

**Integrations of satellite and ground-based observations  
and multi-disciplinarity in research and prediction of  
different types of hazards in Solar system**

# PROGRAMME

## **Friday, May 10**

13:00 - 15:00      **Arrival, registration and lunch**

**Chairmans:** Aleksandra Nina and Milan Radovanović

15:30 – 15:45      **Opening ceremony**

**Chairman:** Sergey Pulinets

15:45 – 16:30      **Darko Jevremović:** *Solar System Objects in the LSST Era (assessing the hazards)*

16:30 – 17:00      **Pál Gábor Vizi, Péter Szutor, Szaniszló Bérczi, Szilárd Csizmadia and Tibor Hegedűs:** *Trajectory and Analysis of Local Fireball-Meteorite Events and Extended Meteor Hunting With Smartphones as ‘Sky Event’ Cameras*

18:00 – 19:30      **Welcome cocktail**

20:00 –              Dinner time

## Saturday, May 11

**Chairman:** Bratislav Marinković

9:00 – 9:45 **Sergey Pulinets and Dimitar Ouzounov:**  
*Integration of satellite and ground-based observations and multi-disciplinarity in earthquake and volcano eruption forecast based on the LAIC physical model*

9:45 – 10:30 **Pier Francesco Biagi:** *The INFREP VLF/LF Radio Network: Present Situation and Recent Results*

10:30 – 11:00 Coffee break

**Chairman:** Pier Francesco Biagi

11:00 – 11:45 **Konstantinos Kourtidis, Veronika Barta, Jozsef Bor, Evgeny Mareev, Christina Oikonomou, Colin Price and Sergey Pulinets:** *Work within the COST Action ELECTRONET on the coupling of the atmospheric electric circuit to earthquakes, lightning and the sun-earth environment*

11:45 – 12:30 **Aleksandra Nina, Giovanni Nico, Luka Č. Popović, Vladimir M. Čadež, Milan Radovanović:** *Natural disasters and low ionospheric disturbances detected by Belgrade VLF/LF receiver station*

**Chairman:** Ognyan Kounchev

12:30 – 14:00 **Discussions – integration of observation methods and models in research of earthquakes and volcanoes**

14:00 – 15:00 Lunch break

**Chairman:** Luka Č. Popović

15:00 – 15:45 **Giovanni Nico, Weike Feng, Olimpia Masci, Motoyuki Sato, Luciano Garramone:** *Radar interferometry as a new tool for earthquake geotechnical engineering*

15:45 – 16:30 **Nikola Veselinović, Mihailo Savić, Aleksandar Dragić, Dimitrije Maletić, Dejan Joković, Radomir Banjanac, Vladimir Udovičić and David Knežević:** *Correlation of solar wind parameters with cosmic rays observed with ground station*

16:30 – 17:00 **Sergey Pulinets:** *The role of Galactic Cosmic Rays in dynamics of hurricanes and typhoons and Global change*

17:00 – 17:30 Coffee break

**Chairman:** Darko Jevremović

17:30 – 18:15 **Dejan Vinković and Maria Gritsevich:** *The Challenges of Hypervelocity Microphysics Research in Meteoroid Impacts into the Atmosphere*

18:15 – 19:00 **Bozhidar Srebrov, Ognyan Kounchev, Georgi Simeonov:** *Analysis of Big data in geomagnetism via wavelet analysis*

20:00 – **Meeting dinner**

## Sunday, May 12

**Chairman:** Konstantinos Kourtidis

- 9:00 – 9:30     **Slavica Malinović-Milićević, Zoran Mijatović, Ilija Arsenić, Zorica Podračanin, Ana Firanj Sremac, Milan Radovanović, Nusret Drešković:**  
*The importance of ground-based and satellite observations for monitoring and estimation of UV radiation in Novi Sad, Serbia*
- 9:30 – 10:00     **Nataša Todorović:** *Dynamical origin of two potentially hazardous asteroids*
- 10:00 – 10:30     Coffee break

**Chairman:** Giovanni Nico

- 10:30 – 12:00     **Discussions – integration of observation methods and models in research of hurricanes, meteors and climatic changes**
- 12:00             **Meeting photo**
- 12:05 – 14:00     **Guided tour of Petnica's vicinity**
- 14:00 – 15:00     Lunch break

**Chairman:** Milan S. Dimitrijević

- 15:15 – 16:00     **Yaroslav Vykylyuk, Milan Radovanović, Slavica Malinović Milićević:** *Deep Learning LSTM Recurrent Neural Network for consequence forecasting of the solar wind disturbance*
- 16:00 – 16:30     **Andjelka Kovačević:** *Planetary atmospheres erosion due to Sgr A and (z<0.5) Active Galactic Nuclei radiation*
- 16:30 – 17:00     **Dušan Marčeta and Bojan Novaković:** *Stardust-Reloaded: The Asteroid and Space Debris Network*
- 17:00 – 17:30     Coffee break
- 17:30 – 19:00     **Posters**
- 20:00 –             **Networking event**

## Monday, May 13

**Chairman:** Yaroslav Vykylyuk

- 9:00 – 9:45     **Milan S. Dimitrijević:** *Milutin Milanković and climate changes leading to ice ages*
- 9:45 – 10:30     **Aleksandar Valjarević, Nikola Bačević, Marko Ivanović:** *Digital and Numerical methods in estimation of a hazard floods in The Municipality of Obrenovac*
- 10:30 – 10:45     Closing ceremony
- 11:15 –             Departure

## LIST OF POSTERS

- P1. Veljko Vujčić, Darko Jevremović:** *NEO Detection Using Complex Event Processing*
- P2. Aleksandra Kolarski:** *Atmospheric disturbances due to severe stormy weather*
- P3. Jelena Petrović and Snežana Dragović,** *Radon as potential earthquake precursor*
- P4. Predrag Jovanović, Duško Borka, Vesna Borka Jovanović:** *Constraining Yukawa gravity from planetary motion in the Solar System*
- P5. Bratislav P. Marinković, Stefan Ivanović, Nebojša Uskoković, Milutin Nešić:** *Electron-impact cross sections for tholins: Coverage within BEAMDB database*
- P6. Milan Radovanović, Aleksandra Nina and Vladimir A. Srećković:** *Extreme Solar Radiation and Natural Disasters: cross disciplinary approaches*
- P7. Vladimir A. Srećković:** *Solar activity, natural hazards, low ionospheric perturbations and satellite and ground-based observations*
- P8. Zoran Mijić and Mirjana Perišić:** *Comparison of MODIS aerosol observations and ground-based PM measurement for the Belgrade region*