Program of the Tenth West Coast Statistical Meeting

IBM Research Laboratory, San Jose

June 12, 1984

W. G. Hoover, A. J. C. Ladd, B. Moran, and R. Grover (Livermore)—
"Homogeneous heat flow and viscosity simulations for inverse power
potentials"

H. Reiss, A. Hamnerich (UCLA), and E. W. Montroll (Rochester)—
"Statistical mechanics of traffic; entropy in a nonphysical systems"

G. A. Chapela and S. Martinez-Casas (UAM Mexico)—"Flexibility of linear
molecules via molecular dynamics"

S. Martinez-Casas and *G. A. Chapala* (UAM Mexico)—"Molecular
dynamics of discontinuous potentials"

E. Loh, Jr., D. Scalapino (UCSB), and P. Grant (IBM)—"Monte Carlo
study of the quantum XY model in two dimensions"

P. Phillips (UCB)—"Electron localization in a hard sphere fluid"

D. Ceperley (Livermore)—"The simulations of liquid and solid helium"

D. C. Mattis (Utah)—"Transfer matrix in the plane—rotator model"

F. del Rio (UAM Mexico)—"Recent advances on the theoretical equation of
state"

M. Plischke (SFU) and *D. Henderson* (IBM)—"Some results of the Percus–
Yevick theory for a system of hard spheres with density inhomogenities"

H. DeWitt and F. Rogers (Livermore)—"Bridge functions and accurate
integral equations for liquid state theory"

D. A. Young (Livermore)—"A new variational fluid theory with inverse
twelfth power reference potential"

Y. Rosenfield (UCLA)—"Modified HCN theory with minimized free energy
as related to a variational iterative solution of the exact equations for
the fluid pair structure"

A. Haymet (UCB)—"Phase transitions in a third-rank tensor Hamiltonian:
Application to systems with tetrahedral symmetry"

L. Mier y Teran, R. Saavedra-Barrera (UAM Mexico), M. Lozada-Cassou,
and D. Henderson (IBM)—„Temperature dependence of the differential
capacitance in the electrical interface"

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E. Gonzalez-Tovar (UAM Mexico), *M. Lozada-Cassou*, and D. Henderson (IBM)—"The electrical double layer in cylindrical geometry"

D. *Stigter* (UCB)—"The expansion of T7 DNA coils at low ionic strength"

R. B. *McBroom* and D. A. McQuarrie (UCD)—"The force between two charged walls containing unequal sized ions using modified Gouy–Chapman theory"

J. C. *Rasaiah* (NSF)—"Dipolar ordering near an electrified wall"

M. *Schoebinger* and F. Abraham (IBM)—"Energetics of domain walls for krypton on graphite"

A. *Kerstein* (Sandia Livermore)—"Scaling in contact propagation"

J. M. *Kowalski* (UT Arlington), B. Miller (TCU), and S. Sharma (UT Arlington)—"On the light particle self-trapping in gases"

J. *Stephenson* (Alberta)—"Finite size effects in the Bose–Einstein gas"

E. *Cortes*, K. Lindenberg, and B. West (UCSD)—"Statistical properties of quantum systems"

B. *Ashurst* (Sandia Livermore)—"Statistical effects of turbulent flame motion"

A. K. *Macpherson* (Lehigh) and Y. Carigan (USA AMCCOM)—"Hard sphere equation of state in a channel"

A. J. C. *Ladd* and W. G. Hoover (Livermore)—"A viscous analog of the Lorentz gas"

J. C. *Rainwater* and D. G. Friend (NBS Boulder)—"Transport property calculations for moderately dense gases using realistic potentials"

G. H. *Fredrickson* and H. C. Anderson (Stanford)—"A kinetic Ising model of the glass transition"

B. *Fain* and S. M. Lin (Arizona State)—"Nonequilibrium phonons in nonradiative rate processes"

E. *Fernandez-Fassnacht* (UAM Mexico), C. M. Knobler, R. M. Scott (UCLA), and A. G. Williamson (U. Christchurch New Zealand)—"Some experimental results near a tricritical point"

F. H. *Ree* (Livermore)—"Possible effects of fluid–fluid phase separations on detonation properties of condensed explosives"

L. L. *Lee* (Oklahoma)—"The BBGKY equation in interaction site model for polyatomic molecular fluids"

Y. *Rabin* (La Jolla Inst.)—"On universality of ideal Zimm dynamics of polymers in extensional flows"