IUTAM SYMPOSIUM

ON MULTIPHASE FLOWS WITH PHASE CHANGE: CHALLENGES AND OPPORTUNITIES

8th – 11th Dec, 2014

Venue

About the Symposium:

Multiphase flows with phase change can be observed in glacier melts, ocean-atmosphere interaction and the formation of cracking patterns during drought. The second mentioned is crucial from the perspective of climate change. There are many other situations, such as flows in boilers, condensers, distillation columns, and nuclear reactors, fouling in heat exchangers in oil-refineries, spray combustion, coating technology, and food processing, where studying phase change in multiphase flows are important. While multiphase flows have been well- studied, those accompanied by phase change have received far less attention. In the last past few decades, these problems have been modeled extensively using lubrication theory. There are a few other studies that have done some fairly sophisticated modeling and simulation of multiphase flows with boiling for nuclear reactors. The time is therefore right to assemble a team of world experts in theory, computation and experiment in multiphase flows to define the scope of the work that must be carried out in multiphase flows with phase change over the next few years, going well beyond the current-state-of-the-art; this is the goal of the proposed meeting. The audience will include students and faculty working in this area from many different countries.

Important Dates:

Abstract Submission	**15th April, 2014**
Acceptance Notification	**15th June, 2014**
Conference	**8th – 11th Dec, 2014**

Local Advisory Committee:

Prof. V. Eswaran
Prof. Rama Govindarajan
Prof. Kirti Chandra Sahu

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IUTAM International Union of Theoretical and Applied Mechanics

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

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Prof. Omar K. Matar
Prof. Eckart Meiburg
Prof. Andrea Prosperetti
Prof. Kirti Chandra Sahu
Prof. Stéphane Zaleski

Invited Speakers (Confirmed)

Prof. Vladimir Ajaev
Prof. S. Balachandar
Prof. Marianne M. Francois
Prof. Ross Griffiths
Prof. Ellen Longmire
Prof. Amala Mahadevan
Prof. Prabhu R. Nott
Prof. Kathleen J. Stebe
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