

DATE: 20TH – 23ND OCTOBER, 2026.

VENUE: NOBEL ZIRA HOTEL BELGRADE
(RUZVELTOVA 35, 11000 BELGRADE)

AvH Kolleg 2026

“Enhancing Scientific Cooperation and Integration between the Western Balkans and the European Union”

PROGRAM– OCTOBER 2026

Day 1, Tuesday, 20 th October		
TIME	ACTIVITY	HALL
14:00 – 15:00	Registration	
15:00 – 15:30	OPENING CEREMONY: ▪ <i>Serbian Humboldt Club alumni presentation: Humboldt club Serbia – Present, past and future perspectives</i> Presenters: Dr Melita Vidaković, president of Humboldt Club Serbia (HKS), Prof. Dr. Zoran Popović, Serbian Academy of Sciences and Arts	Mikonos
15:30 – 17:00	▪ <i>German-Serbian Research Synergies</i> Petra Stöckl , Head of Cultural and Press Division, Embassy of the Federal Republic of Germany in Belgrade	
	▪ <i>Alexander von Humboldt Research Opportunities</i> Isabel Joswig , Programme Director, Department Sponsorship and Network, Division Europe, Alexander von Humboldt Foundation	
	▪ <i>The German Research Foundation (DFG): International Research Funding Opportunities</i> Dr Jörn Achterberg, Julia Ilina , The German Research Foundation DFG	
	▪ <i>DAAD German Academic Exchange Service</i> Danijela Esterman-Pavlica , DAAD Informationszentrum Belgrad	
17:00 – 17:30	Coffee Break	
17:30 – 18:15	▪ <i>Key note lecture</i> <i>A 40-Year Journey</i> Prof Dr Reinhard Genzel , Winner of the 2020 Nobel Prize in Physics (<i>remote lecture</i>)	Mikonos
18:15 – 19:00	▪ <i>Key note lecture</i> <i>Noninvasive Passive Internal Body Thermometry using Radio-Frequency Receivers</i> Prof Dr Zoya Popovic , Humboldt Research Award for Senior U.S. Scientists	
19:00 – 21:00	Ice-breaking cocktail reception	

Day 2, Wednesday, 21 st October		
TIME	ACTIVITY	HALL
09:00 – 10:00	Registration & Coffee	
10:00 – 12:30	▪ PARALLEL SESSIONS: <u>Session A: Metabolism, Regeneration & Human Health (Chairperson: Melita Vidaković)</u> 10:00–10:20 - Miloš Filipović <i>Entering a new phase of metabolic regulation and lifespan extension</i> 10:20–10:40 - Dejana Mokranjac: <i>Hitchhiker’s guide to biogenesis and quality control of mitochondria</i> 10:40–11:00 - Petar Milovanović <i>Bones at the Intersection of Humanities, Natural Sciences, and Medicine</i> 11:00–11:20 - Björn Busse <i>Insights into bone adaptation from multiscale imaging and analytics of human and animal bone</i> 11:20–11:40 - Svetlana Butulija <i>Advanced hydrogels for diabetic wound healing</i> 11:40–12:00 - Jessica Oyie Sousa Onyeisi <i>Molecular Functions of Syndecan-4 in Breast Cancer Pathophysiology</i> 12:00- 12:20 - Đorđe Miljković <i>CA24117 ILCquest - bridging innate immunity and cancer</i>	Mikonos
	<u>Session B: Advanced Functional Materials (Chairperson: Mirko Komatina)</u> 10:00–10:20 - Richard Schneider <i>Synthesis of metals using aluminothermic reduction</i> 10:20–10:40 - Gojko Joksimović <i>A Reconsideration of the Subject of Damper Winding in Synchronous Machine</i> 10:40–11:00 - Zaklina Burghard <i>Bioinspired and Sustainable Nanostructured Materials: Design Principles and Functional Applications</i> 11:00–11:20 - Emilija Nidžović <i>High-entropy spinel oxides: Next-generation materials with tunable properties</i> 11:20–11:40 - Dalibor Stanković <i>Nanomaterials in electrocatalysis</i> 11:40–12:00 - Horst Borrmann <i>Precision and accuracy with lattice parameters of semiconductors and nanoparticles</i> 12:00- 12:20 - Mihailo Milanović <i>Evaluation of optimal drying method for fruit pomaces with respect to heat supply and drying parameters</i>	Rodos
12:30 – 14:00	Group photo & Lunch	
14:00 – 16:00	▪ PARALLEL SESSIONS: <u>Session A: Materials for Energy, Recycling & Sustainable Technologies (Chairperson: Ivana Ivančev-Tumbas)</u> 14:00–14:20 - Branko Matović <i>Compositionally Complex Ceramics – The Next Frontier in Material Design</i> 14:20–14:40 - Srećko Stopić <i>Titanium – critical metal for sustainable development of modern life</i> 14:40–15:00 - Moumita Rana <i>The Promise of Silicon-Based Monolithic Materials as Anodes for Lithium-Ion Batteries</i> 15:00–15:20 - Saskia Schimmel <i>Exploring the Mechanisms of Ammonothermal Crystal Growth of Nitride Semiconductors via In Situ Monitoring and Numerical Simulations</i> 15:20–15:40 - Dorothea Schneider <i>Refractory materials in recycling of spent lithium-ion batteries</i> 15:40–16:00 - Petre Badica <i>The needs of the materials recycling industry: opportunities and challenges for interregional integrations</i>	Mikonos

