

Abstract Submitted
for the DFD20 Meeting of
The American Physical Society

Viscous Transport in Eroding Porous Media BRYAN QUAIFE,
Florida State University, SHANG-HUAN CHIU, New Jersey Institute of Technol-
ogy, NICK MOORE, US Naval Academy — In groundwater flow, erosion leads to
a deforming porous media. Erosion creates conduits or channels of high porosity,
and these are directly related to the transport properties of particulates and con-
centrations through the eroded geometry. This talk will use high-order simulations
of both erosion and transport to analyze the flow through eroded porous media.

Bryan Quaife
Florida State University

Date submitted: 31 Jul 2020

Electronic form version 1.4