



ADVANCES IN SOLID STATE PHYSICS AND NEW MATERIALS

30 years of the Center for Solid State Physics and New Materials at the Institute of Physics Belgrade

CONFERENCE PROGRAM

LOCATION:

Serbian Academy of Sciences and Arts,
Kneza Mihaila 35, 11 000 Belgrade, Serbia



MAY 19–23, 2025

SERBIAN ACADEMY OF SCIENCES AND ARTS AND INSTITUTE OF PHYSICS BELGRADE

Advances in Solid State Physics and New Materials - May 19–23

Time	Session A – Main Hall	May 19	Session B – Hall 1	Time
08:30–09:30	Registration			08:30–09:30
09:30–10:30	Opening ceremony			09:30–10:30
10:30–10:50	Coffee Break			10:30–10:50
Chair	Nenad Lazarević	Bojan Stojadinović	Chair	
10:50–11:20	Thomas Devereaux (USA) <i>“Thermal Hall in Quantum Antiferromagnets”</i>	Nandakumar Kalarikkal (India) <i>“Novel 2D Hybrid Platforms for Emerging Applications”</i>		10:50–11:20
11:20–11:50	Kurt Hingerl (Austria) <i>“Optical Transitions Between Entangled Electron-Phonon States”</i>	Jasmina Lazarević (Serbia) <i>“Exploring Structural Phase Transitions in Atorvastatin Calcium Trihydrate through Variable-Temperature Raman Spectroscopy”</i>		11:20–11:40
11:50–12:20	Cedomir Petrovic (China and Serbia) <i>“Fermi Surface characteristics in FeP₂”</i>	Marko Opačić (Serbia) <i>“Strain-dependent vibrational properties of SrIrO₃ thin films”</i>		11:40–12:00
		Andrijana Šolajić (Serbia) <i>“Strain Engineering in hBN/M^{III}X^{VI} Heterostructures for Enhanced Optoelectronic Performance”</i>		12:00–12:20
12:20–14:15	Lunch Break			12:20–14:15
Chair	Thomas Devereaux	Zorica Popović	Chair	
14:15–14:45	Milorad Milošević (Belgium) <i>“Brain inspired computing with superconducting neurons”</i>	Danica Krstovska (N. Macedonia) <i>“Physical characterization and device application of organic bilayer films”</i>		14:15–14:45
14:45–15:15	Leonardo Degiorgi (ETH Zurich) <i>“Optical Signature of Anomalous Hall Effect in a Correlated Magnetic Weyl Semimetal”</i>	Miroslav Požek (Croatia) <i>“Phase Separation in Lightly Doped La_{2-x}Sr_xCuO₄ Studied by Cu NMR”</i>		14:45–15:15
15:15–15:45	Vladimir Damjanović (Serbia) <i>“Group-Theoretical Study of Simple Bands in Two-Dimensional Materials”</i>	Božidar Šoškić (Montenegro & Belgium) <i>“Superconducting Properties of Borophenes from First Principles “</i>		15:15–15:45
15:45–16:05	Coffee Break			15:45–16:05

30-minute talks: 25 min presentation + 5 min Q&A | 20-minute talks: 15 min presentation + 5 min Q&A

Advances in Solid State Physics and New Materials - May 19-23

Time	Session A – Main Hall	May 19	Session B – Hall 1	Time
Chair	Milorad Milošević		Zorica Konstantinović	Chair
	Jochen Geck (Germany)		Zorica Lazarević (Serbia)	
16:05–16:35	<i>“Elastic lattice tuning and magnetic interactions of Kitaev materials” (online)</i>		<i>“Innovative Approach to Studying the Structural, Magnetic and Electrical Characteristics of Nano Spinel Ferrites Prepared via Soft Mechanochemical Synthesis”</i>	16:05–16:35
	Zurab Guguchia (Switzerland)		Radoš Gajić (Serbia)	
16:35–17:05	<i>“Unconventional Superconductivity and Charge Order in Kagome Lattices Revealed by Muon Spin Rotation” (online)</i>		<i>“Wettability of Covellite”</i>	16:35–17:05

30-minute talks: 25 min presentation + 5 min Q&A / 20-minute talks: 15 min presentation + 5 min Q&A

