

## 6<sup>th</sup> Int. Congress on Industrial and Applied Mathematics (ICIAM 07)

16–20 July 2007 ETH Zürich

INDUSTRY DAY - July 17

Simulating Flows in Food Processing (E. J. Windhab)

### INVITED LECTURE:

MM Hall

**8.45 – 9.30 Roland Glowinski**, University of Houston, USA

*“CFD, nonsmooth mechanics”*

### SESSION 1: Multiphase Flows and Non-Newtonian Liquids

HG G 60

**11.15 – 11.45 Kathleen Feigl**, Michigan Tech, USA

*“Deformation, orientation and breakup of droplets in flows”*

**11.45 – 12.15 André Braun**, ETH Zürich, Switzerland

*“Relationship between Rheology and Microstructure of Emulsion Systems in an Extrusion Flow”*

**12.15 – 12.45 Peter Fischer**, ETH Zürich, Switzerland

*General Session 1 Topic Discussion*

### SESSION 2: Mixing and Turbulent flows

HG G 60

**15.45 – 16.15 Philippe A. Tanguy**, Ecole Polytechnique Montreal, Canada

*“Viscous and NonNewtonian Mixing Processes – What can CFD bring?”*

**16.15 – 16.45 L. Moser**, ProCeng Moser GmbH, Switzerland

*“Design of static mixing reactors by CFD”*

**16.45 – 17.15 Franz Tanner**, Michigan Tech, USA

*“Modeling and simulation of sprays in food processing”*

**17.15 – 17.45 Peter Fischer**, ETH Zürich, Switzerland

*General Session 2 Topic Discussion*