



Jeff Worne
Rice University

Title: “Charge transfer between metals and novel materials at the nanoscale”

Abstract: As new conductive materials are developed, making intelligent choices about contact metals becomes extremely important, and can strongly dominate charge transport and mobility. Further, as device size decreases, effects that are local to the metal-material interface become important considerations in device behavior. In this talk, I will discuss work on developing nanoscale transistors based on organic semiconductors and graphene, and the effects that contacts have on these materials.

Bio: Jeff grew up in California where he received his undergraduate from the University of California, Irvine. He has performed his graduate work at Rice University under the supervision of Doug Natelson. His research areas include the nanoscale interaction between metals and organic semiconductors and graphene, and he is interested in further exploring the nanoscale behavior of graphene. In his spare time, he enjoys fishing, ultimate frisbee, and running.

Tuesday - March 20, 2012
12:00 - 1:00pm, BRK 1001
(refreshments provided)