	<u>Session B: Forest Policy, Governance & Regional Cooperation for Sustainable Transitions (Chairperson: Jelena Nedeljković)</u> 14:00–14:20 Liviu Nichiforel – Science-policy interface: Forest law analysis in selected European countries in the frame of the EU forest strategy 14:20–14:40 Špela Pezdevšek Malovrh – Can Slovenia Achieve the EU Biodiversity and Forest Strategy Targets by 2030? Insights from Forest Owners and Managers 14:40–15:00 Marko Marinković – The role and importance of applied research in forestry and the contribution to the positioning of sectoral policy in making high-level political decisions 15:00–15:20 Makedonka Stojanovska – Research and innovation in forestry: Can Western Balkan follow the EU directions? 15:20–15:40 Vladimir Stojanovski – Forests, Sustainability, and Knowledge Exchange: Strengthening Regional Cooperation between the Western Balkans and the EU – A Macedonian Perspective 15:40–16:00 Bruno Marić – Integrating OECMs into biodiversity conservation and protection policy and practice in the Western Balkans: Insights from the Federation of Bosnia and Herzegovina	Rodos
16:00 – 16:30	Coffee break	
16:30 – 18:30	▪ PARALLEL SESSIONS: <u>Session A: AI, Big Data and Collaborative Research (Chairperson: Dragana Ilić)</u> 16:30–16:50 - Jochen Liske The Integrative Power of Science: the Case of Astronomy 16:50–17:10 - Andjelka Kovačević The Vera C. Rubin Observatory Legacy Survey of Space and Time as a Gateway to Mapping Potential Ultralight-BosonCloud Signatures through AGN Variability 17:10–17:30 - Natale De Bonis Multi-Head ALNP: An AI-Based Approach to AGN Light Curve Reconstruction and Physical Parameter Inference 17:30–17:50 - Bojana Milošević When Do Things Change? Statistical Detection of Change Points 17:50–18:10 - Sarah Casura Multilinear models for nonlinear dynamical systems 18:10–18:30 - Nenad Filipović Applied AI in cardiovascular disease <u>Session B: Society, Law & Democracy in Contemporary Europe (Chairperson: Đuro Đurić)</u> 16:30–16:50 - Stephan Madaus Insolvency and restructuring law trends in Europe 16:50–17:10 - Mihailo Antović Language, Music, and Meaning: A Humboldt (Success?) Story 17:10–17:30 - Gerald Schneider Lifting the Veil of Violence: How War Hardship and Anticipated Reforms Shape the Preference for Redistribution (Pre-registration report) 17:30–17:50 - Blanca Rodriguez Ruiz From the Bottom Up: Intimate citizenship as a driving force for democracy in the EU 17:50–18:10 - Siranush Melikyan Beyond the “Waiting Room”: Western Balkan Lessons and European Integration in the South Caucasus 18:10–18:30 - Ruxandra Cosma Towards a Grammar of Reconciliation. A crosslinguistic perspective	Mikonos Rodos
18:30	End of day 2	

