

PROGRAMME

Day 1: Monday, 3rd June 2019

12:00 – 14:20	Registration - Hotel Slon Foyer at Kavarna 1 + Club 1
Room	Hall Kavarna 1 + Club 1
12:00 – 13:30	<p>Round table topic: »Nanomaterials and Applications« Chair: Prof. Dr. Aleksandra Lobnik, Slovenia</p> <p>Prof. Dr. John Bartlett, USC, Australia Prof. Dr. Stephane Parola, UMR ENS/UCLB/CNRS, France Prof. Dr. Masahide Takahashi, OPU, Japan Prof. Dr. Vadim Kessler, SUAS, Sweden Prof. Dr. Dragan Mihailovič, IJS, Slovenia Doroteja Zlobec, MIZS, Slovenia Dijana Madžarac, MGRT, Slovenia Martina Knavs, Smart specialization strategy, IJS, Slovenia</p>
13:30 – 14:00	Coffee Break
14:00 – 14:20	<p>Welcome Remarks: Prof. Dr. Aleksandra Lobnik, Slovenia Martina Knavs, Jožef Stefan Institute, Slovenia Dijana Madžarac, MGRT, Slovenia</p>
Session	NANOMATERIALS & APPLICATIONS & Nano4Circularity
Session Chair	Prof. Dr. Aleksandra Lobnik, Slovenia
14:20 – 15:10	PL1: Prof. Dr. Karin Stana Kleinschek, Slovenia - Biopolymers, their surface modifications and characterization and their potential application in biomedicine
15:10 – 15:40	KL1: Prof. Dr. Dragan Mihailovič, Slovenia - Ultrafast switching in 1T-TaS ₂ charge configuration memory (CCM) devices
15:40 – 16:10	KL2: Prof. Dr. Vadim Kessler, Sweden - Molecular models of hybrid nanomaterials
16:10 – 16:30	Coffee Break
Session	NANOMATERIALS & ENVIRONMENT & Nano4Circularity
Session Chair	Prof. Dr. Stephane Parola, France
16:30 – 17:00	KL3: Prof. Dr. Benoît Heinrichs, Belgium - An enhanced generation of singlet oxygen through the use of Au bipyramids/SiO ₂ core-shell nanoparticles for application in photocatalysis
17:00 – 17:20	IL1: Prof. Dr. Nataša Novak Tušar, Slovenia - Catalytic water cleaning using nanomaterials
17:20 – 17:40	IL2: Prof. Dr. Gulaim Seisenbaeva, Sweden - Mesoporous metal oxide anodes for Li-ion batteries
17:40 – 18:00	IL3: Dr. Inna V. Melnyk, Ukraine - One-pot synthesis of advanced aminosilicas for environmental remediation
18:00 – 18:15	OL1: Dr. Mathilde Ménard, France - Functionalization of iron oxide core – mesoporous silica shell nanoparticles for removal of heavy rare earth elements
18:30 – 21:00	Welcome Reception

