



Columbia University Department of Chemistry

Colloquia, Spring 2004



- January 22, 2004** *"From Normal Modes through New Modes Born in Chaos to Unimolecular Rearrangement."*
Professor Michael Kellman University of Oregon Sponsor: Prof. Valentini
- January 29, 2004** *"Chemical and Molecular Engineering Approaches to Decipher the Genome."*
Professor Jingyue Ju Columbia University, Chemical Engineering Sponsor: Prof. Turro
- February 5, 2004** *"Designing Peptides to Bind Heavy Metal Ions."*
Professor Vince Pecoraro University of Michigan Sponsor: Prof. Gibney
- February 12, 2004** *"Synthetic Control of Dendritic Nanostructures Both Within and Beyond Poly(amidoamine) Dendrimers."*
Professor Donald Tomalia Central Michigan University Sponsor: Prof. Turro
- February 19, 2004** *"P450BM-3: A Multidomain Dance to Facilitate Electron Delivery and Oxygen Activation."*
Professor Julian (Bill) Peterson UT Southwestern Medical Center at Dallas Sponsor: Prof. McDermott
- February 26, 2004** *"Ultrafast Electron Transfers on the Ground State Potential Energy Surfaces of Inorganic Mixed Valence Complexes and the NMR-like Coalescence of Vibrational Spectra."*
Professor Cliff Kubiak University of California, San Diego Sponsor: Prof. Norton
- March 4, 2004** *"Topological Effects on Photoinduced Electron Transfer Processes in Porphyrin-Fullerene Hybrids: Dyads, Rotaxanes, Catenanes and Pseudocatenanes."*
Professor David Schuster New York University Sponsor: Prof. Eisenthal
- March 11, 2004** *"Water at Hydrophobic Surfaces."*
Professor Geraldine Richmond University of Oregon Sponsor: Prof. Turro
- March 25, 2004** **2004 Gilbert Stork Lecture** *"Antibody Catalysis, Ozone, and Atherosclerosis."*
Professor Richard Lerner Scripps Research Institute Sponsor: Prof. Danishefsky
- April 6, 2004** **Brian Bent Memorial Lecture** *"Hydrogen Bond Dynamics: Ultrafast Infrared Vibrational Echo Correlation Spectroscopy."*
(Tuesday) **Professor Michael Fayer** Stanford University Sponsor: Prof. Adams
- April 8, 2004** *"Two-photon Imaging of Dendritic Spines and Cortical Microcircuits."*
Professor Rafael Yuste Columbia University, Biological Sciences Sponsor: Prof. Brus
- April 16, 2004** *"Strange Isotope Effects in Ozone Formation in the Stratosphere, with Possible Implications for the Earliest Solids in the Solar System."*
(Friday) **Professor Rudolph Marcus** California Institute of Technology Sponsor: Graduate Students
- April 22, 2004** *"The Elusive Path to Quantum Computation."*
Professor K. Brigitta Whaley University of California, Berkeley Sponsor: Prof. Pechukas
- April 29, 2004** *"Non-heme Bioinspired Oxidants: from Epoxidation to C-H Activation."*
Professor Dan Stack Stanford University Sponsor: Prof. Parkin
- May 6, 2004** *"Molecular Compasses and Gyroscopes: The Design, Preparation, and Testing of Crystalline Molecular Machines."*
Professor Miguel Garcia-Garibay University of California, Los Angeles Sponsor: Prof. Turro
- May 12, 2004** **BMS Mini-Symposium** TBA
(Wednesday) **Professor Robert Grubbs** California Institute of Technology Sponsor: Prof. Leighton
- May 20, 2004** **Wyeth/Columbia Workshop** Sponsor: Prof. Nakanishi

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