

Columbia University Department of Chemistry

Colloquia, Fall 2005

The Department gratefully acknowledges the support of the Industrial Associates Program.
All lectures take place in 209 Havemeyer at 4:30 p.m. Refreshments will be served before the lecture
8.26.05

September 8, 2005 *"New Chemical Tools for Selective Protein Modification."*
Professor Matthew Francis University of California, Berkeley Sponsor: Prof. Leighton

September 15, 2005 *"Charge Transport in Molecular Monolayers, Multilayers, and Thin Films."*
Dr. Cherie Kagan IBM T. J. Watson Research Center Sponsor: Prof. Brus/Nuckolls

September 22, 2005 *"Macromolecular Diffusion and Structural Fluctuations - Towards Spectroscopic Measurements of Biochemical Events in Living Cells."*
Professor Andrew Marcus University of Oregon Sponsor: Prof. Kaufman

September 29, 2005 *"The Dynamics of Electrons at Interfaces on Ultrafast Timescales."*
Professor Charles Harris University of California, Berkeley Sponsor: Prof. Eisenthal

October 6, 2005 *"How Initiation Factors Tune Speed and Accuracy in Initiation of Eubacterial Protein Synthesis."*
Professor Måns Ehrenberg Uppsala University Sponsor: Prof. Cornish

October 11, 2005 **Wyeth Lecture** – *"Enantioselective Catalysis of Cycloaddition Reactions."*
(Tuesday) **Professor Viresh Rawal** University of Chicago Sponsor: Prof. Nakanishi

October 20, 2005 *"A Functional Model for the Cysteine-Ligated Non-Heme Iron Enzyme Superoxide Reductase"*
Professor Julie Kovacs University of Washington Sponsor: WISC

October 27, 2005 *TBA*
Professor Lynne Regan Yale University Sponsor: Prof. Cornish

November 3, 2005 *"Dioxygen Activation at Low Valent Nickel."*
Professor Charles Riordan University of Delaware Sponsor: Prof. Parkin

November 7, 2005 **IAP Lecture** – *"Modular Polyketide Synthases: Biochemical and Structural Basis for the Programming of Macrolide Antibiotic Biosynthesis - Destiny or Free Will?"*
(Monday) **Professor David Cane** Brown University Sponsor: Prof. Nakanishi

November 10, 2005 *"Water, Proton, and Ion Transport: From Nanotubes to Biomolecular Machines."*
Dr. Gerhard Hummer National Institutes of Health Sponsor: Prof. Reichman

November 17, 2005 **Arun Guthikonda Memorial Lecture** – *"The Secret Life of the Genome."*
Professor Gregory Verdine Harvard University Sponsor: Prof. Breslow

November 21, 2005 **The Chandler Medal Lecture** – *"Few Molecule Spectroscopy."*
(Monday) **Professor Richard Zare** Stanford University Sponsor: Prof. Valentini

December 1, 2005 "Towards the Mechanism of Substrate Reduction by Nitrogenase: ENDOR
Characterization of Intermediates"
Professor Brian M. Hoffman Northwestern University Sponsor: Prof. George Flynn

December 8, 2005 "Physical Chemical Aspects of Cell Function"
Professor Michael Sheetz Columbia University, Biological Sciences Sponsor: Prof. Cornish