Day 2: Tuesday, 4th June 2019	
Room	Hall Kavarna 1 + Club 1
Session	NANOMATERIALS & PHOTONICS
Session Chair	Prof. Dr. Loïc Blum, France
9:00 – 9:30	KL4: Prof. Dr. Jiří Homola, Czech Republic - Plasmonic affinity biosensors and their medical applications
9:30 – 9:50	IL4: Prof. Dr. John D. Brennan, Canada - Optimizing piezoelectric ink-jet printing of silica sols for biosensor production
9:50 – 10:10	IL5: Prof. Dr. Luca Malfatti, Italy - Integration of C-dots in hybrid nanocomposite films
10:10 – 10:30	IL6: Prof. Dr. Ivan Rivalta, Italy - Multiscale computational approaches to photo-induced processes in nanosystems
10:30 – 10:45	OL2: Dr. Matej Bračič, Slovenia - Protein-repellent polysaccharide multilayers: Influence of charge and hydrophilicity
10:45 – 11:20	Coffee Break
Session	NANOMATERIALS & PHOTONICS
Session Chair	Prof. Dr. Jiří Homola, Czech Republic
11:20 – 11:50	KL5: Prof. Dr. Gerhard Mohr, Austria - Optical sensors based on micro- and nanocellulose material
11:50 – 12:10	IL7: Prof. Dr. Beatriz Julian Lopez, Spain - Towards more industrially attracting NIR-to-VIS up-converting materials
12:10 – 12:30	IL8: Dr. Yann Bretonnière, France - Design of NIR chromophores and nanoparticles for two-photon fluorescence and photo-acoustic imaging
12:30 – 14:00	Lunch
Session	NANOMATERIALS & BIO APPLICATIONS
Session Chair	Prof. Dr. Vadim Kessler, Sweden
14:00 – 14:30	KL6: Prof. Dr. John Bartlett, Australia - Autonomous nanomaterials for the controlled delivery of biologically active molecules
14:30 – 15:00	KL7: Prof. Dr. Jean-Olivier Durand, France - Functionalization of porous silicon nanoparticles for controlled nucleic acid delivery
15:00 – 15:20	IL9: Assist. Prof. Dr. Rupert Kargl, Slovenia - Poly- and oligosaccharide based biomedical materials
15:20 – 15:40	IL10: Prof. Dr. Loïc Blum, France - Modulation of the liposomal membrane fluidity for targeted drug delivery to cancer cells
15:40 – 16:00	Coffee Break
Session	MAGNETIC NANOMATERIALS & APPLICATIONS
Session Chair	Prof. Dr. Jean-Olivier Durand, France
16:00 – 16:30	KL8: Prof. Dr. Barbara Malič, Slovenia - Designing the microstructure of solution-derived ferroelectric-oxide thin films
16:30 – 17:00	KL9: Prof. Dr. Darko Makovec, Slovenia - Structure and magnetic properties of hexaferrite and bi-magnetic hexaferrite/maghemite nanoplatelets
17:00 – 17:30	KL10: Prof. Dr. Darja Lisjak, Slovenia - The role of surface chemistry on physico-chemical properties of nanoparticles
17:30 – 17:50	IL11: Dr. Petra Jenuš, Slovenia - Influence of composition and size of the soft and the hard-magnetic phase on magnetic properties of ferrite-based hybrid magnets
17:50 – 18:10	IL12: Assist. Prof. Dr. Andreja Benčan Golob, Slovenia - Crafting properties of domain walls in bismuth ferrite ferroelectric material
18:10 – 19:00	Poster Session
20:00 – 22:00	Conference Dinner

Day 3: Wednesday, 5th June 2019	
Room	Hall Kavarna 1 + Club 1
Session	HYBRID NANOMATERIALS & APPLICATIONS
Session Chair	Prof. Dr. Michel Wong Chi Man, France
9:00 – 9:50	PL2: Prof. Dr. Kazuyuki Kuroda, Japan - Some Recent Developments on the Synthesis of Inorganic Functional Nanomaterials
9:50 – 10:20	KL11: Prof. Dr. Galo Soler Illia, Argentina - Towards Programmable and Intelligent Nanosystems based in Mesoporous Materials
10:20 – 10:50	KL12: Prof. Dr. Masahide Takahashi, Japan - Aligning pores in framework compounds via sol-gel approach
10:50 – 11:20	Coffee Break
Session	HYBRID NANOMATERIALS & APPLICATIONS
Session Chair	Prof. Dr. Kazuyuki Kuroda, Japan
11:20 – 11:40	IL13: Prof. Dr. Jean-Louis Bantignies, France - Nanohybrid silica: investigation of self-assembling properties and physical properties using multiscale approach and DFT calculations
11:40 – 12:00	IL14: Prof. Dr. Corine Gerardin, France - Controlled polymer-inorganic assembly process for the preparation of functional mesoporous hybrid nanomaterials
12:00 – 12:20	IL15: Prof. Dr. Philippe Trens, France - Prussian Blue Analogues for the adsorption of humid organic vapours
12:20 – 13:45	Lunch
14:00 – 17:30	Conference Trip – Ljubljana Boat Cruise (14:00-15:00)
	Guided Ljubljana Sightseeing Tour (from 15:15, aprox. 2h)