Advances in Solid State Physics and New Materials - May 19–23

Time	Session A – Main Hall	May 20	Session B – Hall 1	Time
Chair	Ana Milosavljević (WS1)	Matthias Opel		Chair
09:00–09:30	Andres Cantarero (Spain) <i>„Thickness dependence of the CrI₃ dielectric function”</i>	Marko Kralj (Croatia) <i>“Exploring New Horizons: Epitaxial Growth of Next-Generation 2D Materials”</i>		09:00–09:30
09:30–10:00	Hermann Suderow (Spain) <i>“Surface Charge Density Wave in UTe₂”</i>	Luka Pirker (Czech Republic) <i>“The Role of Metallic Substrates in Large-Area Exfoliation of TMDCs”</i>		09:30–10:00
10:00–10:30	Yann Gallais (France) <i>“Ultrafast Raman scattering in quantum materials”</i>	Antonio Bianconi (Italy) <i>“Artificial High T_c SCs with T_c amplification on demand made of nano HSs by quantum design tuned at a Fano-Feshbach shape resonance”</i>		10:00–10:30
10:30–10:50	Coffee Break			
	Yann Gallais (WS1)	Ivana Milošević		
10:50–11:20	Caitlin O’Neil (Germany) <i>“The stress-strain relationship of quantum materials: New method developments and application to Sr₂RuO₄”</i>	Igor Pašti (Serbia) <i>“Unraveling the Electrochromic Mechanism of Ni-Deficient NiO: A Charge Localization Perspective from DFT+U Calculations”</i>		10:50–11:20
		Dimitrije Stepanenko (Serbia) <i>“Photon Condensation and Electromagnetic Response in Single Molecule Antiferromagnets with Flux Coupling”</i>		11:20–11:40
11:20–11:50	Goran Karapetrov (USA) <i>“Coexistence of Superconductivity and Chiral Charge Density Wave in TiSe₂”</i>	Dejan Djokic (Serbia) <i>“Unlocking the Universality of Fano’s Effect in Raman Spectroscopy and Its Role in Condensed Matter Physics”</i>		11:40–12:00
11:50–12:20	Zhenzhong Shi (China) <i>“Elasticity of Charge Density Wave Superlattice in Low-dimensional Materials”</i>	Anđelija Ilic (Serbia) <i>“Applications of Small Air Ions and Electromagnetic Fields in Research with Biological Materials”</i>		12:00–12:20

30-minute talks: 25 min presentation + 5 min Q&A / 20-minute talks: 15 min presentation + 5 min Q&A

Advances in Solid State Physics and New Materials - May 19–23

Time	Session A – Main Hall	May 20	Session B – Hall 1	Time
12:20–14:15	Lunch Break			12:20–14:15
Chair	Marko Kralj	Jelena Pešić	Chair	
14:15–14:45	Matthias Opel (Germany) <i>"Magnon Spin Transport in Antiferromagnetic Insulators"</i>	Radmila Panajotovic (Serbia) <i>"Graphene-based Composite Thin Films with Self Assembling Biomolecules as Active Elements in Sensors"</i>	14:15–14:45	
14:45–15:05		Ivana Milošević (Serbia) <i>"Tuning the Properties of Liquid-Phase Exfoliated Langmuir-Blodgett Assembled Graphene Films via Chemical Doping"</i>	14:45–15:05	
14:45–15:15	Bojana Višić (Serbia), <i>"Inorganic Nanotubes and Nanowires in Polymer Matrices: Potential for Sensing Applications"</i>	Nataša Tomić (Serbia) <i>"The Morphological And Structural Changes Of V₂O₅ Cathode Film Upon Electrochemical Cycling"</i>	15:05–15:25	
15:15–15:45	Branislav Nikolić (USA) <i>"How ultrafast demagnetization drives spin and charge currents and the ensuing THz radiation"</i>	Bojan Stojadinović (Serbia) <i>"Role of terbium dopant and oxygen vacancies on conductive properties of BiFeO₃ thin films"</i>	15:25–15:45	
15:45–16:05	Coffee Break			15:45–16:05
Chair	Andrijana Šolajić	Igor Pašti	Chair	
16:05–16:35	Mazhar Ali (Netherlands) <i>"The Josephson Diode Effect with 2D Kagome Mott Insulators Nb₃X₈ (X = Cl, Br, I)" (online)</i>	Marko Spasenović (Serbia) <i>"Laser-Induced Graphene on Polymer Substrates for Monitoring Physiological Parameters"</i>	16:05–16:35	
16:35–17:05	Nicola Poccia (Italy and Germany) <i>"Exploring quantum complexity in artificially twisted superconducting heterostructures" (online)</i>	Enrico Di Lucente (Switzerland) <i>"Phonon Boltzmann transport equation beyond the semiclassical regime"</i>	16:35–17:05	

