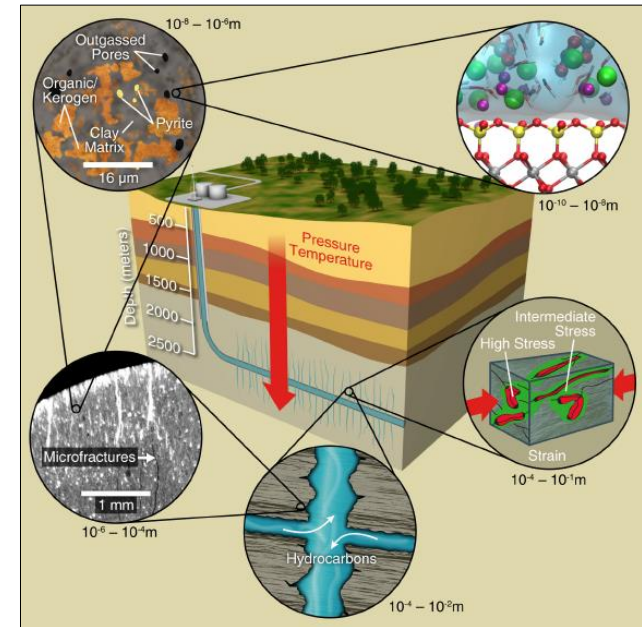


Center for Mechanistic Control of Water-Hydrocarbon-Rock Interactions
in Unconventional and Tight Oil Formations (CMC-UF)
Anthony R. Kovscek (Stanford University); Class: 2018-2022

MISSION: To seek fundamental mechanistic understanding to achieve control over the various non-equilibrium chemical and physical processes occurring in shale that increases hydrocarbon production while decreasing the amount of produced water, contaminants, and the number of wells drilled.



<https://cmc-uf.stanford.edu/>

RESEARCH PLAN

Conduct a bottom-up, multiscale, multiphysics, multiphase, and multidisciplinary investigation of transport processes in nanoporous shales incorporating reactions with aqueous and nonaqueous fracture fluids and the mechanics of geomaterials.



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