

ICOMF14 – Scientific program

10 – 13 July 2012

Tuesday July 10th Afternoon	
17:00 – 20:00	Registration Open Welcome « Wine and Cheese »

Wednesday July 11th Morning			
08:00 – 08:30	Registration Open		
08:30 – 09:00	Opening Session		
09:00 – 10:00	Plenary Lecture (chair M. Shimomura) Paul S. Weiss (PL-1) New dimensions in patterning: placement and metrology of chemical functionality at all scales		
10:00 – 10:20	Coffee Break		
	Session 1 (chair A. Datta) Amphi Weiss Langmuir and Langmuir Blodgett Films (1)	Session 2 (chair C. Saless) Amphi Polonovski Self-Assembly and Nanoscale Organization (1)	Session 3 (chair G. Fragneto) Amphi Giroud Membranes (1)
10:20 – 11:00	Hideki Matsuoka (Invited Speaker) (I-001) Polyelectrolyte brush at the air/water interface –formation mechanism, nanostructure and its transition	Kook Heon Char (Invited Speaker) (I-028) Release characteristics and corresponding biomedical applications of polymer multilayer thin films based on different intermolecular interactions	Shigeyuki Komura (Invited Speaker) (I-049) Anomalous lateral diffusion in a viscous membrane surrounded by viscoelastic media
11:00 – 11:20	Hironichi Nakahara (O-002) Polarization modulation-infrared reflection absorption spectra of pulmonary surfactant model systems at the air-water interface	Kuniharu Ijro (O-029) Gold nanoparticle vesicles and their application as SERS substrate in solution	Xavier Toledo-Fuentes (O-050) Probing model lipid membranes in interaction with gold nanoparticles by using vibrational sum-frequency generation spectroscopy
11:20 – 11:40	Laurence Navailles (O-003) Unexpected bilayer formation in Langmuir films of nucleolipids	Maria Bardosova (O-030) Novel approach in preparation of photonic crystal thin films by the LB technique	Jean-Philippe Michel (O-051) Biomimetic model of the outer membrane of Gram-negative bacteria for assessment of its interaction with two complementary antimicrobial peptides
11:40 – 12:00	Gabriele Giancane (O-004) Langmuir-Schaefer films for photoinduced nitric oxide and singlet oxygen release	Hiroshi Yabu (O-031) Phase-separated structures in 3-dimensionally confined spaces and preparation of organic/inorganic composites	Eva Rogalska (O-052) Membrane activity of chosen antibacterial, transfection and anti-inflammatory drugs as a possible reason for their biological effects
12:00 – 12:20	Ken-ichi Iimura (O-005) Vertically grown structures on LB monolayer template surfaces	Fatemeh Ghani (O-032) Nucleation and growth of solution processed copper phthalocyanine nanoribbons	Joe Sarkis (O-053) The monogalactosyl diacylglycerol synthase MGD1: reconstitution of a biomimetic membrane system allowing its functional characterization
12:20 – 14:00	Lunch		

Wednesday July 11th Afternoon

14:00 – 15:40	Poster Session A and exhibitors presentations		
15:40 – 16:00	Coffee Break		
	Session 4 (chair M. Grunze) Amphi Weiss Langmuir and Langmuir Blodgett Films (2)	Session 5 (chair H. Sugimura) Amphi Polonovski Self-Assembly and Nanoscale Organization (2)	Session 6 (chair S. Komura) Amphi Giroud Membranes (2)
16:00 – 16:20	Epameinondas Leontidis (O-006) Effects of anions of the lyotropic series on DPPC Langmuir monolayers at 12 °C: Salts “heat up” the monolayers!	Robert Melville Metzger (Invited Speaker) (I-033) Unimolecular electronic devices – Where are we?	Giovanna Fragneto (Invited Speaker) (I-054) Domains into floating bilayers: a new step towards complex model systems
16:20 – 16:40	Christine DeWolf (O-007) Zwitterionic N-alkyl substituted 4,6-diaminoresorcinols as lipid analogues: phase behaviour at the air-water and air-solid interface		
16:40 – 17:00	Ratan Sarkar (O-008) Protein induced thin film formation of Graphene Oxide by Langmuir Blodgett technique	Marek Szymonski (O-034) Electronic decoupling of organic molecules from a semiconducting substrate	David Gidalevitz (O-055) Cholesterol mediates membrane curvature during fusion events
17:00 – 17:20	Eduardo J. M. Filipe (O-009) Interfacial properties of pure “Primitive Surfactants”	Anne Charrier (O-035) Lipid Monolayers: a promising new class of ultra-thin organic dielectrics	Tetsuya Yamamoto (O-056) Tilting transitions drive the precipitation of cholesterol crystals from multi-component membranes
17:20 – 17:40	Laura Reddemann (O-010) Extremely low friction of liquid water flow on structured surfaces	Philippe Lang (O-036) New insights in the nanopatterning of gold surfaces for the elaboration of molecular and electroactive nanodomains	Maria Hitrick (O-057) Formation of asymmetric films using Langmuir and Langmuir-Blodgett techniques
17:40 – 18:00	Ana Ferraria (O-011) Surface functionalization of cellulose with noble metals nanoparticles through a selective nucleation	Takao Ishida (O-037) Long-range electron transport of self-assembled Ru complex molecular layer and its transport mechanism	Andrey Turchanin (O-058) Converting SAMs into free-standing carbon nanomembranes (CNMs) with tunable structural, chemical and electrical properties