30-minute talks: 25 min presentation + 5 min Q&A | 20-minute talks: 15 min presentation + 5 min Q&A

Advances in Solid State Physics and New Materials - May 19-23

Time	Session A – Main Hall	May 20	Session B – Hall 1	Time
17:05-18:05		Posters + Cocktail SASA Club		17:05-18:05

30-minute talks: 25 min presentation + 5 min Q&A / 20-minute talks: 15 min presentation + 5 min Q&A

Advances in Solid State Physics and New Materials - May 19–23

Time	Session A – Main Hall	May 21	Session B – Hall 1	Time
Chair	Bojana Višić	Vladimir Dobrosavljević	Chair	
09:00–09:30	Reshef Tenne (Israel) “Inorganic nanotubes: From WS ₂ to ‘misfit’ compounds”	Gheorghe-Lucian Pascut (Romania) “Crystal Structure Predictions in Correlated Materials at Finite Temperatures”	09:00–09:30	
09:30–10:00	Christoph Gadermair (Italy) “Modulation of Ultrafast Quasiparticle Dynamics in Two-dimensional Semiconductors”	Louissa Reissig (Germany) “The use of differential photocurrent in the characterization of novel optically active materials”	09:30–10:00	
10:00–10:30	Zdenek Sofer (Czech Republic) “Novel 2D magnets and dielectrics”	Ivna Kavre Piltaver (Croatia) “Ultra-thin ZnO coatings on microstructured γ -Fe ₂ O ₃ thin films prepared by atomic layer deposition for enhanced photocatalysis”	10:00–10:30	
10:30–10:50	Coffee Break			10:30–10:50
Chair	Zdenek Sofer	Gheorghe-Lucian Pascut	Chair	
10:50–11:20	Andrew Goodwin , (UK) “Truchet-tile architectures in materials design”	John Evans (UK) “Condensed Matter Physics for Hydrogen Production – the Reversible Memory Reactor”	10:50–11:20	
		Sanja Djurdjić Mijin (Spain and Serbia) “Affordable and Precise Method for Creating Single-Photon Emitters in GaSe”	11:20–11:40	
11:20–11:50	Lena Yadgarov (Israel) “Optimized Growth and Manipulation of Light-Matter Interaction in Stabilized Halide Perovskite Nanowire Array”	Sonja Predin (Serbia) “Pairing Instabilities and Critical States in Graphene Quantum Hall Systems” (Contributed talk)	11:40–12:00	
11:50–12:20	Marija Drndić (USA) “Controlling Magnetic Textures in Iron Germanium Telluride (Fe ₃ GeTe ₂) Characterized by Low Temperature Lorentz TEM”	Mario Novak (Croatia) “Unconventional temperature evolution of quantum oscillations in Sn-doped BiSbTe ₂ S topological insulator” (Contributed talk)	12:00–12:20	

30-minute talks: 25 min presentation + 5 min Q&A / 20-minute talks: 15 min presentation + 5 min Q&A

