

Eleventh West Coast Statistical Mechanics Conference

Tuesday, 11 June 1985

FINAL PROGRAM

- 8:00 a.m. Registration, California Room, UCLA Faculty Center
9:00 a.m. Welcome by Provost Raymond L. Orbach

FLUIDS

(W. M. Gelbart, presiding)

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| 9:05 a.m. | <u>Z. Elkoshi, H. Reiss,</u>
and A. D. Hammerich
(UCLA) | One-dimensional rigorous hole
theory of fluids: Internally con-
strained ensembles |
| 9:20 a.m. | <u>H. E. Dewitt</u> and
F. J. Rogers
(Livermore) | Asymptotic high-density limit
solution of the HNC equation |
| 9:35 a.m. | <u>D. Henderson</u>
(IBM San Jose)
and M. Plischke
(Simon Fraser U.) | Correlation functions of in-
homogeneous fluids |
| 9:50 a.m. | <u>R. She</u> and G. T. Evans
(Oregon State U.) | Orientalional correlations in
hard convex body fluids: A
scaled particle theory ap-
proach |
| 10:05 a.m. | <u>B. Wilson</u>
(Livermore) | Cluster coefficient relations using
umbral calculus |

DYNAMICS

(D. Kivelson, presiding)

10:35 a.m.	<u>A. L. Kholodenko</u> (Clemson)	Real-space renormalization group method for the diluted Gaussian model and its relations to the problem of diffusion and conduction near the percolation threshold
10:50 a.m.	<u>J. Keizer</u> (U. C. Davis)	The electromotive force at non-equilibrium steady states
11:05 a.m.	K. Lindenberg and <u>D. Brown</u> (U. C. San Diego)	Excitation dynamics in a two-level system embedded in a condensed medium
11:35 a.m.	<u>D. A. Young</u> (Livermore)	Theory of the aluminum shock equation of state to 10^4 Mbar
11:50 p.m.	<u>H. D. Ou-Yang</u> (UCLA)	Nonlinear acoustically induced birefringence in gold sols
12:05 p.m.	<u>R. McGraw</u> and D. Rogovin (Rockwell International)	Transient response of liquid suspensions to laser gratings

PHASE EQUILIBRIA

(C. M. Knobler, presiding)

1:30 p.m.	<u>P. D. Gujrati</u> (U. of Akron)	Novel phase diagram for self-avoiding walks
1:45 p.m.	<u>J. Stephenson</u> (U. of Alberta)	Ising model partition function temperature zeros on anisotropic planar lattices
2:00 p.m.	<u>Z.-Y. Chen</u> (UCLA)	Elastic effects on magnetization and the effective Poisson ratio
2:15 p.m.	<u>M. C. J. Goh</u> (UCLA)	Phase equilibria near tricritical points
2:45 p.m.	<u>A. J. B. Haymet</u> (U. C. Berkeley)	Freezing of the Lennard-Jones liquid

POLYMERS

(R. L. Scott, presiding)

3:15 p.m.	<u>J. C. Wheeler and R. Corrales</u> (U. C. San Diego)	Polymeric rings in sulfur and its solutions
3:30 p.m.	<u>V. Privman</u> (Cal. Tech.)	Universal critical amplitudes in polymer scaling
3:45 p.m.	<u>Y. Rabin</u> (La Jolla Inst.)	Statistical thermodynamics of polymers in uniaxial environments
4:00 p.m.	<u>H. H. Saab</u> (Avery Internat) and P. J. Dotson (Los Alamos)	Nonequilibrium dynamics in macromolecular fluids
4:15 p.m.	<u>B. H. Zimm</u> (U. C. San Diego)	Breakdown of detailed balancing with a macromolecule