



School of
Engineering

CHEMICAL AND BIOLOGICAL ENGINEERING
SEMINAR ANNOUNCEMENT

DR. STEVEN SUIB

*“Applications of Porous Metal Oxides and Sulfide in
Adsorption, Batteries, and Catalysis”*

Dr. Steven Suib

Director, Institute of Materials Science Board of Trustees

Distinguished Professor

Chemistry Department, University of Connecticut

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SCITECH ROOM 136

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Director, Institute of Materials Science Board of Trustees
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Abstract

This presentation will focus on synthesis, characterization, and applications of novel mesoporous materials. Such mesoporous materials have crystalline walls, high thermal stability, and monomodal pore size distributions. These systems can be made for most elements throughout the periodic table. They have unique catalytic reactivity in a number of reactions including selective oxidations, total oxidations, coupling reactions, water splitting, one pot Wittig reactions, dehalogenations, and others. Some other applications include adsorbents for sulfur species, adsorption of oils and hydrophobic materials, and battery materials.