

The 78th MANA Special Seminar



Title: "New Views of Wetting"

Chair: Dr. Yoshio Sakka (Nano Ceramics Center)

Prof. Thomas J. McCarthy

*Polymer Science and Engineering Department
University of Massachusetts, The United States*

Fundamental issues of interfacial interactions between liquids and solids will be discussed. Following an introduction to contact angle and contact angle hysteresis, the "Lotus Effect" will be explained from kinetic and thermodynamic points of view. In one section of the talk, it will be shown that perfectly hydrophobic surfaces can be prepared using solution or vapor phase reactions. The contact/compression/release technique will be discussed and applications of these unique surfaces will be shown. Liquid marbles and ghosts will be described and potential applications will be discussed from a perspective that argues that Teflon is hydrophilic.

Venue: Seminar Room #431, MANA Bldg.

Date: May 21st Thursday

Time: 15:30-16:15



Contact: International Center for Materials Nanoarchitectonics (MANA), Nakata (ex. 8806)