



10TH CONGRESS OF BALKAN GEOPHYSICAL SOCIETY

18-22 September 2019
Albena Resort, Bulgaria

BGS 2019

Technical Programme

Official hotels of the
10th Congress of
Balkan Geophysical Society

ALBENA



① Flamingo Grand Hotel

② Flamingo Hotel

③ Sandy Beach Hotel

Welcome Address

Dear colleagues,

On behalf of the Local Organizing Committee, it is my greatest pleasure to welcome you to the 10th Congress of the Balkan Geophysical Society (BGS) on 18 - 22 September 2019 here in Albena Resort, Bulgaria.

It is a great honor for the Bulgarian Geophysical Society to host the congress for the second time. I truly believe that the congress will provide a wonderful forum for you to refresh your knowledge base and explore the innovations in every aspect of the Earth sciences and Geophysics in particular. The forum will strive to offer plenty of networking opportunities and great scientific programme, providing you with the chance to meet and interact with scientists and researchers, friends and colleagues not only from the Balkan countries, but also from European world organization.

I would like to extend sincere gratitude for the valuable support to the International and Bulgarian eminent experts for joining our forum to share with us their broad experience, to all sponsors and exhibitors for contributing to the high level of the congress and to all attendees dedicating time and expressing insatiable thirst for knowledge.

I am delighted to welcome you to the 10th Congress of the Balkan Geophysical Society, celebrating 25 years since its establishment and hope you will enjoy the symphony of outstanding science, taking a little extra time to enjoy also the spectacular and unique beauty of the Bulgarian seaside.

Yours sincerely,

Assist. Prof. Christian Tzankov, PhD

President of the Bulgarian Geophysical Society

President of the Balkan Geophysical Society



Organizing Committee

Local Organizing Committee

- Chair **Assist. Prof. Christian Tzankov, PhD**
President of BGGGS
University of Mining and Geology "Sv. Ivan Rilski"
- Members **Prof. Emil Botev, PhD**
Vice-President of BGGGS
National Institute of Geophysics, Geodesy and Geography
Bulgarian Academy of Sciences
- Assoc. Prof. Denitsa Borisova, PhD**
Vice-President of BGGGS
Space Research and Technology Institute
Bulgarian Academy of Sciences
- Assist. Prof. Gergana Georgieva, PhD**
Sofia University "Sv. Kliment Ohridski", Faculty of Physics
- Assist. Atanas Kisyov**
University of Mining and Geology "Sv. Ivan Rilski"
- Assist. Prof. Valentina Protopopova, PhD**
National Institute of Geophysics, Geodesy and Geography
Bulgarian Academy of Sciences
- Sonya Dimitrova**
National Institute of Geophysics, Geodesy and Geography
Bulgarian Academy of Sciences

International Steering Committee

- Christian Tzankov** (BgGS) - Chair
Denitsa Borisova (BgGS)
Dumitru Ioane (RGS)
Florina Chitea (RSAG)
Snezana Komatina (AGES)
Magdalena Marković (AGES)

- Balázs Magyar** (AHG)
Zsolt Horváth (AHG)
Salvator Bushati (AGS)
Blerina Shkreta (AGS)
George Apostolopoulos (HGU)
Antonis Vafidis (HGU)
Sevket Demirbas (CGET)
Emin Candansayar (CGET)

Invited Speakers

- Dr. Justin Dix** - Black Sea MAP
Special Topic:
Geophysics for Cultural and Historical Heritage
Invited lecture:
Black Sea Maritime Archaeology Project –
new discoveries in Bulgarian waters
- Prof. Dr. Snežana Komatina**
Association of Geophysicists and Environmentalists
of Serbia (AGES), Technical Faculty Mihajlo Pupin
Zrenjanin, University of Novi Sad, Novi Sad, Serbia
Special topic:
Geophysics for society
Invited lecture:
Geophysics for society - Humanitarian expert projects
- Prof. Dr. Stefan Shanov**
Ex-president of Bulgarian Geophysical Society
Invited lecture:
Dynamic Tectonics and Karst

Programme at a Glance

WEDNESDAY, 18 th SEPTEMBER	
08:00 - 18:00	Registration
13:00 - 17:30	Workshop CTBTO - International Monitoring System and data for civil and scientific applications
18:00 - 19:30	Opening Session and Key speakers' presentations Exhibition Opening
19:30 - 21:00	Ice-breaker Party
THURSDAY, 19 th SEPTEMBER	
08:00 - 18:00	Registration
09:00 - 18:30	Technical programme and exhibition
FRIDAY, 20 th SEPTEMBER	
08:00 - 18:00	Registration
09:00 - 18:00	Technical programme and exhibition
20:00	Gala dinner
SATURDAY, 21 st SEPTEMBER	
08:00 - 18:00	Registration
09:00 - 17:00	Technical programme and exhibition
17:00 - 17:30	Closing Ceremony - Awards for the best young authors
18:00 - 19:00	Meeting of BGS board members and EAGE representatives
SUNDAY, 22 nd SEPTEMBER	
09:00	FIELD TRIP Albena resort - Kaliakra Cape - Yailata Archaeological Reserve - Shabla Region - Albena Resort