Thursday July 12th Morning			
09:00 – 10:00	Plenary Lecture (chair O. Oliveira) Christian Salesses (PL-2) Binding of peripheral proteins to lipid monolayers: how to gather useful information and avoid pitfalls		
10:00 – 10:20	Coffee Break		
	Session 7 (chair H. Matsuoka) Amphi Weiss Langmuir and Langmuir Blodgett Films (3)	Session 8 (chair P. Weiss) Amphi Polonovski Self-Assembly and Nanoscale Organization (3)	Session 9 (chair D. Kurth) Amphi Giroud Liquid Crystals and Polymers at Interfaces (1)
10:20 – 10:40	Jordi Ignés-Mullol (I-012) (Invited Speaker) Stirring competes with chemical induction in chiral selection of Langmuir monolayer domains	Carlo Nicosia (O-038) Reactive monolayers: templates for biomolecules and interfaces for technology	Petra Uhlmann (I-059) (Invited Speaker) Coupling of responsiveness, optical sensing and catalysis in thin films by immobilization of inorganic nanoparticles in polymer brushes
10:40 – 11:00		Hiroyuki Sugimura (O-039) Close-packed gold nanoparticle monolayer photochemically immobilized on hydrogen-terminated Si	
11:00 – 11:20	Véronique Aguié-Béghin (O-013) Interaction studies between xylanases and lignins immobilized by Langmuir-Blodgett technique	Asif Bashir (O-040) Metallization of self-assembled monolayers: the Current Status	Zineb Guennouni (O-060) Unexpected self-assembled properties in copolymers Langmuir monolayer
11:20 – 11:40	Cristina Souza Freire Nordi (O-014) Adsorption of algal polysaccharide-protein extract at Langmuir and Langmuir-Blodgett films for metal monitoring from water	Delphine Toulemon (O-041) 2D assemblies of magnetic iron oxide nanoparticles via click chemistry	Mariane Ouattara (O-061) Langmuir-Blodgett: important method to obtain organization in conjugated polymer films
11:40 – 12:00	Mehmet Nail Nasir (O-015) Characterization of the interaction of xylose-based bolaamphiphiles with biomimetic membrane systems	Doseok Kim (O-042) Surface nanocrystallization of room temperature ionic liquid by grazing incidence X-ray diffraction	Gözde Barim (O-062) Lyotropic liquid crystalline mesophases of lithium salt-nonionic surfactants
12:00 – 12:20	Arison Rajasingam (O-016) Synthesis of phenolic surfactants for the fabrication of functional thin films with biocompatibility	Yung Feng Liu (O-043) The Potential-induced Self-organizing Process and Electronic Properties of Poly(3-hexylthiophene) on Iodine-modified Au(111)	Samuel Lamarre (O-063) Composite interfacial monolayers of block copolymers and gold nanoparticles spread at the air/water interface
12:20 – 14:00	Lunch		