Day 4: Thursday, 6th June 2019	
Room	Hall Club 1
Session	NANOMATERIALS & ENVIRONMENT
Session Chair	Prof. Dr. Benoît Heinrichs, Belgium
9:00 – 9:30	KL13: Prof. Dr. Nataša Zabukovec Logar, Slovenia - Tailoring properties of nanoporous materials for efficient CO ₂ -capture
9:30 – 9:50	IL16: Dr. Stephanie Lambert, Belgium - Assessment of Advanced Photocatalytic Oxidation process for Micropollutant Elimination in Municipal and Industrial Waste Water treatment Plants
9:50 – 10:10	IL17: Prof. Dr. Mónica Lira, Spain - Ferroelectric oxides and halide perovskites: application in solar cells and solar transistors
10:10 – 10:30	IL18: Assist. Prof. Dr. Mojca Božič, Slovenia - New cross-linked chitosan-graphene oxide anion exchange membranes for fuel cell applications
10:30 – 10:50	IL19: Prof. Dr. David Portehault, France - Geo-inspired approaches for extending the range of inorganic nanoparticles
10:50 – 11:10	Coffee Break
11:10 – 11:30	IL20: Prof. Dr. Stephane Parola, France - Hybrid fluoride nanoparticles for bioimaging
11:30 – 11:50	IL21: Assist. Prof. Dr. Tina Maver, Slovenia - Modern solutions with nano-size features in wound care with emphasis on advanced preparation techniques
11:50 – 12:10	IL22: Prof. dr. Nataša Poklar Ulrih, Slovenia - Nanoencapsulation of polyphenolic compounds
12:10 – 12:25	OL3: Dr. Viviana Golja, Slovenia - Safety of food contact material containing nanoparticles
12:25 – 12:45	Conference Closing Remarks Prof. Dr. Aleksandra Lobnik, Slovenia Prof. Dr. Stephane Parola, France Prof. Dr. Michel Wong Chi Man, France

POSTER SESSION

PO1	Sara Krajnc, <i>et al.</i> , IOS – Institute for environmental protection and sensors Ltd., Slovenia - Synthesis of amino functionalized silica particles for binding rare earth metals
PO2	Marijana Lakić, MSc., <i>et al.</i> , IOS – Institute for environmental protection and sensors Ltd., Slovenia - Photochromic polyester fiber containing 1,3,3-Trimethylindolino-6'-nitrobenzopyrylospiran dye encapsulated into silica particles
PO3	Ajra Hadela, MSc., <i>et al.</i> , University of Maribor, Faculty of Mechanical Engineering, Slovenia - Silver-based nanocomposite materials for the multifunctional water treatment
PO4	Dr. Nena Dimitrušev, <i>et al.</i> , University of Maribor, Faculty of Mechanical Engineering, Slovenia - Sensor membranes preparation with spray coating technique
PO5	Assist. Prof. Dr. Irena Ban, <i>et al.</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering, Slovenia - NiCu-silica-nanoparticles with incorporated anticancer drug for the potential treatment of skin cancer
PO6	Dr. Janja Stergar, <i>et al.</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering, Slovenia - NiCu-silica composites as potential drug delivery systems
PO7	Eva Soršak, BSc., <i>et al.</i> , University of Maribor, Faculty of Mechanical Engineering, Slovenia - Optical and sensing properties of N-(Rhodamine-B)-lactam-ethylenediamine (RhB-EDA) fluorescent sol-gel layers
PO8	Matjaž Kristl BSc., <i>et al.</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering, Slovenia - Sol – gel preparation of NixCu1-x/silica nanocomposites using different silica precursors
PO9	Lovro Basioli, Ruđer Bošković Institute, Croatia - Self-assembled Ge nanowire meshes grown with magnetron sputtering
PO10	Martina Knavs, IJS, Slovenia - Nanotechnology in the Context of Slovenian Smart Specialisation Strategy