MIT Chemical Engineering Department

Fall 2017 Seminar Series

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Developing New Nanoporous Materials for Practical Applications Using Computational Modeling – How Close Is the Dream to Reality?

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Friday, October 6, 2017

3:00pm, refreshments at 2:45pm

66-110

Abstract:

Nanoporous materials such as zeolite or metal-organic frameworks have many potential applications, including as adsorbents and active components in membranes for chemical separations. The ability to use computational modeling in a genuinely predictive way to develop new nanoporous materials for targeted applications has been a long standing goal (dream?) in the research community. I will talk about how recent advances are bringing this goal within reach and what opportunities and barriers exist with these approaches in the future.