



# Prof. Sankaran (Thai) Thayumanavan

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## MATERIALS SEMINAR

Monday  
March 24

3:30 pm  
1315  
Chemistry

### *“Bottom-up Approaches to Stimuli-sensitive Supramolecular Nanoassemblies”*

Non-covalent encapsulation of guest molecules and their triggered release is of paramount importance in a variety of areas. Achieving such release characteristics would have significant implications in applications such as drug delivery and bio-sensing. For example, using proteins as trigger is interesting since protein imbalances are primary bases for most of the human diseases. Custom-designed macromolecules have been utilized for this purpose due to their unique ability to sequester guest molecules and release them in response to a specific biological trigger. The talk will outline examples of systems that are responsive to chemical, physical, and biological stimuli.