

WORKSHOP ON MULTIPHASE FLOW RESEARCH

Date: January 30, 2013

Venue: R440, Astro-Math Building, NTU

The modeling of multiphase flows is relevant in numerous areas of science and engineering. This workshop will feature talks by researchers that present recent progress in the multiphase flow research ranging from granular to turbulent cavitating flows.

This workshop is supported in part by the National Center for Theoretical Sciences (Taipei office), National Science Council, Taiwan.

Schedule

10:00-10:50 Prof. Yang-Yao Niu (AE, Tamkang U.)

Numerical Formulation for Simulations of Two-Phase Flows with Condensation-Evaporation Effects

11:00-11:50 Prof. Chien-Chou Tseng (MEM, NSYSU)

Modeling Turbulent Cavitating Flows: Homogeneous Theory Aspect

12:00-14:00 *Lunch*

14:00-14:50 Prof. Fu-Ling Yang (ME, NTU)

The μ -I Rheology Law for Dense Granular Flows

15:00-15:50 Prof. Yi-Ju Chou (IAM, NTU)

Modeling Two-Phase Fine Suspension in Environmental Flows

15:50-16:10 *Tea break*

16:10-17:00 Prof. Keh-Ming Shyue (MATH, NTU)

Relaxation Models and Schemes for Compressible Multiphase Flows with Interfaces, Cavitation, and Evaporation Waves

■ Contact: Keh-Ming Shyue, Department of Math, National Taiwan University
[shyue@ntu.edu.tw]