Technical Programme

WEDNESDAY, 18 th SEPTEMBER	
Hour	Opening Session and Key speakers' presentations
13:00 - 17:30	Workshop CTBTO - International Monitoring System and data for civil and scientific applications
15:00 - 15:30	Coffee Break
18:00 - 19:30	Opening Ceremony - Greetings and Key Speakers' presentations
	Welcome & Greeting speeches
	Black Sea Maritime Archaeology Project – new discoveries in Bulgarian waters <i>Justin Dix - Black Sea MAP</i>
	Exhibition Opening
19:30 - 21:00	Ice-breaker Party

Technical Programme

THURSDAY, 19 th SEPTEMBER	
Hour	Key Speakers' presentations
09:00 - 10:00	Dynamic Tectonics and Karst <i>Prof. Dr. Stefan Shanov - Ex-president of BGS</i>
10:00 - 11:00	Geophysics for society - Humanitarian expert projects <i>Prof. Dr. Snežana Komatina - University of Novi Sad, Serbia</i>
11:00 - 11:30	Coffee Break
Hour	ORAL SESSION
	1.3 Geophysics for Cultural and Historical Heritage
	<i>Chairs: M. Emin Candansayar, Diana Jordanova</i>
11:30 - 11:45	BGS2019-ST1.3-05 Geophysical prospection of archaeological sites. Some recent examples from Bulgaria. <i>N. Tonkov</i>
11:45 - 12:00	BGS2019-ST1.3-06 Non-destructive testing of monument walls using ground penetrating radar (GPR) <i>G. N. Tsokas, N. Diamanti, D. Angelis, P.I. Tsourlos, G. Vargemezis</i>
12:00 - 12:15	BGS2019-ST1.3-014 Non-destructive investigation of more than 100 years old retaining wall structures <i>P. Nagy, Z. Prónay, G. A. Hutka, E. Törös</i>

12:15 - 12:30	BGS2019-ST1.3-07 Geophysical investigation of hidden wall passages in the historical building of Hungarian Academy of Sciences <i>G. A. Hutka, P. Nagy, Z. Prónay, E. Törös</i>
12:30 - 14:00	Lunch Break
Hour	ORAL SESSION
	1.3 Geophysics for Cultural and Historical Heritage / 1.4 Geophysics for Society
	<i>Chairs: Gregory N. Tsokas, Snezana Komatina</i>
14:00 - 14:15	BGS2019-ST1.3-015 Investigation of archaeological site by using 2D/3D direct current resistivity inversion: example from Kultepe Hoyu <i>M. E. Candansayar</i>
14:15 - 14:30	BGS2019-ST1.3-08 Past geomagnetic field variations. Archaeomagnetic dating. <i>M. Kovacheva, M. Kostadinova-Avramova, Y. Boyadzhiev, Ph. Lanosc, G. Hervec</i>
14:30 - 14:45	BGS2019-ST1.3-09 Application of rock-magnetic methods to study the origin of archaeological ceramic finds <i>D. Lesigyarski, N. Jordanova</i>

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14:45 - 15:00	<p>BGS2019-ST1.4-N8010</p> <p>National geo-information center - new concepts and tools for dissemination of accurate, durable and reliable geo data and products</p> <p><i>N. Miloshev, P. Trifonova, I. Georgiev, T. Marinova, V. Slabakova, N. Dobrev, V. Milusheva, T. Guerov</i></p>
15:00 - 15:15	<p>BGS2019-ST1.4-N4003</p> <p>Civil and scientific applications using data from the International Monitoring System of the CTBTO</p> <p><i>C. Saragiotis, R. LeBras, P. Mialle, P. Nielsen</i></p>
15:15 - 15:30	<p>BGS2019-ST1.4-O11</p> <p>Using expert advice and research tools in support for decision making and society awareness</p> <p><i>D. Tataru, D. Toma-Danila, E. Nastase, B. Grecu</i></p>
15:30 - 16:00	Coffee Break
Hour	ORAL SESSION
	3.9 Petrophysics
	<i>Chairs: Maria Kostadinova-Avramova, Petya Trifonova</i>
16:00 - 16:15	<p>BGS2019-GM3.9-O13</p> <p>Tracing the mineral magnetic signal of wildfire affected soils with time - implications for soil recovery</p> <p><i>N. Jordanova, D. Jordanova, D. Ishlyamski, A. Mokreva</i></p>

