

Dr. Steven J. Rosscoe, PhD

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ACADEMIC EXPERIENCE

Midwestern State University; Wichita Falls, Texas

August 2022 – Present

Associate Professor of Geology (August 2023 - Present)

Visiting Assistant Professor of Geology (August 2022 – August 2023)

- Course Load – 12 hours (3 courses with labs per semester)
- Undergraduate Courses Taught – Life/Earth Science, Historical Geology, Oceanography, Invertebrate Paleobiology, Sedimentology and Stratigraphy
- Graduate Courses Taught – Clastic Depositional Systems and Sequence Stratigraphy, Carbonate Depositional Systems and Stratigraphy
- University and Department Service
 - MSU Mustangs Adventure Faculty Mentor (Fall 2023)
 - UGROW mentor (Summer 2023)
 - YES Camp Workshop (Summer 2023)
 - Graduate advisory committee member/chair for MS Geosciences program.
 - Represented geosciences at the ASU/MSU Research Summit at TTUHSC Abilene Campus (November 11, 2022).
 - Coordinated short field trips for some undergraduate and graduate courses.

Hardin-Simmons University; Abilene, Texas

August 2008 – August 2022

Professor of Geology (August 2020 – August 2022)

Associate Professor of Geology (August 2014 – August 2020)

Assistant Professor of Geology (August 2008 – August 2014)

- Course Load – 12 to 23 hours (3 to 7 lecture courses, 1-2 labs per semester)
- Undergraduate Courses Taught – Physical Geology, Introduction to Environmental Science, Natural Hazards, Oceanography, Historical Geology, Invertebrate Paleontology, Sedimentation and Stratigraphy, Geographic Information Systems, Field Geology, Petroleum Geology Seminar, Qualitative Well Logging Seminar, Quantitative Well Logging Seminar, Sequence Stratigraphy Seminar, Geosciences Seminar, Hydrology, Senior Research
- Graduate Courses Taught – Environmental Management Simulation, Environmental Management Seminar, Geospatial Technology
- Other Courses Taught – First Year Seminar, Honors Discourse in Science, Teaching EC-6 Science
- Committee Service – Faculty Council, Faculty Promotion Committee (Chair 2018-19), Teaching Effectiveness Committee, Assessment of Learning Outcomes Committee, Ad Hoc Learning Management System Selection Committee, Ad Hoc Committee for General Education Revision, Holland School of Science and Mathematics Curriculum Committee, Dean Search Committee, Faculty Search Committees.
- Other Responsibilities
 - Curriculum development, reports, and assessments for the Geology and Environmental Science Programs.
 - Thesis and examination committee member for MS Environmental Management students.
 - Advising and mentoring students in Geology, Environmental Science, Physical Science, and Science Education (except life science and math) programs.
 - Coordinated field trips and research experiences for undergraduate students.
 - Managed and maintained departmental GPS and GIS equipment and software.
- Accolades – Holland AAPG Award for Teaching Excellence (2009-10, 2020-21), Provost's Award for Outstanding Service to the Profession (2015-16), Received Tenure (2013).

Cisco College; Abilene, Texas

September 2021 – December 2021

Adjunct Instructor of Geology

- Taught Historical Geology night class with laboratory.

Texas Tech University; Lubbock, Texas

June 2011

Adjunct Instructor of Geoscience

- Taught Advances in Historical Geology course for the MS Multidisciplinary Science Program.

EDUCATION

Texas Tech University; Lubbock, Texas

August 2008

PhD in Geosciences

- Dissertation: Revision of Pennsylvanian conodonts from the Pleasanton to Lower Kansas City Groups of the Midcontinent Basin, North America (Advisor – Dr. Jim Barrick)
- Teaching/Research Roles: Research Assistant for Dr. Jim Barrick (2008), Graduate Instructor of Physical Geology (2006-07), Head Teaching Assistant (2005-06), Teaching Assistant for Physical Geology Lab (2-5 sections per semester) (2005-06)

Texas Tech University; Lubbock, Texas

May 2005

MS in Geosciences

- Thesis: Conodonts of the Desmoinesian (Middle Pennsylvanian) Lost Branch Formation, Oklahoma, United States (Advisor – Dr. Jim Barrick)
- Teaching Roles: Teaching Assistant for Physical Geology Lab (2-5 sections per semester) (2003-2005)

State University of New York College at Geneseo; Geneseo, New York

May 2003

BA in Geological Sciences

- Senior Research: Constraint of the Eifelian-Givetian Boundary in Western New York State (Advisor – Dr. D. Jeffrey Over)
- Teaching Roles: Undergraduate Teaching Assistant for Physical Geology Laboratory, Historical Geology Laboratory, and Our Geological Environment Laboratory.

