

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
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

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>

Technical Programme

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>

Technical Programme

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>

Technical Programme

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>

Technical Programme

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

Technical Programme

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

Technical Programme

	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

Technical Programme

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

Technical Programme

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

Technical Programme

	<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

	<p>4.2 Mines and Coal Exploration</p>	
	<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
	<p>6. Geophysical Instruments and Software</p>	
	<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	<p>Closing Ceremony - Awards for the best young authors</p>	