

Twelfth West Coast Statistical Mechanics Conference

IBM Almaden Research Center, San Jose, California

June 10, 1986

Final Program

Chairman: H. Morawitz

- J. A. Barker (International Business Machines). Pair and Many-Body Interactions in Dense Rare-Gas Systems
- S. D. Tuljapurkar (Stanford University). Entropy and Convergence to Equilibrium in Markov Systems
- D. Honeycutt (Stanford University). Computer Simulations of Melting and Freezing of Small Clusters
- F. H. Ree (Lawrence Livermore Laboratory). Melting Lines of Rare Gas Solids by a New Theoretical Method
- S. Smithline and A. Haymet (University of California, Berkeley). Freezing of Simple Mixtures
- D. A. Young (Lawrence Livermore Laboratory). Diatomic Melting Curves
- J. Stephenson (University of Alberta). Partition Function Temperature Zeros for the Two-Dimensional Ising Model

Chairman: W. Hoover

- M. Wilson (University of California, Berkeley) and L. Pratt (Los Alamos). Molecular Dynamics of Ions in Water
- A. Trapani and H. L. Strauss (University of California, Berkeley). The Orientation of NH_3D^+ in Tutton Salts: Order-Disorder Transitions
- J. Wheeler (University of California, San Diego). Coexistence Curves of the Generalized Barker-Fock Model by Exact Series Expansions
- H. E. Dewitt and F. J. Rogers (Lawrence Livermore Laboratory). Free Energy of Screened Strongly Coupled Plasmas in the HNC Approximation
- D. Stigter (University of California, San Francisco and University of

California, Berkeley). Charge Effects in Dilute Monolayers of Ionic Surfactants Spread at Oil/Water Interfaces

M. C. J. Goh (University of California, Los Angeles). Interfacial Tension Measurements Near a Tricritical Point

Chairman: J. A. Barker

B. E. Eichinger (Washington). Generating Function Methods for Macromolecules at Surfaces

B. Whaley (University of California, Berkeley). Quantum Diffusion of Hydrogen on Metal Surfaces

D. S. Cannell (University of California, Santa Barbara). Aggregation and Gelation of Colloidal Silica

K. Ding (Stanford University). Computer Simulation of Amorphous MoGe Alloys

A. Ladd (Lawrence Livermore Laboratory). A Poor Man's Molecular Dynamics

W. G. Hoover (Lawrence Livermore Laboratory). Irreversibility and Steady States via Nonequilibrium Molecular Dynamics

Chairman: J. Wheeler

G. DeLorenzi (Lawrence Livermore Laboratory). Non-equilibrium Molecular Dynamics Simulation of Shockwaves: A New Approach

W. T. Ashurst (Sandia National Laboratory, Livermore). Statistical Distribution of Strain and Vorticity in Turbulent Flow

B. Holian (Los Alamos). Numerical Test of the Liouville Equation

C. Garrod (University of California, Davis). Thermodynamic Limit for Nonequilibrium Systems

G. T. Evans (Oregon State). Correlated Recollisions: Chattering in Two Dimensions

Z. Y. Chen (University of California, Los Angeles). Elastic Antiferromagnets on a Triangular Lattice