



The Department of Chemical Engineering
Presents:

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Environmental Interfaces: Aerosols,
Nanomaterials and Indoor Surfaces

Zoom meeting link: <https://rochester.zoom.us/j/98875611576> 87849

ABSTRACT: The focus of this talk is on chemistry and impacts of environmental interfaces. Environmental interfaces are defined as any surface in equilibrium with its surrounding environment. From this broad definition, there are a myriad of different types of environmental interfaces that include atmospheric aerosols, nanomaterials and indoor surfaces. The *chemistry* of environmental interfaces puts an emphasis on molecular and nanoscale level interactions that occur in these inherently complex systems. Examples of the complexity of these interfaces and how a deeper understanding of their impacts can be obtained through molecular-based approaches are highlighted.

BIO: Vicki H. Grassian received her B.S. degree in Chemistry from the State University of New York at Albany. From there, she did her graduate studies at Rensselaer Polytechnic Institute (M.S., 1982) and the University of California-Berkeley (Ph.D., 1987). Following postdoctoral positions, she began her independent academic career at the University of Iowa as an Assistant Professor. At Iowa, Professor Grassian rose through the academic ranks and in 2010 was named the F. Wendell Miller Professor of Chemistry in the Department of Chemistry with appointments in the Departments of Chemical and Biochemical Engineering and Occupational and Environmental Health. She was also appointed the Director of the newly formed Nanoscience and Nanotechnology Institute by the Vice President for Research, a position she held for a decade and directed the Nanotoxicology Core of the NIEHS-funded Environmental Health Sciences Research Center in the College of Public Health. In 2013, Professor Grassian became co-Director of the Center for Aerosol Impacts on Chemistry of the Environment, a multi-institutional NSF-Chemical Center of Innovation headquartered at the University of California San Diego (UC San Diego) campus. In January 2016, she joined the faculty at UC San Diego as Distinguished Professor with appointments in the Departments of Chemistry and Biochemistry, Nanoengineering and Scripps Institution of Oceanography and holds the Distinguished Chair of Physical Chemistry within the Department of Chemistry and Biochemistry. In August 2016, she was appointed Associate Dean of Physical Sciences at UC San Diego.

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Via Zoom:

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