CROSSNANO CROSSBORDER WORKSHOP IN NANOSCIENCE AND NANOTECHNOLOGY

WHEN 23-25 February 2021 9:00 – 18:00

WHERE On line Via Microsoft Teams

PhD School in Nanotechnology



ORGANIZERS

University of Trieste

Jožef Stefan International Postgraduate School

Jožef Stefan Institute

University of Ljubljana

FEBRUARY 23

9:00-9:30	OPENING Alberto Morgante – Coordinator of the PhD School in Nanotechnology, University of Trieste Giovanni Comelli – Director of the Physics Department of the University of Trieste Valter Sergo – Deputy Rector of the University of Trieste						
CHAIR: ALBE	RTO MORGANTE						
09:30-10:30	Denis Scaini						
	Imperial College London (UK)						
				actions to cellular modulation			
10:30-10:50	BREAK						
CHAIR: GIOV	ANNI COMELLI						
	PhD student	Cycle	Supervisor	Title			
10:50-11:10	Matteo Bisetto	35	P. Fornasiero	A study inside the photo-catalytic behavior of well- defined Cu₂O nanoparticles			
11:10-11:30	Filippo Costa	35	S. Prato	Imaging and analysis at nanoscale. Merging between SPM and optics			
11:30-11:50	Matteo Cretella	35	L. Pasquato	Design, synthesis and use of organic-inorganic nanoparticles protected by fluorinated ligands as nanomaterial for imaging and therapy			
11:50-12:10	Federico Loi	35	A. Baraldi	Investigation of structural and chemical properties of mass-selected clusters supported by 2D materials and oxides			
12:10-12:30	Anže Mraz		D. Mihailović	Nanoscale charge configuration memory devices and their use in cryocomputing environment			
12:30-14:30	LUNCH						
CHAIR: DARJ	A LISJAK						
	PhD student	Cycle	Supervisor	Title			
14:30-14:50	Oana Condurache		A. Benčan	Atomically resolved properties of domain walls in ferroelectric BiFeO $_3$ bulk			
14:50-15:10	Silvia Mauri	35	P. Torelli	Investigation of the surface reactivity of catalysts by operando X-ray absorption spectroscopy with synchrotron radiation			
15:10-15:30	Edoardo Raciti	35	M. Prato	Light-driven electron transfer processes performed by carbon nitride-based nanocatalysts			
15:30-15:50	Aharon Steffè	35	G. Toffoli	Triple-action nanoplatform for theranostic applications in hepatocellular carcinoma (HCC)			
15:50-16:10	BREAK						
CHAIR: ALOI	S BONIFACIO						
	PhD student	Cycle	Supervisor	Title			
16:10-16:30	Živa Marinko	·	M. Čeh	Anodized titanium foils for a flexible TiO ₂ photocatalyst			
16:30-16:50	Mina Taleblou	35	S. Piccinin	Controlling the oxidizability of supported Platinum nanoclusters			

16:50-17:10	Michele Zanetti	35	M. Lazzarino	Hybrid organic interfaces to investigate the
				mechanical competence of cardiac myocytes, in
				order to drive their appropriate development

FEBRUARY 24

	PhD student	Cycle	Supervisor	Title
09:30-9:50	Marco Beltrami	34	O. Sbaizero	Nanostructuring multilayer ceramic coatings for wood cutting tools
09:50-10:10	Erik Betz-Güttner	34	M. Lazzarino	Terahertz sensing with golay cells microarray device
10:10-10:30	Davide Busatto	34	G. Toffoli	A novel approach for the treatment of pancreatic ductal adenocarcinoma adopting anti-Glypican 1 polymeric nanoparticles loaded with chemotherapeutic agents
10:30-10.50	Martina Conti	34	M. Lazzarino	Nanomechanics structures for the detection and study of cells
10:50-11:10	Ivan Spajić		l. Milošev	Single and multilayer Al ₂ O ₃ and HfO ₂ thin films prepared by atomic layer deposition as corrosion protection of medical stainless steel and titanium
11:10-11:30	BREAK			