Day 3, Thursday, 22 nd October		
TIME	ACTIVITY	HALL
08:00 – 09:00	Registration	
09:00 – 10:00	▪ POSTER SESSION	Mikonos
09:30 – 10:30	Coffee break	
10:30 – 12:30	▪ PARALLEL SESSIONS:	
	<u>Session A: Molecular Medicine & Therapeutic Frontiers (Chairperson: Aleksandra Mitrović)</u> 10:30–10:50 - Simone Carneiro Optimized lipid nanoparticles enable pulmonary CRISPR/Cas9 delivery for targeting KRAS G12S in lung cancer 10:50–11:10 - Thomas Holzhauser Identification and fine characterisation of IgE epitopes as an approach for novel diagnostics and therapeutics for legume allergies 11:10–11:30 - Maja Životić Beyond Oxford: The added histopathological insight of the Banff classification in pediatric and adult IgA nephropathy in native kidneys 11:30–11:50 - Ivana Cvijović-Alagić Next-Generation Hard-Tissue Replacements: New Approach to Engineering Durable Implant Materials 11:50–12:10 - Ljiljana Gojković Bukarica Building the network for tackling antimicrobial resistance in the Western Balkans and the European Union 12:10–12:30 - Marija Gavrović-Jankulović: New methodologies in allergenicity assessment of novel foods	Mikonos
	<u>Session B: Chemistry: From Molecular Interactions to Applications (Chairperson: Snežana Zarić)</u> 10:30–10:50 - Dušan Dimić Computational Chemistry in the Forensic Examination of Novel Psychoactive Substances 10:50–11:10 - Sonja S. Zrilić CaH/O Hydrogen Bonds of Coordinated Glycine – Are They Relevant? 11:10–11:30 - Marilena Ferbinteanu Structural Chemistry: An Inclusive Topic, Binding Different Disciplines, Teams and Peoples, Across the Borders 11:30–11:50 - Jean-Pierre Djukic Understanding Chemical Bonding and Reactivity from Weak Electron Density Sharing Domains or A Strasbourg-Belgrade-Münster/Bonn Odyssey 11:50–12:10 - Ernst Walter Knapp Problems entering a new field in science, view of an old guy	Rodos
12:30 – 14:00	Lunch	
14:00 – 16:00	▪ PARALLEL SESSIONS	
	<u>Session A: Forest-Based Bioeconomy, Ecosystem Services & Inclusive Innovation (Chairperson: Vladimir Stojanovski)</u> 14:00–14:20 - Petra Palátová Bioeconomy as a tool to support the forest-based sector 14:20–14:40 - Barbara Öllerer Responding to challenges, reproducing inequalities? A qualitative study of work organisations in the Austrian forestry sector 14:40–15:00 - Dominik Sperlich Forest adaptation strategies to climate change under socio-, economic and ecological uncertainties - a case study from Serbia and Germany (WaldlabOR Oberrhein) 15:00–15:20 - Marko Lovrić Assessing forest ecosystem services from multiple data types	Mikonos

