and mineralization of the Lower Carboniferous rocks of the Irish Midlands and Dublin Basin Regions: University College Dublin, Ph.D. Dissertation, 407 p. Co-supervisor with Ian D. Summerville, University College Dublin, 407 p.
- Spooner, J. D., 2002, The evolution of the lower Missouri River: Stratigraphy, geomorphology, and habitat dynamics at Lisbon Bottom: University of Missouri-Rolla, Ph.D. Dissertation, 151 p.
- Johnson, A. W., 2003, Regional-Scale geochemical analysis of carbonate cements: Reconstructing multiple fluid interactions related to dolomitization and mineralization in Lower Carboniferous rocks of the Irish Midlands: University of Missouri-Columbia, Ph.D. Dissertation, 323 p. Co-supervisor with Dr. Kevin L. Shelton, University of Missouri-Columbia, 323 p.
- Nagy, Z. R., 2003, Sedimentology, biostratigraphy, early diagenesis and low temperature (early) dolomitization of the supra-Waulsortian (Chadian-Brigantian, Lower Carboniferous) shallow marine carbonate rocks in the southeast Irish Midlands and Wexford: University of Missouri-Rolla, Ph.D. Dissertation, 309 p.
- Mohammadi Dehcheshmehi, Sahar, 2016, Regional Diagenesis of Mississippian Strata of the Southern Mid-Continent, USA, Ph.D. Dissertation, 133 p.
- Lukoczki, Georgina, 2019, Geochemistry and crystal structure of recrystallized dolomites: Oklahoma State University, Ph.D. Dissertation, 197 p.

GRANT SUPPORT

- Mississippian Consortium (15 Energy Companies and OSU BPSG), 2012-2017, Reservoir Distribution and Characterization of Mid-Continent Mississippian Carbonates – A Major Unconventional Resource Play. With Darwin Boardman, G. Michael Grammer, Pryank Jaiswal, and James Puckette, \$1,200,000.
- Joint Oceanographic Institutions, 2005-07, Dolomite and dolomitization processes in Neogene sediments of the Belgica Carbonate Mound Province, Porcupine Seabight, North Atlantic, \$19,228.
- National Science Foundation, 2001-2004, Deciphering the Complex History of Fluid Flow in Lower Carboniferous Carbonate Rocks, Irish Midlands: Geochemistry of Multiple Dolomitizing and Ore-Forming Events. With Kevin L. Shelton (lead PI), University of Missouri-Columbia, \$95,000.
- American Chemical Society, Petroleum Research Fund, 2000-2003, Carbonate diagenesis in an extensional/compressional setting with a complex fluid flow history: Lower Carboniferous of the Irish Midlands. With Kevin L. Shelton, University of Missouri-Columbia, \$60,000.
- BHP Ireland (1999-2000), Sr isotope geochemistry of Upper Carboniferous dolomites in the southern Irish Midlands. With Ian D. Somerville (lead PI), University College Dublin, IR£2,000 (for use at University College Dublin).
- University of Missouri South Africa Education Program Exchange Participant Proposal to Visit the University of the Western Cape (May 25, through June 19, 1998), For travel Cape Town, South Africa to teach sedimentary geology and explore possible research opportunities with faculty at the University of Western Cape, \$5,935.
- The Doe Run Company, 1998-1999, Determination of concentrations of lead and other contaminants in soils of the Crooked Creek Watershed. With Dr. David J. Wronkiewicz (lead PI) and Dr. Nord Gale, \$10,281.
- University of Missouri Research Board (Jan. 1, to Dec. 31, 1998), Dolomitization of the Trenton and Black River Limestones (Ordovician) northern Indiana, \$12,450
- National Science Foundation, 1997-2000, Dolomitization and fluid flow in Lower Carboniferous carbonate rocks, Irish Midlands: Cooperative Research with University College Dublin. With Dr. Kevin L. Shelton, University of Missouri-Columbia, \$21,480.

GRANT SUPPORT (Continued)

- Forbairt (Irish science and technology funding agency), 1997-2000, Relationship between dolomitization and base metal mineralization in the Lower Carboniferous of the Irish Midlands. With Ian D. Somerville (lead PI) and Peter Strogon, University College Dublin, IR£27,000 (for use at University College Dublin).
- Council for International Exchange of Scholars and the United States Information Agency, Fulbright Scholar Program (1995-1996), Lecturing in sedimentary geology and research on sedimentary rocks hosting the Irish base metal ore deposits, \$30,000.
- Waste Management of North America (1993-1994), Physico-chemical effects of leachate/collection system aggregate interfacing, with A. W. Hatheway (lead PI) and E. Bolter, \$60,893.
- University of Missouri Research Board (1993-1994), Thermal Maturation of Sediments in the Reelfoot Rift, with Francisca Oboh (lead PI) and Robert Laudon, \$14,500.
- Jefferson Smurfit Foundation Grant to travel to and lecture at University College, Dublin, Ireland, October, 1993, \$2,000.
- American Chemical Society, Petroleum Research Fund (1992-1994), Late diagenetic alteration of platform and basinal sediments by basinal fluids in the Reelfoot Rift, southeastern Missouri and northern Arkansas. With K. L. Shelton, University of Missouri-Columbia, \$40,000.
- National Science Foundation (1991-1994), Petrology, Porosity Evolution, and Geochemistry of Upper Cambrian and Lower Ordovician Strata of Southern Missouri, with James R. Palmer, Missouri Geological Survey, and Kevin L. Shelton, University of Missouri-Columbia, \$99,426.
- Conoco, Inc. (1992-1993), Epigenetic Alteration of Upper Cambrian Age Platform Carbonates by Basinal Fluids in the Reelfoot Graben: Petrographic and Geochemical Studies, with Kevin L. Shelton, University of Missouri-Columbia, \$5,000.
- Satellite Educational Resources Consortium (SERC) (1992-1993), Teachers to teachers, with Media-Based Programs, UMR, \$120,000, JMG contribution \$10,000.
- United States Department of the Interior, Bureau of Mines (1991) Geochemistry and sedimentology of dolomite used in refractories in metallurgical furnace construction, with Robert E. Moore, Department of Ceramic Engineering, UMR, \$12,700.
- Texaco E&P Technology Division (1991), Reconstruction of Basin Fluid Pathways and Late Diagenetic Alteration of Platform Dolomites. With K. L. Shelton, University of Missouri-Columbia, \$5,000, (continuation of 1990 funding).
- Missouri Research Assistance Act (1990-1991), Alteration of sedimentary carbonate aquifers by basinal fluids in the Ozark Region, Missouri. With K. L. Shelton, University of Missouri-Columbia, \$7,636.
- BHP Petroleum (1990-1991), Regional Evolution of Porosity in the Bonneterre Dolomite (Cambrian), Southeast Missouri, \$5,272.
- Texaco E&P Technology Division (1990), Reconstruction of Basin Fluid Pathways and Late Diagenetic Alteration of Platform Dolomites. With K. L. Shelton, University of Missouri-Columbia, \$5,000.
- United States Department of the Interior, Bureau of Mines (1989) Stable carbon and oxygen isotope geochemistry of the Bonneterre Dolomite (Cambrian), southeast Missouri, as related to diagenetic history and sulfide ore mineralization, \$4,950.
- Weldon Spring Endowment Fund (1989-1990), Petrographic and Geochemical Studies on the Bonneterre Dolomite (Cambrian), Southeast Missouri. With K. L. Shelton, University of Missouri-Columbia, \$19,768.