

Day 1 (27. May)

8:30	Registration and Conference Opening	
9:00	Welcome speeches by president of IPS Student council Rok Novak and president of IPSSC organizing committee Klara Nagode	
9:10	prof. dr. Ingrid Milošev - President of Scientific Programme Committee	
9:20	prof. dr. Milena Horvat – Dean of IPS	
9:30	The EU Green deal and academia Anthony Agotha – Senior Diplomatic Expert in the Cabinet of Frans Timmermans, Executive Vice-President of the European Commission Presentation will be followed by a brief Q&A session	
10:30	Coffee Break	
10:40	Presentation by our Gold sponsor Cinkarna Celje	
11:00	Presentations of Group 1	
	Aleksander Benčič	The evaluation of effects on targeted high-throughput sequencing for the detection of bacteria and determination of microbiome in sputum samples
	Mark Paul Selda Rivarez	2 years, 2 countries, 468 plants: a survey of tomato and weed virosphere in Slovenia and Serbia to equip virus diagnostics with a knowledgebase
	Maria Laimou-Geraniou	Development and application of the method for determination of selected psychoactive pharmaceuticals in wastewater
	Katja Babič	Optimisation and validation of HS-SPME GC-MS method for the analysis of volatile organic compounds (VOCs) in dry-cured ham
	Giulia Della Pelle	Cyanine dyes for photothermal therapy: a comparison of carriers
	Žiga Tkalec	Unexpected exposure of children: Novel non-targeted screening workflow
	Lea Udovč	Simple method to prepare piezoelectric nano-textured films for wound healing applications
	Polona Klemenčič	Exposure to Cadmium in Slovenian population
	Mojca Janc	On a way to better understand the viral particles populations present in gene therapy drugs
	Olivera Maksimović	Wastewater surveillance for SARS CoV 2: deep dive into our society's health
	Carvalho Ferreira	
	Tine Bizjak	COVID-19 pandemic situation in Slovenia from the decision and risk analysis points of view
	Johanna Amalia Robinson	User experience and motivation of volunteers involved in environmental health studies based on low-cost air quality sensor technologies
	Neža Palir	Impact of APOE and ALAD gene polymorphisms on trace elements in pregnant women
	Jasmina Masten Rutar	Yeast lysate protein profile characterization by Orbitrap mass spectrometry: Effect of fermented Spirulina water or ethanol extract on yeast as a model organism
	Agneta A. Runkel	Organic contaminants and where to find them
12:15	Lunch break + poster session	

14:30	Presentations of Group 2	
	Bright Birikorang	Natural recovery of the environment polluted by past mercury mining by studying the fractionation of mercury in river water
	Zvezdan Lončarević	Generation of a Priori Knowledge for Reinforcement Learning Using Neural Networks
	Dominik Božič	Optimization of sample preparation procedures for Hg isotopic measurements
	Luka Mišković	Testbed for a quasi-passive actuator for robotic exoskeleton
	Maaire Gyengne Francis	Monitoring of total mercury in air of the former mercury mine and in the vicinity of the cement production facility
	Saša Harkai	Electric field driven reconfigurable nematic topological defect patterns
	Mišel Gorenčič	Isotopes of Sr and Mg in a karst aquifer of the Ljubljana River
	Margarita Antoniou	Worst-Case Scenario Optimisation: Bilevel Evolutionary Approaches
	Rok Novak	Complex activity recognition using classification methods on low-cost portable ambient and activity sensor data
	Filip Jenko	Difference in adaptation to force field perturbation during hand reaching movement with random or alternating sequence of perturbation directions
	Sabi William Konsago	Preparation of solid solution of barium titanate-based thin films by chemical solution deposition
	Viktor Andonovic	Estimating the time a client stays in the job-search process
	Maja Erkechova	Condition monitoring of solid oxide fuel cells by a data-driven modelling approach
	Neelakandan M Santhosh	Advanced Carbon-Nickel Sulphide Based Hybrid Electrodes for Lithium-Ion Batteries
	Matej Šadl	Relaxor-ferroelectric ceramic thick films integrated by aerosol deposition on metal and polymer substrates
	Lia Šibav	Tuning the magnetic and charge ground states of the Shastry-Sutherland compound $\text{SrCu}_2(\text{BO}_3)_2$ by chemical doping