INTERNATIONAL WORKING GROUPS

Subcommission on Carboniferous Stratigraphy (SCCS) of the International Commission on Stratigraphy

- Corresponding Member of the SCCS
- Voting Member of the Task Group to Establish the Moscovian-Kasimovian and Kasimovian-Gzhelian Global Stage Boundary

PUBLICATIONS

Peer-Reviewed Publications

Barrick, J. E., Hogancamp, N. J., & Rosscoe, S. J. 2023. Evolutionary Patterns in Late Pennsylvanian Conodonts. *In*: DiMichele, W. A., Lucas, S. G., Oplustil, S., Schneider, J.W., & Wang, X (eds.). Ice Ages, Climate Dynamics, and Biotic Events: The Late Pennsylvanian World. Geological Society, London, Special Publications, vol. 535, pp. 383-408.

- Rosscoe, S. J., and Barrick, J. E. 2021. Conodont faunas from the lower part of the Tinajas Member of the Atrasado Formation (Upper Pennsylvanian/Missourian), Manzanita Mountains, New Mexico. In Lucas, S. G., et. al., eds. Kinney Brick Quarry Lagerstätte. New Mexico Museum of Natural History and Science Bulletin, No. 84, pp. 241-253.
- Gee, B. M., Rosscoe, S. J., Scott, D. Ostlein, J., & Reisz, R. R. 2018. Faunal overview of the Mud Hill locality from the early Permian Vale Formation of Taylor County, Texas. *Journal of Paleontology*, 92, no. 6, pp. 1092-1106.
- Hogancamp, N. J., Rosscoe, S. J., and Barrick, J. E. 2017. Geometric morphometric analysis of P₁ element asymmetry in the Late Pennsylvanian conodont *Idiognathodus magnificus* Stauffer and Plummer 1932. *Stratigraphy*, vol. 14, nos. 1-2, pp. 179-196.
- Barrick, J. E., Lambert, L. L., Heckel, P. H., Rosscoe, S. J., and Boardman II, D. R. 2013. Midcontinent Pennsylvanian conodont zonation. In Heckel, P. H. ed. Pennsylvanian genetic stratigraphy and biostratigraphy of midcontinent North America. *Stratigraphy*, vol. 10, nos. 1-2, pp. 55-72.
- Rosscoe, S. J. & Barrick, J. E. 2013. North American species of the conodont genus *Idiognathodus* from the Moscovian-Kasimovian Boundary Composite Sequence and correlation of the Moscovian-Kasimovian stage boundary. In Lucas, S. G., DiMichele, W. A., Barrick, J. E., Schneider, J. W., and Spielmann, J. A., eds. The Carboniferous-Permian Transition. New Mexico Museum of Natural History and Science: Bulletin, no. 60, pp. 354-371.
- Barrick, J. E., Heckel, P. H. & Rosscoe, S. J. 2012. Conodont-based correlation of lower Conemaugh marine units (Late Pennsylvanian) in Northern Appalachian Basin. *Stratigraphy*, vol. 8, no. 4, pp. 273-279.
- Falcon-Lang, H. J., Heckel, P. H., DiMichele, W. A., Blake, B. M., Easterday, C. R., Eble, C. F., Elrick, S., Gastaldo, R. A., Greb, S. F., Martino, R. L., Nelson, W. J., Pfefferkorn, H. W., Phillips, T. L., & Rosscoe, S. J. 2011B. Reply to comment on "No major stratigraphic gap exists near the Desmoinesian-Missourian Stage Boundary in North America. *Palaios*, vol. 26, no. 2, pp. 125-139." *Palaios*, vol. 26, no. 10, pp. 672-673.
- Falcon-Lang, H. J., Heckel, P. H., DiMichele, W. A., Blake, B. M., Easterday, C. R., Eble, C. F., Elrick, S., Gastaldo, R. A., Greb, S. F., Martino, R. L., Nelson, W. J., Pfefferkorn, H. W., Phillips, T. L., & Rosscoe, S. J. 2011A. No major stratigraphic gap exists near the Desmoinesian-Missourian Stage Boundary in North America. *Palaios*, vol. 26, no. 2, pp. 125-139.
- Rosscoe, S. J. & Barrick, J. E. 2009. Revision of *Idiognathodus* species from the Desmoinesian-Missourian (~Moscovian-Kasimovian) boundary interval in the Midcontinent Basin, North America. In Over, D. J. ed. Conodont studies commemorating the 150th anniversary of the first conodont paper (Pander, 1856) and the 40th anniversary of the Pander Society. *Paleontographica Americana*, no. 62, pp. 115-147.