16:15 - 16:30	<p>BGS2019-GM3.9-N1606</p> <p>Paleomagnetic investigation of the Miocene - Quaternary volcanic rocks between Varto-Tunceli.</p> <p><i>S. Kayin, T. İşseven</i></p>
16:30 - 16:45	<p>BGS2019-GM3.9-O9</p> <p>Magnetism of soils as a tool for paleoenvironmental reconstructions during the Holocene in NE Bulgaria</p> <p><i>D. Jordanova, N. Jordanova</i></p>
16:45 - 17:00	<p>BGS2019-GM3.9-N23012</p> <p>Lithofacies identification using anisotropic parameters from logging data: A case study on Muglad Basin, South Sudan</p> <p><i>S. Jang, W. Deng, S. Hwang, D. Lee</i></p>
17:00 - 17:30	Break
Hour	ORAL SESSION
	4.3 Geothermal Exploration
	<i>Chairs: Gergana Georgieva, Laurentiu Asimopolos</i>
17:30 - 17:45	<p>BGS2019-EXG4.3-N1904</p> <p>Depth estimation from gravity data using radial amplitude spectrum method: application on Dikili (İZMİR) Geothermal Field</p> <p><i>E. Timur, C. Sari</i></p>

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17:45 - 18:00	<p>BGS2019-EXG5.3-N1501</p> <p>A hidden collapsed caldera revealed from 3D resistivity modelling of magnetotelluric data acquired for a geothermal exploration in Cappadocia region of central Turkey</p> <p><i>A. Tuğrul Başokur, N. Meqbel, Ö. Hacıoğlu, H. İbrahim Arslan, T. Efeçinar</i></p>
18:00 - 18:15	<p>BGS2019-EXG5.3-N902</p> <p>Investigation of geothermal potential of Balıkesir-Sındırgı-Düvertepe Area with magnetotelluric methods</p> <p><i>C. Sari, E. Icoz, E.G. Yurtkal</i></p>
18:15 - 18:30	<p>BGS2019-EXG5.3-N503</p> <p>Processing and interpretation of geological and geophysical data for establishing the geothermal resources</p> <p><i>N. Asimopolos, L. Asimopolos</i></p>

FRIDAY, 20 th SEPTEMBER	
Hour	ORAL PRESENTATIONS
	5.2 Near Surface Investigation
<i>Chairs: George Apostolopoulos, Irena Gjorgjeska</i>	
09:00 - 09:15	<p>BGS2019-ENG5.2-N4903</p> <p>Rainfalls and groundwater influences on landslides in Northeast Bulgaria</p> <p><i>Y. Chapanov, M. Atanasova, T. Orehova, H. Nikolov</i></p>
09:15 - 09:30	<p>BGS2019-ENG5.2-N5704</p> <p>Heavy rainfalls in Northeast Bulgaria due to solar activity and their possible influence on landslides</p> <p><i>Y. Chapanov, M. Atanasova, H. Nikolov</i></p>
09:30 - 09:45	<p>BGS2019-ENG5.2-N4401</p> <p>Preliminary results of Integrated Geophysical Surveying in an active landslide in Işıklar-Trabzon, Turkey</p> <p><i>M. Şenkaya, A. E. Babacan, H. Karsli</i></p>
09:45 - 10:00	<p>BGS2019-ENG5.2-N6405</p> <p>Detection of buried foundations in urban environment by Electrical Resistivity Tomography</p> <p><i>F. Chitea, D. Ioane, C. Tolbes, M.C. Calin, A. Diaconu</i></p>
10:00 - 10:15	<p>BGS2019-SM2.3-09</p> <p>Non-invasive studies using ambient vibrations in Romania</p> <p><i>B. Grecu, A. Tiganescu, E. F. Manea, C. Neagoie, B. Zaharia</i></p>

