



BULGARIAN GEOPHYSICAL SOCIETY

**9TH NATIONAL CONFERENCE OF THE
BULGARIAN GEOPHYSICAL SOCIETY**

Sofia University "St. Kliment Ohridski"
Sofia, 30 November 2018

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Work language: Bulgarian

SOFIA
2018

PROGRAM

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Friday, 30 November 2018

08:30 - 15:30	REGISTRATION (IN FRONT OF THE ROOM A205)
9:30	Opening the Conference <ul style="list-style-type: none">• Welcome and Introduction – Christian Tzankov
9:30 - 10:45	SESSION 1
	<i>Session Chair - Gergana Georgieva</i>
09:30 - 09:45	Rumiana Bojilova, Natalya Kilifarska N1 Geomagnetic focusing of cosmic rays in the lower atmosphere - mechanism and evidence
09:45 - 10:00	Maria Chamati N2 Geomagnetic disturbances observed at Panagyuriste (PAG) station, Bulgaria on 7-8 th of September 2017 during the geomagnetic storm
10:00 - 10:15	Daniel Ishlyamski, Neli Jordanova, Diana Jordanova, Petar Petrov N3 Sources of magnetic enhancement of wildfire affected soils under pine forest
10:15 - 10:30	Bozhurka Georgieva, Neli Jordanova, Diana Jordanova, Petar Petrov N4 Magnetic enhancement of wildfire affected soils and vegetation
10:30 - 10:45	Natalya Kilifarska, Rossen Nedialkov, Emil Botev N5 Pre-seismic anomalies in geomagnetic field and their relation to the earthquakes' parameters
10:45 - 11:15	Coffee Break 1
11:15 - 12:30	SESSION 2
	<i>Session Chair – Valentina Protopopova</i>
11:15 - 11:30	Mila Atanasova, Hristo Nikolov, Valentina Protopopova N6 Determination of deformations of the Earth's crust after an earthquake by DInSAR
11:30 - 11:45	Reneta Raykova, Giuliano Panza, Dimcho Yosifov N7 Mapping the lithosphere and asthenosphere in the Balkan Peninsula region
11:45 - 12:00	Dimcho Yosifov, Boyko Ranguelov, Emil Oynakov N8 Deep low velocity layers inferred by the MSS – indicators of the asthenosphere structure in Bulgaria
12:00 - 12:15	Dragomir Gospodinov, Delko Zlatanski N9 Comparison of Geopsy and J-Sesame software results from the ambient noise analysis at some new sites in Plovdiv, Bulgaria
12:15 - 12:30	Petya Trifonova, Metodi Metodiev, Petar Stavrev, Stela Simeonova, Dimcho Solakov N10 Methodology for numerical integration of different data types for the purposes of seismic hazard assessment
12:30 - 13:30	Lunch Break

13:30 - 15:00 SESSION 3

Session Chair – Emil Botev

- 13:30 - 13:45** **Plamena Raykova, Dimcho Solakov, Stela Simeonova**
N11 Space-temporal distribution of earthquakes in the three swarms occurred in Bulgaria
- 13:45 - 14:00** **Dimcho Solakov, Stela Simeonova, Plamena Raykova**
N12 Selection of Ground Motion Prediction Equations-GMPEs for the territory of Bulgaria
- 14:00 - 14:15** **Gergana Georgieva, Liliya Dimitrova, Vasil Gourev, Valentina Protopopova, Plamena Raykova, Irena Aleksandrova, Mariya Popova, Iliana Popova**
N13 Seismicity of Perunika glacier, Livingston Island, Antarctica
- 14:15 - 14:30** **Tsvetelina Velichkova, Natalya Kilifarska**
N14 O3 as a driver of the North Atlantic Oscillation of Earth's climate
- 14:30 - 14:45** **Stefan Tachev, Boyko Rangelov**
N15 Data collection about complex geophysical research of an object in the North Atlantic for the network optimization of future 3D seismics
- 14:45 - 15:00** **Orlin Dimitrov, Atanas Vasilev**
N16 Complex geophysical research in the northern half of the Bulgarian Black Sea sector
- 15:00 - 15:30** **Coffee Break 2**
- At the Break** **Stefan Dimovski, Nikolay Stoyanov**
N17 Application of the ERT method at a landslide site characterized by presence of high TDS levels in groundwater

15:30 - 17:00 SESSION 4

Session Co-Chairs – Denitsa Borisova, Atanas Kisyov

- 15:30 - 15:45** **Valentina Hristova, Denitsa Borisova**
N18 System for remote sensing in case of traffic signs recognition
- 15:45 - 16:00** **Valentina Hristova**
N19 Dynamic object recognition through static background removal in case of remote sensing data acquired by a single video camera
- 16:00 - 16:15** **Margarita Goranova, Denitsa Borisova**
N20 Spectral libraries as spectral data source
- 16:15 - 16:30** **Dragomir Dragomirov**
N21 Earthquakes on Mars
- 16:30 - 16:45** **Atanas Kisyov, Christian Tzankov, Boriana Chtirkova, Gergana Georgieva, Yanko Ivanov, Bozhurka Georgieva, Daniel Ishlyamski, Vasil Gourev, Spas Nikolov**
N22 Study of perenial snow patches in Bulgaria
- 16:45 - 17:00** **Yanko Ivanov, Spas Nikolov, Bozhurka Georgieva, Daniel Ishlyamski**
N23 Geophysical surveys around the mouth of the Ropotamo river

17:00 - 18:00 SESSION 5 – INVITED PAPER

Session Chair - Christian Tzankov

17:00 - 18:00 **Stefan Shanov**
N24 Geophysical studies in karst terrains

18:00-19:00 **DISCUSSIONS, ANNOUNCEMENTS AND CLOSING THE CONFERENCE**

- Announcement for the 10th Congress of the Balkan Geophysical Society in Bulgaria in 2019 – Christian Tzankov
- Announcement for the 10th National Geophysical Conference in 2020 – Christian Tzankov
- Closing the Conference – Christian Tzankov

19:00 **Closing the Conference**
