Abstract Submitted
for the MAR17 Meeting of
The American Physical Society

Electrode polarization and ion dynamics at the metal-ionic liquid interface[1] ZACHARIAH VICARS, TYLER COSBY, JOSHUA SANGORO, Univ of Tennessee, Knoxville — Charge transport at the metal-ionic liquid interface is investigated by broadband dielectric spectroscopy. The dielectric spectra at low frequencies are dominated by electrode polarization, a phenomenon that is shown to depend on the geometry of the sample, transport properties of the ionic liquids and material of the metal electrodes. An analytical model of electrode polarization accounting for these factors will be discussed.

[1]NSF DMR 1508394

Zachariah Vicars
Univ of Tennessee, Knoxville

Date submitted: 11 Nov 2016 Electronic form version 1.4