2nd International Meeting on Building Bridges Between Climate Science and Society Through a Transdisciplinary Network

21-25 September 2026, Belgrade, Serbia & virtual

BOOK OF ABSTRACTS AND CONTRIBUTED PAPERS

Edited by Milica Langović, Aleksandra Kolarski, Vladimir A. Srećković, Marko Langović, Filip Krstić, Ivana Đorđević

Belgrade, 2026

Organizers

Scientific Society Isaac Newton Belgrade
Institute of Physics Belgrade, University of Belgrade
Astronomical Observatory Belgrade

UNDER THE SUPPORT OF the Ministry of Science, Technological Development and Innovation of the Republic of Serbia

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SCIENTIFIC RATIONALE

The linkage between climate and society highlights a profound reciprocity, where climate shapes the foundations of social structures, while societies themselves transform the climate. This conference aims to bring together researchers, practitioners, and professionals from diverse fields to address complex emerging challenges related to these issues. Participants will have the opportunity to explore innovative perspectives, share research findings, and discuss practical approaches for integrating knowledge across disciplines. By fostering dialogue and cooperation, the conference seeks to encourage new partnerships and advance interdisciplinary solutions.

Venue

Institute of Physics Belgrade, National Institute of the Republic of Serbia, University of Belgrade, Serbia & virtual

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Conference type: International scientific conference

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Lectures

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[Lecture]

Review of the COST networking activities - modifications of the rules and introduction of new opportunities for ITC participants

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Abstract: Serbia is a full member of COST (European Cooperation in Science and Technology), the oldest intergovernmental organization in Europe that aims to establish research networks among scientists and innovators (Marinković et al., 2022). COST actions are designed to ensure networking opportunities for researchers and include a wide range of activities and grants that help individuals establish new collaborations, developing joint research topics, and supporting scientific and personal career development. Many researchers view COST as an extremely valuable European funding instrument due to its unique people-centered approach, which prioritizes researchers over institutions. Serbia belongs to the group of Inclusiveness Target Countries (ITC) whose researchers have additional mechanisms at their disposal for financing activities within COST networks (Mijić and Marinković, 2024). During the four-year lifetime of the COST action, there are many instruments available to researchers, and some of the most frequently used will be introduced in detail, such as organizing workshops and meetings, short-term scientific missions (STSMs), training schools, conference grants, communication and dissemination grants, and virtual mobility grants. Particular focus will be on available participation opportunities for young researchers and innovators and the introduction of novel COST rules, such as a limit of working group membership coming into force as of November

2026. A brief review of recently approved COST research networks and available leading positions will be presented together with a description of new procedures and limitations for submitting action proposals within the current open call OC2026. These rules mandate that young researchers must make up at least 40% of the COST action composition, and an individual researcher can participate as a secondary proposer in only one new action proposal.

Keywords: science inclusiveness, action networking tools, mobility and visibility

Acknowledgement
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References
Marinković P.B., Ivanović S., Mijić Z. 2022. Data analysis on Serbian participation in COST Actions: Celebrating 50 years of research networks, IV Meeting on Astrophysical Spectroscopy - A&M DATA – Atmosphere, 49-57, Palić, Srbia, 30 May – 2 June, 2022.
Mijić, Z., Marinković, B. 2024. Participation of Serbian researchers in COST activities and an overview of COST procedures and national rules for joining recently approved COST actions, VI Conference on Active Galactic Nuclei and Gravitational Lensing, 34-35, Zlatibor, Serbia, 2-6 June, 2024.

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Program Schedule

2nd International Meeting on Building Bridges Between Climate Science and Society Through a Transdisciplinary Network

in organization of Scientific Society Isaac Newton Belgrade, Institute of Physics Belgrade, University of Belgrade, and Astronomical Observatory Belgrade

Monday (day 1) September 21, 2026			**Tuesday** (day 2) September 22, 2026			**Wednesday** (day 3) September 23, 2026			**Thursday** (day 4) September 24, 2026			**Friday** (day 5) September 25, 2026		
Start	End	Session	Start	End	Session	Start	End	Session	Start	End	Workshop	Start	End	Session
14:00	15:00	**Registration**	10:30	11:30	**Lectures**	10:00	11:30	**Lectures**	10:00	11:00	Off-site Student and ECR Meet and Greet	08:30	10:00	**Lectures**
15:00	15:30	Opening ceremony	11:30	12:00	*Coffee break*	11:30	12:00	*Coffee break*	11:00	11:30	*Coffee break*	10:00	10:30	*Coffee break*
Lectures			12:00	13:30	**Networking Session**	12:00	13:30	**Lectures**	11:30	13:00	Interactive Field Workshop	10:30	11:30	Organizing committee meeting
15:30	16:00	*Keynote speaker 1*	13:30	15:00	*Lunch break*	13:30	15:00	*Lunch break*	16:00	18:00	**Educational tour**	11:30	12:00	**Closing ceremony**
16:00	16:30	*Keynote speaker 2*	15:00	16:00	**Lectures**	15:00	16:30	Poster presentation 2						
16:30	18:00	**Welcome cocktail**	16:00	17:30	Poster presentation 1									
			20:00	22:00	**Conference dinner**									

