Characterization of Graphene Transferred onto Hydrated ”Soft” Substrates\textsuperscript{1} M. BLADES, P. VENDOLA, W. PIERRE, S. JEDLICKA, S.V. ROTKIN, Lehigh University — Graphene’s unique properties have recently found application in the fields of biosensing and bioimaging. Substrate selection is an important step in the use of graphene for this purpose; however, choices are usually limited to hard, dry surfaces such as silicon dioxide. Here we demonstrate a modified procedure, based on the H2 bubbling method, for transferring graphene to the soft hydrogel polyacrylamide. Widefield imaging and confocal Raman mapping were performed to characterize the quality of the transfer.

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