

**PROGRAM OF THE SEVENTH WEST COAST STATISTICAL
MECHANICS CONFERENCE**

**Department of Chemistry
University of California, San Diego
La Jolla, California
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The West Coast Statistical Mechanics Conference is held annually. The support of this year's conference by Rockwell International and the Chemistry Department of UCSD is gratefully acknowledged.

Bimodality and Long-Range Order in Ideal Bose Systems

U. Mohanty, University of California, San Diego, *B. Bagchi*, University of Chicago, and *J. H. Gibbs*, Amherst College

Statistical Calculation of Turbulent Flame Speed

Wm. T. Ashurst, Sandia Livermore

Dense-Fluid Detonation

M. Abdelazim, University of California, Davis

Rigorous Upper and Lower Bounds to the Equation of State for Hard Spheres by Means of Scaled Particle Theory

H. Reiss, University of California, Los Angeles

Solvent Effects in the Electric Double Layer

D. Henderson, IBM

Adsorption of Cationic Organic Dyes to DNA by Intercalation

D. Stigter and C. Bustamante, USDA

Dislocation Dynamics

A. J. C. Ladd, University of California, Davis

Molecular Dynamics Simulation of Nucleation in a Superheated Liquid at Fixed T and P

F. F. Abraham, IBM

On the Motion of an Ion Near a Conducting Wall

R. Mazo, University of Oregon

A Model of Brownian Dynamics for Colloidal Suspensions

E. Braun, UAM Mexico

- Molecular Dynamics Simulation of Flow Birefringence,
D. Kivelson and Michael Allen, University of California, Los Angeles
- Light Scattering as a Test of Generalized Hydrodynamics
P. J. Chappel, University of California, Los Angeles
- Inversely Restricted Sampling and Statistical Estimates of Graph Enumeration
L. R. Pratt, University of California, Berkeley
- Tricritical Phenomena in Ternary Mixtures of Hydrocarbons
J. Specovius, R. L. Scott and C. M. Knobler, University of California, Los Angeles
- Transport Coefficient in Nonlinear Deterministic Dynamics
H. D. I. Abarbanel, Lawrence Berkeley
- Statistical Mechanics of Random One-Dimensional Chains
R. Orback, University of California, Los Angeles
- Period Doubling in the Duffing Oscillator
S. Novak and R. Frehlich, University of California, San Diego
- Regression Law and the Renormalization of the Transport Coefficients
J. D. del Rio Correa and L. S. Garcia Colin, UAM Mexico
- The Effect of Diffusion on Chemical Reaction Rates in Solution and Membrances
J. Keizer, University of California, Davis
- Liquid State Dynamics of Alkane Chains: A Comparison of Experiments, Theory and Cinema
G. Evans, Oregon State
- Equilibrium Polymerization as a Critical and Tricritical Phenomenon
J. Wheeler, University of California, San Diego
- Correlation Function Analysis of Nonlinear Optical Experiments
J. Skinner, Stanford University
- Spectra of Random Networks
B. E. Eichinger, Washington
- Dissipative Contributions of Multiplicative Internal Fluctuations
V. Seshadri and K. Lindenberg, University of California, San Diego
- Molecular Dynamics Calculation of Equilibrium Coefficients for Formation of Small Water Clusters
W. Swope, Stanford University
- Debye Screening for Finite Size Ions
D. DeWitt, Lawrence Livermore