CONFERENCE PROGRAM

Monday, September 21, 2026

Time		Session
Start	***End***	
14:00	15:00	Registration
15:00	15:30	Opening ceremony *Organizing Committee*
15:30	16:00	***Keynote Speaker:*** Milan Dimitrijević ***Affiliation*:** Astronomical Observatory, Belgrade, Serbia ***Lecture Title*:** Molecular data for climate science ***Author/s:*** Milan S. Dimitrijević, Vladimir A. Srećković, Veljko Vujčić
16:00	16:30	***Keynote Speaker**:* Aleksandar Valjarević ***Affiliation*:** Faculty of Geography, University of Belgrade ***Lecture Title*:** Linking Climate Stress, Land-Use Change and River-System Sustainability: A GIS-Based Ecological Equilibrium Index for Serbia ***Author/s*:** Aleksandar Valjarević
16:30	18:00	Welcome cocktail

Tuesday, September 22, 2026

Time		Session
Start	***End***	
10:30	11:00	**Speaker:** Igor Leščešen **Affiliation:** Institute of Hydrology, Slovak Academy of Sciences **Lecture Title:** Hydrological Droughts in the Carpathian Basin: From Historical Evidence to Future Risk under CMIP6 Climate Scenarios **Author/s:** Igor Leščešen
11:00	11:30	***Speaker:*** Aleksandra Nina ***Affiliation*:** Institute of Physics Belgrade, University of Belgrade ***Lecture Title*:** VLF amplitude noise reductions as earthquake precursors: statistical analysis **Author/s:** Aleksandra Nina, Pier Francesco Biagi, Giovanni Nico, Hans U. Eichelberger, Mohammed Y. Boudjada
11:30	12:00	**Coffee break**
12:00	13:30	**Speaker:** Filip Kostić **Lecture Title:** Navigating the Editorial Process in International Journals _____ **Speaker:** Zoran Mijić **Affiliation:** Institute of Physics Belgrade, University of Belgrade **Lecture Title:** Review of the COST networking activities - modifications of the rules and introduction of new opportunities for ITC participants **Author/s:** Zoran Mijić, Bratislav Marinković
13:30	15:00	**Lunch break**
15:00	15:30	***Speaker:*** Lamia Abu El Maati ***Affiliation:*** Department of Physics, College of Science, Princess Nourah Bint Abdulrahman University ***Lecture Title:*** On the atomic structure of the seven-times ionized sulfur ion S VIII ***Author/s:*** Lamia Abu El Maati, Nabil Ben Nessib, Milan S. Dimitrijević
15:30	16:00	***Speaker:*** Milica Langović ***Affiliation:*** Institute of Physics Belgrade, University of Belgrade ***Lecture Title:*** Air Pollution as a Driver of Population Mobility: Empirical Evidence and Underlying Mechanisms ***Author/s:*** Milica Langović, Zoran Vidović

		Poster presentations ***Author/s:*** Peter Bednár, Aleksandra Nina, Aleksandra Kolarski, Peter Butka, Martin Sarnovský, Vladimir Srećković, Ognyan Kounchev ***Title:*** Ionospheric Disturbances & Machine Learning: VLF Signal Variation Detection and Perspectives
		Author/s: Luka Đurović ***Title:*** Spatial Distribution of Floods and Earthquakes in Southern Europe: An Analysis at the NUTS 3 Regional Level (1990–2025)
		Author/s: Vladimir A. Srećković, Violeta Petrović, Hristina Delibašić Marković ***Title:*** New Molecular Datasets for Modeling Astrophysically Relevant Radiative Processes
16:00	17:30	***Author/s:*** Nikola Veselinović, Mihailo Savić, Darije Maričić, Mila Ranitović, Dejan Joković, Radomir Banjanac, Žarko Medić ***Title:*** Recent Solar Activity: A Preliminary Analysis Based on Cosmic-Ray Observations
		Author/s: Marko Langović, Nenad Živković, Slavoljub Dragićević ***Title:*** Assessment of Long-Term River Discharge Variability and Precipitation Coherence: The South Morava River, Serbia
		Author/s: Vladimir A. Srećković, Nicolina Pop, Veljko Vujčić, Magdalena D. Christova, Felix Iacob, Milica Langović, Aleksandra Kolarski ***Title:*** New dataset for planet formation chemistry and modeling
		Author/s: Zoran Vidović ***Title:*** Statistical Methods for Analysing Environmentally Induced Migration Intentions
20:00	22:00	**Conference dinner**

