The Gordon-Kenan Summer School on Many Body Techniques in Chemical Physics June 16-28, 2002

Organized by Shaul Mukamel, University of Rochester and Rudolph A. Marcus, California Institute of Technology

The Gordon-Kenan Summer School on Many Body Techniques in Chemical Physics will be held at Roger Williams University, Bristol, Rhode Island. This should be a unique experience for graduate students and post-doctoral fellows.

List of Lectures:

- Walter Kohn, University of California, Santa Barbara
  Density Functional Theory; Concepts and Challenges
- Michael E. Fisher, University of Maryland
  Voyages in the Land of Ionic Fluids
- Hardy Gross, Institut fur Theoretische Physik, Berlin, Germany
  Time Dependent Density Functional Theory
- Karl Freed, University of Chicago
  Polymer Structure and Long Time Dynamics of Protein Folding
- David Reichman, Harvard University
  Molecular Dynamics of Glass Transitions
- Jose Onuchic, University of California at Santa Barbara
  Quantum and Classical Transport in Condensed Phases
- Jasper Knoester, Institute for Theoretical Physics, Groningen, The Netherlands
  Electronic Excitations in Molecular Aggregates
- Irwin Oppenheim, Massachusetts Institute of Technology
  Mode Coupling Theory, Glass Formation and Suspensions
- Branka Ladanyi, Colorado State University
  Liquid State Structure, Solvation and Dielectric Properties
- Jimmie Doll, Brown University
  Classical and Quantum Monte Carlo Techniques
- Carmela Valdemoro, Instituto Matematicas Fisica Fundamental, Madrid, Spain
  Reduced Density Matrices in Electronic Structure Theory
- Morrel Cohen, Rutgers University
  Density Functional Theory of Chemical Reactivity
- Ron Elber, Cornell University
  Slow Processes in Molecular Biophysics
- Hartmut Haug, Institut fur Theoretische Physik, Frankfurt, Germany
  Quantum Kinetics for Ultrafast Spectroscopy of Semiconductors
- Yoshitaka Tanimura, Institute for Molecular Science, Okazaki, Japan
  Path Integrals, Fokker Planck Equations and Stochastic Dynamics
- Vladimir Chernyak, Corning Inc.
  Time Dependent Variational Techniques for Bosons and Fermions using Generalized Coherent States and Cooperative Optical Response, Collective Excitations, and Energy Transfer in Molecular Structures

Graduate students, post-doctoral fellows and advanced undergraduate students are welcome to apply. Applications from women and minority groups are particularly encouraged. Some fellowships will be available subject to funding that is pending.

For further information and registration, please check the GRC Web site at http://www.grc.org/programs/2002/chemphys.htm