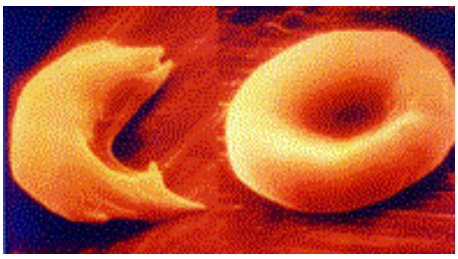
Complex Fluids 2000



Soft Interfaces Under Stress

Salve Regina University,
Newport, Rhode Island, August 13—18, 2000
Tom Witten, Chair **Armand Ajdari**, Cochair

Monday AM

7:30-8:30	breakfast, Miley Hall
8:30-9	informal exchange, Miley Hall
9:00	photo, behind Ochre Court
9:25	session, O'hare 2nd floor *free liquid interfaces: singular flows* ***Guyon***
9:30	**Nagel** *Selective Withdrawal and Encapsulation in Fluid Threads*
10:15	discussion
10:30	**Shin** *The Formation of Polymer Nanofibers from Fluid Instabilities in High Electric Fields*
11:15	discussion
11:30	coffee
11:50	**Mahadevan** *Buckling of Newtonian Fluids: folding, coiling and wrinkling*
12:35	discussion
12:50-1:30	lunch

Tuesday AM

7:30-8:30	breakfast
8:55	session *distorted droplets and bubbles* ***Cates***
9:00	**Stone** *Foam drainage: Experiments, models, and the influence of surface rheology*
9:45	discussion
10:00	**Mason** *Shear History Effects in Emulsification*
10:45	discussion
11:00	coffee
11:20	**Frisken** *Vesicle formation by extrusion through micropores*
12:05	discussion
12:30-1:30	lunch

Sunday PM

2—11	arrival and registration, O'hare 1st floor
6:00	dinner
7:25	session, O'hare 2nd floor *liquid interfaces, patterned wetting, electrofluidics* ***Pincus***
7:30	**Witten** welcome and introduction
7:40	**Abbott:** *Electrical and Optical Control of Interfacial Properties of Complex Fluids: Principles for Microfluidics*
8:25	discussion
8:40	**Yerushlami-Rozen:** *Alternative Dewetting Pathways of Thin Liquid Films*
9:25	discussion
9:40	reception O'hare 1st floor

Monday PM

1:30-4	free
4:15 - 6	posters Ohare 1st floor: author initials M-Z*
6 - 7	dinner
7:25	session *interfaces in structured fluids* ***Weitz***
7:30	**Kumaran** *Stress transmission by a defect network in a lamellar liquid crystalline phase*
8:15	discussion
8:30	**Belmonte** *Cusped Bubbles Rising in Polymeric and Micellar Fluids*
9:15	discussion
9:30	free

Tuesday PM

1:30-4	free
4:15-6	posters: author initials A-L*
6-7	dinner
7:25	session *thin elastic shells* ***Brenner***
7:30	**Superfine** *buckling and rippling of carbon nanotubes: mechanical and electronic implications*
8:15	discussion
8:30	**Audoly** *Geometric rigidification of thin elastic shells*
9:15	discussion
9:30	free

Wednesday AM

7:30-8:30	breakfast
8:55	session *soft elastic membranes: polymer shells and capsules* ***Boué***
9:00	**Möhwald** *hollow shells with defined ultrathin polymeric and inorganic walls*
9:45	discussion
10:00	**Rehage** *From ultrathin-crosslinked networks to microcapsules: structure, rheological properties and new technical applications*
10:45	discussion
11:00	coffee
11:20	**Kyriakides** *Propagating Instabilities in Shell and Membrane Structures*
12:05	discussion
12:30-1:30	lunch

Wednesday PM

1:30-4	free
4:15-6	posters
6-7	dinner
7:25	session *distorted lamellar fluids* ***Roux***
7:30	**Buchanan** *Dynamics of interfaces in surfactant lamellar phases*
8:15	discussion
8:30	**Stavans** *coiling of highly multilamellar tubes*
9:15	discussion
9:30	free

Thursday AM

7:30-8:30	breakfast
8:55	session *membrane-surface interactions* ***Ajdari***
9:00	**Cantat** *Unbinding transition of vesicles under shear flow*
9:45	discussion
10:00	**Sackmann** *adhesive switching of membranes via tension*
10:45	discussion
11:00	coffee
11:20	**Austin** *cell-surface interactions under hydrodynamic flow*
12:05	discussion
12:30-1:30	lunch

Thursday PM

1:30-4	free
4:15	posters
5:15	business meeting
6-7	dinner
7:25	session *stress in biostructures* ***Witten***
7:30	**Fygenson** *A unifying hypothesis for conformational change in microtubules*
8:15	discussion
8:30	**Lee** *Collapse Mechanism in Model Lung Surfactant Systems*
9:15	discussion
9:30	free

Friday AM

7:30-8:30	breakfast
9:00-9:30	bus departs

* Posters may be displayed throughout the conference. These times have been designated for authors to discuss their posters with viewers.