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10:15 - 10:30	BGS2019-SM2.3-010 Non-invasive investigations on sediment thickness in Southern Romania <i>A. Coman, E. Manea, C. Ortanza Cioflan, M. Diaconescu</i>
10:30 - 11:00	Coffee Break
Hour	ORAL SESSION
	5.2 Near Surface Investigation / 1.2 Marine Geophysics
	<i>Chairs: Ahmet Tugrul Basokur, Florina Chitea</i>
11:00 - 11:15	BGS2019-ENG5.2-N5502 Geophysical surveys for a quarry characterization – a case study in Konsko, Gevgelija <i>I. Gjorgjeska, V. Sesov</i>
11:15 - 11:30	BGS2019-ENG5.2-06 Geophysical exploration in support of the determination of possible causes that affect the stability of engineering work <i>J. J. Briones Contreras</i>
11:30 - 11:45	BGS2019-ST1.2-N70012 Digital terrain model of the seafloor of South Bulgarian Black Sea Coast <i>T. Lambev, L. Dimitrov, B. Prodanov</i>
11:45 - 12:00	BGS2019-ST1.2-N2004 Marine (sonar and shallow seismic) investigations in Izmir Bay – new results <i>M. Şenöz</i>

12:00 - 12:15	BGS2019-ST1.2-N37013 Single spectrum analysis for monthly sea level data from Varna tide gauge station <i>A. Ivanov, I. Georgiev, N. Dimitrov</i>
12:15 - 14:00	Lunch Break
Hour	ORAL SESSION
	3.1 Seismic
	<i>Chairs: Stefan Shanov, Mustafa Toker</i>
14:00 - 14:15	BGS2019-GM3.1-N54011 Crosshole seismic tomography for the detection of abandoned underground lignite mine galleries <i>G. Kritikakis, A. Vafidis, G. Tsilfidis, K. Papakonstantinou</i>
14:15 - 14:30	BGS2019-GM3.1-N2014 Integrated approach for pre-drill pore pressure prediction in data-limited exploration area – a case study from Offshore Myanmar <i>A. Sakulraungsri, P. Boonyasatphan, K. Rungsai, S. Sa-nguanphon, P. Som-in, V. Chaisomboonpan, H. Sognnes, J. lamboon</i>
14:30 - 14:45	BGS2019-GM3.1-N63015 Seismic investigation for the detection of liquefaction phenomena in an archaeological site, Lechaion, Greece <i>G. Apostolopoulos, K. Leontarakis, C. Orfanos, D. Minos-Minopoulos</i>

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14:45 - 15:00	BGS2019-GM3.1-N4501 Geophone array vs single sensor field data case study in Pannonian Basin <i>M. Vanić, A. Saprygin, S. Milojević, I. Bogatyrev, A. Polivakho</i>
15:00 - 15:30	Coffee Break
Hour	ORAL SESSION
	3.1 Seismic / 3.2 Earth's Potential Fields
	<i>Chairs: Christian Tzankov, Hristo Nikolov</i>
15:30 - 15:45	BGS2019-GM3.1-N2402 High resolution reflectivity inversion with cauchy regularization and acoustic impedance conversion <i>H. Karsli</i>
15:45 - 16:00	BGS2019-G16-N4704 Tentative oblique subduction high resolution models, lead to reducing costs of HPCC usage. <i>M. Pomeran, L. Zlăgnean, L. Beșuțiu</i>
16:00 - 16:15	BGS2019-GM3.2-N1005 Establishing the necessary conditions of geopotential data for optimal use of the iterative 3D modelling software <i>L. Asimopolos, N. Asimopolos</i>
16:15 - 16:30	BGS2019-GM3.2-N2607 Boundary analysis using Moving Average Differences of Bouguer gravity anomalies <i>N. G. Aydin, T. Isseven</i>

16:30 - 18:00	POSTER SESSION 1	
	<i>Chairs: Denitsa Borisova, Metodi Metodiev</i>	
	1.1 Near Surface Investigations	
	BGS2019-ST1.1-N4102 Evaluation of geophysical methods for studying snowfields in Pirin Mountain, Bulgaria <i>G. Georgieva, A. Kisyov, C. Tzankov, B. Chtirkova, V. Gourev, Y. Ivanov</i>	P-01
	BGS2019-ENG5.2-N58P2 Application of electrical resistivity tomography and induced polarization for identification of underground reinforced concrete structures <i>I. Taleski, A. Veleviski</i>	P-02
	1.3 Geophysics for Cultural and Historical Heritage	
	BGS2019-ST1.3-N13P1 Applying archaeomagnetic method to identify the purpose of usage of archaeological furnaces <i>P. Dimitrov, M. Kostadinova-Avramova</i>	P-03
	BGS2019-ST1.3-N11P2 Is it possible to obtain reliable archaeomagnetic results from baked clays with very weak magnetism? <i>M. Kostadinova-Avramova, P. Dimitrov</i>	P-04

