

## **Periodic Mesoporous Silicas as Supports for Late Metal Olefin Polymerization**

Christopher T. Burns, Department of Chemistry, University of Louisville

We are working to develop a new synthetic route to hydrolytically stable organosilica precursors for the formation of ordered mesoporous organosilicas with molecular-scale periodicity of the organic groups in the walls of the silica pores. We have synthesized 4,4'-bis(triallylsilyl)biphenyl using our new methodology and formed the corresponding PMO. We are currently targeting other large organic molecules and heterocycles with which to create organosilica precursors to allow access to a larger library of PMO precursors than is currently available.