Wednesday, September 23, 2026

Time		Session
Start	***End***	
10:00	10:30	***Speaker:*** Dejan Vasović ***Affiliation:*** Faculty of Occupational Safety, University of Niš ***Lecture Title:*** Tracing the Path from Soil Erosion to Drinking Water Risk: A Modelling Framework for Water Safety Planning ***Author/s:*** Dejan Vasović, Ana Stojanović, Sladjan Hristov
10:30	11:00	***Speaker:*** Marija Ljakoska ***Affiliation:*** Saints Cyril and Methodius University, Faculty of Natural Sciences and Mathematics, Institute of Geography ***Lecture Title:*** Perceptions and Attitudes Toward Temperature Trends and Climate Change in North Macedonia: A Survey-Based Analysis ***Author/s:*** Filip Naumovski, Marija Ljakoska, Emilija Manevska, Arse Kuzmanoski, Anita Todorova
11:00	11:30	***Speaker:*** Tijana Radosavljević ***Affiliation:*** Faculty of Geography, University of Belgrade ***Lecture Title:*** Trend of air temperature at the meteorological station Vranje during the period 1949-2024 ***Author/s:*** Tijana Radosavljević, Sanja Manojlović
11:30	12:00	**Coffee break**
12:00	12:30	***Speaker:*** Natalija Nikolić ***Affiliation:*** University of Novi Sad, Faculty of Sciences, Department of Geography, Tourism and Hotel Management ***Lecture Title:*** Heat Waves in Rural Regions of Serbia: Who is the Most Vulnerable? ***Author/s:*** Natalija Nikolić, Milica Vasić
12:30	13:00	***Speaker:*** Jelena Svetozarević ***Affiliation:*** Climate, Atmosphere and Water Research Institute at Bulgarian Academy of Sciences (CAWRI-BAS) ***Lecture Title:*** Continentality Indices as a Common Language for Climate and Society: A Precipitation Seasonality Case Study of Babušnica (Serbia) and Sofia (Bulgaria), 1961–2020 ***Author/s:*** Jelena Svetozarević
13:00	13:30	***Speaker:*** Veljko Vujčić ***Affiliation:*** Astronomical Observatory, Belgrade, Serbia ***Lecture Title:*** Semantic Orchestration for Time-Domain Astronomy ***Author/s:*** Veljko Vujčič

13:30	15:00	**Lunch break**
15:00	16:30	***Poster presentations*** ***Author/s:*** Radoslav Ranković, Slađana Popović ***Title:*** Changes in Temperature and Precipitation Regimes in the Šumadija Region, 1961–2024 ***Author/s:*** Ana Nešić, Katarina Damnjanović, Sara Tadić, Teodora Jovičić, Aleksa Muljajić ***Title:*** Perceptions of Air Pollution in Belgrade: A Survey Analysis ***Author/s:*** Milica Langović, Vladimir A. Srećković, Georgi Boyadjiev, Ognyan Kounchev, Hans U. Eichelberger, Georgi Simeonov ***Title:*** The Astro-Geo Interface: Prospects and Directions for Future Research ***Author/s:*** Emilija Manevska, Arse Kuzmanoski, Filip Naumovski, Anita Todorova, Marija Ljakoska ***Title:*** Correlation between air temperature and air pollution in the city of Skopje ***Author/s:*** Vladimir Srećković, Georgi Boyadjiev, Ognyan Kounchev, Aleksandra Kolarski, Milica Langović, Aleksandra Nina, Zoran Mijić, Hans U. Eichelberger ***Title:*** Big Data Analysis in Astrophysics and Physics: A Multidisciplinary Approach ***Author/s:*** Stefan Manojlović ***Title:*** Discharge Trend Dynamics of the Nišava River (Serbia) ***Author/s:*** Marko Langović ***Title:*** Process-based insights into lateral channel migration and riverbank erosion under climate variability ***Author/s:*** Luka Đurović ***Title:*** Earthquakes and Population Vulnerability: Evidence from Southern Europe

Thursday, September 24, 2026

Time		***Workshop***
Start	***End***	Bridging the gap: Climate, environment and society An interactive *Student Workshop* on Transdisciplinary Approaches
10:00	11:00	• Off-site Student and ECR Meet and Greet
11:00	11:30	***Coffee break***
11:30	13:00	• Interactive Field Workshop
16:00	18:00	**Educational tour**

Friday, September 25, 2026

Time		Session
Start	***End***	
08:30	09:00	***Speaker:*** Ivana Đorđević ***Affiliation***: Faculty of Geography, University of Belgrade ***Lecture Title:*** Is climate sufficiently present in the classroom? An analysis of content and outcomes on climate change in Geography curricula in primary schools ***Author/s:*** Ivana Đorđević, Mina Marković, Slavoljub Jovanović
09:00	09:30	***Speaker:*** Filip Krstić ***Affiliation:*** Faculty of Geography, University of Belgrade ***Lecture Title:*** Climate Aridity Changes and Their Impact on Agricultural Production - Case Study: South Serbia ***Author/s:*** Filip Krstić, Mirjana Gajić
09:30	10:00	***Speaker:*** Marko Langović ***Affiliation:*** Institute of Physics Belgrade, University of Belgrade ***Lecture Title:*** Bridging Climate Science and Society: Summary Insights and Future Perspectives ***Author/s:*** Marko Langović
10:00	10:30	**Coffee break**
10:30	11:30	*Organizing committee meeting*
11:30	12:00	***Closing ceremony***

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