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**PUBLICATIONS**

h-index: 34 (Google Scholar)

i10-index: 87 (Google Scholar)

h-index: 23 (Web of Science)

\* indicates graduate student advisee

+ indicates post-doc advisee or supervised staff

° indicates undergrad advisee

<sup>3</sup> indicated graduate student co-advisee

**Papers in Refereed Journals**

1. Deirieh, A., Cook, Chang, I.Y., Whittaker, M.L., Weigand, S., Keane, D., Rix, J., Germaine, J.T., Joester, D., **Flemings, P.B.**, 2017, Particle arrangements in clay slurries: The case against the honeycomb structure, *Applied Clay Science*, doi:http://dx.doi.org/10.1016/j.clay.2017.11.010.
2. Hillman, J.I.T., Cook, A., Daigle, H., Nole, M., Malinverno, A., Meazell, K., **Flemings, P.B.**, 2017, Gas hydrate reservoirs and gas migration mechanisms in the Terrebonne Basin, Gulf of Mexico, *Marine and Petroleum Geology*, 86, 1357-1373, doi:http://dx.doi.org/10.1016/j.marpetgeo.2017.07.029.
3. Luo, G., Hudec, M.R., **Flemings, P.B.**, <sup>+</sup>Nikolinakou, M.A., 2017, Deformation, stress, and pore pressure in an evolving supra-salt basin, *Journal of Geophysical Research: Solid Earth*, 122, doi:10.1002/2016JB013779.
4. <sup>\*</sup>Darnell, K.N., **Flemings, P.B.**, DiCarlo, D., 2017, Subsurface injection of combustion power plant effluent as a solid-phase carbon dioxide storage strategy, *Geophysical Research Letters*, Volume 44, 5521-5530, doi:10.1002/2017GL073663.
5. <sup>+</sup>Nikolinakou, M.A., <sup>+</sup>Heidari, M., Hudec, M.R., **Flemings, P.B.**, 2017, Initiation and growth of salt diapirs in tectonically stable settings: upbuilding and megaflaps, *American Association of Petroleum Geologists Bulletin*, V. 101, No. 6 (June 2017), pp. 887-905, doi:10.1306/09021615245.
6. <sup>\*</sup>Gao, B., **Flemings, P.B.**, 2017, Pore pressure within dipping reservoirs in overpressured basins, *Marine and Petroleum Geology*, 80, 94-111, doi:http://dx.doi.org/10.1016/j.marpetgeo.2016.11.014.
7. Casey, B., Germaine, J.T., **Flemings, P.B.**, Fahy, B.P., 2016, In situ stress state and strength in mudrocks, *Journal of Geophysical Research: Solid Earth*, 121, doi:10.1002/2016JB012855.
8. <sup>+</sup>Heidari, M., <sup>+</sup>Nikolinakou, M. A., Hudec, M. R., **Flemings, P. B.**, 2016, Geomechanical analysis of a welding salt layer and its effects on adjacent sediments, *Tectonophysics*, v. 683, p. 172-181, doi:10.1016/j.tecto.2016.06.027.
9. Adams, A.L., Nordquist, T.J., Germaine, J.T., and **Flemings, P.B.**, 2016, Permeability Anisotropy and Resistivity Anisotropy of Mechanically Compressed Mudrocks, *Canadian Geotechnical Journal*, doi:10.1139/cgj-2015-0596.
10. <sup>\*</sup>Cronin, M., **Flemings, P.B.**, <sup>+</sup>Bhandari, A., 2016, Dual-permeability microstratigraphy in the Barnett Shale, *Journal of Petroleum Science and Engineering*, Vol. 142, pp. 119-128, doi:10.1016/j.petrol.2016.02.003.
11. <sup>+</sup>You, K., DiCarlo, D., **Flemings, P.B.**, 2016, Impact of gravity on hydrate saturation in gas-rich environments, *Water Resour. Res.*, Vol. 52, pp. 1265-1285, doi:10.1002/2015WR017975.
12. <sup>+</sup>Heidari, M., <sup>+</sup>Nikolinakou, M.A., **Flemings, P.B.**, Hudec, M.R., 2016, A simplified stress analysis of rising salt domes, *Basin Research*, doi:10.1111/bre.12181.
13. <sup>+</sup>Nikolinakou, M.A., **Flemings, P.B.**, Hudec, M.R., 2016, Modeling of shales in salt-hydrocarbon systems, *Rock Mechanics Rock Engineering*, v. 49, p. 699-705, doi 10.1007/s00603-015-0863-2.

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16. †Bhandari, A., **Flemings, P.B.**, †Polito, P.J., \*Cronin, M.B., Bryant, S.L., 2015, Anisotropy and Stress Dependence of Permeability in the Barnett Shale, *Transport in Porous Media*, Vol. 108, Issue 2, pp 393-411, DOI 10.1007/s11242-015-0482-0.
17. Casey, B., Germaine, J.T., **Flemings, P.B.**, Fahy, B.P., 2015, Estimating Horizontal Stresses for Mudrocks under One-dimensional Compression, *Marine and Petroleum Geology*, 178-186, doi:10.1016/j.marpetgeo.2015.02.001.
18. **Flemings, P.B.**, Reece, J.S., Ditkof, J., Atkins, C.C., Sawyer, D., 2015, Data Report: Particle Size Analysis of Sediments in the Nankai Trough, IODP Expedition 319 Site C0009A. In Saffer, D., McNeill, L., Byrne, T., Araki, E., Toczko, S., Eguchi, N., Takahashi, K., and the Expedition 319 Scientists, Proc. IODP, 319: Tokyo (Integrated Ocean Drilling Program Management International, Inc.), doi:10.2204/iodp.proc.319.203.2015.
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1. Deirieh, A., Chang, I.Y., Whittaker, M.L., Weigand, S., Keane, D., Rix, J., Germaine, J.T., Joester, D., **Flemings, P.B.**, in review, Illuminating the micro-fabric of fine-grained sediments through cryo-freezing of clay slurries, *Geology*.
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