

SANTA FE, U.S.A.
AUGUST 21ST - 21TH, 2000



Figure 1:
Burros (Courtesy Museum of New Mexico)



Figure 2:
Santa Fe's historic La Fonda was built in 1922 and is known for its award-winning Spanish pueblo style.

The "9th International Conference on Discrete Simulation of Fluid Dynamics" was held in Santa Fe, New Mexico, USA, August 21st through 24th, 2000. This conference brought together leading researchers with broad fluid dynamics backgrounds to address the theoretical, modeling, and simulation issues of discrete simulation. The conference objectives were to provide a forum to exchange and to stimulate new ideas cross disciplines and to formulate new and challenging problems that will have important physical and industrial impact. The subject of this conference was the microscopic and mesoscopic modeling and simulation of complex fluid flow phenomena, including turbulence, multi-phase flows, chemically reacting flows, combustion, non-Newtonian flows, and other complex fluid flows. The conference also covered several research frontiers, including quantum computing, granular fluids, and molecular dynamics. Additional topics were theories of mesoscopic modeling and many applications of the lattice gas and lattice Boltzmann methods. The proceedings from this conference will be published in 2001 in the Journal of Statistical Physics.

Highlights of the conference included multiphase flows and phase transitions. On the forefront of multi-fluid flows, there were studies of Rayleigh-Taylor instability and associated chaotic mixing, bubbly flow and associated clo-

sure laws, suspension flow of many particles, liquid crystal hydrodynamics, etc. On the phase-transition front, were studies of solidification and interdendritic flows, spinodal decomposition of binary flows, and micro channel flows near the critical point.

X. He, G.D. Doolen, S.Y. Chen, D Noble, S. Succi, and J.-P. Boon

Xiaoyi He
Group T-13, MS B213
Los Alamos National Lab.
Los Alamos, NM 87545
voice: (505)665-6823
fax: (505)665-3003
xyh@t13.lanl.gov

Info: The current La Fonda was built in 1922 on the site of the previous inns. In 1925 it was acquired by the Atchison, Topeka Santa Fe Railroad which leased it to Fred Harvey. For more than 40 years, from 1926 to 1968, La Fonda was one of the Harvey Houses, a renowned chain of fine hotels. Since 1968, La Fonda has been locally owned and operated and has continued the same tradition of providing warm hospitality, excellent service and modern amenities while maintaining historic integrity and architectural authenticity.

7th European School of Rheology

Short Course on

RHEOLOGICAL MEASUREMENTS

APPLICATION TO POLYMERS, SUSPENSIONS AND PROCESSING

Organised by the:



European Society of Rheology

BGR

Belgian Group of Rheology

for the 4th time hosted by the K.U. Leuven, Department of Chemical Engineering

September 10-14, 2001

Aim

The aim of the course is to give practicing engineers and chemists, as well as young PhD students an understanding of:

- the fundamentals of rheology
- principles of measurements
- practical experience
- fundamentals of molecular modelling
- introduction of computational rheology
- applications to problem solving

Faculty

Prof. G. G. Fuller, Stanford University (USA)
Prof. R. Keunings, Universit Catholique de Louvain (B)
Prof. C.W. Macosko, University of Minnesota (USA)
Prof. G. Marrucci, University of Naples (I)
Prof. H.E.H. Meijer, T.U. Eindhoven (NL)
Prof. J. Mewis, K.U. Leuven (B)
Prof. P. Moldenaers, K.U. Leuven (B)
Prof. J. Vermant, K.U. Leuven (B)

For more information on the course or to request a detailed program brochure, see the web-page at: <http://www.cit.kuleuven.ac.be/cit/ltrk/course.html> or contact Peter Van Puyvelde e-mail: peter.vanpuyvelde@cit.kuleuven.ac.be —tel: +32 (0)16-32 23 57 —fax: +32 (0)16-32 29 91