Agenda of the 16th IPSSC

			Day 1 (29th May)
Time 8.00-9.15	Activity	Presenting	<b>Title</b> Registration
9.15-10.00			Welcome speech + Prof. Dr. Milena Horvat
10.00-11.00	Presentation session 1	Victor Regis     Megha Manikandan     Meryem Lachhab     Marcela Hrušková     Ana Kraš     Katarina Tomić     Mark Zver	Lead magnesium niobate-based multicaloric thick-film composites Investigating Lithium metal dendrite growth by Magnetic resonance imaging Crystallographic defects in cold-sintered ferroelectric ceramics Behavior of nucleic acids at electrode surfaces: effects of structure and chemical modification Assessing Feasibility of Corrosion Resistance Evaluation Techniques for Zirconium Conversion Coatings on Zinc Neuropeptide receptor Y as potential target for specific cancer treatment Key role of OH radicals for inactivation of viruses in water
11.00-11.30			Poster session with a coffee break
11.30-12.15	Presentation session 1	8 Maja Caf 9 Ivana Goričan 10 Layrton José da Silva 11 Vinko Sršan 12 Lea Gašparič 13 Blaž Velkavrh 14 Erik Uran	The effect of functionalized gold nanoparticles on cell membrane electroporation Pb/Fe0.5Nb0.5/03-BiFe03 ceramics and thick films for energy storage applications In-situ Electrochemical Liquid Cell TEM study of copper electrodeposition and electro-dissolution during potential cycling High resolution imaging of boron atomic columns in Nd2Fe14B permanent magnet using electron ptychography Structure-Activity Relationship of Ruthenium Catalysts for Hydrogen Evolution Reaction Dielectric thick films for use in digital microfluidic thermal switches Oyanogen adduct of [VeF][AsF6] and products thereof
12.15-13.30			Lunch
13.30 - 14.15			Talk: "Nanomedicine"- Assist. Prof. Dr. Nina Kostevšek, JSI
14.15-15.00	Presentation session 1	15 Ana Koblar 16 Martina Žabčić 17 Blaž Jaklič 18 Klara Laura Konda 19 Žan Gostenčnik 20 Erik Gregori	Copper patina as a form of corrosion protection  A new generation of contact-based antimicrobial biomaterials  Unraveling anisotropic behavior of LiNIt/3Mn1/3Co1/3O2 through controlled epitaxial thin film growth via pulsed laser deposition  The influence of process conditions on ZnO nanorods formation and their photocatalytic caffeine degradation efficiency  Using a novel approach to design a versatile lab-scale magnetron-sputtering deposition system  Adsorption of thiadiazoles on Cu(111) promoted by chemisorbed 0: a DFT study
15.00-15.45			Free time
15.45-18.00			Boat trip
18.00-20.00			Dinner + Free time
20.00-			Social activities