Day 2 (28. May)

8:00	Welcome message, a short recap of the previous day and an introduction to the day that is ahead	
8:15	prof. dr. Marko Vrabec – Active tectonics of the Sava fault and the rise of the Kamnik Alps in the last ~ 10 million years	
8:30	Presentations of Group 3	
	Tjaša Kolar	Mechanical, thermo-physiological and moisture management properties of flame-retardant textile screen-printed with Al(OH) ₃ and cellulose nanofibrils
	Monika Kušter	Preparation and mechanical properties of low-adhesive high-strength composite material based on Polymer matrix reinforced with Al-based Quasicrystal powder
	Uroš Hribar	The mechanism of glass-foaming with water glass
	Ipeknaž Özden	Thermoplastic 3D Printing of Ceramics
	Anubhav Vishwakarma	Design of permanent magnets by solving the inverse magnetostatics problem
	Petruša Borštnar	Synthesis and characterization of Li ₃ xLa _(2/3) -xTiO ₃ ceramics for applications in all-solid-state batteries
	Patrick Seleš	Nanostructured ZnO for photocatalytic degradation of synthetic microfibers
	Alja Čontala	Hydrogen Evolution with SrTiO ₃ /Bi ₄ Ti ₃ O ₁₂ Nanoheterostructural Platelets as Nobel-Metal Free Photocatalyst
	Samir Salmanov	Cold sintering: an efficient strategy to produce functional materials
	Nina Kuzmić	Room temperature fabricated ceramic composites as future capacitors
	Oana Condurache	Investigation of domain walls in ferroelectric bismuth ferrite at the atomic scale
	Nagode Klara	An isotope perspective of urban water system
	Aleksander Učakar	Corrosion stability of sintered and injection moulded ferrite-based magnets
	Katarina Žiberna	Microstructural characterisation of ferroelectric BaTiO ₃ -based thin films
	Sebastjan Nemec	Synthesis of magnetically responsive core-shell anisotropic magnetic nanoparticles coated with silica for magneto-mechanical actuation
10:00	Coffee break	

10:15	<p>Presentations of Group 4</p> <p>Anja Vehar Development of an analytical method for the determination of bisphenols in activated sludge and their fate during conventional wastewater treatment</p> <p>Kaja Kupnik Antimicrobial components from avocado seeds for potential applications in medicine and food industry</p> <p>Kity Požek VaaMPIII-3: a disintegrin-like/cysteine-rich protein from the nose-horned viper venom and its effect on platelets</p> <p>Matic Grojzdek Environmental benefits of biomass pyrolysis and biochar production</p> <p>Zala Kogej Development and usage of detection test for 'Candidatus Phytoplasma pruni'</p> <p>Lars Zver Using the Ion S5 System for next-generation sequencing of Late Pleistocene and Holocene Bison samples</p> <p>Dmitrii Deev How can bacteria be forced to make useful biofilm?</p> <p>Ivano Vascotto Using programming to increase the efficiency of microscopic measurements of biological objects</p> <p>Helena Plešnik Bias in analytical methods: Bleomycin case study</p> <p>Ana Oberlintner Hydrophobization Study of Cellulose Nanofibrils Films with CF4 plasma</p> <p>Leja Rován What can U and Th isotopic composition tell us about environmental processes in karstic settings?</p> <p>Tjaša Goltnik Development of an analytical method for the determination of the isotopic composition of Pb in environmental samples</p> <p>Tina Čerňič Suppression of the dissolution of NaYF₄-based upconverting nanoparticles at physiological conditions</p> <p>Lea Lamovšek Advancing sample preparation through molecularly imprinted polymers</p>
11:30	Coffee break
11:40	Dr. Marjetka Levstek, Chem. Eng - Operation and challenges of Domžale - Kamnik Wastewater Treatment Plant
12:00	Awards ceremony
12:10	Group photo and goodbye message