

Stanford



Michael Connolly

Ph.D. Student in Petroleum Engineering

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research is on coupled non-isothermal transport and phase behavior with application to thermal enhanced oil recovery. I am building an isenthalpic framework within AD-GPRS (Stanford's general purpose reservoir simulator). I also have an interest in the scale dependence of dispersion and miscible residual oil saturation in miscible gas floods.

LAB AFFILIATIONS

- Hamdi Tchelepi, SUPRI-B (9/1/2013)

Publications

PUBLICATIONS

- **Scale-Dependent Mixing for Adverse Mobility Ratio Flows in Heterogeneous Porous Media** *TRANSPORT IN POROUS MEDIA*
Connolly, M., Johns, R. T.
2016; 113 (1): 29-50