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Time	Session A – Main Hall	May 21	Session B – Hall 1	Time
12:20–14:15	Lunch Break			12:20–14:15
Chair	Andres Cantarero	Marija Drndić	Chair	
14:15–14:45	Simon Billinge (USA) <i>“Tracking local order and dynamics in functional materials”</i>	Tomaz Mertelj (Slovenia) <i>“Strongly Anisotropic Spinterface Magnetism in Cobalt/Molecular Heterostructures”</i>	14:15–14:45	
14:45–15:15	Jelena Pešić (Serbia) <i>“Modeling and Mapping Current Flow in MoS₂ Nanonetworks”</i>	Marko Radovic (Serbia) <i>“Tunable Electronic States: Semiconductor-to-Metallic state Transition in CeO₂ Nanocrystals”</i>	14:45–15:05	
15:15–15:45	Lev Vidmar (Slovenia) <i>“Quantum Phase Transitions Above Ground States: Ergodicity Breaking Transitions”</i>	Nikola Stojanović (Germany) <i>“Coherent Phonon Raman Spectroscopy as an Emerging Technique for Space Exploration” (Contributed talk)</i>	15:05–15:25	
15:45–16:05	Coffee Break			15:45–16:05
Chairs	Rudi Hackl, Nenad Lazarević, Slobodan Bubnjević			Chairs
16:05–17:05	Colloquium Peter Hirschfeld (USA) <i>“Superconductivity: there's plenty of cream at the bottom”</i>			16:05–17:05
19:00	Conference dinner			19:00

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Time	Session A – Main Hall	May 22	Session B – Hall 1	Time
Chair	Rudi Hackl	Myrsini Kaitatzi (WS1)	Chair	
09:00–09:30	Neven Barisic (Austria and Croatia) <i>“High-Tc Cuprates – Story of Two Electronic Subsystems”</i>	Ana Milosavljević (Serbia) <i>“Anisotropic Strain Response in FeSe”</i>		09:00–09:30
09:30–10:00	Alexandros Lappas (Greece) <i>“Fluctuating Magnetic Moments Near Superconductivity in Interlayer-Expanded FeSe”</i>	Igor Vaskivskyi (Slovenia) <i>“Electron and Lattice Dynamics During Transition to a Metastable Hidden State”</i>		09:30–10:00
10:00–10:30	László Forró (USA) <i>“Aging of High-Tc Superconductors with Defects”</i>	Corinna Burri (Switzerland) <i>“Imaging of electrically controlled van der Waals layer stacking in 1T-TaS₂”</i>		10:00–10:30
10:30–10:50	Coffee Break			10:30–10:50
Chair	Neven Barišić	Igor Vaskivskyi (WS1)	Chair	
10:50–11:20	Peter Hirschfeld (USA) <i>“Homes scaling across the cuprate phase diagram”</i>	Tobias Ritschel (Germany) <i>“Charge density waves and superconductivity in Vanadium based Kagome metals” (online)</i>		10:50–11:20
11:20–11:50	Darko Tanasković (Serbia) <i>“Precursors to Anderson Localization in the Holstein Model: Quantum and Quantum-Classical Solutions”</i>	Ge He (China) <i>“Evidence of spin density wave gap in La₃Ni₂O₇”</i>		11:20–11:50
11:50–12:20	Jonas Bekaert (Belgium) <i>“Transition metal dichalcogenides as unique platform for emerging quantum phases: A first-principles perspective”</i>	Myrsini Kaitatzi (Greece) <i>“Electronically-Driven Local Lattice Distortions in Molecule-Intercalated Iron-Chalcogenide Superconductors”</i>		11:50–12:20

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12:20–14:15	Lunch Break			12:20–14:15
Chair	Simon Billinge	Laura Fanfarillo	Chair	
14:15–14:45	Ivana Radosavljevic Evans (UK) <i>“Structure-Property Relationships in Oxide Ion Conductors for Energy Applications”</i>	Jure Demšar (Germany) <i>“Resilience of Mott Insulating State of La_2CuO_4 Against Photodoping” (online)</i>	14:15–14:45	
14:45–15:05		Zorica Popović (Serbia) <i>“Anisotropic Superconductor In Josephson Junction With Rashba Spin Orbit Coupling And Exchange Field”</i>	14:45–15:05	
14:45–15:15	Natalia Drichko (USA) <i>“Magnetism and bands topology in $\text{Nd}_2\text{Ir}_2\text{O}_7$ probed by Raman scattering spectroscopy”</i>	Valentin Ivanovski (Serbia) <i>“Intercalated ZrTe_3 by Fe: A Mossbauer Effect Study”</i>	15:05–15:25	
15:15–15:45	Aleksandar Matkovic (Austria) <i>“Junctions and Contacts in 2D Semiconductor Devices”</i>	Jelena Mitric (Serbia) <i>“Invisible Detection with Luminescent Polish for Anti – Counterfeiting”</i>	15:25–15:45	
15:45–16:05	Coffee Break			15:45–16:05
Chair	Jonas Bekaert	Valentin Ivanovski	Chair	
16:05–16:35	Laura Fanfarillo (Italy) <i>“Superconductivity in the Presence of Repulsive Interactions”</i>	Petar Mitric (Serbia) <i>“A Simple and Practical Approach for Calculating Transport Properties with Dynamical Quantum Typicality: Application to the Holstein Model”</i>	16:05–16:35	
16:35–17:05	Birender Singh (USA) <i>“Uncovering the Hidden Ferroaxial Orbital Density Wave as the Origin of the Axial Higgs Mode in RTe_3” (online)</i>	Zeljko Skoko (Croatia) <i>“Harnessing Heat: The Dynamic World of Thermosolient Materials”</i>	16:35–17:05	

