Summer, 2004 – Spring, 2005

Aug. 30	Claus Seidel, Ph.D., Institute for Physical Chemistry, Heinrich Heine University, Dusseldorf "Analysis of Molecular Structure and Dynamics by Multiparameter Fluorescence Spectroscopy"
Oct. 12	Chao Tang, Ph.D., NEC Laboratories America, Princeton, NJ, "The Yeast Cell Cycle Network Is Robustly Designed"
Oct. 19	Susan Ferro Novick, Ph.D., Yale University School of Medicine "Vesicle Traffic and Organelle Inheritance in Eukaryotes from High to Low"
Oct. 26	Laurie Parker, Ph.D., Kent/Kron Lab "Thiophosphorylation as akinase activity probe: a strategy for quantitative phosphoproteomics
Nov. 3	Gerhard Hummer Ph.D. , National Institutes of Health "Bridging the gap between theory and experiment: picosecond x-ray crystallography, membrane translocation, and single-molecule pulling"
Nov. 8	Craig M. Crews, Ph.D. , Yale University, "Chemical Genetics: Probing Cell Biology with Small Molecules"
Nov. 9	Min Li, Ph.D ., Johns Hopkins University School of Medicine, Membrane receptor trafficking: Genetic selection of subcellular zipcodes"
Nov. 16	Benoit Roux, Ph.D. , Weill Medical College, Cornell University, "Theoretical and computational models of biological channels"
Nov. 18	Tom Muir, Ph.D ., Rockefeller University, "The chemical biology of protein splicing"
Nov. 29	Johan Elf, Ph.D., Department of Cell and Molecular Biology, Uppsala University, "Modeling stochastic reaction diffusion kinetics"
Nov. 30	Ayyalusamy Ramamoorthy, Ph.D. , University of Michigan, "Structure, Dynamics, Topology and Membrane-disrupting Mechanism of Antimicrobial Peptides"
Dec. 7	Andres Colubri, Ph. D., Biochemistry & Molecular Biology, University of Chicago "What basic information is needed to fold a protein?"
Dec. 14	Neil Kelleher, Ph.D., Department of University of Illinois, Urbana/Champaign, "How a Chemist Needs Computer Science, Biology, and Engineering To Push the Limits of Modern Mass Spectrometry"
Jan. 5	Rachel Martin, Ph.D., UC Berkeley, "Solid state NMR methods development: From protein structure to ex-situ NMR"
Jan. 11	Duhee Bang , Kent Lab, "Toolkit Development for the Total Synthesis of Proteins & Application to the Dissection of Protein Stability"
Jan. 18	Young-Sam Lee, Mrksich Lab, "Toward a Cell-Free Model System of Focal Adhesion Assembly"
Jan. 25	Eric Potma, Ph.D., Harvard, "Biology Seen through the Windows of CARS"
Feb. 1	Michael Diehl, Ph.D., CalTech, "Engineering Functional Multiprotein
1 00. 1	Assemblies: Exploring Cooperative Biomotor Dynamics with Single Molecule Sensitivity"
Feb. 2	Amit Meller, Ph.D., Harvard, "Translocation and unzipping kinetics of DNA molecules using a nanopore"
Feb. 8	Thuc Le, Cluzel Lab, "RNA profiling in a single bacterium"

Feb 15 Mark Goulian, Ph.D., Penn, "Perturbing, imaging, and modeling twocomponent signaling in bacteria" Feb. 22 Joshua Coon, Ph.D., Univ. Virginia, Reshaping the proteomics landscape with ion/ion chemistry: new technology, differential analysis of phosphorylation, and the histone code Mar. 1 Chin Lin Guo, Ph.D., Harvard, "Long-range cooperativity in yeast mating polarization" Mar. 8 Jose Vilar, Ph.D., Computational Biology Center, Memorial Sloan-Kettering Cancer Center, "Multilevel Modeling of Cellular Networks" Mar. 28 William F. DeGrado, Ph.D., Department of Biochemistry and Biophysics, University of Pennsylvania, "Coming to Grips with Membranes by Design" Apr. 5 Dyche Mullins, Ph.D., Department of Cellular and Molecular Pharmaoclogy, UCSF, "Construction and Demolition of Actin Filaments and Networks" Alexander van Oudenaarden, Ph.D., Department of Physics, MIT, Apr. 13 "Information storage and propagation in genetic networks" Apr. 19 Paulo S.P. Silveira, M.D. Ph.D., Harvard School of Public Health and University of São Paulo (Brazil), "Length Adaptation of Airway Smooth Muscle" Apr. 26 William Gelbart, Ph.D., Department of Chemistry, UCLA, "How Viral Genomes Get into Host Cells" Apr. 29 Kazunari Taira, Ph.D., Department of Chemistry & Biotechnology, School of Engineering, The University of Tokyo and Gene Function Research Center, Natl. Inst. of Advanced Industrial Science and Technology, "Gene Discovery by Ribozyme and siRNA Libraries" Elena Lucchetta, Ismagilov lab, "Dynamics of Drosophila Embryonic May 3 Patterning Network Perturbed in Space and Time Using Microfluidics" Adarsh Pandit, Sosnick lab, "Native-like transition states in protein folding May 10 identified using metal binding sites and Psi-analysis" May 17 Jim Horn, Ph.D., Kossiakoff lab, "Mapping the binding pathway between human growth hormone variants and human growth hormone receptor" Eva Chi, Ph.D., Lee lab, "The Role of Cell Membrane in the Pathogenesis of May 24 Alzheimer's Disease" Jun. 1 Annual Seitz Lecture Ruedi Aebersold, Ph.D., ETH Zurich and Institute for Systems Biology,

Carlos Bustamante Ph.D., University of California, Berkeley University of California, Berkeley, "Single Molecule Observation of Hepatitis C Virus RNA

Erwin London, Ph.D. Departments of Biochemistry and Cell Biology and of Chemistry, SUNY Stony Brook, "Fluorescence Studies on Membrane Protein

"Systems Biology and Quantitative Proteomics"

Helicase at work"

Structure and Lipid Organization"

Jun. 9

Jun. 28