

Scientific programme

Thursday, September 24th

8:00 – 9:00	Registration	
9:00 – 9:15	Opening	Presentation Page
	Session 1 - chair Miroslav Huskić	
9:15 – 9:45	Invited lecture: Aravind Vijayaraghavan High-grip and hard-wearing graphene reinforced polyurethane coatings	online
9:45 – 10:15	Invited lecture: Silvia Marchesan Hybrid functional matter shaped by nanocarbon templates	SG
	FLASH Presentations (5 x 6 min talks)	
	Andraž Rešetič Thermomechanical functionalization of conventional silicone rubber – study and development of polymer dispersed liquid crystal elastomers	SG
	Jacek Wychowaniec Unique cellular network formation guided by heterostructures based on reduced graphene oxide - Ti3C2Tx MXene hydrogels	online
10:15 – 10:45	Joanna Rymarczyk Carbon nanocomposite materials with gold nanoparticles - synthesis, characterization, applications	online
	Liutauras Marcinauskas Influence of the dopant type on the structure of amorphous carbon films	online
	Maria Rybarczyk Coal Fly Ashes as a platform towards functional materials	online
10:45 – 11:15	Coffee break and Poster session	
	Session 2 - chair Sharali Malik	
11:15 – 11:45	Invited lecture: Sharali Malik Nanotubes from Atlantis : Catalytic growth of Carbon Nanotubes	SG
	FLASH Presentations (6x 6 min talks)	
	Alen Oseli Nano-mesh formation in single-walled carbon nanotube / polyethylene nanocomposites and its effect on their physical properties	online
11:45 – 12:25	Saide Umerova Rheology of thermomechanically active shape-programmable elastomer microparticles suspension in a viscous medium	SG
	Ana Barra Graphene-based sponges for water decontamination	online

	Tamas Szabó Platelet size-effects in the colloidal stability of aqueous graphene oxide dispersions	online
	Valentina Gargiulo Enhancing TiO ₂ photocatalytic activity: a survey on the effects of self-doping and of GRM-TiO ₂ interfacing	online
	Marjetka Conradi Stainless Steel Wettability And Friction In Different Environments Manipulated By Adsorption Of TiO ₂ Nanoparticle Coatings	online
12:25 – 14:00	Lunch brake	
	Session 3 - chair Silvia Marchesan	
14:00 – 14:30	Invited lecture: Paola Ayala Working towards sensing at room temperature with carbon nanotubes	SG
	FLASH Presentations (3 x 6 min talks)	
	Yasir Beeran Pottathara Dielectric Films from Cellulose nanofibrils and Graphene Oxide	SG
14:30 – 14:50	Zélia Alves Antioxidant and electrically conductive starch-based films with multiwalled carbon nanotubes: the effect of surfactant solution	online
	Roberto Di Capua Integration of conductive layers within the Eumelanin pigment: advanced spectroscopic and structural studies on EU/GL and EU/GO hybrid materials	online
14:50 – 16:00	Visit to FTPO labs	
19:00 – 22:00	Conference dinner	

Friday, September 25th

8:30 – 9:00	Registration	
	Session 4 - chair Paola Ayala	
9:00 – 9:30	Invited lecture: Mitjan Kalin Lubrication of diamond-like carbon (DLC) coatings: challenges and opportunities	SG
9:30 – 10:00	Invited lecture: Milo Shaffer Incorporating nanotubes into next generation fibre reinforcements	online
	FLASH Presentations (5 x 6 min talks)	
10:00 – 10:30	Tjaša Kolar Thermo-physiological and mechanical properties of textile, screen-printed with SWCNT-based printing pastes	SG
	Raul Arenal In-situ TEM Studies on Carbon Nanomaterials	online
	Michela Alfè Carbon Dots (CND) from carbon black: scalable top-down production and deposition in ultrathin film	online
	Christopher Ewels Bottom-up design and realisation of stable fullerene spin systems	online
	Maria Kandyla Functional surfaces of laser-microstructured silicon coated with polymer blends with reversible wettability upon heating	online
10:30 – 11:00	Coffee break and Poster session	
	Session 5 - chair Mitjan Kalin	
11:00 – 11:30	Invited lecture: Petra Pötschke Melt-mixed thermoplastic polymer-CNT composites as thermoelectric materials	online
11:30 – 12:00	Invited lecture: Jan Peters Diversity and inclusion: beyond numbers. Communication and Coaching in STEM Research	online
12:00 – 12:50	MC Meeting	online to SO and MC members
12:50 – 14:00	Lunch brake	
14:00 – 15:00	MC Meeting concluded	online to SO and MC members
15:00 – 18:00	WGs Meetings and WGs Leaders/Representatives Reporting	SG

Posters	
P1	Tamara Rozman Kinetic of crystallization of HDPE/SWCNT determined by Fast Scanning Chip Calorimetry
P2	Jaroslav Otta Thin Metal Layers as DRLs for High-Resolution CW-LIFT of Phthalocyanine-Fullerene Heterojunctions
P3	Aleksandras Iljinas Formation of titanium doped diamond-like carbon films by magnetron sputtering technique
P4	Subramanian Lakshmanan Temperature dependent electrical conductive properties of films prepared from differently dispersed single-walled carbon nanotubes and cellulose nanofibrils
P5	Polona Umek The role of cerium in $\text{H}_2\text{Ti}_3\text{O}_7$ nanoribbons in transformation to TiO_2 -B nanoribbons
P6	Ivan Radović Wake effect in interactions of ions with graphene-sapphire-graphene structure
P7	Ivan Brnardić Influence of Mg on Al alloy / MWCNT nanocomposites