

Microfluidics in the 21st Century

Tuesday November 12, 2002

- 9:30–10:00 *Check-In/Light Breakfast (Hosted by IPAM)*
- 10:00–11:00 **Chih-Ming Ho** (UCLA)
Nano and Micro fluidics - A twilight zone in Fluid Dynamics
- 11:00–12:00 **Yu-Chong Tai** (California Institute of Technology)
Integrated Parylene Microfluidics
- 12:00–2:00 *Lunch (on your own)*
- 2:00–3:00 **Abraham Stroock** (Harvard University)
Controlling Transport in Microchannels
- 3:00–3:30 **Susan J. Muller** (University of California at Berkeley)
Measurements of velocity fields and macromolecule conformation in microfluidic systems
- 4:00–5:30 *Tour of Laboratory*

Wednesday November 13, 2002

- 9:30–10:00 *Continental Breakfast*
- 10:00–11:00 **Chang-Jin Kim** (UCLA)
- 11:00–12:00 **George M. Homsy** (UCSB)
Novel Marangoni Flows
- 12:00–1:30 *Lunch (Hosted by IPAM)*
- 1:30–2:30 **Patrick Tabeling** (Ecole Normale Supérieure, France)
Aggregation, Patterns, Chemical Kinetics in Microfluidics
- 2:30–3:30 **Anna Balazs** (University of Pittsburgh)
Mixing and Periodic Droplet Formation in Chemically Patterned Microchannels
- 3:30–4:00 *Break*
- 4:00–5:00 **Ali Nadim** (Keck Graduate Institute)
Free Solution Capillary Electrophoresis of DNA in Microfluidic Chips: Experiment and Modeling
- 5:00–12:00 *Conclusion*



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