

## Program of the Conference

### Milanković's Theory on Climate Change, Hundred Years Afterwards

Venue: Lecture Hall Milutin Milanković (earlier name: *Amfiteatar 225*), Second floor, Faculty of Civil Engineering, Bulevar kralja Aleksandra 73, Belgrade, Serbia

<b>Day 1. Monday 4<sup>th</sup> November 2024</b>	
09:00 – 10:00 Registration of participants	
<b>Session 1: Opening and Keynote Talks</b>	
<b>10:00 - 11:00</b>	<b>Opening session</b> <i>Note: Only this session will be bilingual</i>
	Excerpts from the film on Milutin Milanković* <b>A traveller through centuries and the universe, 3 min</b> <i>*Milutin Milanković: doctor of technical sciences, mathematician, astronomer, climatologist, geophysicist, civil engineer, and university professor</i>
	Opening address: Slavko Maksimović, President and founder of the Association Milutin Milanković
	Welcome address: Branislav Bajat, Dean of the Faculty of Civil Engineering, UoB
	Address: Nenad Filipović, Director of the Science Foundation of Serbia
	Opening of the Conference: Zoran Knežević, President of the SASA, Serbian Academy of Science and Arts ( <i>CAHY, Српска академија наука и уметносћи</i> )
<b>11:00-12:00</b>	<b>Keynote Talks - Introduction to Thematic Areas of the Conference</b> Session Chairperson: <b>Fedor Mesinger</b>
Theme 1: 11:00-11:20	Qiuzhen Yin: <b>Astronomically triggered abrupt cooling at the end of interglacials and implication for the future</b>
Theme 2: 11:20-11:40	Slobodan P. Simonović: <b>"Quantitative Measure of Resilience to Climate Change-Induced Flooding"</b>
Theme 4: 11:40-12:00	Čedo Maksimović <b>Advances in quantification of micro-climate conditions' impacts on public health and wellbeing /Extrapolation of the paper: Haotian Zhang, Stanislava Bošković, Anastasios Temenos, Aikaterini Angeli and Čedo Maksimović: <i>Assessment of health impacts and benefits of vegetation species used in BGS environment</i></b>
12:00 – 13:30 Conference lunch break (Luncheon)	
<b>13:30 – 15:10</b>	<b>Theme 1: Climate of the Past, What Happened and Why?</b> <b>Keynote Talks</b> Session Chairperson: <b>Fedor Mesinger</b>
13:30-13:50	Stefano Pierini: <b>The deterministic excitation paradigm and the late Pleistocene glacial terminations</b>
13:50-14:10	Dragan Latinović, Ute Merkel, and Matthias Prange: <b>Complex interplay between different forcing factors defines the deglacial AMOC evolution</b>
14:10-14:30	Slobodan Marković: <b>Milanković cycles recorded in Serbian loess-paleosol sequences</b>
14:30-14:50	Zhengyao Lu: <b>Orbital forcing of the El Niño–Southern Oscillation evolution</b>
14:50-15:10	Hai Cheng: <b>Milankovitch Theory and Asian Monsoon - Insights from Asian Cave Records</b>
15:10 – 15:40 Coffee break	

15:40 – 18:40	<b>Theme 2: Adaptation and Resilience to Climate Change</b> Session Chairperson: <b>Zoran Stevanović</b>
	15:40-15:55 Ivan Živanović: <b>The relationship between solar activity and climate changes on Earth</b>
	15:55-16:10 Zhengyao Lu: <b>Impacts of large-scale Sahara solar farms on global climate, terrestrial ecosystem and solar potential</b>
	16:10-16:25 Francesco Fiorillo: <b>Spring discharge time series and climate change</b>
	16:25-16:40 Attila Kovács: <b>Assessment of the impacts of climate change on spring discharge by a combined stochastic-analytical method, Aggtelek karst area, Hungary</b>
	16:40-16:55 Zoran Stevanović: <b>Impact of recent drought cycle in Serbia on groundwater – effects and possible mitigation measures</b>
	16:55-17:10 Marko Sedlak, Tanja Srejić and Sanja Manojlović: <b>Air temperature trends in Eastern Serbia</b>
	17:10-17:25 Milovan Radmanovac, Marina Babić: <b>Distribution of hail and hail damage in Serbia for period 2010-2020</b>
	17:25-17:40 Marina Babić, Laura Chica, Milovan Radmanovac, Tin Lukić, Slobodan B. Marković and Ivana Cvijanović: <b>Describing the change in perceived heat stress over Serbia from 1982 to 2021</b>
	17:40-17:55 Nina Čegar, Stefanija Stojković, Nikola Stančić, Jelena Luković: <b>Earlier onset of the spring in Serbia (1950-2020)</b>
	17:55-18:10 Albert Ruman, Anna Ruman: <b>Modelling climate types in South Pannonian Basin, Serbia by applying the Köppen–Geiger climate classification</b>
	18:10-18:25 Albert Ruman, Anna Ruman: <b>Köppen–Geiger Climate Classification in the Pannonian Basin According to SSP5-8.5 Scenario</b>
	18:25-18:40 Dušica Jovanović, Vladimir Čurić: <b>Application of GIS in identifying drought-prone areas – A case study of Vladičin Han municipality</b>
	19:30
<b>Day 2. Tuesday 5<sup>th</sup> November 2024</b>	
9:30 -11:00	<b>Theme 2: Adaptation and Resilience to Climate Change- Part 2</b> Session Chairperson: <b>Ana Vuković Vimić</b>
	9:30-9:45 Zhongbo Yu: <b>Challenges in water security and sustainable development: science advance and adaptation</b>
	9:45-10:00 Gordon McBean. <b>Addressing the Impacts of a Changing Climate - Adaptation and Resilience Complexities</b>
	10:00-10:15 Miloš Tomić, Dušan Kesić: <b>Modern strategies for mitigating the consequences of climate change</b>
	10:15-10:30 Ana Vuković Vimić, Mirjam Vujadinović Mandić, Zorica Ranković Vasić, Dejan Đurović, Željko Dolijanović, Marija Čosić, Ljubomir Životić, Aleksa Lipovac, Aleksandar Simić, Dragan Stanojević, Danijela Božanić, Ana Repac: <b>From science to policy: climate change risks assessment and adaptation planning in agriculture in Serbia</b>
	10:30-10:45 Anna Domaradzka, Mikołaj Biesaga, Ewa Domaradzka, Magdalena Kołodziejczyk: <b>The right to a healthy city – from residents’ needs to better planning</b>
	10:45-11:00 Ljiljana Brašanac-Bosanac, Tatjana Ćirković-Mitrović, Nevena Čule, Goran Češljar, Branka Pavlović: <b>Innovative approach to forest management to mitigate the impacts of climate extremes in forest ecosystems in Serbia</b>