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17:05-18:05		Posters + Cocktail SASA Club		17:05-18:05

30-minute talks: 25 min presentation + 5 min Q&A / 20-minute talks: 15 min presentation + 5 min Q&A

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Time	Session A – Main Hall	May 23	Session B – Hall 1	Time
Chair	Igor Herbut	Emil Božin (WS5)	Chair	
09:00–09:30	Wei Ku (China) <i>“Universal low-temperature fluctuation of unconventional superconductors revealed”</i>	Cormac McGuinness (Ireland) <i>“Neutrons and Photons Elevating Worldwide Science (NEPHEWS) – Trans-National Access For Excellent Curiosity Driven Research”</i>	09:00–09:30	
09:30–10:00	Dragana Popovic (USA) <i>“Failed Superconductivity in Chemically Substituted Mott Spin Liquid Materials”</i>	Ivana Radosavljevic Evans (UK) <i>“Writing Successful Proposals for Beamtime at Large Facilities: Before, During and After the Experiment”</i>	09:30–10:00	
10:00–10:30	Jakša Vučičević (Serbia) <i>“Towards numerically exact computation of conductivity in the thermodynamic limit of interacting lattice models”</i>	Mads Ry Vogel Jørgensen (Sweden) <i>“Material Science using MAX IV – the First 4th Generation Synchrotron Source”</i>	10:00–10:30	
10:30–10:50	Coffee Break			10:30–10:50
Chair	Darko Tanasković	Ivana Radosavljevic Evans (WS5)	Chair	
10:50–11:20	Vladimir Dobrosavljevic (USA) <i>“Role of Disorder in Wigner-Mott Transitions”</i>	John Evans (UK) <i>„Insight on Functional Materials from Parametric Scattering Studies at Large Scale User Facilities”</i>	10:50–11:20	
11:20–11:50	Khandker Quader (USA) <i>“Doped Infinite-layer Nickelate Superconductors and Tri-layer Nickelates: Self-consistent DFT+DMFT Approach”</i>	Matthias J. Gutmann (UK) <i>“Opportunities at the ISIS spallation neutron source”</i>	11:20–11:50	
11:50–12:20	Igor Herbut (Canada) <i>“SO(8) unified theory of two-dimensional interacting Dirac fermions”</i>	Milan Radovic (Switzerland) <i>“Spectroscopy at the Synchrotron, Microscopy of the Quantum World”</i>	11:50–12:20	

30-minute talks: 25 min presentation + 5 min Q&A | 20-minute talks: 15 min presentation + 5 min Q&A

