

Joyce Carbaugh Smith

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GEOSCIENCE INSTRUCTOR

Applying oil & gas exploration and production experience to engage students with practical examples for discerning subsurface stratigraphic character, reservoir fluid flow, and why it matters. Recognized for technical engagement, organized delivery, and content enthusiasm.

PROFESSIONAL EXPERIENCE

Lone Star Community College, Houston, TX 2018 - present

Adjunct Faculty – Geology Instructor

Teaches entry-level Physical Geology lecture and lab courses to diverse students.

- Adjunct-Faculty Liaison role: coordinates communication to and needs of adjunct staff
- **Communication and mentorship, curriculum development, classroom management**

JECSmith Consulting, Houston, TX 2016 – present

Principal Geoscientist

Defines, ranks, and high-grades conventional exploration prospects for frontier plays.

- **Project management, team leadership within subsurface staff, coordination with client needs**

BP America, Houston, TX 2011 – 2016

Exploration Geoscientist, 2014-2016

- Regional mapping, geologic research for analogue basins, well-log interpretation, integration of sundry vintage data for subsurface insight, technical software expertise

Production Geologist, 2013-2014

- Liaison to diverse multi-disciplinary teams, preparation for regulatory approval, formal presentation of findings to external sources, wellsite operations, shallow hazard geophysics

Development Geologist, 2011-2013

- Calculated reservoir properties for government agencies, geological data quality control and assurance, travel to sites to troubleshoot data-capture issues, reservoir fluid modeling

ConocoPhillips Company, Houston, TX Summer 2010

Geoscience Intern

Performed data flow analysis, data quality control, technical writing on short deadlines.

Virginia Center for Coal & Energy Research (VCCER), Blacksburg, VA 2009 – 2010

Enhanced Coal Bed Methane Research Assistant, DoE TASK 10 Carbon Sequestration Project

Map-making to fit audience and use, digitizing paper logs for large-scale interpretation

EDUCATION

M.Sc. Geosciences, Clastic Sedimentology, August 2011 (3.9 GPA)

Virginia Polytechnic Institute and State University, Blacksburg, VA

- **Coursework in Environmental Geochemistry, Basin Analysis, Diagenesis, Earth Systems Processes**
- **Taught Introductory Geology Lab to engineering students, Sedimentology Lab to geology majors**

B.Sc. Geology major, Mathematics minor, May 2009 (3.2 major GPA)

The College of William & Mary, Williamsburg, VA

- **Assisted with six semesters' instruction of the Introductory Geology Laboratory, volunteer basis**

PUBLICATIONS

Grimm, R.P., Eriksson, K.A., Carbaugh, J.E., 2013, **Tectono-sedimentary Evolution of Early Pennsylvanian Alluvial Systems at the Onset of the Alleghanian Orogeny, Pocahontas Basin, Virginia**: Basin Research. 08/2013; 25(4). DOI: 10.1111/bre.12008

Ayodele, I., Smith, J.E., Orimolade, A., Penfield, G., Falaye, B. 2018, **Multi-Attribute Analysis of Six Upper Cretaceous and Jurassic Structural Closures in Belo Profond, Morondava Basin, Offshore West Madagascar**: 2018 AAPG Annual Convention and Exhibition, Salt Lake City, Utah, May 20-23, 2018, AAPG Datapages/Search and Discovery Article #90323

Benford, B.A., Spears, C.L., and Smith, J.E., 2019, **Active Learning with a Three-Dimensional Man-Made Outcrop Advances Geological Education at a Two-Year College - Lone Star College**: Geological Society of America Abstracts with Programs. Vol. 51, No. 5. doi: 10.1130/abs/2019AM-332119.

VOLUNTEER WORK

Lone Star College – Office of Student Life, Outreach 2018 - 2020
Discussion leader and guide for Girl Scout Engineering Day, NASA field trip, Spring 2020
Registration drive, Geology Recruitment Camping Trip.

Career & Education Day for the Houston Hispanic Forum 2012-2016
Represented Geology for BP at an event geared to educate students toward careers in STEM fields, occurs annually in downtown Houston.

Houston Gem & Mineral Show at the Humble Civic Center 2016
Hosted the Houston Geological Society informational booth designed to educate students, scout troops on the formation of natural resources and the roles of a professional geologist.

PROFESSIONAL ASSOCIATIONS

American Association of Petroleum Geologists | Houston Geological Society
Geological Society of America | National Association of Geoscience Teachers

SOFTWARE PROFICIENCY

Training courses and work experience using: ESRI ArcGIS, IHS/SMT Kingdom, Landmark DSG Professional Suite Seismic Interpretation (SeisWorks, PowerView, GeoProbe, StratWorks, etc), Petra, Emerson/Roxar RMS, Crystal Ball (Excel)

Adobe Illustrator, Canvas, Microsoft Office (Word, Powerpoint, Excel, Access, Visio, Publisher)

Learning Management System: Desire2Learn, McGraw-Hill Connect