Program of the Workshop*

Note to the presenters: The time zone used for this Program is Central European Time (CET).

17th November 2020

Due to COVID-19, the Jubilee ceremony which was planned to be held live at the Rectorate of University of Belgrade (BU) had to be significantly scaled down. Selected parts of the program will be performed in the presence of only 5 persons. It will be video recorded and will be shown at 5:00pm (CET) and will be posted on YouTube together with the film produced on the occasion of Milanković's jubilee. The link will be provided in next e-mails and posted at MMA's web site (https://milutinmilankovic.rs/).

18th November 2020

Session I

8:55 – 9:00 Workshop and Session opening

9:00-11:00 Milanković' s theory and its impact on climate change understanding

Moderator Zoran Stevanović

9:00-9:20 Keynote lecture: André Berger: **Milankovitch, the father of paleoclimate modeling**

9:20-9:40 Daniel Schertzer, Ioulia Tchinguirinskaia: **Scaling and multifractal behavior of climate records**

9:40-9:55 Denis-Didier Rousseau: **Are abrupt climate changes related to the astronomical theory**

9:55-10:10 Hans Peter Nachtnebel: **Climate change and water resources: The outcome of cosmic cycles, tectonic shocks, and industrial development**

10:10-10:25 Michael Ghil: **Orbital insolation variations, intrinsic climate variability, and a unified framework for understanding Quaternary glaciations**

10:25-10:40 Jörn Thiede: **Wladimir Köppen, Alfred Wegener, and Milutin Milankovitch: their impact on modern paleoclimate research and the revival of the Milankovitch hypothesis**

10:40-11:00 Discussion, Q & A

11:00-11:15 Coffee break

Session II

11:15-12:45 Climate change: strategies, adaptation and mitigation

Moderator: Zoran Stevanović

11:15-11:30 Ratko Ristić: **The impact of climate change on forests**

11:30-11:45 Jasna Plavšić: **Benefits of green infrastructure for climate-resilient flood mitigation in a rural watershed**

11:45-12:00 Attila Kovács: **Physical models of spring discharge**

12:00-12:15 Zoran Stevanović: **The impact of climate change on groundwater resources**

12:15-12:30 Vladimir Pešić, Ana Savić**: Intermittent rivers - a model for studying climate changes and its impact on biodiversity**.

12:30-12:45 Discussion, Q & A

12:45-13:45 Lunch break

Session III

13:45-15:15 Outlook for the future-Part 1: What have we learned from Milanković's theory
Moderator: Čedo Maksimović

13:45-14:00 Dejan Radivojević: **What geologists think about climate changes- time is relative**
14:00-14:15 Hervé Le Treut: **Climate research - state of art and prospects**
14:15-14:30 Didier Pailard: **Climate and astronomy: old and new ideas**
14:30-14:45 Dragoljub Antić: **Milankovic's theory as a base for explanation of natural aspects of civilization development**
14:45-15:00 Jelena Luković: **Projected runway lengths due to global warming**
15:50-15:15 Discussion, Q & A

15:15-15:30 Coffee break

Session IV

15:30-17:00 Outlook for the future-Part 2: What should we do in the next century?
Moderator: Čedo Maksimović

15:30-15:50 Keynote lecture: Fedor Mesinger, Katarina Veljović, Sin Chan Chou
Numerical modeling, from weather to climate: Progress achieved, and some of the reasons promising further progress
15:50-16:10 Keynote lecture: Ana Mijić & Čedo Maksimović: **Strategies for urban water development as a part of integrated Blue Green Solutions (BGS) under climate changes uncertainties**
16:10-16:25 Gordon McBean: **Understanding climate history to project future climate change**
16:25-16:40 Slobodan Simonović: **The role of climate in global change – from Milankovic's time until end of the 21st century**
16:40-16:55 Predrag Spasojević: **Introduction to cosmic energies and forces conversions**
16:55-17:10 Bogdan P. Onac: **Milankovitch cycles and sea level high stands in Western Mediterranean: A cave approach**

Session V

17:10-18:00 Influence of Milanković's legacy
Moderator: Čedo Maksimović

17:10-17:25 Stela Filipi Matutinović**: Milutin Milanković opus as a topic of scientometric research**
17:25-17:40 Vlado Milićević: **Review the most important findings of Americans scientists and its conclusions in relation to Milanković's theory of insolation**
17:40-18:00 Discussion, Q & A

18:00 Close of the Workshop – Addresses of keynote lecturers