

# “GEOSCIENCES 2008”

## Program

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### Thursday, December 3, 2009, Hall 4

<b>Registration</b>		<b>8:00 – 9:30</b>
<b>Annual report and election meeting of BGS</b>		8:30–11:15
<b>C o f f e e B r e a k</b>		11:15–11:30
<b>Opening Ceremony</b>	<i>Dr. S. Strashimirov – President of the Bulgarian Geological Society</i>	11:30–11:45
Mesozoic Geology of Bulgaria	<i>Christo Dabovski, Ivan Zagorchev, Todor Nikolov</i>	11:45–12:15
Year of the Planet Earth and the Triennium of Geosciences – Lisbon 2009	<i>Ivan Zagorchev</i>	12:15–12.30
<b>L u n c h b r e a k</b>		<b>13:00– 14:00</b>

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### **Session: Geochemistry and Mineralogy, hall 4** **Chairman: Mihail Tarassov**

Jurassic metagranitoids south of the West-Rhodope batholith – conventional and in situ U-Pb zircon analyses, Sr-Nd- Hf isotope tracing and geodynamic constraints	<i>Albrecht von Quadt, Stoyan Sarov, Irena Peytcheva, Emilia Voinova</i>	14:00–14:20
Distribution particularities of nodules occurrence in the eastern Clarion– Clipperton Zone (NE Pacific)	<i>Valcana Stoyanova, Ryszard Kotlinski</i>	14:20–14:40

Organic matter characteristics of dump materials from East Maritza Coal Basin (Bulgaria)	<i>Ekaterina Filcheva, Kalinka Markova, Zlatka Milakovska</i>	14:40–15:00
Geochemistry of metacarbonate rocks from the Arda tectonic unit in the Central Rhodope, Bulgaria	<i>Zlatka Cherneva, Milena Georgieva, Tanja Stoilkova, Ana Petrova, Salza Hekimova</i>	15:00–15:20
Ordovician protoliths of metamorphic rocks in Eastern Pirin–Western Rhodopes: Are they part of the Ograzhden Unit?	<i>Irena Peytcheva, Albrecht von Quadt, Stoyan Sarov, Emilia Voinova, Krastina Kolcheva</i>	15:20–15:40
Preliminary data on auriferous colloform banded textures from high-angle veins in the low-sulfidation Khan Krum gold deposit, SE Bulgaria	<i>Irina Marinova</i>	15:40–16:00
<b>C o f f e e B r e a k</b>		<b>16:00 – 16:20</b>
Paleogene ultrapotassic volcanic rocks of the Eastern Rhodopes, Bulgaria: Petrology, mineralogy and genesis	<i>Yotzo Yanev, Rositsa Ivanova</i>	16:20–16:40
Petrology of marbles from the Arda tectonic unit, Central Rhodope, Bulgaria	<i>Milena Georgieva, Zlatka Cherneva, Salza Hekimova, Ana Petrova</i>	16.40–17:00
Textural and structural evidences for cumulative processes and layering in Svidnya pluton, Stara Planina Mountain, Bulgaria	<i>Momchil Dyulgerov, Bernard Plateveoet</i>	17:00–17:20
Geological, petrographic and geochemical peculiarities of the effusive rocks from the area of Malo Buchino village (Western Srednogorie)	<i>Rossen Nedialkov, Stefan Velev, Albrecht von Quadt, Irena Peytcheva</i>	17:20–17:40
Greigite associations in the manganese ore deposit Obrochishte, Dobrich district, NE Bulgaria	<i>Sveila Atanassova, Petko Petrov, Denka Yanakieva, Hristo Stanchev</i>	17:40–18:00
Uncommon speleothems of karst cavern “Obrechenata” in the area of the village Karlukovo, NW Bulgaria	<i>Zhivka Janakieva, Martin Tranteev</i>	18:00–18:20

