

Speaker Profile



Contact Details

Organization Name:
Dept. of Chemical Engineering
Carnegie Mellon University

Address:
5000 Forbes Ave.
Pittsburgh, PA 15213
USA

Phone: (412) 268-3848

e-mail: gellman@cmu.edu

Website:
[http://www.cheme.cmu.edu/
people/faculty/ag4b.htm](http://www.cheme.cmu.edu/people/faculty/ag4b.htm)

Professor Andrew J. Gellman

Professor and Head of Chemical Engineering
Carnegie Mellon University

Professor Gellman received a B.Sc. in chemistry from the California Institute of Technology in 1981 and a Ph.D. in chemistry from the University of California at Berkeley in 1985. He joined the faculty of Chemical Engineering at Carnegie Mellon in 1992 and is now Lord Professor of Chemical Engineering, Chemistry, and Materials Science. In January of 2003 he became head of the department of Chemical Engineering at Carnegie Mellon. In February 2008 he was named the first Consortium Director of the National Energy Technology Laboratory – Institute for Advanced Energy Solutions (NETL-IAES). He was instrumental in establishing the NETL-IAES, a research institute of the US DOE's National Energy Technology Laboratory.

Professor Gellman's independent research is in the area of surface chemistry with particular emphasis on catalytic surface chemistry, enantioselective chemistry on chiral surfaces and on tribology. He has developed a number of experiments and experimental methodologies for exploring fundamental aspects of surface chemistry in each of these areas. In the area of catalysis, his work has developed the use of substituent effects for probing the characteristics of the transition states to various elementary surface reactions. The most recent focus of his research group has been the study of enantioselectivity on naturally chiral metal surfaces. Professor Gellman has won a number of national and international awards for his research including: Fellow of the American Chemical Society (2011), Welch Foundation Lectureship (Texas - 2001), the Ipatieff Prize (American Chemical Society - 1998), Alfred P. Sloan Research Fellowship (A.P. Sloan Foundation 1991-93), Packard Fellowship in Science and Engineering (David and Lucile Packard Foundation - 1989-94), and the Distinguished New Faculty in Chemistry Award (Camille and Henry Dreyfus Foundation - 1986).