			Day 2 (30th May)
Time	Activity	Presenting	Title
8.00-9.00			Breakfast
9.00-9.15			Gathering of participants
	Presentation session 2	21 Katja Drobež	Influence of the functionalisation with catechols on the chemical stability of barium hexaferrite nanoplatelets
		22 Mihaela Rebernik	Optimizing Recycled Nd-Fe-B Magnets via Single Grain Boundary Engineering
		23 Rebeka Strah	Regenerating single cells of grapevine cv. Zweiglet into whole plants
9.15-10.00		24 Andrii Hultiaiev	Systematic investigation of the copper (I) chloride – HCI - triethylenediamine system in composition space diagram
		25 Nina Kovač	Corrosion protection of AZ31 magnesium alloy using sol-gel coating
		26 Kity Požek	Structural insights into Vaa-snaclec-3/2 antiplatelet activity
		27 Jošt Oblak	Manufacturing of complex ceramic parts by light patterning of photoactive resin
		28 Jošt Tručl	Colloidal stability of the ricinoleic-acid functionalized magnetic nanoplatelets in apolar solvents
10.00-10.30			Poster session with a coffee break
		29 Janko Stankić	Using exposure load to examine the burden of multiple chemicals in men and lactating women
		30 Lara Ropič Bizjak	Determination of contaminants of emerging concern in hair as a complimentary matrix for human biomonitoring
		31 Maria Rubio	The purpose of participatory research in urban health
10.30-11.30	Presentation session 2	32 Abdur Rehman Anwar	Edible lasers
		33 Pia Pajk	Removal of bisphenols from drinking and waste- water using hydrodynamic cavitation and photocatalysis
		34 Anže Tesovnik	Artificial Aggregates from Fly Ash for a Sustainable Build Environment
		35 Damjan Rajaković	Exploring ways of removing PFAS from wastewater: Application of Cold Atmospheric Plasma
		36 Filip Džeroski	Cluster analysis of tert-butyl dimethyl silyl (TBDMS) derivatives dataset
11.30-12.15	Talk	: "Infinite - From the scientific curic	osity to new disruptive technology on the health-hazard assessment market" - Prof. Dr. Janez Štrancar, Infinite, JSI
12.15-13.45			Lunch
		37 Ivan Konjević	Are Surface-Active Substances Influencing the Particle Dynamics?
	Presentation session 2	38 Joyal Johny	Low-cost catalysts for green hydrogen generation through water splitting
13.45-14.30		39 Anja Pavlovič	Effects of Fluoride, Aluminium and Their Complexes on Macrophage Viability In Vitro
		40 Blaž Bohinc	Increasing Efficiency of Biophotoelectrochemical Processes by Structuring Biofilms of Aerobic Phototrophic Microorganisms
		41 Juš Polanšek	Thrust force generated by surface dielectric barrier discharge
		42 Brina Pavlovič	Advancing Seafood Authentication: Integrated Isotope and Elemental Techniques for Origin and Production Method Verification
14.30-15.15 15.15-15.45		Round table with iv	IPŠ Alumni club (Assist. Prof. Dr. Kristina Žagar Soderžnik, Dr. Blaž Fortuna, Dr. Jelena Isailović)
15.15-15.45		40 M. Š.	Poster session with a coffee break
	Presentation session 2	43 Miha Štruc 44 Tamara Kerševan	Enhancing Bioleaching Efficiency for Metal Recovery from WEEE
			Size-dependent bacterial distribution and correlation with mercury concentrations
15.45-16.45		45 Ardita Kurtishaj Hamzaj 46 Olha Sanko	Hydrogen Separation with Membranes: Accounting for the Interference Effect in Quadrupole Mass Spectrometers
10.40-10.40			A novel compound with Xe-N bond: [NCCH2CN-XeF][AsF6]HF
		47 Tim Ravnjak	Toxicity of Bisphenol A, its analogues Bisphenol AP and Bisphenol C and their binary mixtures
		48 Tomaž Mržljak 49 Klemen Motaln	Synthesis of inorganic compounds of some metals with XeF2 and their characterization
16.45-17.15	Talk: "P		Evaluation of hydrostatic properties of selected halogenated fluids under high pressure  Erce Paoli, InnoRenew CoE, Mlada Akademija and Assist. Prof. Dr. Ana Slavec, InnoRenew CoE, UP, Mlada Akademija
17.15-20.00	Taik. R	esearcher wentar healtir - Mateja	Dinner + Free time
20.00-			Social activities

Day 3 (31st May)					
Time	Activity	Presenting	Title		
8.00-9.00			Breakfast		
9.00-9.15			Gathering of participants		
	Presentation session 3	50 Boštjan Gec	Using equation discovery to analyze ToF-SIMS data in materials science for energy production		
		51 Matic Rutnik	Electric power supply of residential houses by renewable sources assisted by hydrogen storage		
		52 Sara Podgornik	Interaction of hypoxic confinement and (in)activity: The effects on sleep quality, mood, and cognition		
9.15-10.00		53 Abhilash Krishnamurthy	Evaluation of the influence of analog vs digital hardware for electrochemical measurements		
		54 Erik Calcina	Large Language Models for Efficient Extraction of Relevant Information from Medical Records		
		55 Edoardo Donà	Design of experiment methodology to optimize dimethoate hydrolysis and improve fluorescence detection efficiency.		
		56 Sebastian Mežnar	Behaviour Guided Metric for Equation Discovery		
10.00-10.30			Poster session with a coffee break		
10.30-11.00			Talk: "Stumbling into Academia" - Dr. Rok Novak, JSI		
		57 Martin Perčinić	A variational autoencoder for n-ary trees		
		58 Nina Omejc	Assessing time-resolved cortico-muscular coupling using dynamical Bayesian inference		
		59 Jack Fortune	Resistive Vibration Exercise with Artificial Gravity: Energy Cost and Muscular Strain		
11.00-12.00	Presentation session 3	60 Jason Fisher	Regional Variation of the Vasomotor Zone in Different Postures		
		61 Jan Šifrer	The Challenge of Robot Accuracy – Exploiting Physical Contacts		
		62 Riccardo Sorrentino	The effects of 2-weeks resistive vibration exercise with and without artificial gravity on muscle function		
		63 Viktor Andonovikj	Enhancing Model Interpretability through Variational Bayes: A Single-Tree Alternative to Tree Ensembles		
12.00-12.30			Poster session with a coffee break		
12.30-13.00			Prof. Dr. Aleksander Zidanšek		
13.00-13.30			Closing ceremony & awards		