## Friday, December 4, 2009, Hall 3

### Poster Session opening

8:30 – 9:00

#### Session: Geodynamics, Structural geology and Regional geology

Chairman: Ivan Zagorchev

Strike-slip fault and reverse fault in regional extension	<i>Alexander Radulov</i>	9:00–9:20
Archaeological excavations and extraction of information about ancient earthquakes	<i>Boyko Rangelov</i>	9:20–9:40
The northern boundary of the Fore-Balkan between Ogosta and Iskar Rivers – post-Cretaceous tectonics	<i>Radoslav Nakov</i>	9:40–10:00
Gasconductive faults of the East Stara Planina Mountain (between Beronovo village and Sungurlare town)	<i>Mitko Paskalev, Vladimir Hristov, Petar Petrov</i>	10:00–10:20
Lithologic-tectonic aspect of the Circum-Rhodope Belt flysch in the Chalkidiki Peninsula and the Rhodope-Thrace districts, Northern Greece	<i>Nikolay Bonev, Laslo Klain, Christo Pimpirev</i>	10:20–10:40

### Coffee Break

10:40 – 11:00

Geotectonic analysis based on seismostratigraphy in the South Bulgarian Shelf	<i>Orlin Dimitrov, Ivan Genov</i>	11:00–11:20
The Black Sea flood – science and mythology	<i>Petko Dimitrov, Dimitar Dimitrov, Krasimira Slavova</i>	11:20–11:40
Stable isotope study of marbles from Rhodopes metamorphic terrain – an useful contrivance for tectonic correlations	<i>Philip Machev, Serguey Arkadakskiy, Lutz Hecht, Laslo Klain</i>	11:40–12:00
Lithotectonic subdivision of the metamorphic rocks of West and North-West Rila Mountain	<i>Stoyan Sarov</i>	12:00–12:20
The Thracian Suture – does it exist?	<i>Ianko Gerdjikov, Alexandre Kounov, Anna Lazarova, Kamen Bonev, Neven Georgiev, Dian Vangelov</i>	12:20–12:40

Block faulting within Gharyan uplift,  
Jebel Nafusa arch, Northwestern Libya *Mohammad Ramadan* 12:40–13:00

**L u n c h b r e a k** **13:00 – 13:30**

**P o s t e r s e s s i o n** **13:30 – 14:00**

**Session: Paleontology, Stratigraphy and Sedimentology, hall 3**  
**Chairman: Daria Ivanova**

Sedimentological characteristics of Iskar  
Carbonate Group (Middle Triassic) in  
the Belogradchik region – preliminary  
results *Athanas Chatalov,*  
*Galina Doneva* 14:00–14:20

Calpionellid zonation of the Tithonian,  
Berriassian and Valangian around the  
village of Gintsi, West Balkan  
Mountains *Iskra Lakova, Silviya*  
*Petrova* 14:20–14:40

First data on the presence of Selandian  
Stage (Middle Palaeocene) in Central  
North Bulgaria *Kristalina Stoykova,*  
*Marin Ivanov* 14:40–15:00

Revision of the ammonite criteria for the  
Jurassic–Cretaceous boundary in  
Bulgaria *Marin Ivanov, Kristalina*  
*Stoykova, Vyara Idakieva* 15:00–15:20

Stratigraphy and sedimentology of the  
Stephanian and Permian in the Lozen  
Mts. and Vakarel hills *Slavcho Yanev* 15:20–15:40

**C o f f e e B r e a k** **15:40 – 16:00**

**Session: Environmental problems, hall 3**  
**Chairman: Vassilka Mladenova**

Palaeogeographic reconstruction of the  
Gulf of Varna on the basis of materials  
from the XIXth and XXth centuries *Veselin Peychev,*  
*Preslav Peev* 16:00–16:20

About formation of international  
consortium “Saprotech” *Dimitar Dimitrov, Yevgen*  
*Shnukov, Petko Dimitrov,*  
*Georgi Tsvetkov* 16:20–16:40

Energy resource of the sea wind wave in  
the southwest area of Black Sea *Dobromir Grozdev* 16:40–17:00

Formation of mineral phases in the coals  
as a result of microbial activity *Mariana Yossifova* 17:00–17:20

Preliminary data on organic bounded heavy metals in sites affected by mining activity in Chiprovtsi district, NW Bulgaria

*Tanja Stoilkova, Vassilka Mladenova, Tsvetan Kotsev, Zornitza Cholakova, Ralf-Thomas Schmitt*

17:20–17:40

## POSTER SESSION, HALL 2

**Friday, December 4, 2009**

**8:30 – 17:30**

### GEOCHEMISTRY AND MINERALOGY

Indicative properties of accessory magnetite and ilmenite from mixed magmas of Petrohan pluton, Western Balkan, Bulgaria