	15:20–15:40 - Dženan Bećirović <i>Assessment and valuation of forest ecosystem services – current application in Western Balkans</i> 15:40–16:00 - Slobodan B. Marković <i>Danubius Pannonico-Mysicus 300 years after publishing</i>	
	<i>Session B: Science, Education & Knowledge Across Borders (Chairperson: Danijela Vidaković)</i> 14:00–14:20 – Jan Schwarzbauer <i>AGRIPLAST and ENVCHEM – experiences from two international project collaborations joining Serbia and EU/German partners</i> 14:20–14:40 – Branimir Jovančičević <i>Serbian Chemistry and European Cooperation – a Century-Long Tradition</i> 14:40–15:00 - Ivana Ivančev-Tumbas <i>Studies of Chemistry and Environmental Protection at Faculty of Sciences, Novi Sad, after TEMPUS and ERASMUS project grants</i> 15:00–15:20 - Zoran Hadži-Velkov <i>Space Technologies in Higher Education: Building the Next Generation of Engineers</i> 15:20–15:40 - Nina Owschimikow <i>Digitalization of education as a cooperative effort: An open platform for education in data analysis</i> 15:40–16:00 – Tijana Prodanović <i>Beyond the Institution Walls: Social Media as a Classroom for Science</i> <i>Discussion time</i>	Rodos
16:00 – 17:30	Belgrade city tour	
20:00	Conference gala dinner	
Day 4, Friday, 23rd October		
TIME	ACTIVITY	HALL
10:00 – 11:40	<i>Session A: European Intellectual Connections (Chairperson: Marija Gavrović Jankulović)</i> 10:00–10:20 - Dragana Grbić <i>Serbian Enlightenment and German intellectual circles of the 18th century</i> 10:20–10:40 - Lena Magnone <i>Saputnici (1913) by Isidora Sekulić: Between the Serbian Literary Avant-Garde and Transnational Female Modernism</i> 10:40–11:00 - Ivan Petrov <i>Further on Some Germanic Linguistic Entanglements in the Early Slavic Christian Language</i> 11:00–11:20 - Stanislav Milošević <i>Petnica Science Center: Fostering Independent Thinking and Scientific Curiosity</i> 11:20–11:40 - Alexander Flügel <i>Role of the lung in CNS autoimmunity</i>	Mikonos
11:40 – 13:00	Lunch	
13:00 – 14:00	ROUND TABLE “ Building a common research area: Practical steps to integrate Western Balkan science with EU frameworks ” Moderator: Dragana Ilić (Department of Astronomy Faculty of Mathematics University of Belgrade) Participants: Julia Ilina (DFG), Gojko Joksimović (Faculty of Electrical Engineering, University of Montenegro), Rakić Nemanja (University of Banja Luka, Faculty of Science, BIH) Zoran Hadži Velkov (Faculty of Electrical Engineering and Information Technologies at the Ss. Cyril and Methodius University), Danijela Vidaković (IHTM, University of Belgrade, Serbia).	Mikonos
14:00 – 14:15	▪ Closing ceremony	Mikonos

Poster session:

Jovana Ajdačić – *Diastereomeric Fullerene Composites for High-Performance Perovskite Solar Cells*

Dragi Antonijević – *Bio-Based Thermal Insulation Materials for Sustainable Construction: Thermomechanical Aspects*

Ana Kostov – *Reduction of some polluting metals in contaminated mining land*

Denis Kučević – *Food self-sufficiency rate Serbia vs Europe*

Zlatko Levkov – *Diatom flora, biogeography and ecology*

Snežana Maletić – *Sustainable soil remediation using biochar and nature-based solutions*

Milan Milovanović – *Machine Learning Clustering of Water-Water Interactions in the Cambridge Structural Database*

Aleksandra Mitrović – *PET-Fullerene derivatives for electron transport in photovoltaics*

Jelena Nedeljković – *Developing a Gender-Responsive National Action Plan for Forestry Education and Career Development in Serbia: Science, Policy and Practice toward EU Integration*

Kristina Petrović – *Towards a nanopore-based workflow for freshwater phytoplankton metabarcoding: initial pilot experiments within the REFBAR project*

Vojislava Poštić – *One C60 platform, two cycloadduct architectures: divergent synthesis and optoelectronic properties*

Jovana Rajković – *The effect of potassium channel opener NS1619 on isolated saphenous veins obtained from patients with type-2 diabetes mellitus*

Elena Shablovinskaia - *Jetted and non-jetted accreting supermassive black holes in optical and mm regimes*

Anđela Tasić – *Synthetic Routes to Methano- and Furanofullerenes from β -Diketones*

Danijela Vidaković - *Assessment of Diatom Communities in Serbian Lakes and Rivers Using eDNA*

Ljubica Vlaović – *Diatom communities in a freshwater lake in Serbia using DNA metabarcoding*

Milena Zlatanova – *An unconventional mechanism of TLR4 activation by the protease allergen actinidin*