1145-35-1894 David Evans\* (daeva13@morgan.edu), 3103 Tyndale Avenue, Baltimore, MD 21214, and Mingchao Cai (mingchao.cai@morgan.edu), 1700 E Cold Spring Ln, Baltimore, MD 21251. Fast solvers for Biot model using a multiphysics reformulation.

Based on a multiphysics reformulation, the Biot model is split into a mixed form of linear elasticity model and a reaction diffusion model. We apply Finite element methods to discretize these models. Then, we discuss how to apply multigrid method to improve the efficiency of the solvers. (Received September 24, 2018)