Advances in Solid State Physics and New Materials - May 19–23

Time	Session A – Main Hall	May 23	Session B – Hall 1	Time
12:20–14:15	Lunch Break			12:20–14:15
Chair	Alberto Pomar	John Evans (WS5)	Chair	
14:15–14:45	Haluk Koralay (Türkiye) <i>“Advances in IMD Processed MgB₂ Wires for Potential Applications”</i>	Michael Gensch (Germany) <i>„(Quantum) Materials in high Terahertz Fields“</i>	14:15–14:45	
14:45–15:15	Zorica Konstantinovic (Serbia) <i>“Nanostructured thin films with strong spin-orbit interaction”</i>	Andrew Jackson (Sweden) <i>“Future Research Opportunities at European Spallation Source”</i>	14:45–15:15	
15:15–15:45	Snezana Lazić (Spain) <i>“Can sound be used for time-bin encoding of photonic qubits for secure quantum communication?”</i>	Zurab Guguchia (Switzerland) <i>“Muon Spin Rotation: Principles of the Technique and Applications in Quantum Materials Research” (online)</i>	15:15–15:45	
15:45–16:05	Coffee Break			15:45–16:05
Chair	Bozidar Nikolić	Dušan Božanić (WS5)	Chair	
16:05–16:35	Alberto Pomar (Spain) <i>“Spin Conduction in FM/AFM/NM Multilayers”</i>	Gustavo A. Garcia (France) <i>“Photoelectron Circular Dichroism: From Model Molecular Systems to Nanoparticles”</i>	16:05–16:35	
16:35–17:05	Closing ceremony	Fernando Igoa Saldaña (Germany) <i>„High-energy diffraction and scattering for physics and chemistry at PETRA III“</i>	16:35–17:05	
		Cormac McGuinness (Ireland) <i>“Observing On-Surface Synthesis of Novel Nanostructures By High Resolution Synchrotron Based X-ray Spectroscopies: Chiral Graphene Nanoribbons and Porphyrin Networks”</i>	17:05–17:35	

30-minute talks: 25 min presentation + 5 min Q&A / 20-minute talks: 15 min presentation + 5 min Q&A

Advances in Solid State Physics and New Materials - May 19–23

Time	Workshop 2: Advanced Materials in Cultural Heritage Protection, May 22, Hall 2	Time
08:55–09:00	Workshop opening	08:55–09:00
Chair	Radmila Panajotović	Chair
09:00–09:20	Bojana Savić (Serbia) <i>“Art Restoration and Science: A Brief History of Entanglement”</i>	09:00–09:20
09:20–09:40	Aleksa Jelikić (Serbia) <i>“Application of Scientific Methodes in Research on Mural Paintings”</i>	09:20–09:40
09:40–10:05	Bojan Miljević (Serbia) <i>“Salt Reduction and Self-Cleaning Protection of Cultural Heritage Objects by Development of New Functional Materials”</i>	09:40–10:05
10:05–10:30	Nikola Unković (Serbia) <i>“Microbial Assisted Biocontrol and Biocleaning in Stone Heritage Conservation - The Case of Rožanec Mithraeum Monument (Slovenia)”</i>	10:05–10:30
10:30–10:50	Coffee Break	10:30–10:50
Chair	Jelena Pešić	
10:50–11:20	Costas Galiotis (Greece) <i>“Science meets Art: graphene enabling solutions for the conservation of cultural heritage”</i>	10:50–11:20
11:20–11:45	Tijana Tomašević-Ilić (Serbia) <i>“Tiled Network Films from Liquid Phase Exfoliated h-BN and Phyllosilicates: Properties and Perspectives for Heritage Protection”</i>	11:20–11:45
11:45–12:10	Christian Teichert (Austria) <i>“Application of Atomic Force Microscopy Based Techniques for Damage Assessment, Conservation, and Restoration of Historical Papers and Fresco Wall Paintings”</i>	11:45–12:10
12:10–14:20	Lunch Break	12:10–14:20
Location: Faculty of Applied Arts, University of Arts Belgrade, Kralja Petra 4		
Chair	Irena Živković	Chair
14:20–14:50	Tatjana Tripković (Serbia) <i>“Portable Spectroscopic Instruments in Analyzing Art and Cultural Heritage: Advantages and Shortcomings”</i>	14:20–14:50
14:50–16:30	Irena Živković, Ivana Milošević, Jasna Vujin, Bojan Miljević, Milica Pankov, Vesna Miljić, Tatjana Tripković (Serbia) <i>“Public training - On-site Demonstration of Artefact Characterization Using Portable Instruments”</i>	14:50–16:30
16:30–16:40	Workshop closing	16:30–16:40

30-minute talks: 25 min presentation + 5 min Q&A | 20-minute talks: 15 min presentation + 5 min Q&A