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1.4 Geophysics for Society		
BGS2019-ST1.4-N65P3	Virtual seismological network of Sofia University - a research database <i>L. Dimova, R. Raykova, L. Dimitrova, M. Tsekov</i>	P-05
3.1 Seismic		
BGS2019-GM3.1-N3P1	Velocity model building – key issue for seismic migration process <i>M. Grigorova</i>	P-06
3.2 Earth's Potential Fields		
BGS2019-GM3.2-P2	ULF geomagnetic observations in Panagyuriste (PAG), Bulgaria: equipment and data set <i>M. Chamati, M. Vellante, E. Pietropaolo</i>	P-07
BGS2019-GM3.2-N31P3	Nonlinear analysis of geomagnetic variations data from Panagyuriste Geomagnetic Observatory, Bulgaria <i>M. Chamati, E. Botev</i>	P-08
BGS2019-GM3.2-N34P4	Regional mapping of geophysical and geological data in the process of their integrated analysis and interpretation <i>P. Stavrev, S. Dimovski, A. Kisyov, P. Trifonova, M. Metodiev</i>	P-09

3.3 Electrical and Electromagnetic Methods		
BGS2019-GM3.3-N38P5	Influence of geomagnetic activity on electron concentration of the ionosphere <i>R. Bojilova</i>	P-10
BGS2019-GM3.3-N33P6	Seawater intrusion in the Alepu protected area, part of the Ropotamo complex (Southern Bulgaria) <i>N. Stoyanov, S. Dimovski, A. Kisyov</i>	P-11
BGS2019-GM3.3-N51O10	Indexing of ULF/ELF electromagnetic emissions as a health and life quality factor <i>D. Teodosiev, P. Nenovski, M. Chamati, D. Borisova, T. Nikolova</i>	P-12
BGS2019-GM3.3-N25O8	Investigation of trees' internal structure using electric resistivity method <i>Y. Yilmaz, T. Isseven, N.G. Aydin</i>	P-13
3.4 Borehole Methods		
BGS2019-GM3.4-N21P7	Site characterization using integrated well logging techniques: preliminary results for hydraulic and geometrical evaluation <i>J. Shin, S. Hwang, S. Jeong</i>	P-14

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	BGS2019-GM3.4-N52P8 Aperture width estimation from acoustic televiewer log using 3 inches physical fractured borehole model <i>S. Hwang, J. Shin, S. Jeong</i>	P-15
	3.9 Petrophysics	
	BGS2019-GM3.9-P12 Study of magnetism of topsoils after laboratory heating - simulating the effect of ancient fires <i>D. Ishlyamski, N. Jordanova, B. Georgieva</i>	P-16
20:00 - 24:00	Gala dinner	

SATURDAY, 21st SEPTEMBER	
Hour	ORAL PRESENTATIONS
	2.2 Physics of Earthquakes and Seismic Sources
	<i>Chairs: Dimcho Solakov, Irena Aleksandrova</i>
09:00 - 09:15	BGS2019-SM2.2-N4803 Frictional strength of faults: evidence for post seismic deformation <i>A. Pinar</i>
09:15 - 09:30	BGS2019-SM2.2-N6606 Extensive strike-slip faulting to NNW-part of Lake Erçek region by finite source and coulomb modeling (E-Anatolia) <i>M. Toker, A. Pinar</i>
09:30 - 09:45	BGS2019-SM2.2-O5 Seismicity in Galati region, Romania: from 2013 seismic swarm to the monitoring of present-day seismic activity <i>N. Poiata, D. Tataru, B. Grecu</i>
09:45 - 10:00	BGS2019-SM2.2-N707 Azimuthal rotation-dependent spatial distributional patterns of small repeaters estimated from microseismic data-set of Gokova Gulf (SW-Turkey) <i>M. Toker</i>
10:00 - 10:15	BGS2019-SM2.2-N5308 Seismicity of the Shabla-Kaliakra-Balchik region over the period 1986-2014 <i>M. Tsekov, E. Botev, L. Dimova, R. Raykova</i>
10:15 - 10:45	Coffee Break

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Hour	ORAL SESSION
	2.2 Physics of Earthquakes and Seismic Sources / 2.1 Earth's Structure
	<i>Chairs: Stela Simeonova, Bogdan Grecu</i>
10:45 - 11:00	BGS2019-ST1.1-N3501 Ice generated events in Perunika Glacier, recorded by LIVV station <i>G. Georgieva, L. Dimitrova, V. Gourev</i>
11:00 - 11:15	BGS2019-SM2.2-N602 The present geodynamics and kinematics of Albanides <i>M. Meçaj, E. Dushi, R. Koçi</i>
11:15 - 11:30	BGS2019-SM2.1-N69016 Thrusting tectonic and the role of evaporites in oil traps formation in the Albania Ionian tectonic zone <i>A. Mësonjësi, P. Dorre, M. Bonjako</i>
11:30 - 11:45	BGS2019-SM2.1-N401 Teleseismic Receiver Functions and Gutenberg-Richter b-value distributions around the Lake Van region (Eastern Turkey) <i>H. Alkan, H. Çinar, E. Bayrak</i>
11:45 - 12:00	BGS2019-SM2.3-011 Fractal analysis of microseismic noise in order to detect earthquake indicators and search for connection with their focal mechanisms <i>E. Oynakov, V. Protopopova, E. Botev</i>
12:00 - 14:00	Lunch Break

