

МИЛАНКОВИЋЕВА ТЕОРИЈА  
КЛИМАТСКИХ ПРОМЕНА -  
СТО ГОДИНА  
ПОСЛЕ



MILANKOVIĆ'S THEORY  
OF CLIMATE CHANGES -  
HUNDRED YEARS  
AFTERWARDS

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**MILANKOVIĆ'S THEORY  
OF CLIMATE CHANGES -  
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**Belgrade 2024.**



On the occasion of the 100th anniversary of the publication of Milanković's theory of climate change, the Association Milutin Milanković is organizing an international conference:

### **Milanković's Theory of Climate Changes – Hundred Years Afterwards**

**Time** November 4<sup>th</sup> and 5<sup>th</sup> 2024.

#### **Venue**

Ceremony Hall at the Faculty of Civil Engineering, Belgrade,  
Bulevar kralja Aleksandra 73

#### **Organizer**

Association Milutin Milanković

#### **Co-Organizers**

University of Belgrade - Faculty of Civil Engineering

University of Belgrade - Faculty of Mathematics

University of Belgrade - Faculty of Geography

University of Belgrade - Faculty of Security Studies

Astronomical Observatory Belgrade

#### **Under the Auspices of**

Ministry of Science, Technological Development and Innovation of the Republic of Serbia

#### **Introductory Information / Rationale**

In 2020, the Association Milutin Milanković organized a symposium to mark the 100<sup>th</sup> anniversary of the publication of Milanković's book "Mathematical Theory of Thermal Phenomena Caused by Solar Insolation," published in Paris. In this book, Milanković presented the foundations of the astronomical influence of solar energy and its relationship with climate change on Earth.

The theory of climate change was further elaborated over several years in collaboration with Wladimir Köppen and Alfred Wegener. This theory gained wider scientific recognition when Milanković's papers were included in their book "Climates of the Past" and through a lecture delivered by Alfred Wegener at the Congress of Naturalists in Innsbruck in 1924.

At the 2020 Symposium, experts from 11 countries presented 24 papers. The meeting's conclusions were to hold a similar event devoted to more detailed and recent studies complementary to Milanković's work. The conclusions of the 2020 Symposium will be implemented by organizing this conference.



### **The objectives of the conference are:**

- a. To use the fundamental contribution of Milanković's theory of climate changes to understand and anticipate what could be expected to occur in the next 100 years as a consequence of the climate changes, both due to natural long-term processes and to anthropogenic factors.
- b. to enable profound understanding of the influences that global changes in nature have on the human lives and to propose practical measures that the human civilization should take to prevent negative influence on the environment (concerning public health and wellbeing, population migrations, land use, food production, pollution of soil, water and air and survival of natural ecosystems).

### **Topics of the Conference**

1. **Quantification of Causes Affecting Climate Change and Weather Extremes**
  - a. Long-term natural processes - Milanković's cycles
  - b. Changes due to anthropogenic factors
2. **Adaptation and Resilience to Climate Change**
  - a. Quantification and verification of methods/models concerning resilience to climate change.
  - b. Measures to reduce risk and threat due to changes in climatic conditions and weather extremes.
  - c. Innovative methods for development planning intended to mitigate negative consequences of changed climatic conditions and weather extremes in urban, rural, and natural ecosystems.
3. **Application of Milanković's Theory of Climate Change to the Reconstruction and Evolution of the Past**
  - a. The impact of climate change on human societies and on their environment  
Reconstruction of the Earth's past, including human population development and migrations
  - b. Use of DNA analysis to study the territories and duration of different civilizations, their characteristics and migration directions caused by climate variability.



#### 4. **Climate Change and Public Health and Wellbeing**

- a. Verification of climate change effects on public health and wellbeing at global, national, regional, and local levels.
- b. Clinical and non-clinical methods of monitoring the influence of local microclimatic conditions on public health and wellbeing.
- c. Measures to reduce risk and threat concerning public health and wellbeing due to changes in climatic conditions and weather extremes.
- d. Development, verification, calibration, and extrapolation of interaction of models for microclimate and public health.

#### **Official Language of the Conference**

The conference will be held in English.

#### **Call for Papers and Participation**

Experts from Serbia and abroad are invited to submit their papers for presentation and participation in the meeting.

#### **Important Dates**

- Application and submission of abstracts: July 15, 2024
- Acceptance of abstracts and detailed instructions: August 1, 2024
- Submission of final papers: October 15, 2024
- Second announcement and final program: October 25, 2024

Authors will receive detailed instructions for paper preparation along with notification of acceptance. Authors are responsible for the originality, quality, and accuracy of the data.

#### **Conference Fee**

There will be no conference fee. Attendance to the Conference is free to all registered participants.

#### **Contact, Paper Submission and Registration for Participation**

Email: [mmjubilejklima2024@gmail.com](mailto:mmjubilejklima2024@gmail.com)

#### **Additional Information**

Website: [www.milutinmilankovic.rs](http://www.milutinmilankovic.rs)