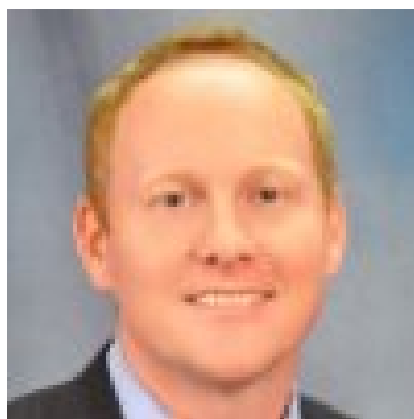


Materials McElvain Seminar

Monday, 3:30 pm
October 28, 2013

Room 1315
Chemistry Building

“Directed Self Assembly of Block Copolymers: Adventures on the Path from Lab to Fab”



Dr. Phil Hustad
Dow Electronic Materials

Directed self-assembly (DSA) of block copolymers (BCPs) is a promising technology for advanced semiconductor patterning, but significant hurdles remain for commercial implementation. The most widely studied material for DSA is poly(styrene-block-methyl methacrylate) (PS-PMMA), but the existing materials sets and processes have some limitations for high volume manufacturing. This presentation will highlight some of Dow's efforts to bring DSA materials from lab to fab. In particular, we will focus on development of practical processes utilizing more strongly segregated “high-c” block copolymers.