Hour	ORAL SESSION
	2.5 Seismic Hazard and Risk / 2.4 Pre-earthquake Processes and Earthquake Prediction
	<i>Chairs: Emil Botev, Liliya Dimitrova</i>
14:00 - 14:15	BGS2019-SM2.5-012 Next-generation of ShakeMap for Romania and neighboring countries <i>B. Grecu, A. Danet, L. Manea, E. F. Manea, A. P. Constantin, C. Neagoe, C. Ionescu</i>
14:15 - 14:30	BGS2019-SM2.4-N30013 Unipolar magnetic pulses – a manifestation of stress induced impulse modes (a petroplasma viewpoint) <i>P. Nenovski</i>
14:30 - 14:45	BGS2019-SM2.4-N32014 Pre-earthquake changes of atmospheric ozone and temperature over the wide Balkan region <i>N. Kalifarska</i>
Hour	6. Geophysical Instruments and Software
<i>Chairs: Emil Botev, Liliya Dimitrova</i>	
14:45 - 15:00	BGS2019-GI6-N6702 Absolute magnetic measurements, methods, and instrumentation <i>A. Domjan, L. Hegymegi, C. Hegymegi</i>
15:00 - 15:30	Coffee Break

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15:30 - 17:00	POSTER SESSION 2	
	<i>Chairs: Lyuba Dimova, Atanas Kisyov</i>	
	2.2 Physics of Earthquakes and Seismic Sources	
	BGS2019-SM2.2-P1 Use of waveform cross-correlation method to discriminate the quarry blasts by earthquakes recorded in Dobrogea between 2012 and 2016 <i>M. Rogozea, F. Borleanu, R. Dinescu, A. Chircea, M. Popa</i>	P-17
	BGS2019-SM2.2-N36P2 The april 2017 MS5.2 Kurbneshi earthquake and its seismogenic zone <i>R Ormeni, I. Hoxha</i>	P-18
	BGS2019-SM2.2-N14P3 Empirical relations converting seismic intensity to moment magnitude <i>I. Aleksandrova, D. Solakov, S. Simeonova, P. Raykova</i>	P-19
	BGS2019-SM2.2-P4 Events on the limit between the surface and the atmosphere – what infrasound and seismic data shows <i>S. Matos, I. Popova</i>	P-20
	BGS2019-SM2.2-P8 Monitoring regional explosions with Romanian seismo-acoustic arrays. Case study: 9 th of October 2018, Ukraine <i>R. Dinescu, D. Ghica, F. Borleanu, M. Popa, M. Rogozea, A. Chircea</i>	P-21

	2.5 Seismic Hazard and Risk	
	BGS2019-SM2.5-N39P5 Population exposure index – an element of seismic risk assessment at the territory of Bulgaria <i>D. Solakov, M. Metodiev, S. Simeonova, P. Trifonova</i>	P-22
	BGS2019-SM2.5-N17P6 GMPEs used in seismic hazard assessment for Bulgaria-selection and testing in Bulgaria <i>D. Solakov, S. Simeonova, P. Raykova, E. Oynakov, I. Aleksandrova</i>	P-23
	2.6 Volcanos and Tsunami	
	BGS2019-SM2.6-N18P7 Relief resolution effect on the tsunami numerical modelling <i>L. Dimova, R. Raykova</i>	P-24
	3.6 Remote Sensing Methods in Geophysics	
	BGS2019-GM3.6-N50P13 Relations between lower stratospheric ozone and El Nino-Southern Oscillation <i>T. Velichkova, N. Kilifarska</i>	P-25
	BGS2019-GM3.6-N46P9 Remote sensing of land covers over a test area <i>D. Borisova, M. Goranova, V. Hristova</i>	P-26

