



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 Damljanović (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
16:05–16:35	Jochen Geck (Germany) <i>“Elastic lattice tuning and magnetic interactions of Kitaev materials” (online)</i>		Zorica Lazarević (Serbia) <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
16:35–17:05	Zurab Guguchia (Switzerland) <i>“Unconventional Superconductivity and Charge Order in Kagome Lattices Revealed by Muon Spin Rotation” (online)</i>		Radoš Gajić (Serbia) <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	Andrew Goodwin , (UK) <i>“Truchet-tile architectures in materials design”</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 TMDs”</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
11:20–11:50	Goran Karapetrov (USA) <i>“Coexistence of Superconductivity and Chiral Charge Density Wave in TiSe₂”</i>		Dimitrije Stepanenko (Serbia) <i>“Photon Condensation and Electromagnetic Response in Single Molecule Antiferromagnets with Flux Coupling”</i>	11:20–11:40
11:50–12:20	Zhenzhong Shi (China) <i>“Elasticity of Charge Density Wave Superlattice in Low-dimensional Materials”</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
			Anđelija Ilic (Serbia) <i>“Applications of Small Air Ions and Electromagnetic Fields in Research with Biological Materials”</i>	12:00–12:20
12:20–14:15	Lunch Break			12:20–14:15

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	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
14:45–15:15	Bojana Višić (Serbia), <i>“Inorganic Nanotubes and Nanowires in Polymer Matrices: Potential for Sensing Applications”</i>		Ivana Milošević (Serbia) <i>“Tuning the Properties of Liquid-Phase Exfoliated Langmuir-Blodgett Assembled Graphene Films via Chemical Doping”</i>	14:45–15:05
15:15–15:45	Branislav Nikolić (USA) <i>“How ultrafast demagnetization drives spin and charge currents and the ensuing THz radiation”</i>		Nataša Tomić (Serbia) <i>“The Morphological And Structural Changes Of V₂O₅ Cathode Film Upon Electrochemical Cycling”</i>	15:05–15:25
15:45–16:05	Coffee Break			15:45–16:05
Chair	Emil Božin		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
17:05-18:05	Posters + Cocktail			17:05-18:05
	SASA Club			

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
Chair	Zdenek Sofer		Gheorghe-Lucian Pascut	Chair
10:50–11:20	Andres Cantarero (Spain) „Thickness dependence of the CrI ₃ dielectric function”		John Evans (UK) “Condensed Matter Physics for Hydrogen Production – the Reversible Memory Reactor”	10:50–11:20
11:20–11:50	Lena Yadgarov (Israel) “Optimized Growth and Manipulation of Light-Matter Interaction in Stabilized Halide Perovskite Nanowire Array”		Sanja Djurdjić Mijin (Spain and Serbia) “Affordable and Precise Method for Creating Single-Photon Emitters in GaSe”	11:20–11:40
11:50–12:20	Marija Drndić (USA) “Controlling Magnetic Textures in Iron Germanium Telluride (Fe ₃ GeTe ₂) Characterized by Low Temperature Lorentz TEM”		Sonja Predin (Serbia) “Pairing Instabilities and Critical States in Graphene Quantum Hall Systems” (Contributed talk)	11:40–12:00
			Mario Novak (Croatia) “Unconventional temperature evolution of quantum oscillations in Sn-doped BiSbTe ₂ S topological insulator” (Contributed talk)	12:00–12:20
12:20–14:15	Lunch Break			12:20–14:15

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
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>		Josip Jakovac (Croatia) <i>“Electron-plasmon Scattering in Doped Graphene” (Contributed talk)</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
			Marko Radovic (Serbia) <i>“Tunable Electronic States: Semiconductor-to-Metallic state Transition in CeO₂ Nanocrystals”</i>	15:25–15:45
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

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 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
Chair	Neven Barišić		Igor Vaskivskyi (WS1)	Chair
10:50–11:20	Peter Hirschfeld (USA) <i>“Homes scaling across the cuprate phase diagram”</i>		Ge He (China) <i>“Evidence of spin density wave gap in La₃Ni₂O₇”</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>		Tobias Ritschel (Germany) <i>“Charge density waves and superconductivity in Vanadium based Kagome metals”</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
12:20–14:15	Lunch Break			12:20–14:15

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 22	Session B – Hall 1	Time
Chair	Simon Billinge		Tobias Ritschel	Chair
14:15–14:45	Ivana Radosavljevic Evans (UK) <i>“Structure-Property Relationships in Oxide Ion Conductors for Energy Applications”</i>		Jure Demsar (Germany) <i>“Resilience of Mott Insulating State of La₂CuO₄ Against Photodoping”</i>	14:15–14:45
14:45–15:15	Natalia Drichko (USA) <i>“Magnetism and bands topology in Nd₂Ir₂O₇ probed by Raman scattering spectroscopy”</i>		Zorica Popović (Serbia) <i>“Anisotropic Superconductor In Josephson Junction With Rashba Spin Orbit Coupling And Exchange Field”</i>	14:45–15:05
15:15–15:45	Aleksandar Matkovic (Austria) <i>“Junctions and Contacts in 2D Semiconductor Devices”</i>		Valentin Ivanovski (Serbia) <i>“Intercalated ZrTe₃ by Fe: A Mossbauer Effect Study”</i>	15:05–15:25
15:45–16:05		Coffee Break	Jelena Mitric (Serbia) <i>“Invisible Detection with Luminescent Polish for Anti – Counterfeiting”</i>	15:25–15:45
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 RTe₃” (online)</i>		Zeljko Skoko (Croatia) <i>“Harnessing Heat: The Dynamic World of Thermosolient Materials”</i>	16:35–17:05
17:05-18:05		Posters + Cocktail		17:05-18:05
		SASA Club		

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
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
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
12:20–14:15	Lunch Break			12:20–14:15

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
Chair	Alberto Pomar		John Evans (WS5)	Chair
14:15–14:45	Bozidar Nikolić (Serbia) <i>“Kagome Thin Layers: Diperiodical Point of View”</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”</i> (online)	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	Haluk Koralay (Türkiye) <i>“Advances in IMD Processed MgB₂ Wires for Potential Applications”</i>		Fernando Igoa Saldaña (Germany) <i>„High-energy diffraction and scattering for physics and chemistry at PETRA III“</i>	16:35–17:05
17:05–17:35	Closing ceremony			17:05–17:35
			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>	

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 3		
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

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Workshop 4: Computational analysis and modeling of biological materials, May 21, Hall 3		
Time		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

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