INORGANIC CHEMISTRY STUDENT SEMINAR

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Organometallic Methods for Boron Vertex Functionalization in Carboranes

Abstract: Boron-rich clusters are an attractive molecular scaffold for molecular materials. Their delocalized cage bonding, along with their high chemical and thermal stability offers the possibility for new boron-based materials. However, the development of such boron-based materials relies heavily on increasingly versatile functionalization methods. This seminar will detail our efforts in developing palladium-catalyzed cross-coupling reactions to derivatize carboranes (C2B10H12) into valuable synthons. During the second portion of the seminar will describe our discovered of an isomerization process, dubbed "cage-walking", and how this isomerization can be incorporated in Pd-catalyzed cross-coupling to increase the diversity of carborane-based synthons.

Wednesday, January 17, 2018
Cram Conference Room, 3440 Mol Sci
4:30 p.m.

Please contact bmaria@chem.ucla.edu (x54208) for additional information.
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