

## Monday 28<sup>th</sup> of November 2005

8:55 am		Welcome
9:05 am	Yoshio Okahata	Detection of Conformation Changes of Liposomes and Proteins on a QCM
9:25 am	Calum Drummond	Effects of Degassing on the Long-Range Attractive Force between Hydrophobic Surfaces in Water
9:45 am	Koji Tsuchiya	Structural Change of DNA/Cationic Amphiphile Complexes
10:05 am	Max Lu	Composite membranes of polymer and inorganic colloidal particles with high proton conductivity and low methanol permeability
10:25 am	Teiji Kato	Study on the PFPE Monolayer Lubrication and Direct Observation of PEPE Lubricant Molecules by Cryo-AFM under Ultra-High Vacuum
10:45 am		Morning Tea
11:00 am	<b>Keynote</b> Taku Iiyama	The Direct Determination of Intermolecular Structure of Molecular Assemblies in a Nanospace Using in situ XRD and Reverse Monte Carlo Method
11:35 am	Greg Warr	Self-Assembly of Polymerizable Cationic Surfactants
11:55 am	Yoshinori Nagai	Geometrical and Topological Approach for Understanding Protein Structures
12:15 pm	Hiroyuki Mayama	Fractal Body Created with a Designed Template Method
12:35 pm	Masahiko Abe	Development of a Novel Preparation of Liposomes Using Supercritical Carbon Dioxide
12:55 pm		Lunch – Seasalt Restaurant
1:55 pm	Kazue Kurihara	Long Range Attraction between Hydrogen-Bonded Molecular Macroclusters Formed on Silica Surfaces
2:15 pm	Geoff Stevens	Effect of Surfactants on the Transfer of Metal Ions Across Liquid-Liquid Interfaces
2:35 pm	Mori Takamasa	Slurry Characterization by Hydrostatic Pressure Measurement -Analysis Based on Mass Flux Ratio-
2:55 pm	Ko Higashitani	Multivalent Cations Adsorption Effect on Friction between Silica Surfaces
3:15 pm		Afternoon Tea
3:30 pm	<b>Keynote</b> Hiroshi Sakuma	Shear Resonance Measurement on Liquids Confined between Non-transparent Substrates
4:05 pm	Cathy McNamee	Optimising the drug delivery system for malignant melanoma cells
4:25 pm	Tossy Nagamura	Ultrafast photoresponses and applications of polymer thin film containing gold nanorods
4:45 pm	Masatoshi Fujii	Surface Forces of Colloidal Polystyrene Particle in Aqueous Solutions of Ionic Amphiphilic Molecules
5:05 pm		Close

***Tuesday 29<sup>th</sup> of November 2005***

9:00am Announcements

**Nanoparticles Session**

9:05 am Kaoru Tamada Application of Self-assembly and Metal Nanoparticles: High density SPR Bio-Sensor

9:25 am Shigenori Fujikawa Fabrication of Sub-30-nm Metal Oxide Nanoline Patterns by Size Reduction Lithography Combined with the Surface Sol-Gel Process

9:45 am Takahiro Ohkubo Nano-Restricted Hydration Structure of Metal Ions Revealed by EXAFS

10:05 am Hu Yan Synthesis and Functions of Poly(N-isopropylacrylamide) Gel Trapping Polymeric Micelles

10:25 am Naoki Toshima Spontaneous Formation of Core/Shell Bimetallic Nanoparticles by Mixing Metal Nanoparticles: Spectroscopic and Calorimetric Studies

10:45 am Morning Tea

11:00 am Paul Mulvaney Luminescence from CdSe Quantum Dots

11:20 am Masa-aki Haga Fabrication of Layered Nanostructures Composed of Inorganic Exfoliated Nanosheets and Rod-shaped Metal Complexes Toward Photoelectronic Devices

11:40 am Kizhanipuram Vinodgopal Sonochemical Synthesis of Metal Nanocolloids for Fuel Cell Catalysts

**Completion of Nanoparticles Session**

12:00 Hideki Sakai Control of Viscoelasticity using Photochemical Reaction

12:20 pm Sumio Ozeki Hydrogels Deformed by Steady Magnetic Fields

12:40 pm Lunch- Covered Terrace Ground Floor

2:00 pm Excursion and Afternoon tea  
Australian Reptile Park

6:00pm Poster Session  
Hawkesbury Lobby

7:00pm Conference Dinner  
Pacific Ballroom Crowne Plaza Hotel, Terrigal

## *Wednesday 30<sup>th</sup> of November*

8:55 am		Announcements
9:00 am	Masa Hara	STM studies of self Assembled Monolayers
9:20 am	Musa Baloch	Parameters for the measurement of oil/water emulsion quality
9:40 am	Laurence Meagher	Bridging Interactions between Silica and Grafted PEO Surfaces
10:00 am	Jim Beattie	The Intrinsic Charge at the Oil/Water Interface

### 10:20 am Morning Tea

10:50 am	<b>Keynote</b> Syuji Fujii	Stimulus-responsive emulsifiers based on nanocomposite microgel particles
11:25 am	Keiko Gotoh	Surface modification of poly(ethylene terephthalate) by excimer ultraviolet light
11:45 am	Ray Dagastine	Measurements of Static and Hydrodynamic Interaction Forces between Pluronic Stabilized Oil Droplets
12:05 pm	Derek Chan	Interacting Deformable Drops: Complex Shapes – Simple Forces
12:25 pm	Roger Horn	Measurement of forces affecting the approach of an air bubble to a flat solid surface

### 12:45 pm Lunch- Seasalt Restaurant

1:45 pm	<b>Keynote</b> Kenichi Sakai	Self-Assembly of pH-Responsive Diblock Copolymer Micelles at Solid/Aqueous Solution Interfaces
2:20 pm	Kazatumi Sakamoto	Synthesis of Ribbon Shaped Mesoporous Silica using Novel Silica Precursor templated from ribbon phase surfactant self organization.
2:40 pm	Peter Majewski	Silane-based Self-Assembled Monolayers for Water Treatment
3:00 pm	Patrick Hartley	Functional Mesophases for Bioseparations
3:20pm	Satomi Ohnishi	Influence of adsorbed/condensed cyclohexane between mica surfaces on stick-slip frictional behavior
3:40 pm	Hiroshi Naguchi	Clathrate-Formation Mediated Adsorption of Methane on Cu-Complex Crystals
4:05 pm	Tom Healy	Summary

### 4:15 pm Afternoon Tea