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	<p>BGS2019-GM3.6-N27P10</p> <p>Monitoring of landslide processes at the NE Bulgaria by joint use of GNSS and InSAR</p> <p><i>M. Atanasova, H. Nikolov, I. Georgiev, A. Ivanov, N. Dimitrov</i></p>	P-27
	<p>BGS2019-GM3.6-N42P11</p> <p>DInSAR in displacement detection after seismic events</p> <p><i>M. Atanasova, H. Nikolov, V. Protopopova</i></p>	P-28
	<p>BGS2019-GM3.6-N28P13</p> <p>Impact of atmospheric refraction on precise leveling observations</p> <p><i>N. Dimitrov, P. Danchev, I. Georgiev</i></p>	P-29
	<p>BGS2019-ENG5.1-N29P1</p> <p>Preliminary results from analysis of geodetic data for the Northern Black Sea landslide "Momchilov rid"</p> <p><i>N. Dimitrov, I. Georgiev, M. Atanasova, A. Ivanov</i></p>	P-30

	4.2 Mines and Coal Exploration	
	<p>BGS2019-EXG4.2-N62P1</p> <p>Seismic location of coal seam faults in underground coal mining</p> <p><i>O. V. Sukhinina</i></p>	P-31
	6. Geophysical Instruments and Software	
	<p>BGS2019-GI6-N61P1</p> <p>Wireless mobile digital accelerometer for ambient noise recording</p> <p><i>D. Zlatanski, D. Gospodinov</i></p>	P-32
	<p>BGS2019-GI6-01</p> <p>Bulgarian Digital Seismological Network and Data Centre</p> <p><i>L. Dimitrova, D. Dimitrov</i></p>	P-33
17:00 - 17:30	Closing Ceremony - Awards for the best young authors	

Exhibition

An exhibition presenting the latest achievements of the industry will be organized during the congress in Ara Hall on 18-21 September 2019.

Congress Lobby of Flamingo Grand Hotel



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|---|---|---|---|
| 1 EAGE | 3 Geosystems | 5 IRIS | 7 TERRATEC
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| 2 CTBTO
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Geosciences, Europe S.L. |

List of Exhibitors

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Advanced Geosciences Europe, S.L.
Calle del Aire, 85, 28042, Madrid, Spain
Tel.: +34 913056477, Fax: +34 911311783
E-mail: hasan@agiusa.com,
www.agiusa.com

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Ambrogeo - Strumenti Per Geofisica
3, Localita Roveleto Landi -
29029 Rivergaro (PC) - Italia
Tel.: +39 0523 956119,
Fax: +39 0523 956226
E-mail: info@ambrogeo.com,
www.ambrogeo.eu/en-gb/home

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CTBTO Preparatory Commission
Vienna International Centre,
PO Box 1200, 1400 Vienna, Austria
Tel.: +43 1 26030 ext. 6200,
Fax: +43 1 26030 5823
Email: info@ctbto.org,
www.ctbto.org

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European Association of
Geoscientists and Engineers
3990 DB, PO Box 59, Houten,
The Netherlands
Tel.: +31 889955055, Fax: +31 306343524
Email: age@eage.org , www.eage.org

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Iris Instruments
1 av. Buffon, 45100, Orleans, France
Tel.: +33 2 38638100, Fax: +33 2 38638182
E-mail: info@iris-instruments.com,
www.iris-instruments.com

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Exhibition



Karotazs Ltd. - A member of CAPES
Kővirág u. 39, 7634 Pécs, Hungary
Tel.: +36 72 224 949
E-mail: posta@karotazs.hu



Lunitec S.R.L.
Via Variante Aurelia 115/bis,
19038 Sarzana (SP), Italia
Tel. +39 0187 692070
E-mail: francesco.carbone@lunitec.it,
www.lunitec-ssm.com



Terratec Geophysical Services
Bulgaria OOD
Tel. office Bulgaria: +359 884 574 888
Tel. head office Germany: +49 7634 4644,
Fax head office Germany: +49 7634 4634
Dimova Mahala Quarter,
Targovski Complex, Building 21,
2302 Pernik, Bulgaria
E-mail: sales@terratec-geoservices.com,
bulgaria@terratec-geoservices.com
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Useful Information



Registration Desk

Congress Management and Events - CME Ltd. is in charge of the event logistics.

The Registration Desk will be located in the Congress Lobby of Flamingo Grand Hotel and will operate from 18 to 21 September from 8:00 till 18:00 h.

You will receive your name tag and delegate's kit upon registration. Please, make sure to wear your name tag during the congress.

The colours of the name badges have the following significance:

- Orange line - Delegate
- Yellow line - Exhibitor
- Green line - LOC
- White line - /Local Organizing Committee/ Accompanying Person

Please feel free to contact the Registration Desk for any questions you may have during your stay in Albena Resort.



Information for Speakers

Duration

Talks are scheduled in 15-minute time slots for oral presenters. We strongly encourage a presentation of no more than 12 minutes to allow 3 minutes for questions from the audience. The time limit will be strictly respected.

