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**PUBLICATIONS**

h-index: 29 (Google Scholar)

i10-index: 70 (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. <sup>+</sup>Bhandari, A., **Flemings, P.B.**, <sup>+</sup>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.
2. 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.
3. **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.
4. <sup>+</sup>You, K., Kneafsey, T.J., **Flemings, P.B.**, <sup>+</sup>Polito, P.J., Bryant, S.L., 2015, Salinity-Buffered Methane Hydrate Formation and Dissociation in Gas-Rich Systems, *J. of Geophys. Res. Solid Earth*, 120, 643-661, doi: 10.1002/2014JB011190.
5. Luo, G., **Flemings, P.B.**, Hudec, M.R., Nikolinakou, M.A., 2015, The role of pore fluid overpressure in the substrates of advancing salt sheets, ice glaciers and critical-state wedges, *Journal of Geophysical Research*, DOI: 10.1002/2014JB011326.
6. \*Merrell, M.P., **Flemings, P.B.**, Bowers, G.L., 2014, Subsalt Pressure Prediction in the Miocene Mad Dog Field, Gulf of Mexico, *AAPG Bulletin*, v. 98, no. 2, p. 315-340, doi:10.1306/06251312156.
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9. \*Smith, A. J., **Flemings, P. B.**, Fulton, P. M., 2014, Hydrocarbon flux from natural deepwater Gulf of Mexico vents: *Earth and Planetary Science Letters*, v. 395, no. 0, p. 241-253, doi:10.1016/j.epsl.2014.03.055.
10. Smith, A. J., **Flemings, P. B.**, Liu, X., and Darnell, K., 2014, The evolution of methane vents that pierce the hydrate stability zone in the world's oceans: *Journal of Geophysical Research: Solid Earth*, DOI: 10.1002/2013JB010686.
11. \*You, Y., **Flemings, P.B.**, and Mohrig, D., 2014, Mechanics of dual-mode dilative failure in subaqueous sediment deposits: *Earth and Planetary Science Letters*, v. 397, no. 0, p. 10-18, doi: 10.1016/j.epsl.2014.04.024.

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15. Day-Stirrat, R.J., **Flemings, P.B.**, \*You, Y., and van der Pluijm, B.A., 2013, Modification of mudstone fabric and pore structure as a result of slope failure: Ursa Basin, Gulf of Mexico, *Marine Geology*, doi: <http://dx.doi.org/10.1016/j.margeo.2013.05.003>.
16. **Flemings, P.B.**, Polito, P.J., Pettigrew, T.L., Iturrino, G.J., Meissner, E., Aduddell, R., Brooks, D., Hetmaniak, C., Huey, D., Germaine, J.T., and IODP Expedition 342 Scientists, 2013, The Motion Decoupled Delivery System: A new deployment system for downhole tools is tested at Site U1402, New Jersey Margin, *Scientific Drilling*, v. 15, doi:10.2204/iodp.sd.15.07.2013.
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19. Boutt, D.F., Saffer, D., Doan, M., Lin, W., Ito, T., Kano, Y., **Flemings, P.B.**, McNeill, L.C., Byrne, T., Hayman, N.W., Moe, K.T., 2012, Scale dependence of in-situ permeability measurements in the Nankai accretionary prism: The role of fractures, *Geophysical Research Letters*, v. 39, p. L07302, doi: 10.1029/2012gl051216.
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1. \*Darnell, K., Andrews, M., **Flemings, P.B.**, Germaine, J.T., Polito, P., Brooks, D., 2012, The Temperature 2 Pressure Probe (T2P): Technical Manual.
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#### Manuscripts Submitted for Publication

1. Adams, A., Germaine, J.T., **Flemings, P.B.**, submitted, Permeability Anisotropy and Resistivity Anisotropy of Mechanically Compressed Mudrocks, Canadian Geotechnical Journal.
2. \*Darnell, K.N., **Flemings, P.B.**, and Bryant, S.L., submitted, Transient venting of submarine arctic methane hydrate systems from moderate warming at seafloor, Geophysical Research Letters