

Rutgers Catalysis Research Center

Presents a Seminar

Thursday, November 18th at 12Noon
Wright-Rieman Laboratory
Room 260

Michael R. Wasielewski

Department of Chemistry and Argonne-Northwestern Solar Energy Research
(ANSER) Center, Northwestern University

“Fuels from Sunlight: Storing Solar Energy to Meet Global Energy Needs”

Abstract: Solar fuels have enormous potential to furnish carbon-neutral energy to satisfy the expected doubling of global energy requirements over the next 50 years. They can potentially provide near-term liquid fuels that can enable nations to take full economic advantage of existing infrastructure, while delivering a clear path toward new fuels for the future. The major challenge lies in the fact that the science and engineering necessary to establish a viable solar fuels industry remains at best undeveloped and at worst non-existent. The overarching goal of current research directions is the development of efficient, cost-effective photovoltaic and photocatalytic systems to capture sunlight that are integrated with high performance catalysts for water splitting and reduction of CO₂ to liquid fuels. The development of these technologies requires solving major technical, systems, and economic challenges.

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Please visit the Rutgers Catalysis Research Center web site <http://catalysis.rutgers.edu>

Refreshments at 11:45 am

Courtesy of IAMDN and REI