Thursday July 12th Afternoon			
14:00 – 15:40	Poster Session B and exhibitors presentations		
15:40 – 16:00	Coffee Break		
	Session 10 (Chair C. DeWolf) Amphi Weiss Langmuir and Langmuir Blodgett Films (4)	Session 11 (Chair R. Metzger) Amphi Polonovski Nano-Objects	Session 12 (Chair P. Uhlmann) Amphi Giroud Liquid Crystals and Polymers at Interfaces (2)
16:00 – 16:20	Alokmay Datta (I-017) (Invited Speaker) Liquid like films	Renjie Zhang (O-072) Shell modulation of microcapsules by tailoring substituents in chitosan	Karen Gleason (I-064) (Invited Speaker) Designing novel devices with chemically vapor deposited (CVD)
16:20 – 16:40		Brigitte Pansu (O-073) Gold nanoparticles and confinement in surfactant membranes	
16:40 – 17:00	Syed Major (O-018) Growth of Zn1-xCdXS nanocrystallites in LB multilayers	Jiwei Cui (O-074) Mussel-inspired catecholic chemistry for assembly and application of polymer capsules	Christiane A. Helm (O-065) Intermolecular interactions between adsorbed polyelectrolytes and lipid monolayers for different degrees of polymerization
17:00 – 17:20	Woongmo Sung (O-019) Different adsorption behavior of rare earth and metallic ion complex on Langmuir monolayers probed by sum- frequency generation spectroscopy	Shlomit Kraus-Ophir (O-075) Organization and orientation of anisotropic Au-CdSnanoHybrids using the Langmuir-Blodgett (LB) method	Alae El Haitami (O-066) Two-dimensional polymer networks of Cellulose butyrate acetate and poly(dimethylsiloxane) at the air-water interface
17:20 – 17:40	Oswaldo N. Oliveira Jr. (O-081) On the design of sensors and biosensors exploiting information visualization methods	Elise Lepeltier (O-076) Nanoassemblies of nucleoside analogues coupled to terpenoids: structural analysis	Takahiro Seki (O-067) Driving meso- and microstructures of thin films by light
17:40 – 18:00	Takeshi Hasegawa (O-021) Molecular rearrangement in a zinc stearate Langmuir film dependent on a film preparation method studied using PM-IRRAS and XAFS	Takeshi Kawai (O-077) Free standing monolayer of highly ordered Au NPs capped with an amphiphile bearing dithiol group	Christian Schwieger (O-068) Organization of amphiphilic liquid crystals at the air-water interface
20:00	Conference Banquet		

Friday July 13th Morning			
09:00 – 10:00	Plenary Lecture (chair J.W. Choi) Jacques Prost (PL-3) Constructing tools for describing cell and tissue dynamics		
10:00 – 10:20	Coffee Break		
	Session 13 (Chair H. Yoshida) Amphi Weiss Langmuir and Langmuir Blodgett Films (5)	Session 14 (Chair P. Stroeve) Amphi Polonovski Biological and Bioinspired Systems (1) – Organic and Hybrid Devices (1)	Session 15 (Chair K. Gleason) Amphi Giroud Multilayers
10:20 – 10:40	Martin Weis (O-022) Surface plasmon resonance of nanoparticle Langmuir-Blodgett monolayers and multilayers: experiment and simulation	Gerald Brezesinski (Invited Speaker) (I-078) Langmuir and Gibbs monolayers of peptides	Michael Grunze (Invited Speaker) (I-098) Phase transitions in lipid multilayers under shear and pressure probed with neutrons
10:40 – 11:00	Karol Vegso (O-023) Formation of plasmonic nanoparticle Langmuir films - a new temporary phase		
11:00 – 11:20	Venkata Divakar Botcha (O-024) Graphene oxide LB monolayers transferred on surface modified SiO ₂ and Si substrates	Xenia Vinzenz (O-079) Bio-inspired surface functionalization: customized surfaces by application of poly-amino acid multilayer stacks	Tsuyoshi Michinobu (O-099) Redox-active multilayer thin films by alkyne-acceptor click chemistry
11:20 – 11:40	Michael C. Petty (O-025) Electrical networks of carbon nanotubes assembled by LB deposition	Loïc Lemiègre (O-080) Stereochemical effects within archaeal glycolipid self-assembling: Langmuir films, SAXS and CryoTEM	Jaime C. Grunlan (O-100) Fully organic ITO replacement through acid doping of double-walled carbon nanotube multilayer thin films
11:40 – 12:00	Jacek Korchowiec (O-026) Molecular modeling studies of model monolayers – static point charge and polarizable charge approaches	Gabriella Caminati (O-089) Towards white OLED: hybrid nanodevices based on polymer nanoparticles	Mériem Er-Rafik (O-101) Layer by Layer assembly of antimicrobial modified polyethyleneimines
12:00 – 12:20	Cathy E. McNamee (O-027) Direct measurement of the forces between Langmuir monolayers of bare TiO ₂ particles at an air/water interface and a TiO ₂ particle in the water phase	Mitsumasa Iwamoto (O-090) Direct probing of carrier motion in ambipolar OFET by electric field induced optical SHG and charge modulation spectroscopy	Olivier Félix (O-102) Exotic and catalytically active LbL-films
12:20 – 14:00	Lunch		

