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Program of the 5th Midwest Thermodynamics Symposium

Hartland, Michigan

May 17–19, 1992

Following is a list of talks presented at the 5th Midwest Thermodynamics Symposium. This annual meeting brings together people from physics and engineering academic disciplines as well as industrial researchers who have an interest in thermodynamics and statistical mechanics. Note that all collaborators are not necessarily listed. Anyone who is interested in communicating with a speaker and requires a more complete address may obtain it by writing to me.

The next meeting will be held in Houghton, Michigan, May 23–25, 1993. The meeting chairman will be Michael Wertheim, Michigan Technological University, Houghton MI 49931-1295, (906) 487-2088. If you are interested in further information about this meeting, please contact him.

Robert M. Ziff

Chairman, 1992 Meeting
Department of Chemical Engineering
University of Michigan
Ann Arbor, Michigan 48109-2136

Fluids of hard convex molecules
Michael Wertheim, Michigan Technological University

Non-equilibrium molecular dynamics simulation of transport properties and non-Newtonian rheology
Peter T. Cummings, University of Virginia

Molecular thermodynamics of fluids in porous media and partially quenched glasses
William Madden, Wayne State University

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Multipolar electrolyte solution models
John Eggebrecht, Gunther H. Peters, and Pelin Ozler, Argonne National Laboratory

Kinetics of swelling of a cross-linked elastomer or gel
Giuseppe Rossi, Ford Motor Company

Influence of monomer structure and compressibility on neutron scattering and thermodynamic properties of polymer fluids: Application to binary blend and diblock copolymer systems
Jacek B. Dudowicz and Karl F. Freed, University of Chicago

Monte-Carlo calculations of wall-to-random-bed view factors: Hard spheres and fibers
J. W. C. Tseng, *Y. Xia*, and William Strieder, University of Notre Dame

Use of velocity of sound in predicting *PVT* relations of dense fluids
Mohammed R. Riazi and G. Ali Mansoori, University of Illinois, Chicago

Thermodynamic analysis of mixtures which contain associating species
Scott W. Campbell, University of South Florida

Attractive force effects in chain molecular fluid mixtures
J. Richard Elliott Jr. and *V. J. Vasudevan*, University of Akron

Experimental and equation-of-state results for associating mixtures
S. J. Suresh and J. Richard Elliott, Jr., University of Akron

VLE calculations of associating Lennard-Jones fluids via the Gibbs ensemble
Tsangaris Dimitrios, University of Wisconsin

Spectroscopic study of local compositions in supercritical fluid mixtures
J. Bryan Ellington and Joan F. Brennecke, University of Notre Dame

Supercritical water oxidation—Pathways and kinetics
Phillip Savage, University of Michigan

Comparison of lattice fluid models in correlating gas–polymer solubility data
Ashok Garg, Seechol Kim, and Esin Gulari, Wayne State University

Thermochemical predictions in the industrial environment
J. R. Downey, D. J. Frurip, *Marabeth S. LaBarge*, S. K. Gupta, A. N. Syverud, and R. J. Zondlak, Dow Chemical Co.

Thermodynamic model for mechanical tension control of neurite growth and degrowth
Robert E. Buxbaum and Stephen R. Heidemann, Michigan State University

Coalescence and percolation during non-equilibrium growth
Phillip Duxbury, Michigan State University

Fluctuations in fragmentation processes
Tim Newman, University of Illinois
Fragmentation in spin glasses and phonon cascades
Sergei Esipov, University of Illinois
A thermodynamic-like critical point in a kinetic model of catalysis
Ben Brosilow and Robert Ziff, University of Michigan
Towards a self-consistent kinetic theory for liquids
John Karkheck, GMI Institute
Adsorption model for large pressure ranges
Carl. T. Lira, Michigan State University
Universality of critical states theory for classical equations-of-state
Akanni S. Lawal, BP Exploration, Alaska