*Eugenia Tarassova, Mihail Tarassov, Elena Tacheva, Rossen Nedialkov*

LA-ICP-MS at the Geological Institute, Bulgarian Academy of Sciences – a powerful tool for trace element and isotope studies of rocks, minerals, soils, coal, water and archaeological artifacts

*Irena Peytcheva, Dimitrina Dimitrova, Peter Marchev, Zlatka Cherneva, Valentin Ganey, Mitko Popov and working team of project RNF 01/0006 of the Bulgarian National Science Fund*

Occlusion of ZnCl<sub>2</sub> in a clinoptilolite matrix

*Luiza Dimova, Georgi Kirov, Ognyan Petrov, Yana Tzvetanova, Nadejda Lihareva*

Rb-Sr isotope data on Variscan and Alpine polymetamorphic evolution of the granitoids from the Ograzhden unit in SW Bulgaria

*Nikola Zidarov, Valentin Andreichev, Irena Peytcheva*

Zincian tetrahedrite from the deposit of Yuzhna Petrovitsa, Madan ore field

*Rossitsa D. Vassileva, Radostina Atanassova*

Synthesis of zircon pigments

*Tsvetan Dimitrov, Mihail Doinov, Ludmil Bozadjiev, Miluvka Stancheva*

### PALEONTOLOGY AND STRATIGRAPHY

Upper Barremian ammonite biostratigraphy in Central-North and Northeastern Bulgaria

*Marin Ivanov, Vyara Idakieva*

Valanginian ammonite biostratigraphy in the Barlya section, Salash Formation (Western Balkan Mountains)

*Silviya Petrova*

New data on the palynostratigraphy of Mogilishte Formation  
(Dobrudzha Coal Basin – Late Carboniferous)

*Tatyana Dimitrova*

#### SEDIMENTOLOGY

The playas on the Lower and Upper Permian and their difference with the Lower Triassic in Bulgaria: Paleogeographics and paleogeodynamics implications

*Slavcho Yanev*

Maeotian and Upper Sarmatian (Chersonian) laminated aragonite-clayey sediments: Examples from Eastern Serbia and Northwestern Bulgaria

*Srebrenka Petrović, Elena Koleva-Rekalova*

#### GEODYNAMICS, STRUCTURAL GEOLOGY AND REGIONAL GEOLOGY

Elatsite fault zone – western segment of the Kashana fault (KF)?

*Nikolay Petrov, Kamelia Nedkova*

#### MINERAL RESOURCES

The alunite rocks in Bulgaria – raw and ecological material

*Angel Kunov, Radoslav Nakov, Atanas Hikov, Nadezhda Velinova, Sylvina Georgieva, Alexander Hadjiev*

Gold-bearing potential of the alluvium in Iskar River's catchment basin between Samokov town and Kokalyane village

*Gergana Bakalova*

Stream-sediment district dividing and prognoses for mineral deposits in Kardzhali district, Bulgaria

*Oleg Vitov*

Aureols of mechanical dissemination of chromite and spatial distribution of mafic and ultramafic rocks in Bulgaria

*Oleg Vitov, Petya Nenova*

#### GEOLOGICAL AND HISTORICAL HERITAGE. GEOARCHEOLOGY

The preserved heritage of Professor Boris Kolkovski in the Mineralogy, Petrology and Economic Geology Museum of the Sofia University "St. Kliment Ohridski"

*Elena Neykova, Any Rusinova*

## ENVIRONMENTAL PROBLEMS

Assessment of the environmental conditions in the area of KCM Plovdiv smelter, after the measures undertaken for remediation and protection

*Aleksey Benderev, Boyka Mihaylova, Thomas Kerestedjian, Radostina Atanassova, Vijay Singh*

Application of GIS for localization of agricultural land within the vulnerable areas of karst terrains (the example of Western Stara Planina)

*Boyka Mihaylova, Aleksey Benderev, Konstantin Kostov*

Chemistry of Kamchia River and its influence to the coastal Black Sea area

*Galina Shtereva, Anton Krastev*

Geological features and regime observations of “Ezerishte” landslide

*Plamen Ivanov, Nikolai Dobrev, Miroslav Krastanov, Rosen Nankin, Georgi Frangov*

Landslide phenomena near the Oranovo coal mine, SW Bulgaria

*Rosen Nankin, Nikolai Dobrev*

**Closing party: Earth and Man National Museum – 18:45**

Cocktail for the participants and the traditional “Christmas party of the geologist”