Friday July 13th Afternoon			
	Session 16 (Chair K.H. Char) Amphi Weiss Self-Assembly and Nanoscale Organization (4)	Session 17 (Chair G. Brezesinski) Amphi Polonovski Biological and Bioinspired Systems (2)	Session 18 (Chair M. Iwamoto) Amphi Giroud Organic and Hybrid Devices (2)
14:00 – 14:20	Alexander Efimov (O-044) Porphyrinoids and perylenebisimides for mono- and multi-layered SAMs	Eduardo Guzman Solis (O-082) Interfacial properties of mixed Lipid-nanoparticle monolayers: equilibrium, structural and rheological aspects	Pieter Stroeve (Invited Speaker) (I-091) Nano-bioelectronic devices with light harvesting proteins
14:20 – 14:40	Andreas Terfort (O-045) Selenium: the better anchor group for self-assembled monolayers (SAMs) on gold?	Seimei Shiratori (O-083) Anti-thrombogenicity by Layer-by-Layer self-assembled polyelectrolyte film	
14:40 – 15:00	Ludivine Malassis (O-046) Langmuir-Blodgett assembly of metal/dielectric nanoparticles for metamaterials	Ivan Panaiotov (O-084) Kinetic models of interfacial lipolysis – from in vitro to in vivo	Gabin Gbabode (O-092) Revealing the presence of substrate-induced phases for π -conjugated mesogens
15:00 – 15:20	Yutaka Wakayama (O-047) Solid-state reactions in binary molecular assemblies on metal surface	Masatsugu Shimomura (O-085) Water transport of Wharf Roach, Ligia exotica, and its biomimetics	Masaya Mitsuishi (O-093) Emission control of CdSe/ZnS nanoparticle monolayer in polymer nanosheet waveguide assembled on a silver gratings
15:20 – 15:40	Ana Barros-Timmons (O-048) Probing the interaction of Au nanoparticles with cell membrane models		Chiara Toccafondi (O-094) Nano-granular TiO ₂ thin films as substrates for molecular deposition
15:40 – 16:00	Coffee Break		
	Session 19 (Chair F. Cousin) Amphi Weiss Liquid Crystals and Polymers at Interfaces (3)	Session 20 (Chair A. Girard-Egrot) Amphi Polonovski Biological and Bioinspired Systems (3)	Session 21 (Chair M. Szymonski) Amphi Giroud Organic and Hybrid Devices (3)
16:00 – 16:20	Takao Ishida (O-069) Molecular motion and pattern formation of liquid crystals caused by self-assembled Ru complex molecular layer immobilized on ITO	Maria Raffaella Martina (O-086) Nanolayers for diagnostics of proteins involved in degenerative amyloidosis	Catherine Henry de Villeneuve (O-095) Photoswitchable fulgimide monolayer covalently immobilized on functionalized Si(111) surfaces
16:20 – 16:40	Hirohisa Yoshida (O-070) Molecular orientation and phase transition of micro phase separated thin film	Gabriella Heller (O-087) The effects of non-enzymatic glycation on serum albumin's affinity for Heme: a quartz-crystal microbalance study	Takuya Matsumoto (O-096) Current path imaging of molecular nanomaterials
16:40 – 17:00	Takuya Ohzono (O-071) Zigzag line defects in a nematic liquid crystal in microwrinkle grooves	Jorge Almodovar (O-088) Functionalization of devitalized bone using polysaccharide-based multilayers supports mammalian cell growth and inhibits bacterial growth	Marta Kolasinska-Sojka (O-097) Electroactive properties of the multilayer films containing Prussian Blue nanoparticles
17:00 – 18:00	Closing Session		