11:00-11:30	Coffee break
<b>11:30 – 12:15</b>	<b>Theme 2: Adaptation and Resilience to Climate Change ..continued</b> Session Chairperson: <b>Ana Vuković Vimić</b>
11:30-11:45	Andrijana Stanković: <b>Strategies for rural area development in the context of changing climate conditions</b>
11:45-12:00	Uroš Davidović: <b>Utilizing the DesInventar Database for Risk Assessment of Atmospheric Hazards in Serbia</b>
12:00-12:15	Abhishek Gaur: <b>Projected future potential moisture damage in buildings over Canada</b>
<b>12:15 – 13:00</b>	<b>Theme 3: Milanković's theory and evolution of past</b> Session Chairperson: <b>Petar Kočović</b>
12:15-12:30	Slobodan Ninković: <b>On how much Milanković and his climate theory were known in our milieu</b>
12:30-12:45	Stela Filipi Matutinović: <b>The Influence of Milankovitch Cycles on species geographical distribution, evolution and ecology</b>
12:45-13:00	Dragoljub P. Antić: <b>Reconstruction and evolution of the past, civilization development, human population development and migration – Using Milanković's theory of Climate Change</b>
13:00 – 14:00	Conference lunch break (Luncheon)
<b>14:00 – 15:45</b>	<b>Theme 4: Climate Change, and Public Health and Wellbeing</b> Session Chairperson: <b>Čedo Maksimović</b>
14:00-14:15	Maria Kalpouzani, Anastasios Doulamis, Nikolaos Doulamis, Aikaterini Angeli-Doulami, George Kopsiaftis, Andreas M. Lazaris, Milena Vasić, Dragana Jovanović, Predrag Savić, Sanja Ivanković, Stanislava Bošković and Čedo Maksimović: <b>Intermediate results of the project: HEALTHIER Cities through Blue-Green Regenerative Technologies: the HEART Approach</b>
14:15-14:30	Sanja Ivanković, Dragana Jovanović, Predrag Savić, Milena Vasić, Vesna Karadžić: <b>Clinical and non-clinical methods of monitoring the impact of environmental and microclimatic conditions on public health and wellbeing: the HEART project</b>
14:30-14:45	Maja Stošić, Snežana Jovanović Srzentić: <b>Review of epidemiological methods of measuring the influence of local microclimatic conditions on public health and wellbeing</b>
14:45-15:00	Vesna Karadžić, Jelena Knežević, Dragana Jovanović: <b>Climate changes and winter cyanobacterial blooming in Serbian waterbodies</b>
15:00-15:15	Anna Domaradzka, Mikołaj Biesaga, Magdalena Roszczyńska-Kurasińska, & Ewa Domaradzka: <b>Measuring the impact of Nature-Based Solutions on citizens' health and well-being: risks and challenges of using wearable devices</b>
15:15-15:30	Jasminka Smailagić: <b>Biometeorological forecast as a factor of adaptation to climate change in the domain of health and human behaviour</b>
15:30-15:45	Ana Savović, Uroš Davidović, Mirjana Milenković: <b>The Assessment of Temperature Impacts on Mortality in Belgrade</b>
15:45–16:15	Coffee break

16:15 – 17:00	<b>Special – Complementary session:</b> <b>Theme: In the search of the links between Climate Change and DNA evolution</b> Session Chairperson: <b>Čedo Maksimović</b>
16:15-16:30	Anatole A. Klyosov: <b>DNA Genealogy and Ancient History of the Serbs</b>
16:30-16:45	Vladimir Kočović: Case Study No 1: <b>The analysis of own DNA at the Dante Labs and the DNA Center for Genetics</b>
16:45-17:00	Vojislav Simonović: Case Study 2: <b>DNA study, Analysis of the Y DNA family tree</b>
17:00	<b>Closing the conference:</b> Slavko Maksimović