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Workshop 3: Bioaerosols and nanoaerosols: interdisciplinary approaches in microbiology, May 19, Hall 2		
Time		Time
Chair	Predrag Kolarž and Irena Arandelović	Chair
11:20–11:35	Irena Arandelović (Serbia) <i>“Introductory talk about the IonCleanTech project and about this workshop”</i>	11:20–11:35
11:35–11:55	Irena Arandelović (Serbia) <i>“Raising importance of the prevention of transmission of airborne biological matter in indoor air – threats posed by bioaerosols”</i>	11:35–11:55
11:55–12:10	Marko Janković (Serbia) <i>“Respiratory infections of viral etiology in immunosuppressed persons”</i>	11:55–12:10
12:10–12:25	Stefan Mijatović (Serbia) <i>“Allergies of the respiratory tract: fungi as the neglected allergens”</i>	12:10–12:25
12:25–14:15	Lunch Break	12:25–14:15
Chair	Predrag Kolarž and Irena Arandelović	Chair
14:15–14:30	Irena Arandelović (Serbia) <i>“The lung microbiome – pandemic potential in the era of antimicrobial resistance”</i>	14:15–14:30
14:30–14:45	Andrea Radalj (Serbia) <i>“Animal respiratory viruses with the zoonotic potential”</i>	14:30–14:45
14:45–15:05	Mira Aničić Urošević (Serbia) <i>“Biological Samples for Monitoring of Aerosol and Its Associated Pollutants”</i>	14:45–15:05
15:05–15:25	Anđelija Ilić (Serbia) <i>“Characterization of microplastics using spectroscopic and digital image analyses”</i>	15:05–15:25
15:25–15:45	Predrag Kolarž (Serbia) <i>“Experimental methods for investigation of ion–aerosol interaction”</i>	15:25–15:45
15:45–16:00	Coffee Break	15:45–16:00
Chair	Predrag Kolarž and Irena Arandelović	Chair
16:00–16:20	Jelena Trajković (Serbia) <i>“Carbon–fiber and other ionizer types in combating airborne pathogens – a review”</i>	16:00–16:20
16:20–16:40	Anđelija Ilić (Serbia) <i>“Performance enhancement of HVAC filters by unipolar ionization”</i>	16:20–16:40
16:40–17:00	Predrag Kolarž (Serbia) <i>“Removal and inactivation of bacteria and fungi by ionization / Workshop conclusions”</i>	16:40–17:00

30-minute talks: 25 min presentation + 5 min Q&A | 20-minute talks: 15 min presentation + 5 min Q&A

Advances in Solid State Physics and New Materials - May 19–23

Time	Workshop 4: Computational analysis and modeling of biological materials, May 21, Hall 2	Time
Chair	Anđelija Ilić and Tijana Štajner	Chair
09:00–09:45	Vladimir Dobričić (Serbia) <i>“Synthesis, physico-chemical and biological properties of acridine derivatives”</i>	09:00–09:45
09:45–10:10	Tijana Štajner (Serbia) <i>“Reinvention of the diagnostic algorithm and treatment options for reactivated toxoplasmosis – ToxoReTREAT project”</i>	09:45–10:10
10:10–10:30	Olivera Lijeskić (Serbia) <i>“Monitoring of reactivated toxoplasmosis in allogeneic HSCT recipients”</i>	10:10–10:30
10:30–10:50	Coffee Break	10:30–10:50
Chair	Anđelija Ilić and Tijana Štajner	Chair
10:50–11:10	Jelena Srbljanović (Serbia) <i>“Experimental chemotherapy of reactivated toxoplasmosis”</i>	10:50–11:10
11:10–11:30	Đorđe Zlatković (Serbia) <i>“Cell toxicity and anti-T. gondii efficacy of de novo synthesized acridine derivatives”</i>	11:10–11:30
11:30–11:50	Anđelija Ilić (Serbia) <i>“Cyst recognition in microscopic slides: Estimation of Toxoplasma gondii brain cyst size and location”</i>	11:30–11:50
11:50–12:10	Jelena Trajković (Serbia) <i>“Computational image analysis of developmental dynamics and morphological characteristics of tachyzoites”</i>	11:50–12:10

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