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***Functional Nanomaterials via Crystallization-Driven Living Self-Assembly***

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**Tuesday January 8<sup>th</sup>, 2013 1:00pm**  
Otto Maass room 10

Although chemical synthesis has evolved to a relatively advanced state, the ability to prepare well-defined self-assembled materials of controlled shape, size, and structural hierarchy is still in its relative infancy and currently remains the virtually exclusive domain of biology. In this talk the development of a promising new route to such materials, termed crystallization-driven living self-assembly, will be described. This approach was discovered as a result of an investigation of the solution self-assembly behavior of block copolymers with crystalline polyferrocenylsilane metalloblocks. It offers an interesting and potentially powerful new route to well-defined micelles and hierarchical materials with controlled dimensions and a variety of potential applications and appears to be extendable to a wide range of different crystalline core-forming blocks, including biorelevant and pi-conjugated materials.

**EVERYONE IS WELCOME!**

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