Newsletter Articles

Rosscoe, S. J. & Barrick, J. E. 2009. *Idiognathodus turbatus* and other key taxa of the Moscovian-Kasimovian boundary interval in the Midcontinent Region, North America. Newsletter on Carboniferous Stratigraphy, vol. 27, pp. 21-25.

Conference Abstracts

Jones, C. & Rosscoe, S. J. 2022. An enigmatic limestone conglomerate in the predominantly siliciclastic Antlers Formation, Taylor County, Texas. Geological Society of America Abstracts with Programs vol. 54, no. 2.

Deen, J. M., Mann, C. D., Garcia, A., & Rosscoe, S. J. 2020. Preliminary textural analysis of the Antlers Sandstone, Taylor County, Texas. Geological Society of America: Abstracts with Programs, vol. 52, no. 1.

Robinson, S. E., Rosscoe, S. J., and Dose, M. M. 2017. Preliminary analysis of gamma radiation, conodont element abundance, and finer than sand fraction relationships in the lower Barnett Shale, San Saba, Texas, U.S.A. Geological Society of America: Abstracts with Programs, vol. 49, no. 1.

Hogancamp, N. J., Rosscoe, S. J., and Barrick, J. E. 2016. Landmark-based morphometric analyses of *Idiognathodus magnificus* and development of comprehensive protocols to study morphological variation in conodont P₁ Elements. Geological Society of America: Abstracts with Programs, vol. 48, no. 7.

Heckel, P. H. Barrick, J. E., and Rosscoe, S. J. 2011. Conodont-based correlation of lower Conemaugh marine units (Late Pennsylvanian) in northern Appalachian Basin. Geological Society of America: Abstracts with Programs, vol. 43, no. 1, p. 74.

Butler, G. Holterhoff, P., and Rosscoe, S. 2010. High frequency sequence stratigraphic controls on sequence architecture of an Upper Pennsylvanian “regressive limestone” (Bethany Falls Limestone), Mid-Continent, USA. AAPG Search and Discover Article #90104, AAPG Annual Convention and Exhibition-11-14 April, 2010.

Rosscoe, S. J. and Bader, J. D. 2010. Conodont biostratigraphy of the Upper Salesville Shale (Canyon – Upper Pennsylvanian) of north-central Texas as compared to the Hushpuckney Shale of the Midcontinent Basin, USA. Geological Society of America: Abstract with Programs, vol. 42, no. 2, p. 72.

Over, D. J., Travis, M., Morgan, P., Baird, G. C., Rosscoe, S., Bartholomew, A., and Schramm, T. 2009. Conodonts, dacroconarids, magnetic susceptibility, and placement of the Eifelian-Givetian Boundary in the Marcellus Shale of the lower Hamilton Group, Appalachian Basin, western New York State. Permophiles: Newsletter of the Subcommittee on Permian Stratigraphy, no. 53, supp. 1, p. 38.

Rosscoe, S. J. and Barrick, J. E. 2009. Morphological features, possible functions, and evolution of Late Carboniferous idiognathodid P₁ elements. Permophiles: Newsletter of the Subcommittee on Permian Stratigraphy, no. 53, supp. 1, p. 44-45.

Membership Societies

American Association of Petroleum Geologists
National Association of Geoscience Teachers
The Pander Society

Geological Society of America
The Paleontological Society

Professional and Community Service

- Participant and Presenter: Subcommittee on Carboniferous Stratigraphy Kasimovian Workshop [May 24-27, 2021]
- Strimple Award Committee for the Paleontological Society [2019, 2020 Award Years]
- Peer Reviewer: The Journal of Paleontology; Palaeogeography, Palaeoclimatology, Palaeoecology; New Mexico Museum of Natural History Bulletin
- Geological Society of America Annual Meeting, Co-Chair of Session T137: Conodonts from shallow water and related environments: in honor and memory of Bruce Wardlaw [Sep 2016]
- American Chemical Society Petroleum Research Fund Proposal Review
- Patient Health Advisor for Texas Tech Health Sciences Center School of Pharmacy [2018-2022]
- Boy Scouts of America – Guest instructor for geology badge (Abilene Webelos) [2014]
- Outreach Class Visits (Geology and Environmental Science – 3rd and 6th Grades) [2011]
- Consultant Region 14 Science Instructor for 1 week summer enrichment of science teachers for Region 14 in the state of Texas [2010-11]
- Haiti Relief Co-Coordinator – medical supplies collected from Hardin-Simmons community and delivered to Project C.U.R.E. in Houston. [2010]