February, 5, 2020, Fundamental science and techniques

9:00 – 9:20	Opening	
Topic **From Microscopy to Light** *chair Alenka Mertelj, Jozef Stefan Institute*		
15'+5'	Gregor Kapun, *National Institute for Chemistry, CENN Nanocenter*	*Quantitative three-dimensional microstructure description of porous SOFC electrodes using FIB nanotomography*
10'+3'	Damjan Svetin, *Jozef Stefan Institute, CENN Nanocenter*	*DaLI - Direct laser lithography system*
10'+3'	Aljaž Drnovšek, *Jozef Stefan Institute*	*Small scale mechanical testing*
10'+3'	Irena Drevenšek Olenik, *Jozef Stefan Institute, FMF UniLJ*	*Light and Matter research*
10:20 – 10:40	break	
Topic **Magnetic nanoparticles: structure, properties and applications** *chair Stanislav Campelj, InoVine d.o.o.*		
25'+5' keynote	Darko Makovec, *Jožef Stefan Institute*	*From magnetic nanoparticles to multifunctional nanocomposites*
8'+2'	Sašo Gyergyek, *Jožef Stefan Institute*	*Magnetic catalysts*
8'+2'	Slavko Kralj, *Jožef Stefan Institute*	*Magnetically Guidable Nanostructures*
8'+2'	Sebastjan Nemec, *Jožef Stefan Institute*	*Highly Porous Core-Shell Nanostructures*
11:40 – 12:40	visit to IJS laboratory (FIB, department F7, department K8 laboratory)	
12:40 – 14:00	lunch	
Topic **NANOMATERIALS** chair *Alberto Morgante UNITS, DF and IOM-CNR*		
25'+5' keynote	Tiziano Montini, UNITS, DSCF	*Challenging nanomaterials for sustainable processes*
8'+2'	Vanni Lughi, UNITS DIA	*Engineering (with) Nanoparticles*
8'+2'	Paolo Pengo, UNITS DSCF	*Tuning the surface properties of hybrid organic-inorganic nanoparticles*
8'+2'	Alessandro Sala, IOM-CNR	*Low- and variable-temperature scanning tunneling microscopy as a tool for probing nanostructures*
Topic **NANOMEDICINE** *chair Lucia Pasquato, University of Trieste*		
25'+5' keynote	Tatiana Da Ros, UNITS, DSCF	*Nanomedicine: principles and carbon nanostructure approaches*
8'+2'	Susanna Bosi, UNITS, DSCF	*Carbon nanomaterial based scaffolds for tissue engineering*
8'+2'	Alois Bonifacio, UNITS, DIA	*Nanotechnology meets photonics: Biomedical applications of Surface-Enhanced Raman Scattering*
8'+2'	Pasquale Sacco, UNITS, DSV	*Chitosan Acetylation Degree Influences the Physical Properties of Polysaccharide Nanoparticles: Implication for the Innate Immune Cells Response*
16:00 – 16:20	break	
Topic **NANOMATERIALS FOR ELECTRONICS AND ENERGY** *chair Alessandro Baraldi University of Trieste*		
25'+5' keynote	Alberto Morgante, UNITS, DF and IOM-CNR	*Ultrafast Charge Injection at Complex Interfaces: Organic-Organic, Organic-Inorganic and Organic-Graphene*
8'+2'	Giorgio Biasiol, IOM-CNR	*Epitaxial semiconductors heterostructures for nanoelectronics and nanophotonics*
8'+2'	Michele Melchionna, UNITS, DSCF	*Nanocarbon-metal oxide junctions in electrocatalytic energy processes*
8'+2'	Roberto Costantini, UNITS, IOM-CNR	*Picosecond timescale tracking of pentacene triplet excitons with time-resolved X-ray spectroscopies*
17:20 – 18:20	**Posters**	

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February, 6, 2020, Techniques and industrial applications

9:00 – 10:00	**Posters**	
10:00 – 10:40	Topic **Miscellaneous** *chair Darja Lisjak, Jozef Stefan Institute*	
10'+2'	Stanislav Čampelj InoVine d.o.o.	*Magnetic nanoparticles in beverage industry*
10'+2'	Miroslav Huskic, Faculty of Polimer Technology	*One-step surface modification and epoxy/graphene oxide nanocomposite preparation*
10'+2'	Peter Rodič *Jozef Stefan Institute*	*ALD technology*
10:40 – 11:00	break	
11:00 – 11:40	Topic **NANOMEDICINE – APPLICATIONS** *chair Alois Bonifacio, University of Trieste*	
10'+2'	Marco Lazzarino, IOM-CNR	*Nanotools for mechanobiology: substrates, probes and microscopes*
10'+2'	Paolo Macor, UNITS- Dep. of Medicine	*Targeting agents in the development of nanostructures for the treatment of inflammatory diseases and cancer*
10'+2'	Loredana Casalis, Elettra Sincrotrone Trieste	*Nanoscale strategies for high sensitivity liquid biopsy*
11:40 – 12:20	Topic **FIB microscopy and LDI protolaser in industrial application** *chair Martina Knavs, CENN, Institut Jozef Stefan*	
15'+2'	Gregor Kapun, *National Institut for Chemistry, CENN Nanocenter*	*Advanced FIB-SEM techniques for materials analysis and processing*
15'+2'	Masa Klenovsek *CENN Nanocenter*	*Direct laser Lithography system solutions*
12:20 – 13:30	lunch	
13:30 – 14:20	Topic **CHARACTERIZATION OF NANOMATERIALS** *chair Loredana Casalis, Elettra Sincrotrone Trieste*	
15'+5'	Andrea Locatelli, Elettra Sincrotrone Trieste	*Unveiling the local properties of nanomaterials using x-ray photoelectron spectromicroscopy*
15'+5'	Lisa Vaccari, Elettra Sincrotrone Trieste	*Micro and Nano-resolved approaches for Chemical and Life Science studies at Elettra Sincrotone Trieste*
8'+2'	Luca Bignardi, UNITS DF	*When each atom matters: the quest for novel tailored nanomaterials*
14:20 – 15:00	topic **Miscellaneous** *chair Darko Makovec, Jozef Stefan Institute*	
10'+2'	Matej Njegovec, FERI Uni MB	*FERI applications*
10'+2'	Aljosa Kosak, IOS	*Nanomaterials for environment and sensor applications*
10'+2'	Damjana Drobne, BF UniLJ	*Nano Risk governance and data management*
15:00 - 15:20	break	
15:20 – 16:15	Topic **CATALYSIS – APPLICATIONS** *chair Marco Lazzarino, IOM, CNR*	
10'+5'	Sara Colussi, Dipartimento Politecnico, INSTM, Università di Udine	*Catalysts at nanoscale for environmental applications*
10'+5'	Marta Boaro, Dipartimento Politecnico, INSTM, Università di Udine	*Nanostructured catalysts for todays energy challenges*
8'+2'	Marcello Ferrara, UNITS, DSCF	*Fast screening of N2RR catalysts with RRDE analysis*
16:15 – 16:30	Closing remarks	

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