CHAIR: TOM	CHAIR: TOMAŽ MERTELJ				
	PhD student	Cycle	Supervisor	Title	
11:30-11.50	Mario Daka	34	L. Pasquato	Synthesis, nanocharacterization and applications of nanoparticles and nanomaterials with controlled properties	
11:50-12:10	Federica Di Cintio	34	G. Toffoli	Nanoparticles anti-GPC1 loaded with chemotherapy drug in glioblastoma multiforme (GBM) treatment	
12:10-12:30	Simone Di Noja	34	M. Prato	Synthesis, properties and applications of nanocarbonaceous systems	
12:30-12.50	Patricija Hribar Boštjančič		A. Mertlej	Phase behaviour of alcohol suspensions of magnetic barium hexaferrite nanoplatelets	

12:50-14:50 LUNCH

CHAIR: JELE	CHAIR: JELENA PAPAN				
	PhD student	Cycle	Supervisor	Title	
14:50-15:10	Alessandro Esposito	34	V. Sergo	Design, nanofabrication and characterization of nanostructured metal surfaces as substrates for SERS for bioanalytic analyses and study of their behavior at the nano-biointerface	
15:10-15:30	Marcello Ferrara	34	P. Fornasiero	Smart nanostructured electrocatalysts for carbon dioxide reduction	

15:30-15:50	Arianna Gazzi	34	M. Prato	Immunocompatibility and biomedical applications of new nanocarbons
15:50-16:10	Matej Šadl		H. Uršič	Aerosol deposition as an enabling technology for flexible energy storage and electrocaloric devices

16:10-16:30 BREAK

	PhD student	Cycle	Supervisor	Title
16:30-16:50	Ahmed Alsadig Ahmed Mohammed	34	L. Casalis	Programmable gold nanoparticles- based probes: A versatile platform toward the development of nanotools for diagnostic applications
16:50-17:10	Monica Mossenta	34	G. Toffoli	Development of a drug delivery therapy strategy through polymeric nanoparticles with an anti-GPC3 antibody coating and chemotherapic loading to treat hepatocellular carcinoma
17:10-17:30	Cristian Soncini	34	M. Pedio	Non equilibrium phenomena: effect on spectroscopies in semiconductors
17:30-17:50	Chiara Stocco	34	Z. M. Arnez	Nanofiber polymeric scaffold for slow and steady release of VEGF and ECs to induce efficient angiogenesis and healing in a mouse model of hind limb ischemia

FEBRUARY 25

	PhD student	Cycle	Supervisor	Title		
9:30-9:50	Alice Battistella	33	M. Lazzarino	Atomic Force spectroscopy-based essay to evaluate oocyte post-ovulatory ageing		
9:50-10:10	Sebastjan Nemec		S. Kralj	Synthesis of silica coatings with diverse surface morphologies on anisotropic magnetic nanoparticles for magneto- mechanical actuation		
10:10-10:30	Leonard Moriau		N. Hodnik	From oxygen reduction reaction and oxygen evolution reaction catalysts to a single multifunctional catalyst for the Regenerative PEM Fuel Cell		
10:30-10:50	Lima Maria Augusta Do Rego Barros Fernandes	33	D. Cojoc	Investigating label-free markers at nanoscale for cancer cells using		
10:50-11:10	BREAK					
CHAIR: ALBE	RTO MORGANTE					
	PhD student	Cycle	Supervisor	Title		
11:10-11:30	Sara Fiori	33	C. Africh	A network of carbon atoms for toxic gases trapping		
11:30-11:50	Rok Venturini		D. Mihailović	Research of ultrafast phase switching in 1T TaS₂ by a picosecond electrical pulse		
11:50-12:10	Timur Nurmamytov	33	S. Rubini	Growth of ordered nanowire arrays containing magnetic inserts		
12:10-12:30	Beatrice Senigagliesi	33	P. Parisse	Biophysical and biomolecular analysis of EVs and their interaction with target cells		
12:30-14:30	LUNCH					
CHAIR: VANI	NI LUGHI					
	PhD student	Cycle	Supervisor	Title		
14:30-14:50	Domenico Tierno	33	S. Bonin	Comprehensive characterization and effective combinatorial targeting of high- grade serous ovarian cancer via single-cell analysis		
14:50-15:10	Stefano Valente	33	L. Pasquato	Hybrid nanoparticles for theranostics: design, synthesis and characterization		
15:10-15:30	BREAK					
15:30-15:50	"FERNANDO TOMMASINI" AWARD "ALESSANDRO DE VITA" AWARD "BEST CAREER" AWARD					
15:50-16:10	Dragan Mihailović – Director o	f the Cen	tre of Excellend	Nanotechnology, University of Trieste ce in Nanoscience and Nanotechnology nd University of Ljubljana		