

Jayme McBee
Director of Geochemical Services
Acting Director of Geotechnical Services
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TDI-Brooks International, Inc.
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PROFESSIONAL EXPERIENCE

- Director of Geochemical Services/Acting Director of Geotechnical Services, TDI-Brooks International, June 2019 - Present
- Senior Geoscientist, Fugro USA Marine, Inc., April 2017 - Present
- Geophysics Intern, Down Under Geosolutions, January 2017 - March 2017
- Staff Geoscientist, Fugro Marine Geoservices Inc., December 2015 - December 2016
- Geologists/GIS Analyst, Fugro Consultants, Inc., August 2011 - October 2013
- Intern, Lawrence Livermore National Laboratory, May 2010 - August 2010

KEY ACHIEVEMENTS - TDI BROOKS INTERNATIONAL

- Manage multi-million-dollar surface geochemical exploration campaigns offshore Brazil, West Africa
- Seek out new business opportunities, maintain current knowledge regarding industry trends
- Perform collaborative research with industry and academic partners
- Currently writing publication for piston core interpretive workflow with industry partner
- Lead internal efforts for collaborative work with UT on carbon capture and storage topics in the Gulf of Mexico
- Work in tandem with Quality Manager to bolster internal Quality Management System operations
- Responsible for oversight of data management from incoming acquired data to outgoing client data deliverables
- Oversee and direct interpretation of data and guide group of geoscientists and geochemists to deliver integrated scientific reports
- Write, edit, and provide overall guidance for reporting purposes
- Perform and publish on current research topics of interest both to the company and myself

KEY ACHIEVEMENTS - FUGRO USA MARINE, INC.

- Serve as technical lead for post-acquisition phase of seep exploration campaigns
- Oversee and direct interpretation of data and guide group of geoscientists and geochemists to deliver integrated scientific reports
- Write, edit, and provide overall guidance for reporting purposes
- Responsible for oversight of data management from incoming acquired data to outgoing client data deliverables
- Spearhead group involvement in internal corporate initiative to optimize seep exploration processes on a global basis

KEY ACHIEVEMENTS - DOWN UNDER GEOSOLUTIONS

- Performed seismic interpretation for top of salt velocity modeling.
- Performed geologic background research for Bay of Campeche, offshore Mexico.

KEY ACHIEVEMENTS - FUGRO MARINE GEOSERVICES, INC.

- Member of ship-board scientific crew for multiple offshore deployments
- Responsible for coordinating with survey department
- Interpret geologic conditions from processed survey data
- Experienced in subsurface geologic interpretation of seismic data for shallow hazards, including shallow gas, faulting, etc.
- Support project team, interface with clients regarding technical questions • Lead initiatives to collaborate with academia

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KEY ACHIEVEMENTS - FUGRO CONSULTANTS, INC.

- Performed analysis using a variety of datasets in ArcGIS (aerial imagery, bathymetric data)
- Use geospatial analysis to aid in creating coastal flooding model with estimated predicted damage assessments for various storm conditions
- Perform analysis of flooding model data to identify more vulnerable areas both spatially and temporally
- Analyze offshore bathymetric data for ground investigations for offshore wind turbines
- Created geologic cross sections, site maps, soil boring, and CPT sounding logs
- Aid in creating interpreted geologic sections for geohazards and site suitability studies
- Utilized basic ArcPy programming to automate geospatial analyses and processes
- Constructed framework and manage large datasets on engineering data
- Wrote computer code (VBA) to process large quantities of data

KEY ACHIEVEMENTS - LAWRENCE LIVERMORE NATIONAL LABORATORY

- Duties included: purifying U and Pu from bulk environmental samples, and measuring U and Pu isotope ratios by multi-collector ICP mass spectrometry
- Completed independent research project evaluating sequential extraction procedure to be used in conjunction with Pb isotopic analysis
- Presented poster in student research competition

FORMAL EDUCATION

- Texas A&M University, College Station, TX, M.S. Geology, 2014
- Texas A&M University, College Station, TX, B.S. Geology, 2008

PUBLICATIONS

- “Advances in Hydrocarbon Seep Sampling Strategies using Real-time Offshore Geochemical Analyses” J. McBee, S. Ingle, J. Gharib, E. Kassabji, and P. García del Real, American Association of Petroleum Geologists – Hedberg Conference: The Evolution of Petroleum Systems Analysis: Changing of the Guard from Late Mature Experts to Peak Generating Staff, March 2019.
- “Optimization of Hydrocarbon Seep Sampling Strategies through Integration of Geophysical and Geological Data with Real-Time Offshore Geochemical Analyses” P. García del Real, E. Kassabji, J. McBee (presenting author), J. Gharib, and S. Hulme, American Geophysical Union Annual Meeting, 2018.
- “Seafloor Hydrocarbon Seep Detection – Remote Sensing using Multibeam Echo Sounder (MBES) and Sub-bottom Profiler (SBP) Technologies” J. McBee, G. Mitchell, J. Gharib, Recent Advances in Remote Sensing Technologies for Hydrocarbon Exploration and Environmental Evaluation Workshop, Society of Exploration Geophysicists Annual Meeting, 2018.
- “Search for MH370: New Geologic Insights Revealed through the Integration of Multiple Geophysical Datasets” J. McBee, S. Ingle, J. Gharib, D. McConnell, Ocean Technology Conference, May 2018.
- “Search for MH370: New Geologic Insights Gained from Integrating Multiple Geophysical Datasets” McBee, S., Ingle, S., and Gharib, J., American Geophysical Union Annual Meeting, December 2017.
- “Use of Multibeam Echo Sounder (MBES) Backscatter and Bathymetry Data to Reveal New Insights into the Campeche Escarpment” McBee, J., Brumley, K., Mitchell, G., and Gharib, J., Ocean Technology Conference, May 2017.
- “Use of multibeam echo sounder backscatter and bathymetry data to reveal new insights into the Campeche Escarpment” McBee, J., Brumley, K., Mitchell, G., & Gharib, J. (2017). *The Leading Edge*, 36(4), 304-310.



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- “New Insights into the Campeche Escarpment Post-Chicxulub Impact Using Multibeam Echo Sounder (MBES) Bathymetry and Backscatter Data” McBee, J., Mitchell, G., Brumley, K., Gharib, J., and Paull, C.K., American Geophysical Union Annual Meeting, December 2016.
- “Identification And Distribution Of Anthropogenic And Natural Pb In A Former WWII Aerial Gunnery Range” McBee, J., Herbert, B., and Marcantonio, F., Geological Society of America Annual Meeting, November 2012.
- “Evaluation of a modified BCR sequential extraction procedure for environmental sample analysis of Pb by Quadrupole ICP-MS and MC-ICP-MS” Foster, J., Williams, R., and Gaffney, A. Student Research Showcase, July 2010.