

Scientific Session – MATERIALS SCIENCE

Host: Hokkaido University

Venue: The University of Tokyo, Faculty of Engineering, Building 3

Sub-topics focused in this Session:

Group 1) Advanced characterization of materials and surfaces

Group 2) Bio- and Bioinspired materials

Program is subject to changes.
Version_0919

Thursday 11 October 2018

9:45	Registration	
10:00-10:10	Opening remarks by Professor Yasuchika Hasegawa, Hokkaido University	
10:10-10:20	Remarks by SSC Chair, Professor Ulf Karlsson, Linköping University	
10:20-10:50	Keynote Lecture by Professor Kazuki Sada, Hokkaido University Lecture title: “Functional Composites of Metal Organic Frameworks by Post-Synthetic Modification”	
10:50-11:20	Keynote Lecture by Professor Eva Olsson, Chalmers University of Technology Lecture title: “Site Specific Direct Correlation Between Atomic Structure and Properties in Nanostructured Materials”	
11:20-11:30	Group Photo	
11:30-13:00	Poster Session	
13:00-14:00	Lunch	
14:00-15:30	Parallel Session: Group 1 “Advanced characterization of materials and surfaces” Moderator: SSC, Prof. Matic, Chalmers 14:00-14:30 Presenter (1) 14:30-15:00 Presenter (2) 15:00-15:30 Presenter (3)	Parallel Session Group 2 “Bio- and Bioinspired materials” Moderator: SSC, Prof. Andersson, Umeå 14:00-14:30 Presenter (1) 14:30-15:00 Presenter (2) 15:00-15:30 Presenter (3)
15:30-16:00	Coffee break	
16:00-17:00	Parallel Session: Group 1 (Continued) “Advanced characterization of materials and surfaces” Moderator: SSC, Prof. Matic, Chalmers 16:00-16:30 Presenter (4) 16:30-17:00 Presenter (5)	Parallel Session Group 2 (Continued) “Bio- and Bioinspired materials” Moderator: SSC, Prof. Andersson, Umeå 16:00-16:30 Presenter (4) 16:30-17:00 Presenter (5) 17:00-17:30 Presenter (6)
17:30	Close	
18:00-20:00	Dinner Venue: TBC (near the University of Tokyo)	

Friday 12 October 2018

10:00-12:00	Parallel Session: Group 1 (Continued) “Advanced characterization of materials and surfaces” Moderator: SSC, Prof. Kuwahara, Sophia 10:00-10:30 Presenter (1) 10:30-11:00 Presenter (2) 11:00-11:30 Presenter (3)	Parallel Session Group 2 (Continued) “Bio- and Bioinspired materials” Moderator: SSC, Prof. Kimizuka, Kyushu 10:00-10:30 Presenter (1) 10:30-11:00 Presenter (2) 11:00-11:30 Presenter (3) 11:30-12:00 Presenter (4)
12:00-13:00	Lunch	
13:00-15:00	Parallel Session: Group 1 (Continued) “Advanced characterization of materials and surfaces” Moderator: SSC, Prof. Kuwahara, Sophia 13:00-13:30 Presenter (5) 13:30-14:00 Presenter (6) 14:00-14:30 Presenter (7)	Parallel Session Group 2 (Continued) “Bio- and Bioinspired materials” Moderator: SSC, Prof. Kimizuka, Kyushu 13:00-13:30 Presenter (5) 13:30-14:00 Presenter (6) 14:00-14:30 Presenter (7) 14:30-15:00 Presenter (8)
15:00-15:30	Wrap up/ Closing by SSC members (<i>Prof. Kimizuka, Prof. Kuwahara, and Prof. Andersson</i>)	15:00-16:20 SC/SSC Meeting (for SC/SSC members only, Prof. Karlsson & Prof. Sada) Venue: Waseda University
15:30	Close Move from The University of Tokyo to Waseda University (by public transportation)	
16:30-17:30	Innovation Interworking Session (Optional) Venue: Waseda University	
17:30-17:40	Closing Ceremony Venue: Waseda University Move to Dinner place (walking distance)	
18:30-	Farewell Dinner Venue: Nantei, Waseda University (next to RIHGA Royal Hotel Tokyo)	

Presenters in order

	Group 1		Group 2
	*** DAY 1 ***		*** DAY 1 ***
1	Magnus Hörnqvist Colliander / Chalmers Experimental micromechanics using electrons, neutrons and X-rays	1	Martin Andersson / Chalmers Biomimetic Bone Materials
2	Feng Gao / Linköping Decrease the photovoltage losses in organic solar cells	2	Marta Bally / Umeå Cell-membrane mimics to study how viral glycoproteins regulate attachment and diffusion of viruses at the cell surface
3	Kiyofumi Katagiri / Hiroshima Bioinspired structurally colored coating films fabricated via electrophoretic deposition of SiO ₂ particles	3	Yuhei Hayamizu / Tokyo Tech Bio-Nano Interfaces of Two-Dimensional Materials Controlled by Self-Assembled Peptides

4	Erik Lewin / Uppsala Advanced inorganic materials chemistry – synthesis and characterisation of new materials	4	Yasuhide Inokuma / Hokkaido Aliphatic Polyketones as flexible and Shapable Molecular Ropes
5	Rainer Timm / Lund Atomic-scale Surface Characterization of Semiconductor Nanostructures during Device Operation	5	Jiro Kondo / Sophia X-Ray Structural DNA Nanotechnology
6	N/A	6	Ayae Sugawara-Narutaki / Nagoya Formation of Nanoarchitectures through the Synergetic Self-Assembly of Inorganic Nanoparticles and Amphiphilic Polymers
	*** DAY 2 ***		*** DAY 2 ***
1	Piotr Matyba / Umeå Time-resolved two-photon photoemission spectroscopy as a Tool to Uncover Dynamics in Complex Materials	1	Kazuki Fukushima / Tokyo Anisotropic Molecular Assemblies Comprising Amphiphiles as Functional Nano-Biomaterials
2	Jonas Mindemark / Uppsala Interfaces and Degradation in Liquid- and Solid-Electrolyte Li Batteries	2	Takayuki Kurokawa / Hokkaido Microelectrode technique for measuring electric potential of polyelectrolyte hydrogels
3	Yasmine Sassa / Uppsala Novel two-dimensional graphene-like systems based on silicon allotrope	3	Gábor Méhes / Linköping Interfacing Plants and Bacteria via Organic Bioelectronics for Current Harvesting
4	N/A	4	Tiina Nypelö / Chalmers From wood-based compounds to materials @ Chalmers
5	Eike Schwier / Hiroshima At the edge of μ -ARPES: The best of both worlds?	5	Toshikazu Ono / Kyushu Design of Tetrapyrrole Macrocycles for Electrochemical Catalysts and Other Applications
6	Tomohiro Shiraki / Kyushu Near Infrared Photoluminescence Tuning Driven by Molecular Recognition on Single-walled Carbon Nanotubes	6	Anders Palmquist / Gothenburg Additive manufacturing – preclinical and clinical experience
7	Donatas Zigmantas / Lund Excitation and dissipation dynamics in plexitons	7	Christelle Prinz / Lund Nanowires for bioapplications
8	N/A	8	Toyonobu Usuki / Sophia Biomimetic Synthesis of Elastin Crosslinker Desmosines
	Stefano Bonetti / Stockholm (Poster only) SXL: a Soft X-ray Laser at Max IV Laboratory		