Presentations types

PowerPoint (.ppt), (.pptx) or PDF (.pdf)

For speakers

Presentations will be given in Flamingo Grand Hall of Flamingo Grand Hotel. Computer and multimedia projector will be available for oral presenters. Speakers are kindly requested to upload their presentations at least three hours before its start to the technical staff in the hall. Speakers are kindly requested to strictly follow their fixed time for presentation according to the programme (12 minutes for presentation plus 3 minutes for questions).

Useful Information



Poster Session

Poster sessions will be held in Ara Hall on 20th and 21st of September.

Display boards will be provided on-site. Adhesive materials will be available to mount your poster.

Each poster is assigned a number according to its number in the programme so that participants will know where to place their posters. Posters should be mounted from 08:30 h on the day of the appropriate poster session and should be removed after the end of the session. Posters not removed and left behind will be discarded.

Presenting authors will be expected to be present at their poster and give a short oral overview on their work to moderators with a focus on results.

Posters display boards will be dismantled and removed by the vendor, so please have your poster down. If not, the congress organizers will not be responsible for lost or damaged posters removed by the display board vendor.



Hotel Accommodation and Meals

Hotel accommodation is provided for participants in the following hotels of Albena Resort: Flamingo Grand Hotel (5 star), Flamingo Hotel (4 star), Sandy Beach Hotel (3 star). Accommodation is provided on a Full Board Basis (breakfast, lunch and dinner included).

Please, note that check-in time is 14:00 h and check-out time is 12:00 h.



Payments

Costs for additional services such as mini bar, laundry, room service, etc., are to be paid personally at the hotel reception desks.

Payments on spot for additional overnights, transfers, social and tourist programmes are to be settled at the Registration Desk in Flamingo Grand Hotel.

Credit cards and cash (Euro and BGN) are accepted.



Transfers

Airport of Varna is located 40 km to the South from Albena Resort.

CME Ltd. will arrange transfers upon departure /from Albena Resort to Varna Airport/ for participants upon preliminary request. Precise travel details should be given to CME Ltd. at least 2 days prior to departure. The organization of the departure transfers will be coordinated by CME. A departure schedule with pick-up time will be available at the Registration Desk.

Pick-up time will be scheduled approximately 3 hours before the flight hour.

Ice-breaker Party

The opening social event of the congress is the Ice-breaker Party, which will be held at the swimming pool area of Flamingo Grand Hotel on Wednesday, 18 September at 19:30. It is open for all registered participants.

Useful Information

Gala Dinner /Bulgarian Night/

The social highlight of the 10th BGS Congress is the Gala Dinner. Enjoy a meal with your colleagues, meet others and be entertained!

Venue: Green Forest Restaurant, Albena Resort

Date: 20 September 2019, Friday, 20:00 h.

Tickets are available for 20 Euro supplementary payment (for participants accommodated in congress hotels) prior to 19 September which include dinner, drinks, folklore programme and DJ.

Full price is 33 Euro (for participants not accommodated in the congress hotels).

Field Trip

Albena resort - Kaliakra Cape - Yailata Archaeological Reserve - Shabla Region - Albena Resort

Trip may be cancelled due to low interest. Effected delegates will be contacted directly with alternative options or refunds.

The congress field trip provides opportunities for exploring the NE Bulgaria - area covering parts of the Eastern slope of the North Bulgarian arch, from the Bulgarian-Romanian border to the North to the Cape Kaliakra to the South and from Dobrich city to the West, to the Black Sea continental slope to the East. Moreover, we will visit the scenic and archaeologically rich Black Sea Coast.

Date: 22 September 2019, Sunday, 09:00 - 17:00 h.

Price: 40 Euro per person, including transportation, entrance fees for the tourist visits, guide in English. The price is valid for a minimum of 10 persons.

The bus for the trip will start at 09:00 h from Flamingo Grand Hotel.

Comfortable shoes are recommended.

Tourist Programmes

Excursion to Varna and Aladja Monastery



Date: 21 September 2019, Saturday, 09:00

Price: 20 Euro per person, incl. transportation, museum fees, guide in English

/included in the accompanying person's registration fee/

The bus for the tour will start at 09:00 h. from Flamingo Grand Hotel.

Excursion to Nessebar



Trip may be cancelled due to low interest. Effected delegates will be contacted directly with alternative options or refunds.

Date: 20 September 2019, Friday, 9:00 - 17:00 h.

Price: 45 Euro per person, incl. transportation, museum fees, guide in English, lunch

Note: The price is valid for a minimum of 10 persons.

The bus for the tour will start at 9:00 h. from Flamingo Grand Hotel.

Tours should be booked and paid at least two days prior to the respective date of the excursion at the Registration Desk.

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